

THE UNIVERSITY OF TEXAS AT DALLAS

Faculty Achievements

Books, Articles, Grants

Patents, Exhibitions and

Performances

2005

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INTRODUCTION

The University of Texas at Dallas (UTD) was founded as a scientific research institute in 1962 by a bold group of innovators and entrepreneurs who also founded the company that invented the integrated circuit and changed the world. In 1969 the University joined the University of Texas System. UTD focused its initial energy on recruiting outstanding faculty and establishing first-rate graduate programs. In 1990 the University began admitting lower division students and has ever since had one of the most distinguished, ambitious freshman classes in the State of Texas.

Today, The University of Texas at Dallas stands poised to become one of the nation's premier public research universities. The mission of UTD (as stated in the university's *Strategic Plan*) is to serve "the Metroplex and the State of Texas as a global leader in innovative, high quality science, engineering, and business education and research. The University is committed to (1) producing engaged graduates, prepared for life, work, and leadership in a constantly changing world, (2) advancing excellent educational and research programs in the natural and social sciences, engineering and technology, management, and the liberal, creative, and practical arts, and (3) transforming ideas into actions that directly benefit the personal, economic, social, and cultural lives of the citizens of Texas." Within the context of this broad mission, the University aspires to be:

- A first-rank public research university with focused centers of excellence, prepared to meet the challenges of a rapidly changing, technology-driven global society
- A global force in innovative, transdisciplinary research and education in emerging areas of technology, science, and learning
- A ground-breaking leader in both framing and answering the questions faced by business, policy makers, healthcare, and the public
- A synergistic partner with local industry, government, and cultural organizations as well as local K-12 schools, community colleges, and universities
- One of the most creative, innovative universities in the nation and world.

Faculty Achievements 2005 is a specific record of how individual faculty members of The University of Texas at Dallas make contributions to the broad mission and goals of the university, and includes the following categories: (1) authored books, (2) edited books, (3) articles in refereed journals, (4) articles published in conference proceedings, (5) articles and chapters in edited volumes, (6) invited performances in the arts, (7) invited art exhibitions, (8) juried art exhibitions, (9) patents awarded and (10) grants awarded and continued (principal investigator).

This volume recognizes a total of 294 members of the faculty. In 2005, 14 faculty members authored or co-authored books; 217 published articles in refereed journals; 61 contributed articles and chapters in edited books; and 9 edited or co-edited books. Additionally, 140 faculty members published articles in conference proceedings, and 20 gave creative performances or had exhibitions in the arts. In the areas of sponsored research, 130 faculty members were awarded (new or continuing) grants, and 10 were awarded patents.

SCHOOL OF ARTS AND HUMANITIES

Dennis M. Kratz, Professor, Literary Studies and Dean

Alexander Argyros, Professor, Literary Studies

B.A., Columbia University, 1971

M.A., Cornell University, 1974

Ph.D., Cornell University, 1977

Performance: Author

Night Blooming Cereus (Production)

Alex Argyros (playwright)

The Theatre-Studio, Inc., New York, NY (July 2005)

Bronx Vic. (Staged Reading)

Alex Argyros (playwright)

Boz and The Bard Production, Inc., New Jersey (November 2005)

Article in Edited Volume

The Wheatly Fly Box

Alex Argyros

Fresh Fiction for Fresh Water Fishing ed. by Tom Tolnay

Birch Book Press, Delhi, NY (2005) 120 pgs.

Charles Bambach, Professor, Historical Studies

B.A., State University of New York at Cortland, 1974

M.A., University of Michigan, 1976

Ph.D., University of Michigan, 1987

Articles in Refereed Journals

Athens and Jerusalem: Rosensweig, Heidegger, and the Search for an Origin

Charles Bambach

History and Theory **44 (2)** (May 2005) 271-288

Karl Jaspers: Navigations in Truth

Charles Bambach

Nortre Dame Philosophical Reviews (April 2005) online journal

David F. Channell, Professor, Historical Studies
B.S., Case Inst. of Technology, 1967
M.S., Case Western Reserve University, 1969
Ph.D., Case Western Reserve University, 1975

Articles in Conference Proceedings

Scottish Roots of Engineering Science in Japan
David F. Channell
XXII International Congress of History of Science – Book of Abstracts
Beijing, China, Chinese Academy of Sciences (July 2005) 267

Milton A. Cohen, Professor, Literary Studies
B.A., Michigan State University, 1968
M.A., Indiana University, 1970
Ph.D., Syracuse University, 1981

Authored Books

Hemingway's Laboratory: the Paris in our time
Milton A. Cohen
Tuscaloosa, AL: University of Alabama Press (2005) 267 pp.

Articles in Conference Proceedings

August 1914—Modernists Facing the War: Berlin, Paris, and London
Milton A. Cohen
7th Annual Conference of Modernist Studies Association, Chicago,
(November 2005)

Sean Cotter, Assitant Professor, Literary Studies
B.A., Loyola University, 1993
M.A., University of Texas, Dallas, 1998
Ph.D., University of Michigan, 2004

Articles in Refereed Journals: Poetry Translation

Amsterdam: Schiphol” (translation of a Romanian poem by Liliana Ursu)
Sean Cotter

Fred Curchack, Professor Art and Performance

B.A., Queens College, City University of New York, 1970

M.A., Queens College, City University of New York, 1972

Invited Performance

Gauguin's Shadow

Fred Curchack, author, director, videographer, solo performer

Providence, Rhode Island: Performance Studies International Conference

Brown University/Trinity Repertory Theatre, (March 2005)

Golden Buddha Beach

Fred Curchack, author, director, videographer, performer -- collaboration
with Laura Jorgensen

Petaluma, California: Cinnabar Theater (February 2005); Sonoma,

California: Sonoma Theatre (March 2005); Providence, Rhode Island:

Performance International Conference, Brown University/Trinity

Repertory Theatre (April 2005); Dallas, Texas: Undermain Theatre (April
2005)

Sexual Myth-Stories

Fred Curchack, author, director, performer.

Petaluma, California: Cinnabar Theater (June 2005)

The Dot and the Line by Robert Xavier Rodriguez (and other pieces)

Fred Curchack, narrator of world premiere

Concert with Voices of Change

University of Texas at Dallas (May 2005)

Video by Dean Terry

Fred Curchack, actor

Dallas, Texas: Dallas Theater Center, Dallas Video Festival (June 2005)

Measuring Man

Director and co-writer (with performers Daniel Stein and Robert Smythe)

Philadelphia, Pa.: Mum Puppet Theater (November 2005)

David Edmunds, Professor, Historical Studies,

Anne Stark and Chester Watson Professor

B.A., Millikin University, 1961

M.A., Illinois State University, 1966

Ph.D., University of Oklahoma, 1972

Articles in Edited Volumes

A German Chocolate Cake With White Coconut Icing: Ohio and the Native American World

R. David Edmunds

Ohio and the World: Essays Toward A New History of Ohio, edited by Geoffrey Parker and Richard Sisson

Columbus: Ohio State University Press (2005) 22-41

Kathryn C. Evans, Senior Lecturer, Music; Associate Dean for the Arts

B.A., University of California, San Diego, 1974

M.A. (Mathematics), University of California, San Diego, 1976

M.A. (Music), University of California, San Diego, 1978

Invited Performance

Jazz, Sweet Jazz,

Jazz Concert with UTD Chamber Singers,

Special performance for "Governor for a Day Celebration" for Senator Florence Shapiro, Texas State Capital, Austin, TX, (April 10)

Faure's Requiem

Soloist with the UTD Chamber Singers and UTD Chorale, Hoyt Neal, director,

Richardson, TX: UT-Dallas (April 24, 2005)

Twentieth Century Greats

Music for guitar and chamber ensemble, with Enric Madriguera, guitar, Richardson, TX: UT-Dallas (November 11, 2005)

The Sound of Music (Mother Abbess)

Rodgers and Hammerstein

Richardson, TX : Repertory Company Theatre (December 8 - 17, 2005)

John C. Gooch, Interim Director of Rhetoric

B.S., West Texas A&M University, 1994

M.A., Texas Tech University, 1997

Ph.D., Texas Tech University, 2002

Articles in Refereed Journal

The Dynamics and Challenges of Interdisciplinary Collaboration: A Case Study of “Cortical Depth of Bench” in Group Proposal Writing
J.C. Gooch
IEEE Transactions of Professional Communication **48 (2)** (2005) 177-190

Gavin R.G. Hambly, Professor, Historical Studies;
Ignacy & Celina Rockover Professor of History
B.A., University of Cambridge, 1958
M.A., University of Cambridge, 1962
Ph.D., University of Cambridge, 1962

Articles in Edited Volumes

Elizabeth Báthory, Hungarian countess and murderer
Gavin Hambly
Great Lives from History: The Renaissance & Early Modern Era, 1454-1600, edited by Christina J. Moose
Pasadena, CA: Salem Press (2005) 81-84

Stephen Báthory, Prince of Transylvania (r. 1571-1575) and King of Poland (r. 1575-1586)
Gavin Hambly
Great Lives from History: The Renaissance & Early Modern Era, 1454-1600, edited by Christina J. Moose
Pasadena, CA: Salem Press (2005) 910-912

Ottoman Venetian War (1463-1479)
Gavin Hambly
Great Events from History: The Renaissance & Early Modern Era, 1454-1600, edited by Christina J. Moose
Pasadena, CA: Salem Press (2005) 51-53

Castilian War of Succession (1474-1479)
Gavin Hambly
Great Events from History: The Renaissance & Early Modern Era, 1454-1600, edited by Christina J. Moose
Pasadena, CA: Salem Press (2005) 97-99

Fragmentation of the Bahmani Sultanate (c. 1490)
Gavin Hambly
Great Events from History: The Renaissance & Early Modern Era, 1454-1600, edited by Christina J. Moose
Pasadena, CA: Salem Press (2005) 182-184

Battle of Khanua (March 17, 1527)
Gavin Hambly
Great Events from History: The Renaissance & Early Modern Era, 1454-1600, edited by Christina J. Moose
Pasadena, CA: Salem Press (2005) 460-462

Merzifonlu Kara Mustafa Paşa, Ottoman Grand Vizier (1676-1683)
Gavin R.G. Hambly
Great Lives from History: The Seventeenth Century (1601-1700) edited by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 451-454

Bohdan Khmelnytsky, Ukrainian Cossack Hetman (r. 1648-1657)
Gavin R.G. Hambly
Great Lives from History: The Seventeenth Century (1601-1700) edited by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 461-463

Ivan Stepanovich Mazepa, Ukrainian Cossack Hetman (r. 1687-1709)
Gavin R.G. Hambly
Great Lives from History: The Seventeenth Century (1601-1700) edited by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 624-626

Shah Johan, Emperor of India (r.1628-1658)
Gavin R.G. Hambly
Great Lives from History: The Seventeenth Century (1601-1700) edited by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 842-845

Sigismund III Vasa, King of Poland (r. 1587-1632) and King of Sweden (r. 1592-1599)
Gavin R.G. Hambly
Great Lives from History: The Seventeenth Century (1601-1700) edited by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 853-856

Sophia, Russian Regent (r. 1682-1689)
Gavin R.G. Hambly
Great Lives from History: The Seventeenth Century (1601-1700) edited by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 865-867

Vasily Shuisky, Tsar of Russia (r. 1606-1610)
Gavin R.G. Hambly

Great Lives from History: The Seventeenth Century (1601-1700) edited by
Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 943-945

Treaty of Zsitvatorok (November 11, 1606)
Gavin R.G. Hambly
Great Events from History: The Seventeenth Century (1601-1700) edited
by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 124-126

Janissary Revolt and Osman II's Assassination (May 19, 1622)
Gavin R.G. Hambly
Great Events from History: The Seventeenth Century (1601-1700) edited
by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 261-263

Polish-Russian Wars for the Ukraine (1632-1667)
Gavin R.G. Hambly
Great Events from History: The Seventeenth Century (1601-1700) edited
by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 336-338

Waning of the Devshirme System (1638)
Gavin R.G. Hambly
Great Events from History: The Seventeenth Century (1601-1700) edited
by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 364-366

British East India Company establishes Fort Saint George (1639-1640)
Gavin R.G. Hambly
Great Events from History: The Seventeenth Century (1601-1700) edited
by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 371-373

Ottoman Empire's Brief Recovery (1656-1676)
Gavin R.G. Hambly
Great Events from History: The Seventeenth Century (1601-1700) edited
by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 529-531

Portugal cedes Bombay to the English (June 23, 1663)
Gavin R.G. Hambly
Great Events from History: The Seventeenth Century (1601-1700) edited
by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 583-585

Ottoman-Muscovite Wars (1677-1681)
Gavin R.G. Hambly
Great Events from History: The Seventeenth Century (1601-1700) edited
by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 725-727

Rajput Rebellion (1679-1709)
Gavin R.G. Hambly
Great Events from History: The Seventeenth Century (1601-1700) edited
by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 741-743

Holy League Ends Ottoman Rule of the Danube Basin (1684-1699)
Gavin R.G. Hambly
Great Events from History: The Seventeenth Century (1601-1700) edited
by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 768-770

Köprülü Reforms of Hüseyin Paşa
Gavin R.G. Hambly
Great Events from History: The Seventeenth Century (1601-1700) edited
by Larissa J. Taylor
Pasadena, CA: Salem Press (2005) 841-843

Cynthia Haynes, Associate Professor, Humanities
B.A., University of Texas at Arlington, 1974
M.A., University of Texas at Arlington, 1990
Ph.D., University of Texas at Arlington, 1994

Articles in Refereed Journals- Review

Educated Quests and the Seduction of Play
Cynthia Haynes
*Interpretation, Performance, Play, and Seduction: Textual Adventures in
Tubmud* by Ragnhild Tronstad
University of Oslo, 2004, *Norsk Medietidsskrift* No (March 2005) 271-273

Adrienne L. McLean, Associate Professor, Film Studies
B.A., Southern Methodist University, 1979
M.F.A., Southern Methodist University, 1981
Ph.D., Emory University, 1994

Articles in Edited Volumes

1958: Movies and Allegories of Ambivalence
Adrienne L. McLean
Screen Decades: American Cinema of the 1950s, ed. by Murray
Pomerance
New Brunswick, N.J.: Rutgers University Press (2005) 201-221

Media Effects: Marshall McLuhan, Television Culture, and *The X-Files*
Adrienne L. McLean
Comparative Research on Television Drama between China and America,
ed. by Qu Chunjing and Ying Zhu
Shanghai: Shanghai Publishing Group (2005) (Chinese-language
publication) 171-188

Mary A. Medrick, Senior Lecturer, Music
B.A., University of Texas, Dallas, 1983
M.A., University of Texas, Dallas, 1999

Invited Performances

La Vie Boheme
Mary Medrick, stage director
UTD Theater (2005)

Jazz Concert
Mary Medrick, keyboardist
Paris Nights Ensemble
Dallas Museum of Art (2005)

The Nutcracker
Mary Medrick, keyboardist
Dallas Opera Orchestra (2005)

Greg Metz, Senior Lecturer, Visual Arts
B.F.A., East Texas State University, 1974
M.F.A., Indiana University, 1979

Juried Exhibitions

Wish Exhibition
Greg Metz
Dallas Center for Contemporary Art, Dallas, Tx. (March 2005)

5x7 Exhibition

Greg Metz

The Jones Center 'Arthouse' Austin, Tx. (May 2005)

Contextual

Greg Metz

Coffin Factory, Dallas, Tx. (April 2005)

Scott Barber Benefit Show

Greg Metz

Barry Whistler Gallery, Dallas, Tx. (June 2005)

Dallas Art Fair

Greg Metz

MFA Gallery installation, Southside Kennedy Gallery, Dallas, Tx.
(October 2005)

Texas Sculpture Symposium

Greg Metz

Junction Tx. (November 2005)

Conspiracy Show

Greg Metz

Continental Gallery, Pigeon Stone Projects, Dallas, Tx. (November 2005)

Mihai Nadin, Ashbel Smith Professor, Arts and Technology; Computer Science
M.S., Polytechnic Institute of Bucharest, 1960
M.A., University of Bucharest, 1968
Ph.D., University of Bucharest, 1971
Dr. Phil.Habil., Ludwig Maximilian University of Munich, 1979

Authored Books

EXIT

Mihai Nadin

Providence, RI: Waterfront Books (2005) 353 p.

Articles in Refereed Journals

Where Is Semiotics When You Need It Most?

Mihai Nadin

SemiotiX. A Global Information Bulletin 4 (July 2005)

<http://www.semioticon.com/semiotix/semiotix4/newsletterindex4.htm>

Articles in Edited Volumes

The Timeliness and Futureness of Programs (German and English)

Mihai Nadin

The Futures of the Computer, edited by By Claus Pias

Zurich/Berlin: Diaphanes Verlag (2005) 29-46

Anticipating Extreme Events – the need for faster-than-real-time models

Mihai Nadin

Extreme Events in Nature and Society, Frontiers Collection, edited by S.

Albeverio, V. Jentsch and H. Kantz

New York/Berlin: Springer Verlag (2005) 21-46

Robert Nelsen, Associate Professor, Literary Studies and Aesthetic Studies

B.A., Brigham Young University, 1978

M.A., Brigham Young University, 1979

Ph.D., University of Chicago, 1989

Invited Performances

Convocation, “Why I Wear Black”

Robert S. Nelsen

Richardson, TX: University of Texas at Dallas (August 2004)

Zsuzsanna Ozsváth, Professor, Literary Studies,

Leah and Paul Lewis Chair of Holocaust Studies

Director, Holocaust Center

Final Diploma, Bela Bartok School of Musical Arts, 1955

Concert Diploma, State Academy of Music, Hamburg, 1961

Ph.D., University of Texas at Austin, 1968

Articles in Refereed Journals: Translations in Catalog

“*Without Knocking*”, an exhibit of paintings by Janet Brooks Gerloff
based on the poems of Attila József

Translated by Zsuzsanna Ozsváth and Frederick Turner

Hungarian Embassy, Berlin, (February 25-March 18 2005)

Museum of Fine Arts, Budapest, (April 12-June 12, 2005)

Museum Zinkhütter Hof, Aachen, (September 26-Nov 25, 2005) 5-6, 8-10,
12-14, 16, 20, 22, 42

John Pomara, Associate Professor, Painting
B.F.A., East Texas State University, 1978
M.F.A., East Texas State University, 1980

Invited Exhibitions: Solo

Fifteen-Year Survey

John Pomara

Dallas Center of Contemporary Art, Dallas, Texas. (2005)

Invited Exhibitions

Paint on Metal

John Pomara

Tucson Museum of Art, Tucson, Arizona. (2005)

Adaption Syndrome: Painting in the Contemporary Image Culture

John Pomara

Reynolds Gallery and The Workshop Art Center, Richmond Virginia.
(2005)

20-20 Year Anniversary

John Pomara

Barry Whistler Gallery, Dallas, Texas. (2005)

A Friend In Deed

John Pomara

Barry Whistler Gallery. Dallas, Texas. (2005)

Luck of the Draw

John Pomara

Diverse Works, Houston, Texas. (2005)

Group Exhibition

John Pomara

Eugene Binder Gallery, Marfa, Texas. (2005)

2x2

John Pomara

Howard Rachofsky House. (2005)

5X7

John Pomara

Arthouse Jones Center, Austin, Texas. (2005)

Risk of Urbanisms

John Pomara

University of Texas at Dallas, Richardson, Texas. (2005)

Wish

John Pomara

Dallas Center for Contemporary Art. Dallas, Texas. (2005)

Guitar Shorty #1 and Other Pieces

John Pomara

Iris, Dallas, Texas. (2005)

Stephen G. Rabe, Professor, Historical Studies

B.A., Hamilton College, 1970

M.A., University of Connecticut, 1972

Ph.D., University of Connecticut, 1977

Authored Books

U.S. Intervention in British Guiana: A Cold War Story.

Stephen G. Rabe.

Chapel Hill: University of North Carolina Press (2005.) 240 p.

Timothy Redman, Professor, Literary Studies

B.A., Loyola University (Chicago), 1973

M.A., University of Chicago, 1974

Ph.D., University of Chicago, 1987

Articles in Edited Volumes

[Pound's] Politics

Tim Redman

The Ezra Pound Encyclopedia, edited by Demetres P. Tryphonopoulos
and Stephen J. Adams Westport, CT: Greenwood Press (2005) 233-237

A.R. Orage

Tim Redman

The Ezra Pound Encyclopedia, edited by Demetres P. Tryphonopoulos
and Stephen J. Adams

Westport, CT: Greenwood Press (2005) 208-210

Odon Por

Tim Redman

The Ezra Pound Encyclopedia, edited by Demetres P. Tryphonopoulos
and Stephen J. Adams
Westport, CT: Greenwood Press (2005) 237-238

Venus Opal Reese, Assistant Professor, Scholar/Performing Artist
B.F.A., Adelphi University, 1994
M.F.A., The Ohio State University, 1997
M.A., Stanford University, 2001
Ph.D., Stanford University, 2002

Invited Performance

Medea

Venus Opal Reese (director/adaptor)
World Premiere, University of Texas at Dallas (November 2005)

Ready or Not: Lauryn Hill as Hip-Hop's Mammy

Venus Opal Reese (artist/scholar)
International Colloquium, "Sea Changes: Bodies, practices around the
Atlantic", Universita di Padova, Padova, Italy (October 2005)

Redemption: a Collision of history and memory in four breaths

Venus Opal Reese (staged-reading)
La MaMa Umbria Internatinal, Spoleto, Italy (August 2005)

Living Memory: A Response to August Wilson's Women

Venus Opal Reese (director and collaborator)
National Performance Artist in Residence
Cultural Odyssey, San Francisco, CA (August 2005)

Split Ends

Venus Opal Reese (created, directed, solo performance)
AfroSolo Theatre
San Francisco, CA (August 2005)

West African Dance

Venus Opal Reese (dancer)
Senegalese African Drumming Ensemble, Perugia, Italy (July 2005)

Ready or Not: Lauryn Hill as Hip-Hop's Mammy

Venus Opal Reese (Performative Presentation)
Hip-Hop Scholarship panel, Performance Studies International #11
Brown University, RI (April 2005)

Split Ends

Venus Opal Reese (created, directed, performed solo performance)
Black Arts Café
Rhode Island (April 2005)

Rhodessa Jones' Wilson's Women

Venus Opal Reese (director and collaborator)
University of Texas at Dallas (January 2005)

R. Clay Reynolds, Professor Arts & Humanities Literature and Writing

B.A., University of Texas, Austin, 1971
M.A., Trinity University, 1974
Ph.D., University of Tulsa, 1979

Authored Books – Optioned Screenplay

The Vigil

Clay Reynolds
Steve Schneider Films (2005)

Agatite

Clay Reynolds
Los Angeles, CA: Benjamin Mouton, Mark Mower, & Associates (1996-2006)

Articles in Refereed Journals: Essay

Saving and Savoring Depression-Era Texas Art: *The Texas Post-Office Murals: Art for the People*, by Philip Parisi: An Essay-Review
Clay Reynolds
Texas Books in Review **24.4** (2004-2005) 6-7, 13

Narrative of the Texan Santa Fé Expedition, by George Wilkins Kendall Ed., Gerald D. Saxon and William R. Taylor: An Essay-Review
Clay Reynolds
Southwest American Literature **30.2** (2005) 70-73

Loop Group: A Novel by Larry McMurtry: An Essay-Review
Clay Reynolds
Southwest American Literature **30.2** (2005) 95-98

Slicing Through Mythology: *The Calamity Papers*, by Dale Walker: An Essay-Review
Clay Reynolds

Texas Books in Review **25.1&2** (2005) 12, 24

Articles in Refereed Journals

Pink Tea Poets and Literary Taste
Clay Reynolds
The Desert Candle **2.7** (2005) 8, 19

Texas Post Office Murals, by Philip Parisi
Clay Reynolds
Desert Candle **12.5** (2005) 12, 26

Articles in Edited Volumes

Beer Bread (Burp!)
Clay Reynolds
Vittles Champagne, edited by Jackie Pelham
Conroe: Stone River Press (2005) 42-45

Black-Eyed Peas
Clay Reynolds
Vittles Champagne, edited by Jackie Pelham
Conroe: Stone River Press (2005) 111-113

Grits
Clay Reynolds
Vittles Champagne, edited by Jackie Pelham
Conroe: Stone River Press (2005) 118

Chicken-Fried Steak and Cream Gravy
Clay Reynolds
Vittles Champagne, edited by Jackie Pelham
Conroe: Stone River Press (2005) 127-130

Never-Fail Turkey
Clay Reynolds
Vittles Champagne, edited by Jackie Pelham
Conroe: Stone River Press (2005) 157-159

Never-Fail Fudge With Whiskey
Clay Reynolds
Vittles Champagne, edited by Jackie Pelham
Conroe: Stone River Press (2005) 229

Invited Performances

From Fact and Fiction to Film

Clay Reynolds

Women Writing the West National Convention, (2005)

Approaching the Publishers

Clay Reynolds

Careers in the Arts Conference, (2005)

New and Old Favorites: A Selection of Readings

Clay Reynolds

Montgomery College, (2005)

The Fate of the Western Novel

Clay Reynolds

Western Writers' Forum (2005)

Thomas Riccio, Professor, Theatre

B.A., Cleveland State Univ., 1978

M.F.A., Boston Univ., 1982

Invited Performance: Stage Direction

Fernando Krapp Wrote Me a Letter

Tankred Dorst

UTD Story Lab (September 2005)

Dada DMA

Thomas Riccio (producer, director, performer)

Dallas Museum of Art (October-November 2005)

Sprung

Thomas Riccio (producer)

UTD (March 2005)

Robert Xavier Rodríguez, Professor, Art and Performance,

Chair in Arts and Humanities

B.Mus., University of Texas at Austin, 1967

M.Mus., University of Texas at Austin, 1969

D.M.A., University of Southern California, 1975

Invited Performances: Conductor

The Song of Songs

Robert Xavier Rodríguez (composer and conductor)
Bowdoin, Maine: Bowdoin International Music Festival (July 2005)
(also taught master classes in composition at the Festival)

A Gathering of Angels

Robert Xavier Rodríguez (composer and conductor)
Dallas, Texas: Greater Dallas Youth Orchestra (October 2005)

Invited Performances: Recordings

Tango - Paul Sperry, tenor; members of the San Diego Symphony

Robert Xavier Rodríguez (composer and conductor)
Albany, NY: Albany Records (March 2005)

Invited Performances: Composer

Monkey See, Monkey Do

Robert Xavier Rodríguez (composer)
Denver, Colorado: Opera Colorado – multiple touring performances
(January 2005)

Monkey See, Monkey Do

Robert Xavier Rodríguez (composer)
Grand Rapids, Michigan: Second Act Opera Company (March 2005)

Tango

Robert Xavier Rodríguez (composer)
London, England: Lontano Ensemble (April 2005)

Tango

Robert Xavier Rodríguez (composer)
Provo, Utah: Utah State University (May 12, 2005)

Tango

Robert Xavier Rodríguez (composer)
Madison, Wisconsin: University of Wisconsin (October 2005)

Hot Buttered Rumba

Robert Xavier Rodríguez (composer)
Little Rock, Arkansas: Arkansas Symphony (May 2005)

Il Lamento di Tristano

Robert Xavier Rodríguez (composer)
East Lansing, Michigan: Michigan State University (March 2005)

The Dot and the Line – World Premiere
Robert Xavier Rodríguez (composer)
Dallas, Texas: Voices of Change – UTD (May 2005)

W. Jackson Rushing III, Professor, Aesthetic Studies

B.A., University of Texas at Austin, 1982

M.A., University of Texas at Austin, 1984

Ph.D., University of Texas at Austin, 1989

Articles in Refereed Journals

In Our Language: The Emergence of Edgar Heap of Birds
W. Jackson Rushing III
Third Text **19** (July 2005) 365-384

Articles in Edited Volumes

What the Ground Says: The Art of James Lavadour
W. Jackson Rushing III
Into the Fray: The Eiteljorg Fellowship in Fine Arts, Vol. **4**, edited by
James Nottage
Seattle: University of Washington Press (2005) 71-81

Monica M. Saba, Senior Lecturer, Dance

A.A., Brookhaven College, 1979

B.F.A., Southern Methodist University, 1982

Invited Performance: Director

Sprung 05 Featuring Lawrence Goldhuber
Monica Saba
The University of Texas at Dallas (March 2005)

Brookhaven College Dancers' Theatre Spring Dance Concert
Monica Saba, Artistic Director
Farmers Branch, Texas: Brookhaven College (April 2005)

Invited Performance

Cinderella

Monica Saba
Frisco, Texas: Collin County Ballet Theatre (April 2005)

Julius Caesar Superstar

Monica Saba
New York, New York: Danspace Project at St. Mark's Church (May 2005)

Excerpt from Julius Caesar Superstar/Dancers' Responding to Aids Benefit Performance

Monica Saba
New York, New York: Bryant Park (August 2005)

Invited Performance: Choreographer

Medea

Monica Saba
The University of Texas at Dallas (November 2005)

Brookhaven College Dancers' Theatre Fall Dance Concert

Monica Saba, Artistic Director and choreographer
Addison, Texas: Water Tower Theatre (November 2005)

Rainer Schulte, Professor, Literary Studies, Aesthetic Studies;
Katherine R. Cecil Professor for Foreign Languages;
Director, Center for Translation Studies
M.A., University of Mainz, 1962
Ph.D., University of Michigan, 1965

Authored Books

Ora e pages, collection of poems translated into Albanian by
Gjekë Marinaj
Rainer Schulte
Marina Publishing, Dallas, TX. (2005)

Edited Books: Journals

Translation Review

Rainer Schulte
Richardson, TX: The University of Texas at Dallas, vol. **68** and
69, (Spring 2005) and (Winter 2005)

Articles in Refereed Journals

The Dynamics of Scholarly and Essayistic Writing
Rainer Schulte
Literature Interpretation Theory, **16** (2005) 389-395

Deborah A. Stott, Associate Professor, Art History
B.A., Wellesley College, 1964
M.A., Columbia University, 1966
Ph.D., Columbia University, 1975

Articles in Edited Volumes

'I am the same Cornelia I have always been': Reading Cornelia
Collonello's Letters to Michelangelo
Deborah Stott
Women's Letters Across Europe, 1400-1700: Form and Persuasion.
Edited by Jane Couchman and Ann Crabb
Aldershot and Brookfield, VT: Ashgate Publishing (2005) 79-102

Dean Terry, Assistant Professor, Arts and Technology
B.A., University of North Texas, 1989
M.F.A., Claremont Graduate University, 1991

Invited Exhibitions

Subdivided (documentary film and internet project)
Dean Terry
The Dallas Museum of Art, Dallas, TX (August 4, 2005)

Moving Pictures (digital video art show)
Dean Terry
The Dallas Center for Contemporary Art, Dallas, TX (November-
December 2005)

Subrealities (Internet Art Show)
Dean Terry, Curator
UTD Art Gallery (March 2005)

Theresa M. Towner, Professor of Literary Studies
B.A., University of Kansas, 1980
M.A., University of Exeter, England, 1981
Ph.D., University of Virginia, 1990

Articles in Refereed Journals

Beyond the Old Marshal: "Patriotic Nonsense," The Vernacular
Cosmopolitan, and Faulkner's Fiction of the Early 1940s
Theresa M. Towner
The Faulkner Journal **21.1&2** (Fall 2005/Spring 2006) 91-106

Frederick Turner, Professor, Literary Studies;
Founders Professor, School of Arts and Humanities
B.A., Oxford University, 1965
M.A., Oxford University, 1967
B.Litt., Oxford University, 1967

Articles in Refereed Journals

The Double Citizen: Religious and Secular (target essay, with 7 responses)
Frederick Turner
Society, **42 (4)** (May/June 2005) 14-16

Attila József among his Peers: a Personal Assessment
Frederick Turner
The Hungarian Quarterly, **XLVI (178)** (Summer 2005) 59-65

Articles in Refereed Journals: Translations in Catalog

"Without Knocking", an exhibit of paintings by Janet Brooks Gerloff
based on the poems of Attila József
Translated by Zsuzsanna Ozsváth and Frederick Turner
Hungarian Embassy, Berlin, (February 25-March 18 2005)
Museum of Fine Arts, Budapest, (April 12-June 12, 2005)
Museum Zinkhütter Hof, Aachen, (September 26-Nov 25, 2005) 5-6, 8-10,
12-14, 16, 20, 22, 42

Invited Performance

The Prayers of Dallas
Frederick Turner
Adapted for stage performance by Frederick Turner and Scott Peck
One-man show, University of Texas at Dallas, (November 2, 2005)

The Prayers of Dallas
Frederick Turner
Adapted for stage performance by Frederick Turner and Scott Peck

One-man show, Thanksgiving Square, Dallas, (November 21, 2005)

Marilyn Waligore, Associate Professor, Photography
A.B., University of California, Berkeley, 1981
M.F.A., University of Wisconsin-Madison, 1985

Juried Exhibitions

5th Annual Digital Art & Computer Animation Competition
Marilyn Waligore
Youngstown, Ohio: Beecher Center for Art and Technology at the Butler
Institute of Art, Youngstown, Ohio (2005)

Art Gallery, Siggraph 2005
Marilyn Waligore: Los Angeles Convention Center, Los Angeles, CA
(included in Travelling Art Show) (2005)

Intimate Floral
Marilyn Waligore: Center for Fine Art Photography, Fort Collins,
Colorado
(2005)

4th Photography Image Biennial Exhibition, East Carolina University,
Wellington B. Gray Gallery, School of Art and Design, East Carolina
University, Greenville, North Carolina, Juror Maggie Taylor (2005)

Invited Exhibitions

Domestic Sight
Marilyn Waligore
Lubbock, Texas: Texas Tech University, Folio Gallery,
invited solo exhibition (2005)

La Calavera
Marilyn Waligore
Dallas, Texas: Ice House Cultural Center (2005)

Silent Dialogues
Marilyn Waligore
Dallas, Texas, Bath House Cultural Center (2005)

Rescued Moments
Marilyn Waligore
Dallas, Texas: Ice House Cultural Center (2005)

Silent Dialogues
Marilyn Waligore
Plano, Texas, 14th Street Gallery (2005)

Daniel Wickberg, Associate Professor, Historical Studies
B.A., Reed College, 1982
M.A., University of California, Los Angeles, 1985
Ph.D., Yale University, 1993

Articles in Refereed Journals

Heterosexual White Male: Some Recent Inversions in American Cultural
History
Daniel Wickberg
Journal of American History **92** (2005) 136-157

Grants Awarded and Continued: Principal Investigator

Sympathy as a Keyword in American Culture, 1750-1950
Daniel Wickberg
National Endowment for the Humanities, \$40,000, (August 1, 2005 –June
2006)

Betty H. Wiesepepe, Senior Lecturer, Literature
B.S., Sam Houston State University, 1962
M.A., University of Texas, Dallas, 1991
Ph.D., University of Texas, Dallas, 1998

Articles in Edited Volumes

Gold Stars and Silver Wings
Betty Holland Wiesepepe
Writing on the Wind: An Anthology of West Texas Women Writers
edited by Lou Halsell Rodenberter, Laura Payne Butler, and Jacqueline
Kolosov
Lubbock, TX: Texas Tech University Press (2005) 179-189

Setting the Record Straight on ‘Mr. TIL
Betty Holland Wiesepepe
Books--The Dallas Morning News
Book edited by Charles Ealy
Dallas: Belo (August 7, 2005) 9G

Invited Performance

Let's Hear It for the Red Shoes

Betty Wiesepepe

Dallas, TX: Dallas Museum of Art, Arts & Letters Live, Texas Bound
(April 2005)

Let's Hear It for the Red Shoes

Betty Wiesepepe

Austin, TX: Majestic Theater, Texas Book Festival and Arts & Letters
Live (Oct. 2005)

SCHOOL OF BEHAVIORAL AND BRAIN SCIENCES

Bert S. Moore, Professor of Psychology and Dean

Hervé Abdi, Professor, Psychology
M.P., University of Besançon, 1975
D.E.A., University of Clermont, 1976
D.E.A., University of Strasbourg, 1977
Ph.D., University of Aix-en-Provence, 1980

Articles in Refereed Journals

Partially distributed representations of objects and faces in ventral temporal cortex

A.J. O'Toole, F. Jiang, H. Abdi and J.V. Haxby
Journal of Cognitive Neuroscience **17** (4) (2005) 580-590

A video database of moving faces and people

A.J. O'Toole, J. Harms, S.L. Snow, D.R. Hurst, M.R. Pappas and H. Abdi
IEEE Transactions on Pattern Analysis and Machine Vision **27** (5) (2005) 1-5

The effect of motion information on infants' recognition of unfamiliar faces

Y. Otsuka, S. Kanazawa, M.K. Yamaguchi, A.J. O'Toole and H. Abdi
Japanese Journal of Psychonomic Science **24** (1) (2005) 125-126

Semantic, typicality and odor representation: A cross-cultural study

C. Chrea, D. Valentin, C. Sulmont-Rossé, D. Nguyen-Hoan and H. Abdi
Chemical Senses **30** (2005) 37-49

Do trained assessors generalize their knowledge to new stimuli?

S. Chollet, D. Valentin and H. Abdi
Food Quality and Preference **16** (2005) 13-21

Culture and odor categorization: Agreement between cultures depends upon the odors

C. Chrea, D. Valentin, C. Sulmont-Rossé, H. Ly Mai, D. Hoang Nguyen and H. Abdi
Food Quality and Preference **15** (2005) 669-679

Development of a fast panoramic face mosaicing and recognition system

F. Yang, M. Paindavoine, H. Abdi and A. Monopoly

Optical Engineering **44 087005** (2005) 1-10

Articles in Conference Proceedings

Panoramic face mosaicing and recognition using multi-cameras

F. Yang, M. Paindavoine and H. Abdi

Proceedings of the IEEE Computer Society: The International Conference on Signal-Technology and Internet-Based systems (SITIS '05)

Yaoundé Cameroon (2005)

Fast panoramic face mosaicing and recognition

F. Yang, M. Paindavoine and H. Abdi

Proceedings of the 4th International Symposium on Image and Signal

Processing and Analysis (ISPA 2005) Zagreb, Croatia (September 2005)

197-202

Grants Awarded and Continued: Principal Investigator

Gulf war syndrome subcontract

H. Abdi

UTSW \$110,000 (01/01/2003–05/01/2005)

Analyzing patterns of incorrect TAKS responses

H. Abdi.

The O'Donnell Foundation \$10,000 (2004)

Peter F. Assmann, Professor, Psychology

B.A., University of Waterloo, 1976

M.S., University of Alberta, 1979

Ph.D., University of Alberta, 1985

Articles in Refereed Journals

Synthesis fidelity and vowel identification

P.F. Assmann and W.F. Katz

Journal of the Acoustical Society of America **117 (2)** (2005) 886-895

Articles in Edited Volume

The perception of speech under adverse conditions: contributions of spectro-temporal peaks, periodicity, and inter-aural timing to perceptual robustness

A.Q. Summerfield, J. Culling and P.F. Assmann

Listening to Speech: An Auditory Perspective, edited by Steven Greenberg

and William Ainsworth
Publisher: Lawrence Erlbaum Associates, Inc. (2005)

Articles in Conference Proceedings

Relationship between fundamental and formant frequencies in speech perception
P.F. Assmann and T.M. Nearey
Invited talk for the special session: "Size information in speech and animal calls", *149th Meeting of the Acoustical Society of America*, Vancouver (May 16-20, 2005) *Journal of Acoustical Society of America* **117** (2005) 2374(a)

Grants Awarded and Continued: Principal Investigator

Perception of frequency-shifted speech
Peter F Assmann
National Science Foundation Grant \$223,418 (08/01/03 to 07/30/06)

Speech recordings database
Peter F Assmann
Brain and Behavioral Sciences Faculty Research Initiative \$2,000 (09/01/05-08/01/06)

Marco Atzori, Assistant Professor, Neuroscience
M.S., University of Trieste, 1993
Ph.D., University of Trieste, 1995

Articles in Refereed Journals

Dopamine prevents muscarinic-induced decrease of glutamate release in the auditory cortex
M. Atzori, P.O. Kanold, J.C. Pineda, J. Flores-Hernandez and R.D. Paz
Neuroscience **134** (4) (2005) 1153-65

Grants Awarded and Continued: Principal Investigator

Acetylcholine and dopamine modulation in auditory cortex
Marco Atzori
NIH/NIDCD: 5R01DC005986-02 \$295,000 (September 2004 - August 2008)

Young investigator award

Marco Atzori
NARSAD \$30,000 (September 2004 - August 2006)

James C. Bartlett, Professor, Psychology
B.A., University of Texas at Austin, 1970
Ph.D., Yale University, 1975

Articles in Conference Proceedings

Facial Conjunctions may Block Recollection: ERP Evidence
Kalyan Shastri, James C. Bartlett and Hervé Abdi
46th annual meeting of The Psychonomic Society
Toronto, (November 10-13, 2005)

Lawrence J. Cauller, Associate Professor, Neuroscience
B.S., University of Utah, 1980
M.A., Dalhousie University, 1981
Ph.D., Northeastern Ohio Universities College of Medicine, 1988

Grants Awarded and Continued: Principal Investigator

Neuro- μ Transponders: Wireless Neural Control for Artificial Arms and
Hands
Lawrence James Cauller (UTD) and John Randall (Zyvex, Inc.)
DARPA \$8,300,000 overall; \$2,300,000 UTD (2004-2007)

Sandra B. Chapman, Professor, Communication Disorders,
Dee Wyly Distinguished Chair in Brain Health
Director of the Center for BrainHealth
B.A., University of North Texas, 1973
M.A., University of North Texas, 1974
Ph.D., University of Texas at Dallas, 1986

Articles in Refereed Journals

Convergence of Connected Language and SPECT in Variants of
Frontotemporal Lobar Degeneration
S.B.Chapman, F.J. Bonte, S.B.C. Wong, J.N. Zientz, L.S. Hynan,
T.S.Harris, A.R. Gorman, C.A. Roney and A.M. Lipton
Alzheimer's Disease and Associated Disorders Journal **19(4)**
(October/November/December 2005) 202-213

Predictors of Personality Change Due to Traumatic Brain Injury in Children and Adolescents in the First Six Months After Injury
Jeffrey E. Max, Harvey S. Levin, Julie Landis, Russell Schachar, Ann Saunders, Linda Ewing-Cobbs, Sandra B. Chapman and Maureen Dennis
Journal of the American Academy of Child and Adolescent Psychiatry, **44(5)**, (2005) 435-442

Predictors of attention-deficit/hyperactivity disorder within 6 months after pediatric traumatic brain injury
J.E. Max , R.J. Schachar, H.S. Levin, L. Ewing-Cobbs, S.B. Chapman, M. Dennis, A. Saunders and J. Landis
Journal of the American Academy of Child and Adolescent Psychiatry **44** (2005)1032-1040

Predictors of attention-deficit/hyperactivity disorder in children and adolescents 6 to 24 months after traumatic brain injury
J.E. Max , R.J. Schachar, H.S. Levin, L. Ewing-Cobbs, S.B. Chapman, M. Dennis, A. Saunders and J. Landis
Journal of Neuropsychiatry and Clinical Neurosciences **44** (2005) 1041-1049

Mild cognitive impairment. A clinical perspective
R. Anand, S.B. Chapman, J. Zientz and K. Toussaint
Perspectives on Gerontology, **10** (2005)10-14

Articles Conference Proceedings

Deconstructing Discourse: A PET Study of Narrative Production
W.A. Postman, A. Braun, J. Solomon, J. Maisog, S.B. Chapman, S. Tuttle, M.R. Christiana and L. Milosky
Abstract. *19th Annual CUNY Conference on Human Sentence Processing* (2005)

Self-regulation abilities in children with severe traumatic brain injury: a naturalistic approach
L. G. Cook and S.B. Chapman
Cognitive Neuroscience Society, **12**, 221 (2005) Poster presentation at the *Cognitive Neuroscience Society's Annual Meeting* in New York, NY (2005)

The role of incentive and inhibition in development of efficacious selective learning
J.F. Gamino and S.B. Chapman
Cognitive Neuroscience Society, **12** (2005) 60-61
Poster presentation at the *Cognitive Neuroscience Society's Annual*

Meeting in New York, NY (2005)

Text processing in normal cognitive aging: The ability to shift interpretation of homograph meaning

G. Sparks and S.B. Chapman

Cognitive Neuroscience Society, **12** (2005)122

Poster presentation at the *Cognitive Neuroscience Society's Annual Meeting* in New York, NY (2005)

Dissolution of discourse gist in early stages of Alzheimer's disease

R. Anand, L. Cook and S.B. Chapman

Journal of the International Neuropsychological Society, **11 (Suppl.1)**, (2005).94

Poster presentation at the *International Neuropsychological Society's Annual Meeting* in St. Louis, MO (2005)

Self-regulation and planning in children with severe traumatic brain injury: a novel naturalistic approach

L.G. Cook and S.B. Chapman

Journal of the International Neuropsychological Society, **11(Suppl. 1)**

(2005) 185 Poster presentation at the *International Neuropsychological Society's Annual Meeting* in St. Louis, MO (2005)

Grants Awarded and Continued: Principal Investigator

Discourse and Brain Plasticity After Pediatric Brain Injury

S.B. Chapman

Crystal Charity Ball \$550,000 (2002-2007)

Texas BrainHealth Initiative

S.B. Chapman

Stemmons Foundation \$75,000 (2001-2005)

Brain Mapping During Brain Recovery

S.B. Chapman

Dee and Charles Wyly Fund \$500,000 (2002-2007)

Cognitive Communication Recovery After Brain Injury

S.B. Chapman

Derek Bruce Research Fund \$100,000 (2002-2005)

Neurobehavioral Outcome of Head Injury in Children;

Dr. Sandra Bond Chapman

National Institutes of Health; \$1,107,624 (7/1/04 – 6/30/09)

Genes, Emotions and Images, Frontotemporal Dementia
Dr. Sandra Chapman
National Institute of Aging; \$25,000 (4/2002 – 3/2007)

Brain Hope for South Dallas
Dr. Sandra Bond Chapman
Kappa Kappa Gamma \$15,000

Lattner Healthy Brain Initiatives in Young Adults
Dr. Sandra Bond Chapman
Forrest C. Lattner Foundation \$1,000,000

Collaborative BrainHealth Project in Kids
Dr. Sandra Bond Chapman
The Moody Foundation \$12,000

Healthy Brain Initiatives in Young Adults
Dr. Sandra Bond Chapman
Wacker Family \$400,000

Kidney-Brain Connect
Dr. Sandra Bond Chapman
KidneyTexas \$60,000

Brain Repair in Children
Dr. Sandra Bond Chapman
Sanders Family \$60,000

Berman Laboratory for Knowledge, Learning and Memory
Dr. Sandra Bond Chapman
Berman Research Initiatives
Berman Lecture Series
Berman Family \$1,000,000

Collaborative Research with UTSW – Brain Plasticity and Brain Rewiring
After Treatment
Dr. Sandra Bond Chapman
Eugene McDermott Foundation \$250,000

Collaborative Research with Shelton School
Dr. Sandra Bond Chapman
Gerald Stool Family \$200,000

Alzheimer's Disease Research Study
Dr. Sandra Bond Chapman

Gerald Stool Family \$250,000

Collaborative Research with Shelton School
Dr. Sandra Bond Chapman
Research for children with ADHD
Sparrow Foundation \$250,000

W. Jay Dowling, Professor, Psychology
A.B., Northwestern University, 1963
A.M., Harvard University, 1966
Ph.D., Harvard University, 1968

Articles in Edited Volumes

Entwicklung der musikalischen Kognition: Melodie, Klangfarbe und Harmonie
W. Jay Dowling
Musikpsychologie: Band 2. edited by R. Oerter and T. H. Stoffer
Munich: Hogrefe (2005) ch. 57-88

Articles in Conference Proceedings

Effects of Tempo on Rhythmicity of Auditory Attention
W. Jay Dowling & Barbara Tillmann
Abstracts of the Psychonomic Society **10**
Toronto (November 2005)

Betty-Gene Edelman, Senior Lecturer, Psychology
B.A., Montclair State College, 1964
M.S., TheUniversity of Texas at Dallas, 1992
Ph.D., TheUniversity of Texas at Dallas, 1999

Article in Conference Proceedings

DISTATIS: The Analysis of Multiple Distance Matrices
H. Abdi, D. Valentin, A.J. O'Toole and B. Edelman
Proceedings of the IEEE Computer Society: International Conference on Computer Vision and Pattern Recognition
San Diego, CA (2005) 42-47

Richard M. Golden, Professor, Psychology and Cognitive Science
Program Head, Cognitive Science and Applied Cognition and Neuroscience;

participating Faculty in Electrical Engineering
B.S.E.E., University of California at San Diego, 1982
M.S.E.E., Brown University, 1986
Ph.D., Brown University, 1987

Articles in Conference Proceedings

Quantitative training in psychology is deteriorating: Traditional methodologists, mathematical psychologists, and psychology face a challenge

J.T. Townsend, R.M. Golden and T. Wallsten

Psychological Science Agenda **19 (9)** (October 2005) *American Psychological Association Online*

Grants Awarded and Continued: Principal Investigator

Development and evaluation of an automatized comprehension assessment tool

R. M. Golden

National Science Foundation \$393,793 (10-15-2001-10-15-2005)

Shayla Holub, Assistant Professor, Psychological Sciences

B.S., Millikin University, 2000

M.A., Bowling Green State University, 2003

Ph.D., Bowling Green State University, 2005

Articles in Refereed Publications

Do Preschool Children Understand What it Means to ‘Diet’, and Do They Do It?

S.C. Holub, D.R. Musher-Eizenman, A.V. Persson, L.A. Edwards-Leeper, S.E. Goldstein and A.B. Miller

International Journal of Eating Disorders **38** (2005) 91-93

Susan Wood Jerger, Ashbel Smith Professor, Human Development and Communication Sciences

B.A., University of Houston, 1961

M.S., Purdue University, 1963

Ph.D., Baylor College of Medicine, 1986

Articles in Refereed Journals

What's in a name? Typicality and relatedness effects in children
S. Jerger and M. Damian
Journal of Experimental Child Psychology, **92** (2005) 46-75

Articles in Edited Volumes

Hearing Loss in Children
S. Jerger, et.al.
Hearing Loss. Determining Eligibility for Social Security Benefits,
Chapter 7 edited by R. Dobie and S. van Hemel
The National Academies Press, Washington, D.C., (2005)

Grants Awarded and Continued: Principal Investigator

Auditory Processing in Hearing-Impaired Children
S. Jerger
National Institutes of Health, NIDCD \$1,783,366 (1997-2008)

William F. Katz, Associate Professor, Communications Disorders
B.A., University of California, Santa Cruz, 1977
M.A., California State University, Long Beach, 1982
M.A., Brown University, 1985
Ph.D., Brown University, 1987

Articles in Refereed Journals

Synthesis fidelity and time-varying spectral change in vowels
P. Assmann and W. Katz
Journal of the Acoustical Society of America **117** (2005) 886-895

Grants Awarded and Continued: Principal Investigator

Combined biofeedback approaches for the treatment of apraxia of speech
following stroke
William F. Katz
Excellence in Education Grant (#19-02) \$1,500 (9/1/04- 8/31/05)

Functional magnetic resonance imaging before and after apraxia therapy
William F. Katz
UTD/BBS Faculty research initiative (#19-02) \$2,000 (9/1/05- 8/31/06)

Michael P. Kilgard, Associate Professor, Neuroscience
B.A., University of California, Berkeley, 1993

Ph.D., University of California, San Francisco, 1998

Articles in Refereed Journals

Cortical Map Reorganization Without Cholinergic Modulation

M.P. Kilgard

Neuron **48** (2005) 529-530

Environmental Enrichment Increases Paired Pulse Depression in Rat Auditory Cortex

C.R. Percaccio, N.D. Engineer, A.L. Pruette, P.K. Pandya, R. Moucha,

D.L. Rathbun and M.P. Kilgard

Journal of Neurophysiology **94** (2005) 3590-3600

Asynchronous Inputs Alter Excitability, Spike Timing and Topography in Primary Auditory Cortex

P.K. Pandya, R. Moucha, N.D. Engineer, D.L. Rathbun, J. Vazquez and

M.P. Kilgard

Hearing Research **203** (2005) 10-20

Background Sounds Contribute to Spectrotemporal Plasticity in Primary Auditory Cortex

R. Moucha, P.K. Pandya, N.D. Engineer, D.L. Rathbun and M.P. Kilgard

Experimental Brain Research **162** (2005) 417-427

Grants Awarded and Continued: Principal Investigator

Cortical Plasticity and Processing of Speech Sounds

M.P. Kilgard

NIDCD, \$146,000 (2003-2006)

Brain Plasticity and Neuro-Rehabilitation

M.P. Kilgard

James S. McDonnell Foundation \$446,000 (2003-2008)

Stephen G. Lomber, Associate Professor, Neuroscience

B.S., University of Rochester, 1988

Ph.D., Boston University School of Medicine, 1994

Articles in Refereed Journals

Impact of repetitive transcranial magnetic stimulation of the parietal cortex on metabolic brain activity: a ^{14}C -2DG tracing study in the cat

A. Valero-Cabré, B.R. Payne, R.J. Rushmore, S.G. Lomber and

A. Pascual-Leone
Experimental Brain Research **163**(2005) 1-12

Functional impact of primary visual cortex deactivation on subcortical target structures in the thalamus and midbrain
R.J. Rushmore, B.R. Payne and S.G. Lomber
Journal of Comparative Neurology **288** (2005) 414-426

Grants Awarded and Continued: Principal Investigator

Cerebral Organization Following Cochlear Implant
Stephen G. Lomber
NIH, National Institute of Deafness and Other Communication Disorders
\$224,250 (2003-2006)

Development of fMRI Compatible Reversible Deactivation
Stephen G. Lomber
NIH, National Institute of Neurological Disorders and Stroke
\$411,125 (July 2004-June 2006)

Cerebral Control of Aurally-Mediated Behavior
Stephen G. Lomber
National Science Foundation \$451,179 (September 2004-August 2008)

Mandy J. Maguire, Assistant Professor, Communication Sciences and Disorders
B.A., Pennsylvania State University, 1998
Ph.D., Temple Univ., 2003

Articles in Refereed Journals

Linking brainwaves to the brain: An ERP component primer
A. Fonaryova-Key, G. O. Dove and M. J. Maguire
Developmental Neuropsychology 27 (2005) 183-216

Articles in Edited Volumes Books

Event-related evoked potentials (ERPs) in speech perception
D. L. Molfese, A. Fonaryova-Key, M.J. Maguire, G. O. Dove and V. J. Molfese
Handbook of speech perception, edited by D. Pisoni
Oxford: Blackwell Publishers

Articles in Conferences Proceedings

Imageability and grammatical class in noun and verb learning: An ERP study

M.J. Maguire and G.O. Dove

Society for Research in Child Development (April, 2005) Atlanta, GA

Facilitating verb learning: A window onto what makes verb learning difficult

K. Hirsh-Pasek, M.J. Maguire and R.M. Golinkoff

Society for Research in Child Development (April, 2005) Atlanta, GA

The neurological correlates of grammatical class and imageability development

M.J. Maguire and G.O. Dove

Cognitive Development Society (October, 2005) San Diego, CA

Candice M. Mills, Assistant Professor, Psychology

B.S., University of Florida, 1999

M.Phil., Yale University, 2003

Ph.D., Yale University, 2005

Articles in Refereed Journals

The Development of Cynicism

C. M. Mills and F. C. Keil

Psychological Science **16** (2005) 1-32

Grants Awarded and Continued: Principal Investigator

Faculty Research Initiative

Candice M. Mills

The University of Texas at Dallas, \$2000 (2005-2006)

Aage Møller, Professor, Human Development and Communication Sciences; Margaret Fonde Jonsson Professor

Ph.D., D.Med.Sci., Karolinska Inst., 1975

Authored Books

Intraoperative Neurophysiologic Monitoring, 2nd Edition

Aage R. Møller

Humana Press (Published October 2005) 356p

Edited Books

Special Issue, Hearing Research **206**

Aage R. Møller, Guest Editor

Based on presentations at The Third Symposium on Molecular Mechanisms in Central Auditory Function, Plasticity and Disorders (2005)
241p

Articles in Refereed Journals

Are the non-classical pathways involved in autism and PDD?

Aage R. Møller, Janet Kern and Bruce Grannemann

Neurological Research **27** (2005)

Is there a place for microvascular decompression of the cochlear-vestibular nerves?

Aage R. Møller

Acta Neurochirurgica **147** (9) (2005 September) 921-923

Transcranial Magnetic Stimulation for Tinnitus: Influence of Tinnitus Duration on Stimulation Parameter Choice and Maximal Tinnitus Suppression

Dirk De Ridder, Edwin Verstraeten, Karolien Van der Kelen, Gert De Mulder, Stefan Sunaert, Jan Verlooy, P. Van de Heyning and Aage Møller

Otol Neurotol. **26**(4) (2005 July) 616-619

Frequency specific hearing improvement in microvascular decompression of the cochlear nerve

Dirk De Ridder, Hiroshi Ryu, Gert De Mulder, Paul Van de Heyning, Jan Verlooy and Aage Møller

Acta Neurochir (Wien). **147**(5) (2005 May) 495-501

Articles in Edited Volumes

Physiology of the ear and the auditory nervous system

Aage R. Møller

Textbook of Neurotology, Second edition, edited by R.K. Jackler and D. Brackmann,

Mosby (Elsevier), Philadelphia, (2005) 52-74

Tinnitus

Aage R. Møller

Textbook of Neurotology, Second edition, edited by R.K. Jackler and D. Brackmann

Mosby (Elsevier), Philadelphia, (2005) 182-193

Articles in Conference Proceedings

Surgically implanted electrodes of the primary and secondary auditory cortex as a treatment for tinnitus, Dirk De Ridder

Gert De Mulder, Gert Edwin Verstraeten, Peggy Lambrechts, Stefan Sunaert, Silvia Kovacs, Marion Smits, Jan Verlooy, Paul Van De Heyning and Aage Møller

VIIIth International Tinnitus Seminar, Paris (September 2005)

Microvascular compressions and 4 types of tinnitus

Hiroshi, Ryu, Jan Verlooy, Vicky Nowé, Paul Parizel, Paul van de Heyning, Margareta Møller, Aage Møller Dirk de Ridder and Gert de Mulder

VIIIth International Tinnitus Seminar, Paris (September 2005)

Somatosensory modulation of the extralemniscal system in tinnitus: a potential target for tinnitus treatment?

Dirk De Ridder, Aage Møller, Gert De Mulder, Stefan Sunaert, Silvia Kovacs and Paul Van De Heyning

VIIIth International Tinnitus Seminar, Paris (September 2005)

Deafferentation Tinnitus: A Pathophysiological Model,

Gert De Mulder, Edwin Verstraeten, An Boudewyns, Stefan Sunaert, Silvia Kovacs, Marion Smits, Jan Verlooy, Paul Van De Heyning, Aage Møller and Dirk De Ridder

VIIIth International Tinnitus Seminar, Paris (September 2005)

Transcranial Magnetic Stimulation In Unilateral Tinnitus And Hyperacusis

Edwin Verstraeten, Gert De Mulder, Karolien Van Der Kelen, Paul Van De Heyning, Aage Møller and Dirk De Ridder

VIIIth International Tinnitus Seminar, Paris (September 2005)

BAEP and the Pathophysiology of Tinnitus in Microvascular Compressions Of The Vestibulocochlear Nerve

Dirk De Ridder, Benno Haarman, Karin Heijneman, Paul Van De Heyning, Margareta Møller and Aage Møller

VIIIth International Tinnitus Seminar, Paris (September 2005)

Stress –and noise – induced plasticity of hippocampal place fields in a fixed environment

Timothy J. Goble, John R. Frank, George E. Farmer, Aage R. Møller and L. T. Thompson

Abstract Meeting of the Society for Neuroscience, Washington DC: **32** (November 12, 2005) 34

M. Teresa Nezworski, Associate Professor, Psychology
B.A., Washington University, 1977
Ph.D., University of Minnesota, 1983

Articles in Refereed Journals

The Roots of the Rorschach Controversy
H.N. Garb, J.M. Wood, S.O. Lilienfeld, and M. T. Nezworski
Clinical Psychology Review **25** (2005) 97-118

Grants Awarded and Continued: Principal Investigator

Promoting Collaborative Research in the Early Identification of Autistic
Spectrum Disorder
M. T. Nezworski
UTD/BBS Faculty Research Initiative, \$2,000 (2005-06)

Alice J. O'Toole, Professor of Psychology
B.A., Catholic University of America, 1983
M.S., Brown University, 1985
Ph.D., Brown University, 1988

Articles in Refereed Journals

Partially distributed representations of objects and faces in ventral
temporal cortex
A.J. O'Toole, F. Jiang, H. Abdi and J.V. Haxby
Journal of Cognitive Neuroscience **17** (4) (2005) 580-590

A video database of moving faces and people
A.J. O'Toole, J. Harms, S.L. Snow, D.R. Hurst, M.R. Pappas and H. Abdi
IEEE Transactions on Pattern Analysis and Machine Vision **27** (5) (2005)
1-5

The effect of motion information on infants' recognition of unfamiliar
faces
Y. Otsuka, S. Kanazawa, M.K. Yamaguchi, A.J. O'Toole, and H. Abdi
Japanese Journal of Psychonomic Science **24** (1) (2005) 125-126

Articles in Conference Proceedings

DISTATIS: The analysis of multiple distance matrices.

H. Abdi, D. Valentin, A.J. O'Toole and B. Edelman
*Proceedings of the IEEE Computer Society: International Conference on
Computer Vision and Pattern Recognition* (San Diego, CA, USA) (2005)
42-47

Three-dimensional shape and surface reflectance contributions to
opponent-based face identity adaptation.
A.J. O'Toole, F. Jiang and V. Blanz
5th Annual Meeting of the Vision Science Society, Sarasota, FL, (May
2005)

The effect of motion information on infants' recognition of unfamiliar
faces
Y. Otsuka, S. Kanazawa, M.K. Yamaguchi, A.J. O'Toole and H. Abdi
5th Annual Meeting of the Vision Science Society, Sarasota, FL, (May
2005)

DISTATIS: The analysis of multiple distance matrices.
H. Abdi, D. Valentin, A.J. O'Toole and B. Edelman
*Proceedings of the IEEE Computer Society: International Conference on
Computer Vision and Pattern Recognition* (San Diego, CA, USA) (2005)
42-47

Grants Awarded and Continued: Principal Investigator

Evaluating face and person recognition algorithms with Human
Benchmarks
A.J. O'Toole and H. Abdi
Technical Support Working Group \$225,000 (2004-2006)

Analyzing patterns of incorrect TAKS responses
H. Abdi
The O'Donnell Foundation \$10,000 (2005)

Margaret Tresch Owen, Associate Professor, Psychology
B.A., Oberlin College, 1974
M.A., University of Kansas, 1975
Ph.D., University of Michigan, 1981

Edited Books

*Child Care and Child Development: Results from the NICHD Study of
Early Child Care and Youth Development*
Edited by NICHD Early Child Care Research Network

New York: Guilford (2005) 474 p.

Articles in Refereed Journals

Pathways to Reading: The Role of Oral Language in the Transition to Reading

NICHD Early Child Care Research Network
Developmental Psychology **41** (2005) 428-442

Predicting Individual Differences in Attention, Memory, and Planning in First Graders from Experiences at Home, Child Care, and School

NICHD Early Child Care Research Network
Developmental Psychology **41** (2005) 99-114

Duration and Developmental Timing of Poverty and Children's Cognitive and Social Development from Birth through Third Grade

NICHD Early Child Care Research Network
Child Development **76** (2005) 795-810

Early Child Care and Children's Development in the Primary Grades: Follow-up Results from the NICHD Study of Early Child Care

American Educational Research Journal **43** (2005) 537-570

Articles in Edited Volumes

Caregiver-mother Partnership Behavior and the Quality of Caregiver-child and Mother-child Interactions

Margaret Tresch Owen, Anne Ware and Bill Barfoot
Child Care and Child Development: Results from the NICHD Study of Early Child Care and Youth Development, Edited by NICHD Early Child Care Research Network
New York: Guilford (2005)

Grants Awarded and Continued: Principal Investigator

Relationship-Centered Child Care and Children's Development Through the Transition to School

Margaret Tresch Owen
ChildCareGroup \$27,906 (2004-2005)

Relationship-Centered Child Care and the Development of Children in Poverty

Margaret Tresch Owen
Salesmanship Club, \$6,891 (2004-2005)

Ross Joseph Roeser, Professor, Communication Disorders
Wolf Professor

B.S., Western Illinois University, 1966
M.A., Northern Illinois University, 1967
Ph.D., Florida State University, 1972

Grants Awarded and Continued: Principal Investigator

Comprehensive Hearing, Speech-Language & Psychological
Services for Infants, Children and Adults
Ross J. Roeser (with Donise Pearson)
United Way of Metropolitan Dallas \$ 285,000 (2005-2006)

John W. Santrock, Professor, Psychology

B.A., University of Miami, 1965
M.S., University of Miami, 1967
Ph.D., University of Minnesota, 1973

Authored Books

Life-Span Development (10th Ed.)

John W. Santrock
New York: McGraw-Hill. (2006) (Published February, 2005)

Educational Psychology (2nd Ed., Updated Revision)

John W. Santrock
New York: McGraw-Hill (2006) (Published January, 2005)

Your Guide to College Success (4th Ed.)

John W. Santrock and Jane Halonen
Belmont, CA: Wadsworth (2006) (Published January, 2005)

Psychology: Essentials.

John W. Santrock
Mexico City: McGraw-Hill Spanish

Anu Sharma, Associate Professor, Audiology

B.S., University of Bombay, India, 1988
M.A., Northwestern University, 1989
Ph.D., Northwestern University, 1994

Articles in Refereed Journals

The influence of a sensitive period on central auditory development in children with unilateral and bilateral cochlear implants

A. Sharma, M. Dorman and A. Kral

Hearing Research **203** (2005) 134-143

P1 latency as a biomarker for central auditory development in children with hearing impairment

A. Sharma, K. Martin, P. Roland, P. Sweeny, M. Sweeny, P. Gilley and M. Dorman

Journal of the American Academy of Audiology **16** (2005) 568-577

Developmental changes in refractoriness of the cortical auditory evoked potential

P. Gilley, A. Sharma, M. Dorman and K. Martin

Clinical Neurophysiology **116** (3) (2005) 648-657

Articles in Edited Volumes

The clinical use of P1 latency as a biomarker for assessment of central auditory development in children with hearing impairment

A. Sharma and M. Dorman

Audiology Today **17** (3) (2005) 18-19

Grants Awarded and Continued: Principal Investigator

Central Auditory Development In Hearing Impaired Infants

Anu Sharma

National Institutes of Health, RO1 \$2,131,658 (2004-2009)

Central auditory system plasticity in implanted children

Anu Sharma

The National Institutes of Health (NIH) R01 \$884,874 (2001-2006)

Melanie J. Spence, Associate Professor, Psychology

B.A., Emory University, 1978

M.A., University of North Carolina, Greensboro, 1980

Ph.D., University of North Carolina, Greensboro, 1984

Articles in Conference Proceedings

Voice familiarity affects 4-month-olds' categorization of infant-directed speech

M. J. Spence, K. J. Atchison, E. Granado, and J. F. Sokolsky
Cognitive Development Society Fourth Biennial Meeting, San Diego, CA,
(October 21-22, 2005)

The effects of stimulus familiarity on infants' facial processing
E. W. Touchstone and M. J. Spence
Cognitive Development Society Fourth Biennial Meeting, San Diego, CA,
(October 21-22, 2005)

Infants' categorization of dynamic and static facial expressions
E. W. Touchstone and M. J. Spence
Biennial Meeting of the Society for Research in Child Development,
Atlanta, GA, (April 7-10, 2005)

Grants Awarded and Continued: Principal Investigator

Infants' Categorization of Emotional Expressions
M. J. Spence
Research Initiative Award, School of Brain and Behavioral Sciences,
\$1500 (2004-2005)

Infants' Categorization of Vocal and Facial Emotions
M. J. Spence
Research Initiative Award, School of Brain and Behavioral Sciences,
\$1000 (2005-2006)

Robert D. Stillman, Professor, Communication Disorders
Associate Dean, School of Human Development
B.S., Union College, 1964
Ph.D., Syracuse University, 1969

Articles in Conference Proceedings

Parent/professional perspectives on assessment of children who are
deafblind
R. Stillman, J.C. Stoltz and S.S. Lalani
American Speech-Language-Hearing Association, San Diego, CA (2005)

Grants Awarded and Continued: Principal Investigator

Validation of evidence-based assessment strategies to promote
achievement in children who are deaf-blind
R. Stillman
U.S. Department of Education \$190,000 (January 2004-December 2008)

Linda M. Thibodeau, Professor of Communication Disorders
B.A., University of Texas, Austin, 1975
M.A., University of Texas, Austin, 1977
Ph.D., University of Minnesota, 1986

Articles in Refereed Journals

The University of Texas at Dallas/Callier Center for Communication Disorders Doctor of Audiology (AuD) Program
R. Roeser, L. Thibodeau and C. Cokely
American Journal of Audiology **14** (2005) 151-160

Grants Awarded and Continued: Principal Investigator

Comparison of ADRO and WDRC processing in Hearing Aids
L. Thibodeau
Interton \$15,000 (2005)

Application of Advanced Listening Technology in Adults
L. Thibodeau
Phonak \$29,000 (2005)

Lucien T. Thompson, Associate Professor, Neuroscience
B.A., California State College at San Bernardino, 1981
M.A., California State University at San Bernardino, 1983
Ph.D., University of Virginia, 1988

Articles in Refereed Journals

Impaired delay and trace eyeblink conditioning performance in major depressive disorder
T.L. Greer, M.H. Trivedi and L.T. Thompson
Journal of Affective Disorders, **86** (2005) 235-245

Articles in Conference Proceedings

D-cycloserine enhances location-specificity of hippocampal place cells
L.T. Thompson, J. Frank, T. Goble and G.E. Farmer
Society for Neuroscience Abstracts Washington DC: **32** (November 12, 2005) 33

D-cycloserine increases CA1 neuronal excitability in vitro

T. Seif and L.T. Thompson

Society for Neuroscience Abstracts Washington DC: **32** (November 15, 2005) 805

Stress- and noise-induced plasticity of hippocampal place-fields in a fixed environment

T.J. Goble, J.R. Frank, G.E. Farmer, A.R. Møller and L.T. Thompson
Society for Neuroscience Abstracts Washington DC: **32** (November 12, 2005) 34

Insulin enhances excitability of CA1 pyramidal neurons in vitro.

C. Williford and L.T. Thompson.

Society for Neuroscience Abstracts Washington DC: **32** (November 15, 2005) 806

Effects of dequalinium on currents underlying the late AHP in CA1 hippocampal neurons

H. Bui, A. Patel and L.T. Thompson.

Society for Neuroscience Abstracts Washington DC: **32** (November 15, 2005) 305

BOLD signal changes in the hippocampus and cerebellum during human trace eyeblink conditioning

P. Lea, R. McColl, K.Y. Maxham and L.T. Thompson

Society for Neuroscience Abstracts Washington DC: **32** (November 15, 2005) 455

Emily A. Tobey, Professor, Communication Disorders;

Nelle C. Johnston Chair in Early Childhood Communication Disorders

B.A., New Mexico State University, Las Cruces, 1973

M.C.D., Louisiana State University Medical Center, 1975

Ph.D., City University of New York, 1981

Articles in Refereed Journals

Pharmacological enhancement of Aural Habilitation in Adult Cochlear Implant Users

E. Tobey, M. Devous, K. Buckley, G. Overson, T. Harris, W. Ringe and J. Martinez-Verhoff

Ear Hearing **26(45)** (2005) 45S-56S

Cochlear Implant Soft Failures Consensus Development Conference Statement

T. Balkany, A. Hodges, C. Buchman, W. Luxford, C. Pillsbury, P. Roland,

J. Shallop, D. Backous, D. Franz, J. Graham, B. Hirsch, M. Luntz,
J. Niparko, J. Patrick, S. Payne, F. Telischi, E. Tobey, E. Truy
and S. Staller
Otol. Neurotol., **26(4)** (2005) 815-818

Cochlear Implant Soft Failures Consensus Development Conference
Statement

T. Balkany, A. Hodges, C. Buchman, W. Luxford, C. Pillsbury, P. Roland,
J. Shallop, D. Backous, D. Franz, J. Graham, B. Hirsch, M. Luntz,
J. Niparko, J. Patrick, S. Payne, S. Staller, F. Telischi, E. Tobey and
E. Truy
Cochlear Implants International: An Interdisciplinary Journal, **6** (2005)
105-122

Articles in Conference Proceedings

Literacy improvements in early-implanted children

A. Geers, J. Moog and E. Tobey
10th Symposium on Cochlear Implants in Children (2005) 6

Measures of quality of life (QOL) in the Childhood Development after
Cochlear Implantation (CDaCI) Study

F. Lin, L. Eisenberg, A. Quittner, E. Tobey, Y. Wang, N. Fink, J. Niparko
and the CDaCI Investigative Team
10th Symposium on Cochlear Implants in Children (2005) 34

Parenting Stress and Child Behavior Problems in Deaf and Hearing
Toddlers at Baseline, 6 months and 1 year

D. Barker, A. Quittner, L. Malvarez, P. Leibach, I. Cruz, L. Eisenberg,
E. Tobey, Y. Wang, N. Fink, J. Niparko and the CDaCI Investigative
Team
10th Symposium on Cochlear Implants in Children (2005) 35

Joint attention and Symbolic Play in Deaf and Hearing Toddlers at
Baseline and 1 Year After Cochlear Implantation: The Utility of
Videotaped Interactions

A. Quittner, L. Malvarez, P. Leibach, D. Barker, I. Cruz, L. Eisenberg,
E. Tobey, Y. Wang, N. Fink, J. Niparko and the CDaCI Investigative
Team
10th Symposium on Cochlear Implants in Children (2005) 35

Speech Recognition at 1-Year Follow-up in the Childhood Development
after Cochlear Implantation (CDaCI) Study

L. Eisenberg, K. Johnson, A. Martinez, C. Cokely, A. Quittner, E. Tobey,
Y. Wang, N. Fink, J. Niparko and the CDaCI Investigative Team
10th Symposium on Cochlear Implants in Children (2005) 39

Early phonemic development in young cochlear implanted children
L. Levitan, D. Rekart, B. Davis, P. MacNeilage, J. Moore, A. Czyz-
Warner, J. Lane, P. Parker, A. Boyd, L. Sachar, N. Weissner and E. Tobey
10th Symposium on Cochlear Implants in Children (2005) 41

Baseline language characteristics of children enrolled in the Childhood
Development after Cochlear Implantation (CDaCI) Study
E. Tobey, D. Rekart, A. Quittner, L. Eisenberg, Y. Wang, N. Fink,
J. Niparko and the CDaCI Investigative Team
10th Symposium on Cochlear Implants in Children (2005) 56

Inter- and intra-reliability measures for transcription of the early speech
production of children receiving cochlear implants
J. Lane, D. Rekart, B. Davis, P. MacNeilage, A. Czyz-Warner, L. Levitan,
P. Parker, A. Boyd, L. Sachar and E. Tobey
10th Symposium on Cochlear Implants in Children (2005) 59

An investigation of pre-canonical vocalizations in the early speech of
cochlear implanted children
N. Weissner, D. Rekart, J. Lane, A. Boyd, E. Tobey, B. Davis and
P. MacNeilage
10th Symposium on Cochlear Implants in Children (2005) 71

Grants Awarded and Continued: Principal Investigator

SPECT rCBF in receptive language
E. Tobey
National Institutes of Health \$458,922 (6/1/2000 - 2/28/2006)

Childhood Developmental After Cochlear Implantation
E. Tobey
National Institutes of Health \$197,627 (3/1/2001-02/28/2007)

Development of Serial Motor Control
E. Tobey
National Institutes of Health \$33,900 (12/1/2001 – 11/30/2006)

Pharmacologic activation of dormant cortex in the restoration of speech
and language following cochlear implantation in the deaf
Emily A. Tobey, Principal Investigator UTD subcontract
Dana Clinical Hypotheses Program in Imaging, \$50,000 (5/2001- 4/2006)

A Comparison of Language Intervention Programs
E. Tobey

National Institutes of Health \$539,801 (2002-2006)

Hanna K. Ulatowska, Professor, Communication Disorders
M.A., Warsaw University, 1955
Ph.D., University of Edinburgh, 1961

Articles in Refereed Journals

Out of darkness cometh light [Światłość w ciemności świeci]
H.K. Ulatowska, M. Sadowska and D. Kądziaława
ProMemoria **2 (22)** (2005) 47-50

Articles in Edited Volumes

Mental Representation of Auschwitz Experiences: The Perspectives of
Child and Adult Survivors
H.K. Ulatowska, M. Sadowska, D. Kądziaława and M. Polak
*Current International Research on Survivors of Nazi Persecution:
Proceedings of the international conference Beyond Camps and Forced
Labour, 29-31 January, 2003*, edited by J.-D. Steinert & I. Weber-Newth
Hamburg, Germany: Körber-Stiftung (2005)

Articles in Conference Proceedings

Macrostructure Revisited: An examination of Gist Responses in Aphasia
H.K. Ulatowska, G.S. Olness and L.J. Williams-Hubbard
Poster presented at the annual meeting of the Academy of Aphasia,
Amsterdam, Netherlands
Proceedings of Brain and Language, **35** (October 2005) 109-110

Grants Awarded and Continued: Principal Investigator

Narrative in Group Aphasia Treatment Programs
H.K. Ulatowska
University of Texas at Dallas, Behavioral and Brain Sciences Faculty
Research Initiative Grant \$ 1,500 (2003-2005)

Stroke Stories
H.K. Ulatowska
University of Texas at Dallas, Behavioral and Brain Sciences Faculty
Research Initiative Grant \$1000 (2005)

Effects of Conversational Topics and Ethnicity in Aphasia Group Settings
H.K. Ulatowska

UTD, Behavioral and Brain Sciences Faculty Research Initiative Grant
\$1000 (2004-2005)

Marion K. Underwood, Professor, Psychology
B.A., Wellesley College, 1986
M.A., Duke University, 1987
Ph.D., Duke University, 1991

Articles in Refereed Journals

Gender Similarities and Differences in Children's Social Behavior:
Finding Personality in Contextualized Patterns of Adaptation
A.L. Zakriski, J.C. Wright and M.K. Underwood
Journal of Personality and Social Psychology **88** (2005) 844-855

Observing anger and aggression among preadolescent girls and boys:
Ethical dilemmas and practical solutions
M.K. Underwood
Ethics and Behavior **15** (2005) 235-245

Articles in Edited Volumes

Peer Relationships during Middle Childhood: Gender, Emotions, and
Aggression.
M.K. Underwood, L. Mayeux and M. Galperin
Child Psychology: A Handbook of Contemporary Issues, 2nd Edition,
edited by L. Balter and C. Tamis-LeMonda
Philadelphia, PA: Psychology Press (2005) 241-261

African American girls and physical aggression: Does stability of
childhood aggression predict later negative outcomes?
The development and treatment of girlhood aggression, edited by Debra
Pepler, Kristen Madson and Kristin Levene
Mahwah, NJ: Lawrence Erlbaum Associates. (2005) 75-95

Grants Awarded and Continued: Principal Investigator

Social Aggression: Development, Outcomes, and Prevention (A K02
Career Award)
Marion K. Underwood
National Institutes of Health, \$597,000 (2005 – 2010)

Social Aggression: Precursors and Outcomes
M. K. Underwood

National Institutes of Mental Health \$1,250,000 (2002-2007)

ERIK JONSSON SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

Robert Helms, Lars Magnus Ericsson Professor, Electrical Engineering;
Dean, School of Engineering and Computer Science

Naofal Al-Dhahir, Associate Professor, Electrical Engineering
B.S., Kuwait University, 1989
M.S., Stanford University, 1990
Ph.D., Stanford University, 1994

Articles in Refereed Journals

Construction and Analysis of a New Quaternionic Space-Time Code for 4
Transmit Antennas
A.R. Calderbank, S. Das, N. Al-Dhahir and S. Diggavi
Communications in Information and Systems Journal
(Special Issue on the 70th birthday of Thomas Kailath) **5** (2005) 97-122

Articles in Edited Volumes

Space-Time Coding for Wireless Communications: Principles and Practice
N. Al-Dhahir, A.R. Calderbank and Suhas Diggavi
MIMO Communications Book, edited by V. Poor, *et al*
Cambridge University Press (2005) 140-185

Articles in Conference Proceedings

Training Signal Design for MIMO OFDM Channel Estimation in
the Presence of Frequency Offsets
H. Minn and N. Al-Dhahir
IEEE Wireless Communications and Networking Conference
New Orleans, LA (March 2005) 1-6

A New Multicarrier Transceivers Based on the Discrete Cosine Transform
N. Al-Dhahir and H. Minn
IEEE Wireless Communications and Networking Conference
New Orleans, LA (March 2005) 45-50

Linear Equalizers for Flat Rayleigh MIMO Channels
A.Hedayat, A. Nosratinia and N. Al-Dhahir
*IEEE International Conference on Acoustics, Speech, and Signal
Processing* Philadelphia, PA (March 2005) 445-448

Exploiting Algebraic Structure in Cross-Layer Design
S.Das, N. Al-Dhahir and A.R. Calderbank
IEEE Wireless Communications Conference New York, NY: (June 2005)
1466-1471

A Novel Full-Rate Full-Diversity Orthogonal STBC with Application to
WiMAX
A.R. Calderbank, S. Das, N. Al-Dhahir and S.N. Diggavi
IEEE Vehicular Technology Conference Dallas, TX (September 2005)
1791-1795

Opportunistic Space-Time Block Codes
S. Das, N.Al-Dhahir and S. Diggavi
IEEE Vehicular Technology Conference Dallas, TX (September 2005)
2025-2029

A Reduced-Complexity Hybrid Receiver for the Downlink
Multicell CDMA System
M. Habibul Islam, M. Saquib and N.Al-Dhahir
IEEE Vehicular Technology Conference Dallas, TX (September 2005)
1756-1760

PAR-Constrained Training Signal Designs for MIMO OFDM Channel
Estimation In the Presence of Frequency Offsets
H. Minn and N. Al-Dhahir
IEEE Vehicular Technology Conference Dallas, TX (September 2005)
1465-1470

Large-System Analysis of Hybrid Channel Estimation Methods in CDMA
Systems
O. Ozdemir, M. Torlak, and N. Al-Dhahir
IEEE Vehicular Technology Conference Dallas, TX (September 2005)
1988-1992

On Embedded Diversity Codes
S. Diggavi, S. Dusad, N.Al-Dhahir, and A.R. Calderbank
Allerton Conference (September 2005)

MIMO-OFDM Training Signal Design in the Presence of Frequency
Offset and Phase Noise
H. Minn and N. Al-Dhahir
IEEE ICICS'05 Conference (December 2005) 263-267

Grants Awarded and Continued: Principal Investigator

Collaborative Research : MSPA-MCS Back to the Future :
The Value of Algebraic Structure in Cross-Layer Design
A.R. Calderbank (PI from Princeton) and N. Al-Dhahir (PI from UTD)
National Science Foundation (NSF), \$131,000 (2005-2007)

Novel OFDM Interference Mitigation Architecture and Algorithms
N.Al-Dhahir
Semiconductor Research Corporation (SRC), \$150,000 (2005-2008)

Patents

Finite-Length Equalization over Multi-Input Multi-Output Channels
N. Al-Dhahir and A.H.Sayed
U.S. Patent no. 6,870,882 (March 2005)

Adaptive Digital Beamformer Coefficient Processor for
Satellite Signal Interference Reduction
R. Gauss and N.Al-Dhahir
U.S. Patent no. 6,885,338 (April 2005)

Training-Based Channel Estimation for Multiple Antennas
N. Al-Dhahir, C. Fragouli, and W. Turin
U.S. Patent no. 6,959,047 (October 2005)

Poras T. Balsara, Professor, Electrical Engineering
L.E.E., Victoria Jubilee Technical Inst., Bombay, 1980
B.E., University of Bombay, 1983
M.S., Penn State University, 1985
Ph.D., Penn State University, 1989;
Licensed Professional Engineer, State of Texas, 1998

Articles in Refereed Journals

SoC with an Integrated DSP and a 2.4GHz RF Transmitter
R. B. Staszewski, R. Staszewski, J. Wallberg, T. Jung, J. Koh, C-M Hung,
J. Koh, D. Leipold, K. Maggio & P. T. Balsara
IEEE Transactions on VLSI Systems **13 (11)** (November 2005) 1253-1265

Direct Frequency Modulation of an ADPLL for Bluetooth/GSM with
Injection Pulling Elimination
R. Staszewski, D. Leipold & P. T. Balsara
IEEE Transactions on Circuits and Systems-II **52 (6)** (June 2005) 339-343

Event-Driven Simulation and Modeling of an RF Oscillator

R. Staszewski, Chan Fernando & P. T. Balsara
IEEE Transactions on Circuits and Systems-I **52** (4) (April 2005) 723-732

Phase-Domain All-Digital Phase-Locked Loop
R. Staszewski, & P. T. Balsara
IEEE Transactions on Circuits and Systems-II **52** (3) (March 2005) 159-163

Articles in Conference Proceedings

FPGA Architecture for Standby Power Management
R. Konar, R. Bharadwaj, D. Bhatia and P.T. Balsara
Proceedings of the IEEE Conference on Field Programmable Technology (FPT), Singapore, (Dec. 11-14, 2005) 181-188

All-Digital PLL with Ultra Fast Acquisition
R. Staszewski, G. Shriki and P. T. Balsara
Proceedings of the IEEE Asian Solid-State Circuits Conference **11-7**
Hsinchu, Taiwan (Nov. 1-3, 2005) 289-292

Ripple-Precharge TCAM: A Low-Power Solution for Network Search Engines
D. S. Vijayasarithi, M. Nourani, M. J. Akhbarizadeh and P. T. Balsara
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Implementation of High Speed Digital Band-Pass Sigma-Delta Modulator for a Wireless Transmitter
V. Parikh, G. Feygin, P. T. Balsara, S. Rezeq, R. Staszewski, S. Vemulapalli and O. Eliezer
Proceedings of the IEEE Dallas/CAS Workshop Richardson, TX, (October 2005) 207-210

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C. Sundaram, P. T. Balsara, S. Vemulapalli, P. Vallur and O. Eliezer
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R. B. Staszewski, S. Vemulapalli, P. Vallur, J. Wallberg and P. T. Balsara
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R. B. Staszewski, R. Staszewski and P. T. Balsara
Proceedings of the 5th International Workshop SoC (IWSoc),
Banff, Canada, (July 20-24, 2005) 233-238
Best Paper Award.

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M. Chugh, D. Bhatia and P. T. Balsara
Proceedings of the 12th Reconfigurable Architectures Workshop (RAW 2005) Denver, Colorado, (April 4-5, 2005) 1-8

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I. Elahi, K. Muhammad and P. T. Balsara
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The Impact of Inductance on Transients Affecting Gate Oxide Reliability
NS Nagaraj, W. Hunter, P. T. Balsara and C. Cantrell
Embedded Tutorial, 18th International Conference on VLSI Design (VLSI '05) Kolkata, India, (January 3-7, 2005) 709-713

Grants Awarded and Continued: Principal Investigator

Digital Radio Processor
P. T. Balsara
Texas Instruments, \$ 96,000 (March 2005 – February 2006)

Digitally Assisted Mixed-Signal Circuits for Wireless Communications

P.T. Balsara
Texas Instruments \$68,000 (January 2004 – December 2004)

Farokh B. Bastani, Professor, Computer Science;
Excellence in Education Foundation Chair
B. Tech., Indian Inst. of Technology, Bombay, 1977
M.S., University of California, Berkeley, 1978
Ph.D., University of California, Berkeley, 1980

Articles in Refereed Journals

Automated aspect-oriented decomposition of process-control systems for ultra-high dependability assurance

D. Wang, F.B. Bastani and I.-L. Yen

IEEE Transactions on Software Engineering **31 (9)** (2005) 713-732

A study of the model and algorithms for handling location dependent continuous queries

M. Gupta, M. Tu, L. Khan, F.B. Bastani and I.-L. Yen

Knowledge and Information Systems Journal **8 (4)** (2005) 414-437

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Toward QoS analysis of adaptive service-oriented architecture

T. Gao, H. Ma, I.-L. Yen, F.B. Bastani and W.-T. Tsai

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Beijing, China: (October 2005) 219-226

Toward a UML profile to support component-based distributed adaptive systems

T. Gao, K. Cooper, H. Ma, I.-L. Yen and F.B. Bastani

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Taipei, Taiwan: (July 2005) 217-222

A formal foundation of code pattern based development

J. Liu, F.B. Bastani and I.-L. Yen

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An adaptive multiparty protocol for secure data protection

Q. Ma, I.-L. Yen, W. Hao, M. Tu and F.B. Bastani

Proceedings of IEEE International Conference on Parallel and Distributed Systems
Fukuoka, Japan: (July 2005) 43-49

Meta code pattern and its refinement
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Proceedings of 2005 International MultiConference in Computer Science & Computer Engineering
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M. Tu, P. Li, Q. Ma I.-L. Yen and F.B. Bastani
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Proceedings of IEEE International Parallel and Distributed Processing Symposium Denver, Colorado: (April 2005)

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Proceedings of IEEE Real-Time and Embedded Technology and Applications Symposium San Francisco, California: (March 2005) 56-65

Empirical assessment of machine learning based software defect prediction techniques
V.U.B. Challagulla, F.B. Bastani, I.-L. Yen and R. Paul,
Proceedings of the 10th IEEE International Workshop on Object-oriented Real-time Dependable Systems Sedona, Arizona: (February 2005) 263-270

Grants Awarded and Continued: Principal Investigator

Developing Advanced Middleware for Convergence of IT and Telecommunications
F.B. Bastani (PI), I.-L. Yen (Co-PI), G. Dattatreya (Co-PI), and L. Khan (Co-PI),
Alcatel USA, \$227,500 (Jan. 15, 2004 - Jan. 15, 2005)

Developing Advanced Middleware for Convergence of IT and
Telecommunications - Part II

F.B. Bastani (PI) and I.-L. Yen (Co-PI)

Alcatel USA, \$40,500 (Sep. 1, 2004 - Jan. 15, 2005)

Federation of Distributed Presence Servers

F.B. Bastani (PI), I.-L. Yen (Co-PI)

Alcatel USA, \$59,500 (Dec. 1, 2004 - June 1, 2005)

Sergey Bereg, Associate Professor, Computer Science

B.S., Ural State University, USSR, 1983

M.S., Ural State University, USSR, 1985

Ph.D., Minsk Institute of Mathematics, Belarus, Russia, 1992

Articles in Refereed Journals

Geometric Facility Location Problems with Uncertainty

Averbakh and S. Bereg

Discrete Optimization, **2(1)** (2005) 3-34

Equipartitions of Measures by 2-fans

S. Bereg

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S. Bereg

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Guarding a Terrain by Two Watchtowers

P. Agarwal, S. Bereg, H. Kaplan, O. Daescu, S. Ntafos and B. Zhu

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S. Bereg

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S. Bereg and A. Dumitrescu

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S. Bereg and D. Kirkpatrick

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(2005) 278-287

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S. Bereg

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S. Bereg, A. Dumitrescu and J. Pach

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S. Bereg and K. Bean

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S. Bereg and Y. Zhang

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RNA Multiple Structural Alignment with Longest Common Subsequences

S. Bereg and B. Zhu

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Wiener Indices of Balanced Binary Trees

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International Workshop on Bioinformatics Research and Applications,
LNCS 3515, (2005) 851-859

Dinesh Bhatia, Associate Professor of Electrical Engineering
B.E., Regiona Engr. College, Suratkal, India, 1985

M.S., University of Texas, Dallas, 1987
Ph.D., University of Texas, Dallas, 1990

Articles in Refereed Journals

A-priori Wirelength and Interconnect Estimation based on Circuit Characteristics
Shankar Balachandaran and Dinesh Bhatia
IEEE Transactions on Computer Aided Design of Integrated Circuits and Systems, **24(7)** (July 2005) 1054-1065

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Manjunath Gangadhar and Dinesh Bhatia
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Rajarshee Bharadwaj, Rajan Konar, Dinesh Bhatia and Poras Balsara
*IEEE International Conference on Field Programmable Technology
(FPT)*
Singapore, (December 2005) 181-188

Andrew J. Blanchard, Professor of Electrical Engineering
B.S., University of Southwestern Louisiana, 1972
M.S., Colorado State University, 1973
Ph.D., Texas A&M University, 1977

Grants Awarded and Continued: Principal Investigator

Assemblers for Nanotechnology Applications and Manufacturing:
Enabling the Nanotechnology Era
Andrew J. Blanchard
NIST/Zyvex, ATP Program in Nano-Technologies \$699,649 (2001-2005)

Joao W. Cangussu, Assistant Professor, Computer Science
B.S., Federal University of Mato Grosso do Sul-Brazil, 1990
M.S., University of Sao Paulo at Sao Carlos-Brazil, 1993
Ph.D., Purdue University, 2002

Articles in Conference Proceedings

A Productivity Metric Based on Statistical Pattern Recognition
J.L. Sharpe and J.W. Cangussu
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Conference (COMPSAC) Edinburgh, Scotland (July 25-28, 2005)*

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J.W. Cangussu and Richard M. Karcich
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Using Dynamic Models for the Evaluation of Integration and System
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(ISI), Atlanta, Georgia, (May 19-20, 2005)

An Empirical Study on the Specification of Components Using Fuzzy
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R. Soundararadjane and E. Wong
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A Run-Time Adaptable Persistency Service using the SMART Framework
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A quantitative Learning Model for Software Test Process
G. Abu, J. W. Cangussu and J. Turi
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A Learning Model for Software Development Processes
G. Abu and J. W. Cangussu
The IASTED International Conference on Software Engineering,
February 15-17, 2005 Innsbruck, Austria

Cyrus D. Cantrell, III, Professor, Electrical Engineering and Physics
Director, Photonic Technology and Engineering Center (PhoTEC)
A.B., Harvard University, 1962
M.A., Princeton University, 1964
Ph.D., Princeton University, 1968

Authored Book

Modern Mathematical Methods for Physicists and Engineers

Cyrus D. Cantrell

Cambridge: Cambridge University Press/World Publishing Corporation
(2005) 763 (People's Republic of China reprint edition)

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Prefix segregation scheme for a TCAM-based IP forwarding engine

Mohammed J. Akhbarizadeh, Mehrdad Nourani and Cyrus D. Cantrell

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Optimized Implementation of the FFT Algorithm on the TMS320C62X
and the TMS320C64x DSP

Jagadeesh Sankaran, Cyrus D. Cantrell and William J. Pervin

*Digest of the 3rd Workshop on Optimizations for DSP and Embedded
Systems (ODES-3)*, in conjunction with the International Symposium on
Code Generation and Optimization (CGO) San Jose, CA: (20–23 March
2005) 101–110

Ramaswamy Chandrasekaran, Ashbel Smith Professor, Computer Science
B. Tech., Indian Inst. of Technology (Bombay), 1963
Ph.D., University of California, Berkeley, 1967

Articles in Refereed Journals

Isotonic Separation

R. Chandrasekaran, Young Ryu, Varghese Jacob and Sung-Chul Hong

INFORMS Journal on Computing, **17** (2005) 462-474

The multiroute maximum flow problem revisited

D.L. Du and R. Chandrasekaran

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Multi-Route flows: Cut-trees and realizability

S.N. Kabadi, R. Chandrasekaran and K.P.K. Nair

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Cutting out polygons

R. Chandrasekaran, O. Daescu and J. Luo

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University of Windsor, Ontario, Canada (August 10-12, 2005) 180-183

Energy Efficient Sensor, Relay and Base Station Placements for Coverage,

Connectivity and Routing

M. Patel, R. Chandrasekaran and S. Venkatesan

Proceedings of 24th IEEE International Performance, Computing and

Communications Conference, Phoenix, AZ, (April 7-9, 2005)

Lawrence Chung, Associate Professor, Computer Science

B.S., University of Toronto, 1981

M.S., University of Toronto, 1984

Ph.D., University of Toronto, 1993

Edited Books: Journals

Journal of Systems Architecture: Special Issue on System/Software

Architectures **57 1**

L. Chung and N. Subramanian (Guest Editors)

Elsevier Science (July 2005)

*Proceedings of the 6th ACIS International Conference on Software
Engineering, Artificial Intelligence, Networking and Parallel/Distributed
Computing (SNPD 2005)*

L. Chung and Y. Song (Editors)

(May 23-25, 2005) Towson, Maryland, USA, IEEE Computer Society

2005

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Measuring the Evolution of Legal Personality

N. Subramanian and L. Chung,

Ius Gentium, Univ. Baltimore Center for International and Comparative

Law (Spring 2005) 79-133

System/Software Architectures

L.Chung and N. Subramanian

Journal of Science of Programming, **57(1)**, Elsevier Science (July 2005)
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A Comparative Evaluation of Maintainability: A Study of Engineering Department's Website Maintainability
N. Subramanian, R. Puerzer and L. Chung
Proceedings of 21st IEEE International Conference on Software Maintenance (ICSM05), Budapest, Hungary (25-30 September 2005)

Enhancing the Vision Document in the Rational Unified Process with a Visual Representation of Goals
K. Cooper, L. Chung and S. Courtney
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A UML Profile for Goal-Oriented and Use Case-Driven Representation of NFRs and FRs
S. Supakkul and L. Chung
Proceedings of International Conference on Software Engineering Research, Management & Applications (SERA'05), Mount Pleasant, Michigan, (11-13 August 2005) *IEEE Computer Society* 112-119

Analysis of Secure Design Patterns: A Case Study in E-Commerce System
J. Wong, Y. T. Song and L. Chung
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Teaching Experiences with UML at The University of Texas at Dallas
K. Cooper, J. Dong, K. Zhang and L. Chung
Proceedings of the ACM / IEEE 8th International Conference on Model Driven Engineering Languages and Systems Educator's Symposium (MoDELS-EDU'05), Montego Bay, Jamaica (October 3, 2005) 1-8

Quantifying the Evolution of Goals in Requirements Engineering: A Study on the Quality Assurance Review Assistant
T. Chowdhury, L. Chung and K. Cooper
Proceedings of the 15th International Council on Systems Engineering Symposium (INCOSE) Rochester, NY (July 10-15, 2005) CD proceedings Requirements Session 28-41

Reconfirming Change in Secure Software Systems: An Adaptable Security Approach

L. Chung and N. Subramanian

Proceedings of International Conference on Security and Management (SAM'05), Las Vegas, NV (June 20-23, 2005) 320-326

Supporting the Development of Adaptable and Secure Software Systems: An NFR Approach

N. Subramanian and L. Chung

4th International Workshop on Systems and Software Architecture (IWSSA'05), *Proceedings of International Conference on Software Engineering Research and Practice (SERP'05)*, Las Vegas, NV (June 20-23, 2005)108-114

Evaluating Off-The-Shelf Architectural Components

K. Cooper, L. Chung and W. Ma

Proceedings of the 4th International Workshop on Systems and Software Architecture (IWSSA'05), *Proceedings of International Conference on Software Engineering Research and Practice (SERP'05)*, Las Vegas, NV (June 20-23, 2005) 115-121

Models and Processes for the Evaluation of Off-The-Shelf Components - MPEC'05

L. Chung, X. Franch and N. Maiden

Proceedings of IEEE International Conference on Software Engineering (ICSE), St. Louis, Missouri, (May, 2005) 696

Managing Change in an OTS-Aware Requirements Engineering Approach

K. Cooper and L. Chung

Proceedings of the IEEE ICSE-MPEC'05 Workshop, St. Louis, Missouri, (May 2005) 1-4 (ACM Digital Library CD)

A COTS Architectural Component Specification Stencil for Selection and Reasoning

J. Dong, S. Yang, L. Chung, P. Alencar and D. Cohen

IEEE ICSE-MPEC'05 Workshop, St. Louis, Missouri, (May, 2005)
ACM Digital Library CD

Relationship between the Whole of Software Architecture and Its Parts: An NFR Perspective

N. Subramanian and L. Chung

Proceedings of 6th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking, and Parallel/Distributed Computing (SNPD2005), Towson, Maryland (May 2005)
IEEE Computer Society 164-169

Matching Effectiveness and COTS Model Richness
W. Ma, K. Cooper and L. Chung
Proceedings of 6th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking, and Parallel/Distributed Computing (SNPD2005), Towson, Maryland (May 23-25, 2005)
IEEE Computer Society 26-31

From Software Architecture to Design Patterns: An NFR Approach
J. Wang, Y. T. Song and L. Chung
Proceedings of 6th ACIS International Conference on Software Engineering, Artificial Intelligence, Networking, and Parallel/Distributed Computing (SNPD2005), Towson, Maryland (May 2005)
IEEE Computer Society 170-177

Grants Awarded and Continued: Principal Investigator

Effective COTS-Aware Requirements Engineering
L. Chung, Co-PI: K. Cooper
Texas Enterprise Fund - UTD, Dean's Office \$60,000 (2005)

Jorge A. Cobb, Associate Professor, Computer Science
B.S., University of Texas, El Paso, 1987
M.A., University of Texas, 1989
Ph.D., University of Texas, 1996

Articles in Refereed Journals

An Overview of Solutions to Avoid Persistent BGP Divergence
Ravi Musunuri and Jorge Cobb
IEEE Network **19 (6)** (Nov.-Dec. 2005) 28-34

Hello Again: Convergence of the Hello Protocol in OSPF'
Jorge Cobb, Mohamed Gouda and Deepinder Sidhu
Journal of High-Speed Networks **14 (1)** (2005) 39-58

Scalable Quality of Service across Multiple Domains
Jorge Cobb
Computer Communications **28** (2005) 1997-208

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Hierarchical-Battery Aware Routing in Wireless Sensor Networks

Ravi Musunuri and Jorge Cobb
Proceedings of the IEEE Vehicular Technology Conference 4
Dallas, TX (September 2005) 2311-2315

Comprehensive Solution for Anomaly-Free BGP
Ravi Musunuri and Jorge Cobb
5th IEEE International Workshop on IP Operations & Management
Barcelona, Spain (October 26-28, 2005) LNCS-3751 130-141

Distributed Out-bound Load Balancing in Inter-AS Routing by Random Matchings
Ravi Musunuri and Jorge Cobb
Proceedings of the IEEE International Conference on Computer Communication and Networks (IC3N) San Diego, CA (October 2005) 469-475

Maintaining Flow Isolation in Work-Conserving Flow Aggregation
Jorge A. Cobb and Zhe Xu
Proceedings of the IEEE GLOBECOM Conference St. Louis, MO (November 2005) session GC14_5

Kendra M.L. Cooper, Assistant Professor, Computer Science
B.A.Sc., University of British Columbia, Canada, 1993
M.A.Sc., University of British Columbia, Canada, 1995
Ph.D. University of British Columbia, Canada, 2001

Articles in Refereed Journals

Performance Modeling and Analysis of Software Architectures: An Aspect-Oriented UML Based Approach
K. Cooper, L. Dai and Y. Deng
Journal of Science of Computer Programming System and Software Architectures **57 (1)** (July 2005) 89-108

A Model and Methodology for Compositional QoS Analysis of Embedded Systems
Hui Ma, I-Ling Yen, Dongfeng Wang, Jia Zhou, Kendra Cooper and Farokh Bastani
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Hawaii, USA: (January 3-6 2005) **Volume 9**, electronic proceedings index 276.1

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E. Wong, Y. Qi and K. Cooper
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Hui Ma, Dongfeng Wang, Farokh Bastani, I-Ling Yen and Kendra Cooper
Proceedings of the 11th IEEE Real Time and Embedded Technology and Applications Symposium
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An Empirical Study on the Specification of Components Using Fuzzy Logic
K. Cooper, J. Cangussu, R. Lin, G. Sankaranarayanan, R. Soundararadjane and E. Wong
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Rule-base technique for component adaptation to support qos-based reconfiguration
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Proceedings of the IEEE International Symposium on Object-oriented Real-time Computing Systems
Seattle, USA: (May 18-20 2005) 426-433

Managing Change in a COTS-Aware Requirements Engineering Approach
L. Chung and K. Cooper
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W. Ma, K. Cooper and L. Chung
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Modeling and Analysis of Non-functional Requirements as Aspects in a UML Based Software Architecture Design

L. Dai and K. Cooper

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Maryland, USA: (May 23 – 25 2005) 178-183

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Las Vegas, USA: (June 20-23 2005) 115-121

Modelling and Performance Cost Analysis for Security Aspects: a UML Based Approach

K. Cooper and L. Dai

Proceedings of the 4th International Workshop on Systems and Software Architecture

Las Vegas, USA: (June 20-23 2005) 905 – 911

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T. Chowdhury, L. Chung and K. Cooper

Proceedings of the 15th International Council on Systems Engineering Symposium

Rochester, USA: (July 10-15 2005) CD proceedings Requirements Session 28-41

Modeling Reusable Security Aspects for Software Architectures: a Pattern Driven Approach

L. Dai, K. Cooper and E. Wong

Proceedings of the 17th International Conference on Software Engineering and Knowledge Engineering

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Toward a UML Profile to Support Component-Based Distributed Adaptive Systems

T. Gao, K. Cooper, H. Ma, I-L. Yen and F. Bastani

Proceedings of the 17th International Conference on Software Engineering and Knowledge Engineering

Taipei, Republic of China: (July 14-16 2005) 163-168

Enhancing the Vision Document in the Rational Unified Process with a

Visual Representation of Goals
K. Cooper, L. Chung and S. Courtney
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Teaching Experiences with UML at The University of Texas at Dallas
K. Cooper, J. Dong, K. Zhang and L. Chung
Proceedings of the ACM / IEEE 8th International Conference on Model Driven Engineering Languages and Systems Educator's Symposium
Montego Bay, Jamaica: (October 3 2005) 1-8

Experiences Using Defect Checklists in Software Engineering Education
K. Cooper, S. Liddle and S. Dascalu
Proceedings of the 18th International Conference on Computer Applications in Industry and Engineering
Honolulu, USA: (November 9-11 2005) 402-409

Ovidiu Daescu, Associate Professor, Computer Science
B.S., Tech. Military Academy, Bucharest, Romania, 1991
M.S., University of Notre Dame, 1997
Ph.D., University of Notre Dame, 2000

Articles in Refereed Journals

Polygonal path approximation: a query based approach
Ovidiu Daescu and Ningfang Mi
Computational Geometry: Theory & Applications **30 (1)** (2005) 41-58

Flexible disk scheduling strategies for multimedia presentation servers
S. Emilda, L. Jacob, Ovidiu Daescu and Balakrishnan Prabhakaran
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Ovidiu Daescu and Robert Serfling
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Guarding a Terrain by Two Watchtowers
Pankaj K. Agarwal, Sergey Bereg, Ovidiu Daescu, Haim Kaplan, Simeon Ntafos and Binhai Zhu
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New York: ACM Order Department (2005) 346-355

1-Link shortest paths in weighted regions
Ovidiu Daescu and James Palmer
ACM Symposium on Computational Geometry, edited by Joe Mitchell and Gunter Rote
New York: ACM Order Department (2005) 378-379

K-Link shortest paths in weighted subdivisions
Ovidiu Daescu, Joseph S.B. Mitchell, Simeon Ntafos, James Palmer and Chee Yap
Algorithms and Data Structures LNCS 3608, edited by Frank Dehne, Alejandro Lopez-Ortiz and Jorg-Rudiger Sack
Berlin: Springer (2005) 325-337

Stabbing Balls and Simplifying Proteins
Ovidiu Daescu and Jun Luo
Series in Mathematical Biology and Medicine, Advances in Bioinformatics and its Applications, edited by Matthew He, Giri Narasimhan and Sergei Petoukhov
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Ovidiu Daescu, Ningfang Mi, Chan-Su Shin and Alexander Wolff
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Cutting out polygons
Ramashwami Chandrasekaran, Ovidiu Daescu and Jun Luo
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Ovidiu Daescu, Jun Luo and David Mount
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Geometry*, University of Windsor, Ontario, Canada (August 10-12, 2005)
224-228

Grants Awarded and Continued: Principal Investigator

Outlier Identification and Handling in Computational Geometry Problems
Ovidiu Daescu (PI) and Robert Serfling (Co-PI)
National Science Foundation \$99,972 (2004-2006)

Galigekere R. Dattatreya, Associate Professor, Computer Science
B.Tech., Indian Inst. of Technology, Madras, 1975
M.E., Indian Inst. of Science, 1977
Ph.D., Indian Inst. of Science, 1981

Articles in Refereed Journals

Estimation of peer-to-peer network's bursty-traffic parameters
G. R. Dattatreya and L. N. Singh
WSEAS Transactions on Computers, **4** (December 2005) 1725 - 1732

Relationships among different models for discrete-time queues
G. R. Dattatreya and L. N. Singh
WSEAS Transactions on Systems, **4 (8)** (August 2005) 1183 – 1190

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Hurst parameter estimation from noisy observations of data traffic traces
G. R. Dattatreya
*WSEAS International Conference on Electronics, Control, and Signal
Processing*, (Nov. 17 - 19, 2005) Miami Florida

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L. N. Singh and G. R. Dattatreya
IEEE 62nd Semiannual Vehicular Technology Conference (VTC F05),
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G. R. Dattatreya and L. N. Singh
*5th WSEAS International Conference on Applied Electromagnetics,
Wireless and Optical Communications*, Corfu Island, Greece, (August 23-

25, 2005)

Grants Awarded and Continued: Principal Investigator

Developing Advanced Middleware for Convergence of IT and Telecommunications

G. R. Dattatreya (with F. Bastani, L. Khan, and I. -L. Yen)

Alcatel Networks, \$ 227,500 (January 15, 2004 - January 15, 2005)

Jing Dong, Assistant Professor, Computer Science

B.Sc., Peking University, 1992

M.Math, University of Waterloo, Canada, 1997

Ph.D., University of Waterloo, Canada, 2002

Articles in Conference Proceedings

Evolving Design Patterns Based on Model Transformation

Jing Dong, Sheng Yang and Dung T. Huynh

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Teaching Experiences with UML at The University of Texas at Dallas

Kendra Cooper, Jing Dong, Kang Zhang and Lawrence Chung

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Specifying Behavioral Semantics through Graph Transformation

Jun Kong, Guanglei Song and Jing Dong

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Grammar-Specified Model-Driven Architectures

Jun Kong, Kang Zhang and Jing Dong

Proceedings of the International Workshop on Using Metamodels to Support MDD, in Conjunction with ICECCS, China, June 2005; IEEE (2005)

A COTS Architectural Component Specification Stencil for Selection and Reasoning

Jing Dong, Sheng Yang, Lawrence Chung, Paulo Alencar and Donald

Cowan

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Jing Dong, Shanguo Chen and Jun-Jang Jeng

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Jun Kong, Kang Zhang, Jing Dong and Guanglei Song

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Ding-Zhu Du, Professor, Computer Science

M.S., Chinese Academy of Sciences, 1982

Ph.D., University of California, Santa Barbara, 1985

Edited Book

Resource Management in Wireless Networking

M. Cardei, I. Cardei and D.-Z. Du

Boston, Springer (January 10, 2005) 695 p.

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Ding-Zhu Du and Frank K. Hwang

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A Combination of Wireless Multicast Advantage and Hitch-hiking

My T. Thai, Yingshu Li and Ding-Zhu Du

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Improving Wireless Sensor Network Lifetime through Power Aware

Organization
Mihaela Cardei and Ding-Zhu Du
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On Greedy Construction of Connected Dominating Sets in Wireless Networks
Yingshu Li, My T. Thai, Feng Wang, Chih-Wei Yi, Pengjun Wan and Ding-Zhu Du
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Efficient Broadcast Tree with Hitch-Hiking in Wireless Networks
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On the Construction of Stable Virtual Backbones in Mobile Ad-Hoc Networks
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New construction on broadcast encryption and key distribution scheme
Scott C.-H. Huang and Ding-Zhu Du
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András Faragó, Professor, Computer Science
B.Sc., Technical University of Budapest, 1976
M.Sc., Technical University of Budapest, 1979
Ph.D., Technical University of Budapest, 1981
Doctor of the Hungarian Academy of Sciences, 1996
Doct. Habil., Technical University of Budapest, 1997

Articles in Refereed Journals

On the Typical Case Complexity of Graph Optimization
A. Farago
Discrete Mathematics **153** (December 2005) 73-88

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New Analytical Results on Ad Hoc Network Connectivity

A. Farago
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126-131

Almost Surely Almost Exact Optimization in Random Graphs
A. Farago
International Conference on Foundations of Computer Science (FCS'05)
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A. Farago
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N. Meghanathan and A. Farago
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N. Meghanathan and A. Farago
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H. Wang, A. Farago and S. Venkatesan
7th IEEE International Symposium on Multimedia (ISM'05)
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Grants Awarded and Continued: Principal Investigator

Meta-MAC Protocols: A New Dimension to Adaptation in Medium Access Control

A. Faragó
NSF \$321,760 (2001-2005)

MERIT: A Formal Framework for Systematic Protocol Assessment

A. Faragó
NSF \$431,086 (2002-2007)

John P. Fonseka, Professor, Electrical Engineering
B.S., University of Moratuwa, Sri Lanka, 1980
M.Eng., Memorial University of Newfoundland, 1985
Ph.D., Arizona State University, 1988

Articles in Referred Journal

Soft Decision Differential Phase Detection of Turbo Coded M-ary FSK Signals over Ricean Channels
Elmer Cura-Perez and John P. Fonseka
IEEE Transactions on Vehicular Technology, VT-54 (Nov. 2005) 1722-1728

William R. Frensley, Professor, Electrical Engineering
B.S., California Inst. of Technology, 1973
Ph.D., University of Colorado, 1976

Grants Awarded and Continued: Principal Investigator

Predictive Modeling for Intersubband Quantum Devices Grown by MBE

William R. Frensley
Air Force Office of Scientific Research \$30,072 (2005-2006)

Andrea Fumagalli, Professor, Electrical Engineering
Laurea, Politecnico di Torino, 1987
Ph.D., Politecnico di Torino, 1992

Articles in Refereed Journals

Efficient Computation of Multi-Component Failure Stratum Probabilities
Z. Pándi, M. Tacca and A. Fumagalli

IEEE Communications Letters **9 (10)** (2005) 939-941

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I. Cerutti and A. Fumagalli

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Z. Pandi, M. Tacca, and A. Fumagalli

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Cooperative and noncooperative ARQ protocols for microwave recharged sensor nodes

M. Tacca, P. Monti, and A. Fumagalli

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L. S. Tamil and A. Fumagalli

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A Threshold-based Blocking Differentiation Mechanism for all-Optical WDM Networks

S. Pitchumani, I. Cerutti and A. Fumagalli

Proceedings of the 7th International Conference on Transparent Optical Networks (ICTON 2005) Barcelona, Catalonia, Spain (July 2005)

Grants Awarded and Continued: Principal Investigator

Emerging Architectural Frameworks for Optical Networks

A. Fumagalli

CAPES/UT in kind \$89,954 (2005-2006)

NeTS-NR: Collaborative Research: High Speed Self-Configuring

Networks Based on Cost-Effective Plug-and-Play Optical Nodes
A. Fumagalli, F. Maloberti, S. Gregori, M. Tacca and R. Hui
NSF \$494,695 + \$220,000 (2004-2008)

Enabling Platforms Grid Computing for Scalable Virtual Organizations
A. Fumagalli
CNIT (Italian National Consortium of Telecommunications) \$200,000
(2003-2005)

Bruce Gnade, Professor, Electrical Engineering and Chemistry, Distinguished
Chair in Microelectronics

B.A., St. Louis University, 1976

Ph.D., Georgia Institute of Technology, 1982

Articles in Refereed Journals

Dopant Penetration through Hf-Silicate
M.A. Quevedo-Lopez, M.R. Visokay, J.J. Chambers, M.J. Bevan,
A. Lifatou, L. Colombo, M.J. Kim, B.E. Gnade and R.M. Wallace
Journal of Applied Physics **97** (2005) 043508

High Sensitivity Gas Permeability Measurement System for Thin Plastic
Films
A. Ranade, N.A. D'Souza, R.M. Wallace and B.E. Gnade
Revue of Scientific Instruments **76** (2005) 013902

Atomic transport and chemical stability of nitrogen in ultrathin HfSiON
gate dielectrics
C. Driemeier, K.P. Bastos, G.V. Soares, L. Miotti, R.P. Pezzi, I.J.R.
Baumvol, P. Panchaipetch, G. Pant, B.E. Gnade and R.M. Wallace
Applied Physics A: Materials Science & Processing **80** (2005) 1045-
1047

Wet Etch Release Process for Silicon Micromachined Structures using
Polystyrene Microspheres for Improved Yield
F. Mantiziba, I. Gory, G. Skidmore and B. Gnade
Journal of Microelectromechanical Systems **14** (2005) 598-602

Adsorption Kinetics of p-Nitrobenzenethiol Self-Assembled Monolayers
on a Gold Surface
A. Jakubowicz, H. Jia, R.M. Wallace and B. Gnade
Langmuir **21** (2005) 950-955

Layer-by-layer deposition of zirconium oxide films from aqueous

solutions for friction reduction in Si-based microelectromechanical devices

Jun-Fu Liu, Corina Nistorica, Igor Gory, George Skidmore, Fadzi Mantiziba and Bruce E Gnade
Thin Solid Films **292** (2005) 6

Tribological and wear studies of ALD and SILAR coatings for microelectromechanical devices

C. Nistorica, J.-F. Liu, I. Gory, G. Skidmore, F.M. Mantiziba, B.E. Gnade and J. Kim
Journal of Vacuum Science and Technology A **23**, (2005) 836

Nanotube Network Transistors from Peptide-Wrapped Single-Walled Carbon Nanotubes

M. Panhuis, S. Gowrisanker, D.J. Vanesko, C. Mire, H. Jia, H. Xie, R.H. Baughman, I.H. Musselman, B.E. Gnade, G.R. Dieckmann and R.K. Draper
Small **1** (2005) 820-823

Out-diffusion of La and Al from amorphous LaAlO₃ in direct contact with Si (001)

P.Sivasubramani, M.J. Kim, B.E. Gnade, R.M. Wallace, L.F. Edge, D.G. Schlom, H.S. Craft and J.P. Maria
Applied Physics Letters **86** (2005) 201901

Ultra-scaled hafnium silicon oxynitride gate dielectrics with excellent carrier mobility and reliability

M.A. Quevedo-Lopez, S.A. Krishnan, P.D. Kirsch, G. Pant, B.E. Gnade and R.M. Wallace
Applied Physics Letters **87** (2005) 262902

Articles in Conference Proceedings

HRTEM for Nano-Electronic Materials Research

M.J. Kim, R.M. Wallace and B.E. Gnade
Proceedings of the Characterization and Metrology for ULSI Technology, AIP Conference **788** Richardson, Texas (15-18 March 2005) 2005558

Thermal Stability Studies of Advanced Gate Stack Structures on Si(100)

P. Sivasubramani, P. Zhao, M.J. Kim, B.E. Gnade, R.M. Wallace, L.F. Edge, D.G. Schlom, G.N. Parsons and V. Misra
Proceedings of the Characterization and Metrology for ULSI Technology, AIP Conference **788** Richardson, Texas (15-18 March 2005) 156

Thermally Stable Mo_xSi_yN_z as a Metal gate Electrode for Advanced

CMOS Devices

P. Zhao, J. Kim, M.J. Kim, B.E. Gnade and R.M. Wallace
Proceedings of the Characterization and Metrology for ULSI Technology, AIP Conference 788 Richardson, Texas (15-18 March 2005) 152

$\text{Mo}_x\text{Si}_y\text{N}_z$ Metal Gate Electrode with Tunable Work Function for Advanced CMOS

P. Zhao, J. Kim, M.J. Kim, B.E. Gnade and R.M. Wallace
Extended Abstracts of the International Conference on Solid State Devices and Materials, Kobe, Japan, **A-8-1**, (2005) 848-849

High Performance Gate First HfSiON Dielectric Satisfying 45nm Node Requirements

M.A. Quevedo-Lopez, S.A. Krishnan, P.D. Kirsch, H.J. Li, J.H. Sim, C. Huffman, J.J. Peterson, B.H. Lee, G. Pant, B. E. Gnade, M. J. Kim, R. M. Wallace, D. Guo, H. Bu and T.P. Ma
2005 IEEE International Electron Devices Meeting (IEDM) Technical Digest, Washington, DC (November 2005) 437

Grants Awarded and Continued: Principal Investigator

Assemblers For Nanotechnology Applications And Manufacturing:
Enabling The Nanotechnology Era
Bruce Gnade and Robert Wallace
NIST (subcontract from Zyvex) \$275,000 (10/2003 -12/2006)

Study of Emitter Degradation

Bruce Gnade
Air Force SBIR (subcontract from Stellar Micro Devices) \$27,000
(11/2003-01/2005)

Very high information content displays for ultrahigh definition systems

B.E.Gnade and R.M.Wallace
US Army Soldier Systems Center \$356,511 (8/2004 – 9/2005)

Low temperature dielectrics for polycrystalline silicon thin film transistors on plastic substrates

B.E.Gnade and R.M.Wallace
US Army Soldier Systems Center \$111,664 (8/2004 – 9/2005)

Active devices on fiber: Building Blocks for computational fabric

B.E.Gnade and R.M.Wallace
US Army Soldier Systems Center \$152,235 (8/2004 – 9/2005)

Integration of Molecular Electronics with Scaled Silicon CMOS

B.E. Gnade
Texas Advanced Technology Program \$102,118 (11/2003 – 08/2004)

Improved Contacts to Thermoelectric Materials
B.E. Gnade
Marlow Industries \$26,275 (02/2004 - 02/2005)

Role of Microstructure on Metal Gates
B.E.Gnade, R.M.Wallace, and M.J. Kim
Semiconductor Research Corporation \$105,000 (07/2004 – 06/2007)

Materials and Supplies for SRC Research
B.E.Gnade and R.M.Wallace
Semiconductor Research Corporation \$40,000 (10/2004 – 02/2005)

Fabrication and Testing of Nanobench
B.E.Gnade
DARPA (subcontract from UHV Technologies) \$24,899 (07/2004-
07/2005)

Improved Contacts to Thermoelectric Materials
B.E. Gnade
Marlow Industries \$87,971 (2005-2006)

Woven Displays
B.E. Gnade
Raytheon \$100,000 (2005-2006)

Field Ionization Arrays based Micro Gas Analyzer
B.E. Gnade, R.M. Wallace and Tayo Akinwande
DARPA (subcontract from MIT) \$748,000 (UTD portion) (2005-2009)

Energy Conversion in Carbon Nanotubes
B. Gnade
Nanostar \$99,607 (2005)

Improved Barrier Properties in Flexible, Plastic Substrates
B. Gnade
Army Research Laboratory \$100,000 (2 option years for \$100,000/year)
(2005-2006)

High Power Vacuum GaN
B. Gnade
Air Force STTR (subcontract to Stellar Micro Devices) \$125,003 (2005-
2007)

Miniature Broadband Laser Magnetometer for ASW

B. Gnade

Office of Naval Research (subcontract to Polatomic) \$30,959 (2005-2006)

Limits of Organic TFTs for RFID applications

B. Gnade

Texas Instruments \$24,790 (2005-2006)

Multi-planar Emissive Flat Panel Displays

Duncan MacFarlane and B. Gnade

DARPA SBIR (subcontract to Stellar Micro Devices) \$24,996 (2005-2006)

Determination of Assembly Tolerances for Scaled MEMS/NEMS Devices

Bruce Gnade and Moon Kim

NIST (subcontract from Zyvex) \$75,134 (2005-2006)

Patents

Method of Removing Contaminants on a Substrate

M.A. Quevedo Lopez, R.M. Wallace, M. El Bouanani and B.E. Gnade

U.S. Patent No. 6,933,235 (August 23, 2005)

Matthew Goeckner, Associate Professor, Electrical Engineering

B.S., Southern Illinois University, Carbondale, 1982

B.S., Southern Illinois University, Carbondale, 1983

M.S. University of California, Los Angeles, 1984

Ph.D., University of Iowa, 1990

Articles in Refereed Journals

Spectroscopic study of gas and surface phase chemistries of fluorocarbon plasma in an inductively coupled modified gaseous electronics conference (mGEC) reactor

Baosuo Zhou, E.A. Joseph, L.J. Overzet, and M.J. Goeckner

Journal of Vacuum Science and Technology A **23** (2005) 1657-1667

Electron confinement on magnetic field lines

M.J. Goeckner, L.J. Overzet, G. Earle and J. Maynard

IEEE Transactions on Plasma Science **33** (2 I) (2005) 436-437

Gopal Gupta, Professor, Computer Science

B.S., Indian Inst. Of Technology, Kanput, India, 1985

M.S., University of North Carolina, Chapel Hill, 1987

Ph.D., University of North Carolina, Chapel Hill, 1992

Articles in Refereed Journals

Provably Correct Code Generation: A Case Study

Qian Wang and Gopal Gupta

Electronic Notes in Theoretical Computer Science **118 (1)**

(February 2005) 87-109

Articles in Edited Volumes: Conference Proceedings

Proceedings of the 21st International Conference on Logic Programming

M. Gabbrielli and G. Gupta

Springer Verlag Lecture Notes in Computer Science **3668** (2005) 400 p

Articles in Conference Proceedings

A Universal Service-Semantics Description Language

A. Bansal, S. Kona, L. Simon, A. Mallya, G. Gupta and T. Hite

Proceedings of the European Conference on Web Services (2005) 15p

A_r: A Real Time Action Description Language

L. Simon, A. Mallya and G. Gupta

Proceedings of Logic-based Program Synthesis and Transformation

Lecture Notes in Computer Science Springer Verlag (2005) 44-60

Towards Intelligent Services: A Case Study in Chemical Emergency Response

A. Bansal, K. Patel, G. Gupta, B. Raghavachari, J. Staves and D. Harris

International Conference on Web Services, IEEE Press

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Description Language for Service Semantics

L. Simon, A. Mallya, A. Bansal, G. Gupta and T. Hite

International Conference on Web Services, IEEE Press

(June 2005) 823-824

Towards a Universal Services Description Language

L. Simon, A. Mallya, A. Bansal, G. Gupta and T. Hite

International Conference on Next Generation Web Services Practices IEEE

Press (August 2005) 6 pages

Optimization with Mode-Directed Preferences
H-F Guo, B. Jayaraman, G. Gupta and M. Liu
ACM Conference on Principles and Practice of Declarative Programming
ACM Press (2005) 242-251

A VoiceXML-based Spoken Scripting Language for Voice-based Web Navigation
M. Nichols, Q. Wang and G. Gupta
Human Computer Interaction Conference Lawrence Erlbaum and Associates (July 2005) 8 pages

DAWN: Dynamic Aural Web Navigation
G. Gupta, S. Sunder Raman and M. Nichols
Human Computer Interaction Conference Lawrence Erlbaum and Associates (July 2005) 8 pages

Dynamic Aural Browsing of MathML Documents with Voice XML
H. Reddy, G. Gupta and A. Karshmer
Human Computer Interaction Conference Lawrence Erlbaum and Associates (July 2005) 8 pages

Rapidly Prototyping Implementation Infrastructure of Domain Specific Languages: A Semantics-based Approach
Qian Wang and G. Gupta
ACM Symposium on Applied Computing
ACM Press (2005) 1419-1426

Towards Provably Correct Code Generation via Horn Logical Continuation Semantics
Qian Wang, G. Gupta and M. Leuschel
Proceedings of the International Conference on Practical Aspects of Declarative Languages Springer Verlag (2005) 98-112

Grants Awarded and Continued: Principal Investigator

Research Resources for Parallel Computing: Networks, Computational Geometry and Logic Programming
Gopal Gupta (PI), R. Prakash, O. Daescu
National Science Foundation \$63,000 (2001-2005)

Horn Logic Denotations and Their Applications
Gopal Gupta
NSF \$27,000 (9/1999-8/2005)

Universal Services Description Language

G. Gupta
Metallect \$40,000 (9/2005-3/2006)

Buffer Overflow Attack-proofing
G. Gupta
AT&T \$33,000 (12/2004-6/2006)

John H. L. Hansen, Professor, Electrical Engineering;
Head, Electrical Engineering Department,
Distinguished Chair in Telecommunications Engineering
Professor, Speech and Hearing (Brain Behavioral Sciences)
B.S., Rutgers University, 1982
M.S., Georgia Institute of Technology; 1983
Ph.D., Georgia Institute of Technology, 1988

Articles in Refereed Journals

SpeechFind: Advances in Spoken Document Retrieval for a National
Gallery of the Spoken Word
J.H.L. Hansen, R. Huang, B. Zhou, M. Seadle, J.R. Deller, Jr.,
A.R. Gurijala, P. Angkititrakul
IEEE Trans. Speech & Audio Proc., Special Issue on Data Mining, **13 (5)**,
(September 2005) 712 - 730

Efficient Audio Stream Segmentation Via the T2 Statistic Based Bayesian
Information Criterion
B. Zhou, J.H.L. Hansen
IEEE Transactions Speech & Audio Proc. **13 (4)** (July 2005) 467-474

Rapid Discriminative Acoustic Modeling Based on Eigenspace Mapping
for Fast Speaker Adaptation
B. Zhou, J.H.L. Hansen
IEEE Transactions Speech & Audio Proc. **13 (4)** (July 2005) 554-564

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A Distributed/Integrated Approach to Dialect/Accent Classification
S. Gray and J.H.L. Hansen
IEEE ASRU: Automatic Speech Recognition Workshop, Cancun, Mexico,
(December 2005)

Advances in Word based Dialect/Accent Classification
R. Huang and J.H.L. Hansen
ISCA INTERSPEECH-2005/Eurospeech-2005, Lisbon, Portugal,

(September 2005) 2241-2244

In-Set/Out-of-Set Speaker Identification Based on Discriminative Speech Frame Selection

X. Zhang and J.H.L. Hansen

ISCA INTERSPEECH-2005/Eurospeech-2005, pp., Lisbon, Portugal, (September 2005) 2037-2040

Improved 'TEO' Feature-based Automatic Stress Detection Using Physiological and Acoustic Speech Sensors

E. Ruzanski, J.H.L. Hansen, D. Finan and J. Meyerhoff

ISCA INTERSPEECH-2005/Eurospeech-2005, Lisbon, Portugal, (September 2005) 2653-2656

Speaker Verification using Gaussian Mixture Models within Changing Real Car Environments

X. Zhang, J.H.L. Hansen, P. Angkititrakul and K. Takeda

ISCA INTERSPEECH-2005/Eurospeech-2005, Lisbon, Portugal, (September 2005) 2021-2024

Collaborative Voice Activity Detection for Hearing Aids

L. B. Grisoni and J.H.L. Hansen

ISCA INTERSPEECH-2005/Eurospeech-2005, Lisbon, Portugal, (September 2005) 2353-2356

Statistical Class-Based MFCC Enhancement of Filtered and Band-Limited Speech for Robust ASR

N. Morales, D.T. Toledano, J.H.L. Hansen, José Colás and Javier Garrido

ISCA INTERSPEECH-2005/Eurospeech-2005, Lisbon, Portugal, (September 2005) 2629-2632

Effects of Phoneme Characteristics on TEO Feature-based Automatic Stress Detection in Speech

E. Ruzanski, J.H.L. Hansen, J. Meyerhoff, G. Saviolakis and M. Koenig

IEEE ICASSP-2005: International Conference on Acoustics, Speech, and Signal Processing 1, Philadelphia, PA, (March 2005) 357-360

MFCC Compensation for Improved Recognition of Filtered and Band-Limited Speech

N. Morales, J.H.L. Hansen and D.T. Toledano

IEEE ICASSP-2005: International Conference on Acoustics, Speech, and Signal Processing 1, Philadelphia, PA, (March 2005) 521-524

Dialect/Accent Classification via Boosted Word Modeling

R. Huang and J.H.L. Hansen

IEEE ICASSP-2005: Inter. Conf. on Acoustics, Speech, and Signal Processing 1, Philadelphia, PA, (March 2005) 585-588

Towards an Intelligent Acoustic Front-End for Automatic Speech Recognition: Built-In Speaker Normalization (BISN)

U. Yapanel and J.H.L. Hansen

IEEE ICASSP-2005: Inter. Conf. on Acoustics, Speech, and Signal Processing 1, Philadelphia, PA, (March 2005) 949-952

General Issues in Environmental Noise Tracking for Robust In-Vehicle Speech Applications: Supervised vs. Unsupervised Acoustic Noise Analysis

M. Akbacak and J.H.L. Hansen

DSP for Vehicular and Mobile Systems, Sesimbra, Portugal, (September 3, 2005) M2-2

Speaker Source Localization using Audi-Visual Data and Array Processing based Speech Enhancement for In-Vehicle Environments

X.X. Zhang, J.H.L. Hansen, K. Takeda, T. Maeno and K. Arehart

DSP for Vehicular and Mobile Systems, Sesimbra, Portugal, (September 3, 2005) M2-3

Grants Awarded and Continued: Principal Investigator

Advances in Dialect Modeling and Classification

J. Hansen

U.S. Air Force \$100,000 (October 2005)

Modeling Driver Behavior - In-Vehicle Speech, Video, and Driver Biometrics: An International Collaboration

(Prime NEDO sponsor from Japan [K. Takeda]) PI (USA): J. Hansen

NEDO Foundation \$220,000 (2005-2008)

CSLR Corpus Center Membership - CU-Move In-Vehicle Speech Corpus

J. Hansen

Siemens \$26,000 (2005)

Strategies for Detection of Out-of-Set Speakers for Speaker Recognition

J. Hansen

U.S. Air Force \$120,000 (2004-2005)

Voice Stress Analysis to Predict Human Performance Degradation

J. Hansen

U.S. Army DoD Medical Research \$75,000 (June 2004-June2005)

Rich Transcription in Military and Multi-Lingual Speech
J. Hansen
SPAWAR Systems / U.S. Navy \$27,826 (February 2004-February 2005)

Sanda Harabagiu, Associate Professor, Computer Engineering
Computer Engineering Jonsson School Research Initiation Chair
Dipl. Engr., Polytechnic Inst. Of Bucharest, Romania, 1983
Doctorate, University of Rome, Tor Vergata, Italy, 1994
Ph.D., University of Southern California, Los Angeles, 1997

Edited Book

Question Answering
Sanda Harabagiu and Dan Moldovan
The Oxford Handbook of Computational Linguistics, edited By Rusian Mitkoiv
New York: Oxford Press (2005) 560-582

Articles in Conference Proceedings

Topic Themes for Multi-document Summarization
Harabagiu and F. Lacatusu
Proceedings of 28th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR 2005)
2005 Salvador, Brazil (August 2005) 202-209

Shallow Semantics for Relation Extraction
S. Harabagiu, C. Bejan and P. Morarescu
Proceedings of 19th International Joint Conferences on Artificial Intelligence IJCAI 2005 Edinburgh, Scotland (August 2005) 1061-1067

Temporal Context Representation and Reasoning
D. Moldovan, C. Clark and S. Harabagiu
Proceedings of 19th International Joint Conferences on Artificial Intelligence IJCAI 2005 Edinburgh, Scotland (August 2005) 1099-1105

Experiments with Interactive Question-Answering
S. Harabagiu, A. Hickl, J. Lehmann and D. Moldovan
Proceedings of the 43rd Annual Meeting of the Association for Computational Linguistics (ACL'05) 2005 Ann Arbor, MI (July 2005)
205-214

Grants Awarded and Continued: Principal Investigator

CARRER: Reference Resolution for Natural Language Processing
S. Harabagiu
NSF \$300,000 (2000-2005)

Computational Implicatures for Advanced Question Answering
S. Harabagiu
ARDA AQUAINT \$886,117 (2002-2005)

Answering Questions Using Inference and Advanced Semantics,
Sanda Harabagiu
AQUINAS \$3,026,438.62 (September 2004-March 2007)

Wenchuang (Walter) Hu, Assistant Professor, Electrical Engineering
B.S., Peking University, 1999
M.S.E.E., University of Notre Dame, 2001
Ph.D., University of Notre Dame, 2004

Articles in Refereed Journals

Effects of nanoimprinted patterns in tissue-culture polystyrene on cell
behavior

W. Hu, E. Yim, R. M. Reano, K. W. Leong and S. W. Pang
Journal of Vacuum Science Technology B, **23(6)**, (2005) 2984-2989

Electron beam nanolithography for the patterning of DNA rafts and
molecules

W. Hu, K. Sarveswaran, M. Lieberman and G. H. Bernstein
IEEE Transaction on Nanotechnology, **4 (3)** (May 2005) 312-316

Articles in Conference Proceedings

Effects of nanoimprinted patterns in tissue-culture polystyrene on cell
behavior

W. Hu, R. M. Reano and S. W. Pang
*49th International conference on Electron, Ion and Photon Beam
Technology and Nanofabrication (EIPBN)* Orlando, FL: (May 2005) 717-
722

Thermal response of nanoimprinted polymer films using CD-SAXS

R. L. Jones, C. L. Soles, E. K. Lin, W. Hu, R. M. Reano, S. W. Pang and
D. M. Casa
SPIE Photonics West San Jose, CA (January 22-27, 2005)

Stability of nanoimprinted polymer films

Ron L. Jones, Chris L. Soles, Edwin K. Lin, Walter Hu, Ron M. Reano, Stella W. Pang and D. M. Casa
49th International conference on Electron, Ion and Photon Beam Technology and Nanofabrication (EIPBN) Orlando, Fl: (May 2005)

Pattern fidelity in nanoimprinted films using CD-SAXS
R. L. Jones, C. L. Soles, E. K. Lin, W. Hu, R. M. Reano, S. W. Pang, S. J. Weigand, D. T. Keane and J. P. Quintana
Conference on Emerging Lithographic Technologies IX, San Jose, CA: (March 01-03, 2005) 415-422

Louis R. Hunt, Professor, Electrical Engineering
Director, Center for Systems, Communications, and Signal Processing
B.S., Baylor University, 1964
Ph.D., Rice University, 1970

Articles in Refereed Journals

Active Optical Lattice Filters
L. R. Hunt, V. Govindan, I. Panahi, J. Tong, G. Kannan, D. L. MacFarlane and G. Evans
EURASIP Journal on Applied Signal Processing, **10** (2005) 1452-1461

Articles in Conference Proceedings

Lattice Filter with Adjustable Gains and its Application in Optical Signal Processing
I. M. S. Panahi, G. Kannan, L. R. Hunt, D. L. MacFarlane and J. Tong
IEEE Statistical Signal Processing Conference, Bordeaux, France, (July 17-20, 2005) 321-326

Analysis and Synthesis of Optical Lattice Filters with Adjustable Gains
I. M. S. Panahi, G. Kannan, L. R. Hunt, D. L. MacFarlane, J. Tong and N. Spears
IEEE LEOS Summer Topical, San Diego, CA, (July 25-27, 2005) 29-30

Active Optical Lattice filters as Programmable ODE Solvers
L. R. Hunt, N. Spears, T. Constantinescu, G. Kannan, D. L. MacFarlane, I. M. S. Panahi, V. Ramakrishna and J. Tong
IEEE LEOS Summer Topical, San Diego, CA, (July 25-27, 2005) 33-34

Active Optical Lattice Filters
D. L. MacFarlane, J. Tong, L. R. Hunt, I. M. S. Panahi, T. Constantinescu, V. Ramakrishna, G. A. Evans and M. Christensen

IEEE LEOS Summer Topical, San Diego, CA, (July 25-27, 2005) 43-44

Jason P. Jue, Associate Professor, Computer Science
B.S., University of California, Berkeley, 1990
M.S. University of California, Los Angeles, 1991
Ph.D., University of California, Davis, 1999

Authored Books

Optical Burst Switched Networks
J. P. Jue and V. M. Vokkarane
New York: Springer (2005) 147 p.

Articles in Refereed Journals

Dual-Homing Protection in IP-over-WDM Networks
J. Wang, V. Vokkarane, R. Jothi, X. Qi, B. Raghavachari and J. P. Jue
IEEE/OSA Journal of Lightwave Technology, **23(10)** (October 2005)
3111-3124

Segmentation-Based Non-Preemptive Channel Scheduling Algorithms for
Optical Burst-Switched Networks
V. Vokkarane and J. P. Jue
IEEE/OSA Journal of Lightwave Technology, **23 (10)** (October 2005)
3125-3137

Dynamic Traffic Grooming in Optical Burst-Switched Networks
F. Farahmand, Q. Zhang and J. P. Jue
IEEE/OSA Journal of Lightwave Technology, **23 (10)** (October 2005)
3167-3177

Multicast Traffic Grooming in Wavelength-Routed WDM Mesh Networks
Using Dynamically Changing Light-Trees
X. Huang, F. Farahmand and J. P. Jue
IEEE/OSA Journal of Lightwave Technology, **23 (10)** (October 2005)
3178-3187

Dynamic Lightpath Protection in WDM Mesh Networks under
Wavelength-Continuity and Risk-Disjoint Constraints
S. Yuan and J. P. Jue
Computer Networks Journal (Elsevier), **48 (2)** (June 2005) 91-112

Articles in Conference Proceedings

Analysis of TCP over Optical Burst-Switched Networks with Burst Retransmission

Q. Zhang, V. Vokkarane, Y. Wang and J. P. Jue

Proceedings, IEEE Globecom 2005, St. Louis, MO: November 2005, *IEEE 4* (2005) 1978-1983

A Closed-Loop Rate-Based Contention Control for Optical Burst Switched Networks

F. Farahmand, Q. Zhang and J. P. Jue

Proceedings, IEEE Globecom 2005, St. Louis, MO: November 2005, *IEEE 4* (2005) 1989-1993

Coordinated Survivability in IP-over-Optical Networks with IP-Layer Dual-Homing and Optical-Layer Protection

V. Vokkarane, J. Wang and J. P. Jue

Proceedings, IEEE/CreateNet BroadNets 2005, Boston, MA: October 2005, *IEEE* (2005) 259-268

Evaluation of Burst Retransmission in Optical Burst-Switched Networks

Q. Zhang, V. Vokkarane, Y. Wang and J. P. Jue

Proceedings, IEEE/CreateNet BroadNets 2005, Boston, MA: October 2005, *IEEE* (2005) 297-303

Data Burst Grooming in Optical Burst-Switched Networks

F. Farahmand, Q. Zhang and J. P. Jue

Proceedings, IEEE/CreateNet BroadNets 2005, Boston, MA: October 2005, *IEEE* (2005) 312-322

A Multi-Layered Approach to Optical Burst-Switched Based Grids

F. Farahmand, M. De Leenheer, P. Thysebaert, B. Volckaert, F. De Turck, B. Dhoedt, P. Demeester and J. P. Jue

IEEE/CreateNet Fifth International Workshop on Optical Burst/Packet Switching (WOBS) 2005, Boston, MA: October 2005, *IEEE* (2005) 127-134

Anycast Routing in Optical Burst Switched Grid Networks

M. De Leenheer, P. Thysebaert, B. Volckaert, F. De Turck, B. Dhoedt, P. Demeester, F. Farahmand and J. P. Jue

31st European Conference on Optical Communication (ECOC) 2005, Glasgow, Scotland: (September 2005)

A Layered Architecture for Supporting Optical Burst Switching

F. Farahmand, J. Jue, V. Vokkarane, J.J.P. C. Rodrigues and M.M. Freire

Proceedings of Telecommunications 2005, Lisbon, Portugal: (July 2005)

IEEE (2005) 213-218

An Analytical Model for Shared Fiber-Delay Line Buffers in Asynchronous Optical Packet and Burst Switches

T. Zhang, K. Lu and J.P. Jue

Proceedings, IEEE ICC 2005, Seoul, Korea: (May 2005) *IEEE 3* (2005) 1636-1640

Burst Cloning: A Proactive Scheme to Reduce Data Loss in Optical Burst-Switched Networks

X. Huang, V.M. Vokkarane and J.P. Jue

Proceedings, IEEE ICC 2005, Seoul, Korea: (May 2005) *IEEE 3* (2005) 1673-1677

Minimum-Color Path Problems for Reliability in Mesh Networks

S. Yuan, S. Varma and J.P. Jue

Proceedings, IEEE Infocom 2005, Miami, FL: (March 2005) *IEEE 4* (2005) 2658-2669

Architectures and Performance of Fiber Delay Line Buffers in Packet-Based Multifiber Optical Networks

T. Zhang, K. Lu and J.P. Jue

Proceedings, IEEE/OSA Optical Fiber Communication Conference 2005, Anaheim, CA: (March 2005) *IEEE/OSA 1* (2005) 220-222

Grants Awarded and Continued: Principal Investigator

CAREER: Design and Analysis of Photonic Packet-Switched Networks

J.P. Jue

NSF \$320,954 (2002-2007)

Student Travel Support for BroadNets 2004 Conference

Jason P. Jue

NSF, \$16,000, (8/1/04-1/31/05)

NeTS-NR Collaborative Research: Multi-Layer Dual-Homing

Survivability for the Next-Generation Internet

Jason P. Jue

NSF, \$252,000 (9/1/04-8/31/07)

Murat Kantarcioglu, Assistant Professor, Computer Science

B.S., Middle East Technical University, 2000

M.S., Purdue University, 2002

Ph.D., Purdue University, 2005

Articles in Conference Proceedings

Security Issues in Querying Encrypted
Murat Kantarcioglu and Chris Clifton
*19th Annual IFIP WG 11.3 Working Conference on Data and Applications
Security 2005*, Storrs, CT (August 2005) 717-722

Nasser Kehtarnavaz, Professor, Electrical and Computer Engineering
B.S., University of Birmingham, England, 1982
M.S., Rice University, 1984
Ph.D., Rice University, 1987

Authored Book

Digital Signal Processing System-Level Design Using LabVIEW
N. Kehtarnavaz and N. Kim
Burlington, MA: Elsevier/Newnes (2005) 290 p.

Edited Conference Proceedings

*Proceedings of the SPIE Conference on Real-Time Imaging IX (Vol. No.
5671)*
N. Kehtarnavaz and P. Laplante (Editors)
Bellingham, WA: SPIE (2005) 263 p.

Articles in Refereed Journals

A Relational Approach to Zoom Tracking for Digital Still Cameras
V. Peddigari and N. Kehtarnavaz
IEEE Transactions on Consumer Electronics **51** (2005) 1051-1059

DWT-Based Scene Adaptive Color Quantization
N. Kim and N. Kehtarnavaz
Journal of Real-Time Imaging **11** (2005) 443-453

Real-Time Implementation Issues in Passive Auto Focusing for Digital
Still Cameras
M. Gamadia, V. Peddigari and N. Kehtarnavaz
Journal of Imaging Science and Technology **49** (2005) 114-123

Classification of Nonstationary Narrowband Signals Using Segmented
Chirp Features and Hidden Gauss-Markov Models
P. Ainsleigh, S. Greineder and N. Kehtarnavaz

IEEE Transactions on Signal Processing **53** (2005) 147-157

An Affine Invariant Curve Matching Method for Photo-Identification of Marine Mammals

C. Gope, N. Kehtarnavaz, G. Hillman and B. Wursig
Pattern Recognition Journal **38** (2005) 125-132

Articles in Conference Proceedings

Classification of EEG Signals Using Time-Frequency Representation

C. Gope, N. Kehtarnavaz and D. Nair

Proceedings of the International Joint Conference on Neural Networks
Montreal, Canada (2005) 2502-2507

LabVIEW-based Software-Defined Radio: 4-QAM Modem

N. Kim, N. Kehtarnavaz, M. Torlak and S. McCaslin

Proceedings of 9th World Multi-Conference on Systemics, Cybernetics, and Informatics

Orlando, FL (2005) Theme 2 - Paper No. 57

Real-Time Software Implementation of MP3 Player Using LabVIEW

S. Adhyapak, N. Kehtarnavaz, N. Kim and A. Moriat

Proceedings of 9th World Multi-Conference on Systemics, Cybernetics, and Informatics

Orlando, FL (2005) Theme 6 - Paper No. 54

Real-Time Implementation of Zoom Tracking on TI DM Processor

V. Peddigari and N. Kehtarnavaz

Proceedings of the SPIE Conference on Real-Time Imaging (Vol. 5671)
San Jose, CA (2005) 8-18

Grants Awarded and Continued: Principal Investigator

Gulf War Illness Research Program

N. Kehtarnavaz, I. Panahi, P. Loizou, A. Nosratinia, D. McFarlane
University of Texas Southwestern Medical Center \$64,800 (2005)

Image Blur Correction for Cell-Phone Cameras

N. Kehtarnavaz

Texas Instruments \$30,000 (2005)

Digital Camera Imagepipeline Improvements

N. Kehtarnavaz

Texas Instruments \$120,000 (2004-2007)

LabVIEW-Based Educational/Research Program in Signal and Image Processing

N. Kehtarnavaz and I. Panahi

National Instruments \$150,000 (2004-2007)

Latifur Khan, Associate Professor, Computer Science

B.Sc., Bangladesh Univ. of Engineering and Technology, 1993

M.S., University of Southern California, 1996

Ph.D., University of Southern California, 2000

Articles in Refereed Journals

A Study of the Model and Algorithms for Handling Location Dependent Continuous Queries

Manish Gupta, Manghu Tu, Latifur Khan, Farokh Bastani and I-Ling Yen

The International Journal of Knowledge and Information Systems (KAIS), Springer- Verlag, **8 (4)** (2005) 414-437

Hierarchical Clustering for Complex Data

Latifur Khan and Feng Luo

The International Journal on Artificial Intelligence Tools, World Scientific Publishers, **14 (5)** (2005) 791-810

A Framework for Effective Annotation of Information from Closed Captions Using Ontologies

Latifur Khan, Dennis McLeod and Eduard Hovy

The Journal of Intelligent Information Systems (JIIS), Kluwer Academic Publishers, **25 (2)** (2005) 181-205

The 6th International Workshop on Multimedia Data Mining (MDM/KDD2005)

Fatma Bouali, Latifur Khan and Florent Masseglia

SIGKDD Explorations **7 (2)** (2005) 148-150

Article in Edited Volumes

Classification Problems using Support Vector Machine in Data Mining

Latifur Khan and Mamoun Awad

Encyclopedia of Data Warehousing and Mining, Edited by John Wang Information Science Publishing, ISBN 1-59140-557-2, (2005)

Bayesian Networks

Ahmed Bashir, Latifur Khan and Mamoun Awad

Encyclopedia of Data Warehousing and Mining, Edited by John Wang

Information Science Publishing, ISBN 1-59140-557-2, (2005)

Articles in Conference Proceedings

Image Annotations By Combining Multiple Evidence & WordNet
Yohan Chin, Latifur Khan, Lei Wang and Mamoun Awad
*Proceedings of 13th Annual ACM International Conference on
Multimedia (MM 2005)*, Singapore (November 2005) 706-715

Improving Image Annotations using WordNet
Yohan Chin, Lei Wang and Latifur Khan
*Proceedings of International Workshop on Multimedia Information
Systems (MIS 2005)*, Sorrento, Italy (September 2005) 115-130

A Framework for a Video Analysis Tool for Suspicious Event Detection
Gal Lavee, Latifur Khan and Bhavani Thuraisingham
*Proceedings of Sixth International Workshop on Multimedia Data Mining
in conjunction with KDD 2005: The Eleventh ACM SIGKDD
International Conference on Knowledge Discovery and Data Mining*
Chicago, IL, USA, (August 2005) 79-84

Message Correlation in Automated Communication Surveillance through
Singular Value Decomposition
Ryan Layfield, Latifur Khan and Bhavani Thuraisingham
*Proceedings of Sixth International Workshop on Multimedia Data Mining
in conjunction with KDD 2005: The Eleventh ACM SIGKDD
International Conference on Knowledge Discovery and Data Mining*
Chicago, IL, USA, (August 2005) 85-88

Dependable Real-time Data Mining
Bhavani Thuraisingham, Latifur Khan, Chris Clifton, John Maurer and
Marion Certui
*Proceedings of 8th IEEE International Symposium on Object-oriented
Realtime Distributed Computing*, Seattle, Washington, (May 2005) 158-
165

Grants Awarded and Continued: Principal Investigator

Feature Extraction for Finding Images/Video
Latifur Khan
Nokia Research Center, Irving, Texas \$30,000 (2005)

Kamran Kiasaleh, Professor, Electrical Engineering
B.S., University of Southern California, 1981

M.S., University of Southern California, 1982
Ph.D., University of Southern California, 1986

Articles in Refereed Journals

Performance of APD-based, M-ary PPM Free-space Optical
Communication Systems in Atmospheric Turbulence
Kamran Kiasaleh
IEEE Transactions on Communications, **53(9)** (2005)1455-1461

Articles in Conference Proceedings

A Joint Pre-coding and Scheduling Technique for Multi-user MIMO
Systems
Feng Teng and Kamran Kiasaleh
39th Asilomar Conference on Signals, Systems and Computers, Monterey,
CA: (November 2005)

Receiver Architectures for On-Off-Keying, Free-Space Optical
Communications with Avalanche Photodiode Arrays
Michael Cole and Kamran Kiasaleh
Frontier in Optics, 89th OSA Annual Meeting, Laser Sciences XXI,
Tucson, AZ: (October 2005)

Impact of Turbulence on Multi-Wavelength Coherent Optical
Communications
Kamran Kiasaleh
SPIE Symposium on Optics & Photonics, San Diego, CA, 5892, (August
2005) 228-238

Performance of APD-based binary PPM FSO Systems
Kamran Kiasaleh
SPIE Symposium on Optics and Photonics, San Diego, CA, 5892 (August
2005) 239-252

Grants Awarded and Continued: Principal Investigator

Erlang Capacity of OFDMA 4th Generation Wireless System,
Kamran Kiasaleh
Restricted Research Gift from Texas Instruments, \$30,000 (9/1/2004-
8/31/2005)

Jiyoung Kim, Associate Professor, Materials Science and Engineering
B.S., Seoul National University, 1986

M.S., Seoul National University, 1988
Ph.D., University of Texas, Austin, 1994

Articles in Refereed Journals

Enhanced Adhesion of Cu Film on a Low-k Materials

Y.K. Ko, S. Lee, H.M. Lee, H.J. Yang, J.Y. Kim, J. Kim, J.H. Lee,
H.J. Shin, W.J. Nam and J.G. Lee

Journal of Korean Physics Society **47** (2005) S467-S470

Selective deposition of Co thin films for TFT gate electrode by non-optic
method; micro-contacting and MOCVD

H. Yang, T. Kwon, J. Lee, J. Kim, H. Shin, M. Sung and J. Lee

Journal of Korean Physics Society **47** (2005) S397-S400

Characteristics of Mo Based Alloys for Advanced Dual Metal Electrode
Applications

Taekwan Oh, Sanghee Won and J. Kim

Electronic Materials Letters **1** (2005) 155-159

Tribological and wear studies of coatings fabricated by atomic layer
deposition and by successive ionic layer adsorption an reaction for
microelectromechanical devices

C. Nistorica, J. Liu, I. Gory, G. Skidmore, F. Mantiziba, B. Gnade and
J. Kim

Journal of Vacuum Science and Technology A **23** (2005) 836 – 840

Dry Etching of TaN/HfO₂ Gate Stack Structure by Cl₂/SF₆/Ar Inductively
Coupled Plasma

M. Shin, S. Na, N. Lee, T. Oh, J. Kim, T. Lee and J. Ahn

Japanese Journal of Applied Physics **44 (7B)** (2005) 5811 – 5818

Articles in Refereed Conference Proceedings

Thermally Stable Mo_xSi_yN_z as a Metal gate Electrode for Advanced
CMOS Devices

P. Zhao, J. Kim, M.J. Kim, B.E. Gnade and R.M. Wallace

*Characterization and Metrology for ULSI Technology, AIP Conference
Proceedings*, Richardson, Dallas: 788 (March 2005) 152-155

Mo_xSi_yN_z Metal Gate Electrode with Tunable Work Function for
Advanced CMOS

P. Zhao, J. Kim, M.J. Kim, B.E. Gnade and R.M. Wallace

*Extended Abstracts of the International Conference on Solid State Devices
and Materials*, Kobe, Japan: (September 2005) 848-849

Nanotubes Alignment Using Magnetic Field and Self-Assembled Monolayers

D. Jeong, S. Won, H. Shin, J. Lee and J. Kim

International Conference on Electroceramics, Seoul, Korea,
(June 14, 2005) NM-10

In-situ Electrical Characterization on Nanotubes Using Nanomanipulators

D. Cha, R.M. Wallace, B.E. Gnade, M.J. Kim, D. Jeong and J. Kim

International Conference on Electroceramics, Seoul, Korea
(June 14, 2005) NM-30

Thermal Stability of Mo Based Metal Gate Stacks for Advanced CMOS Applications

T. Oh, B. Gnade, M.J. Kim, R.M. Wallace and J. Kim

International Conference on Electroceramics, Seoul, Korea
(June 14, 2005) P-I-14

ALD Metal Oxide Nanotube Fabrication

J. Kim, S. Won, D. Jeong, H. Shin and J. Lee

AVS 5th International Conference on Atomic Layer Deposition 2005, San Jose, CA (Aug. 10, 2005)

Thermal Stability of Amorphous LaAlO_3 Thin Films on Si(100) Deposited by Plasma Sputtering and Molecular Beam Deposition

P. Zhao, F.S. Aguirre-Tostado, J. Kim, M.J. Kim, B.E. Gnade and R.M. Wallace

SRC Techcon 2005, Portland, OR: (October 25, 2005)

The Effects of Nitrogen and Silicon Compositions on Work Function and Thermal Stability of $\text{Mo}_x\text{Si}_y\text{N}_z/\text{SiO}_2$ Gate Stack

P. Zhao, J. Kim, M. J. Kim, B. E. Gnade and R. M. Wallace

SRC Techcon 2005, Portland, OR: (October 24, 2005)

The Effect of Nitrogen Incorporation on the Thermal Stability of La, Hf-aluminate Gate Stacks on Silicon

P. Sivasubramani, P. Zhao, F.S. Aguirre-Tostado, J. Kim, M.J. Kim, B.E. Gnade and R.M. Wallace

AVS 52nd International Symposium (October 31, 2005)

Selective Atomic Layer Deposition (ALD) for Fabrication of Metal and Oxide Nanotubes

J. Kim, D. Jeong, S. Won, H. Shin and J. Lee

AVS 52nd International Symposium, Boston, MA (Nov. 2, 2005)

In-situ nano fabrication and electrical characterization for TiO₂ nanotubes using dual beam focused ion beam and nanomanipulator
D. K. Cha, J Huang, T Zheng, J.B Jeon, T.H Lee, Jiyoung Kim, R.M Wallace, B.E Gnade and M.J Kim
MRS Fall Symposium, Boston, MA: (November 29, 2005)

Grants Awarded and Continued: Principle Investigator

Advanced Gate Stack Capacitors
J. Kim
COSAR (subcontract from Hanyang Univ. (Korea)) \$120,000 + \$80,000 (EJS match) (09/2005 – 08/2007)

Stand-alone Nanotube Device Technology
J. Kim(PI), Moon Kim (Co-PI)
Center for Nano-structured Materials Technology (Agency of Ministry of Science and Technology, Korea)
\$180,000 + \$50,000 (EJS matching) (10/2005 – 03/2008)

Patents

Lower electrode structure of capacitor having diffusion barrier for ULSI memory and method for forming lower electrode structure of capacitor and capacitor
Jiyoung Kim
Korean Patent #1005434200000 (2005)

Moon J. Kim, Professor, Electrical Engineering
B.S., Arizona State University, 1984
M.S., Arizona State University, 1986
Ph.D., Arizona, State University, 1988

Articles in Refereed Journals

Dopant penetration studies through Hf silicate
M. Quevedo-Lopez, MR. Visokay, J.J. Chambers, M.J. Bevam, A. LiFatou, L. Colombo, M.J. Kim, B.E. Gnade and R.M. Wallace
Journal of Applied Physics **97** (2005) 043508

Outdiffusion of La and Al from Amorphous LaAlO₃ in Direct Contact with Si (001)
P. Sivasubramani, M.J. Kim, B.E. Gnade, R.M. Wallace, L.F. Edge, D.G. Schlom, H.S. Craft and J.-P. Maria
Applied Physics Letters **86** (2005) 201901

5 nm Ruthenium Thin Film as a Directly Plateable Copper Diffusion Barrier

T.N. Arunagiri, Y. Zhang, O. Chyan, M. El-Bouanani, M.J. Kim, K.H. Chen, C.T. Wu and L.C. Chen
Applied Physics Letters **86** (2005) 083104

In-situ Electrical Characterization of Nano-Interconnect Structures in the FIB D.K. Cha, Y. Ai, J. Huang, T. Zheng, R.M. Wallace, B.E. Gnade and M.J. Kim

Microscopy and Microanalysis **11** (Suppl 2) (2005) 818-819

Characterization of nanoscale local lattice strains in Si CMOS by convergent beam electron diffraction

J. Huang, D.K. Cha, P.R. Chidambaram, R.B. Irwin, P.J. Jones and M.J. Kim

Microscopy and Microanalysis **11** (Suppl 2) (2005) 2084-2085

Articles in Refereed Conference Proceedings

Thermally stable MoxSiyNz as a metal gate electrode for advanced CMOS devices

P. Zhao, J. Kim, M.J. Kim, B.E. Gnade and R.M. Wallace
Proceedings of the Characterization and Metrology for ULSI Technology, AIP Conference **788** Richardson, TX. (March 2005) 152-155

Thermal stability studies of advanced gate stack structures on Si (100)

P. Sivasubramani, P. Zhao, M.J. Kim, B.E. Gnade, R.M. Wallace, L.F. Edge, D.G. Schlom, G.N. Parsons and V. Misra
Proceedings of the Characterization and Metrology for ULSI Technology, AIP Conference **788** Richardson, TX. (March 2005) 156-160

HRTEM for nano-electronic materials research

M.J. Kim, R.M. Wallace and B.E. Gnade
Proceedings of the Characterization and Metrology for ULSI Technology, AIP Conference **788** Richardson, TX. (March 2005) 558-564

Low temperature integration of CdZnTe(211)B/Si(100) by wafer bonding

J. Huang, D.K. Cha, A. Kaleczyc, J.H. Dinan, R.W. Carpenter and M.J. Kim
Proceedings of the Electrochemical Society **Vol. 2005-06** (2005) 128-133

Activation process and bonding mechanisms of Si/LiNbO₃ and LiNbO₃/LiNbO₃ at room temperature

M.R. Howlader, T. Suga and M.J. Kim

Proceedings of the Electrochemical Society Vol. **2005-06** (2005) 319-325

Mo_xSi_yN_z Metal Gate Electrode with Tunable Work Function for Advanced CMOS

P. Zhao, J. Kim, M.J. Kim, B.E. Gnade and R.M. Wallace

Extended Extracts of the International Conference on Solid State Devices and Materials, Kobe, Japan, **A-8-1** (2005) 848-849

High Performance Gate First HfSiON Dielectric Satisfying 45nm Node Requirements M. A. Quevedo-Lopez, S. A. Krishnan, P. D. Kirsch, H. J. Li, J. H. Sim, C. Huffman, J. J. Peterson, B. H. Lee, G. Pant, B. E. Gnade, M. J. Kim, R. M. Wallace, D. Guo, H. Bu and T.P. Ma

2005 IEEE International Electron Devices Meeting (IEDM) Technical Digest, Washington, DC (November 2005) 437-440

Grants Awarded and Continued: Principal Investigator

Integration of CdTe(211)B/Si(100) by Wafer Bonding

M.J. Kim

NVESD, \$30,000 (05/2004-06/2005)

GOALI: Nanoscale characterization and development of ultra low-k dielectric xerogel films

M.J. Kim

NSF (subcontract from UNT), \$245,227 (08/2004-07/2007)

Characterization of Nanoscale Lattice Strain in CMOS Devices with Advanced TEM Techniques

M.J. Kim

SRC (\$70,000) (07/2004-06/2006)

KATECH-UTD International Collaboration on Nanotechnology

M.J. Kim

KATECH, \$286,980 (09/2004-06/2006)

KETI-UTD MEMS Project

M.J. Kim

KETI \$439,560 (07/2005-06/2007)

Integration and Defect Analysis: CdTe/Si System

M.J. Kim

Army-NVESD \$25,000 (09/2005-08/2006)

Nanocharacterization of Si CMOS Devices with STI Structure: Phase I

M.J. Kim

Micron Technologies, Inc. \$5,000 (10/2005-03/2006)

International Research Collaboration on Nanotechnology

M.J. Kim

KATECH \$300,000 (09/2005-08/2007)

Unrestricted Gift to support Nanoscale Strain Analysis Research

M.J. Kim

Texas Instruments \$10,000 (10/2005)

Unrestricted Gift to support Nanocharacterization Research

M.J. Kim

International SEMATECH, Inc. \$3,000 (11/2005)

Gil S. Lee, Associate Professor, Electrical Engineering
B.E., Kyungpook National University, Korea, 1975
M.E., Kyungpook National University, Korea, 1977
M.S., University of Texas, Austin, 1983
Ph.D., North Carolina State University, 1987

Articles in Refereed Journals

Sub-micron Matallic Electrothermal Actuators

J.S. Lee, D.S. Park, A.K. Nallani, G.S. Lee and J.B. Lee

Journal of Micromechanics and Microengineering **15** (2005) 322-327

Effects of Oxygen Plasma on Optical and Electrical Characteristics of
Multiwall Carbon Nanotubes Grown on a Four-Probe Patterned Fe Layer

J.S. Lee, A. Chandrashekar, B.M. Park, L.J. Overzet, and G.S. Lee

Journal of Vacuum Science and Technology **B 23** (2005) 1013-1017

Virtual Journal of Nanoscale Science & Technology **11 (21)** (2005)

<http://www.vjnano.org>

Plasma-Enhanced Chemical Vapor Deposition Growth of Fluorinated
Amorphous Carbon Thin Films Using C₄F₈ and Si₂H₆/He for Low-
Dielectric-Constant Intermetallic-Layer Dielectrics

H. Kim, J. Shin, D. Kwon, H. Seo and G.S. Lee

Japanese Journal of Applied Physics **44** (2005) 4886-4890

Ultralow-k silicon containing fluorocarbon films prepared by plasma
enhanced chemical vapor `deposition

Yoonyoung Jin, P.K. Ajmera, G.S. Lee and Varshni Singh

Journal of Electronic Materials **34** (2005) 1193-1205

Surface modification of silicon containing fluorocarbon films prepared by plasma enhanced chemical vapor deposition
Yoonyoung Jin, Yohannes Desta, Jost Goettert, G.S. Lee and P.K. Ajmera
Journal of Vacuum Science and Technology A **23** (2005) 666-670

Articles in Conference Proceedings

Multiwall Carbon Nanotubes Grown on a Four-probe Patterned Catalyst Layer for Chemical Sensor Applications
J.-S. Lee, A. Chandrashekar, K. Parikh, K. Cattanach, S. K. Manohar, L. Overzet and G. S. Lee
Transducers 05, Seoul, Korea, (June 5-9, 2005)

Grants Awarded and Continued: Principal Investigator

Nanotechnology Education
G.S. Lee (PI) and L. Overzet
Pohang Science and Technology University, \$100,000 (4/2005 – 3/2006)

KITECH Local lab
G.S. Lee (PI), D. J. Yang and L. Overzet
Korean Institute of Industrial Technology (KITECH) \$45,000 (10/2005 – 12/2005)

Hoi Lee, Assistant Professor, Electrical Engineering
B.Eng., Hong Kong University of Science and Technology, 1998
M.Ph., Hong Kong University of Science and Technology, 2000
Ph.D., Hong Kong University of Science and Technology, 2004

Articles in Refereed Journals

Design of Low-Power Analog Driver Based on Slew-Rate-Enhancement Circuit for CMOS Low-Dropout Regulators
H. Lee, P. K. T. Mok and K. N. Leung
IEEE Transaction on Circuits and Systems II, **52** (September 2005) 563-567

Switching Noise and Shoot-Through Current Reduction Techniques for Switched-Capacitor Voltage Doubler
H. Lee and P. K. T. Mok
IEEE Journal of Solid-state Circuits, **40** (May 2005) 1136-1146

Articles in Conference Proceedings

Low Voltage Analog Circuit Techniques Using Bias-Current Re-Utilization, Self-Biasing and Signal Superposition

H. Lee, K. N. Leung and P. K. T. Mok

Proceedings IEEE International Conference on Electronic Devices and Solid-State Circuits, (December 2005) 533-536

A 35 nW/pixel 2D Visual Motion Sensor

G. B. Zhang, H. Lee and J. Liu

Proceedings European Solid-State Circuits Conference, (September 2005) 419-422

A Continuous-Time Adaptive FIR Equalizer with INV-AIL Delay Line for 2.5Gb/s Data Communication

X. F. Lin, H. Lee and J. Liu

Proceedings IEEE Custom Integrated Circuits Conference, (September 2005) 413-416

A SC DC-DC Converter with Pseudo-Continuous Output Regulation Using a Three-Stage Switchable Opamp

H. Lee and P. K. T. Mok

IEEE International Solid-State Circuits Conference Digest of Technical Papers, (February 2005) 288-289

Jeong-Bong (J-B.) Lee, Associate Professor, Electrical Engineering

B.S., Hanyang University, Korea, 1986

M.S., Georgia Inst. Of Technology, 1993

Ph.D., Georgia Inst. Of Technology, 1997

Articles in Refereed Journals

Sub-micron metallic electrothermal actuators

Jeong-Soo Lee, Daniel S. Park, Arun Nallani, Gil Lee and J-B. Lee

Journal of Micromechanics and Microengineering, **15 (2)** (February 2005) 322-327

Thermo-optic photonic crystal light modulator

Mark Tinker and J-B. Lee

Applied Physics Letters, **86 (22)** (May 30, 2005) 221111-1-3,

Virtual Journal of Nanoscale Science & Technology (Selected for the June 13, 2005 issue)

Negative refraction in a Si-polymer photonic crystal membrane

E. Schonbrun, Mark Tinker, W. Park and J-B. Lee

IEEE Photonics Technology Letter, **17(6)** (June 2005) 1196-1198

Thermal and optical simulation of a photonic crystal light modulator based on the thermo-optic shift of the cut-off frequency

Mark Tinker and J-B. Lee

Optics Express, **13(18)** (September 2005) 7174-7188

Articles in Conference Proceedings

Micro lens array and micro claspers for high performance optoelectronic devices packaging

Nallani, T. Chen, J-B. Lee, D. Hayes and D. Wallace

Proceedings of the 13th international conference on solid-state sensors and actuators (Transducers '05) Seoul, Korea, (June 2005) 421-426

Wafer level optoelectronic device packaging using MEMS

A. Nallani, T. Chen, J-B. Lee, D. Hayes and D. Wallace

Proceedings of the Microtechnology for the New Millennium 2005 Conference, Seville, Spain, SPIE vol. **5836** (May 2005) 116-127

Negative refraction based on the superprism effect in a micromachined flexible photonic crystal

M. Tinker, J-B. Lee, E. Schonbrun and W. Park

Proceedings of the Microtechnology for the New Millennium 2005 Conference, Seville, Spain, SPIE vol. **5840** (May 2005) 147-154

Microassembled tunable MEMS inductor

N. Sarkar, D. Yan, M. Ellis, E. Horne, J-B. Lee, H. Lu, R. Mansour, A. Nallani and G. Skidmore

Proceedings IEEE Workshop on Micro Electro Mechanical Systems, Miami, FL, (January 2005) 183-186

Grants Awarded and Continued: Principal Investigator

Assemblers for Nanotechnology Applications and Manufacturing: Enabling the Nanotechnology Era

J.B. Lee

National Institute of Standard and Technology, a subcontract from Zyvex Corporation \$349,281 (June, 2002-October, 2006)

CAREER: Massive replication of RF/Microwave MEMS passives modules

J. B. Lee

National Science Foundation \$374,999 (May 1, 2001 – April 30, 2006)

Development of a microelectrode array technology for minimally invasive skin impedance probes

J.B. Lee

Vital Assist, Inc., New Orleans, LA \$ 30,000 (September, 2004 - May, 2005)

Neuro-micro-Transponders: Wireless Neural Control of Artificial Arms and Hands

J.B. Lee

DARPA DSO (Original award of \$ 8.7M to Zyvex Corporation, \$2.2M subcontract awarded to UTD, of which \$415,000 is my portion) (7/1/05 – 12/31/08)

Jin Liu, Associate Professor, Electrical Engineering

B.S., Zhongshan University, 1992

M.S., University of Houston, 1995

Ph.D., Georgia Institute of Technology, 1999

Articles in Refereed Journals

Power-Optimal Simultaneous Buffer Insertion/Sizing and Uniform Wire Sizing for Single Long Wires

R.M. Li, D. Zhou, J. Liu and X. Zeng

IEEE Transaction on Computer Aided Design **24** (December 2005) 1915-1924

A CMOS 0.25- μm Continuous-Time FIR Filter with 125 ps per Tap Delay as Fractionally Spaced Receiver Equalizer for 1Gbps Data Transmission

X.F. Lin, S. Saw and J. Liu

IEEE Journal of Solid-state Circuits, vol. **40** (March 2005) 593-602

On the Measurement of Common Mode Rejection Ratio

J. Zhou and J. Liu

IEEE Transactions on Circuits and Systems II **52** (January 2005) 49-53

Articles in Conference Proceedings

A 35 nW/pixel 2D Visual Motion Sensor

G. B. Zhang, H. Lee and J. Liu

Proceedings European Solid-State Circuits Conference, (September 2005) 419-422

A Continuous-Time Adaptive FIR Equalizer with INV-AIL Delay Line for 2.5Gb/s Data Communication

X. F. Lin, H. Lee and J. Liu

Proceedings IEEE Custom Integrated Circuits Conference (September 2005) 413-416

A 13.56MHz RFID Transponder Front-End with Merged Load Modulation and Voltage Doubler-Clamping Rectifier Circuits

Y. L. Li and J. Liu

Proceedings IEEE International Symposium on Circuits and Systems (May 2005) 5095-5098

A Delay Compensation Technique for N-phase Clock Generation with 2(N-1) Delay Units

X. Chen and J. Liu

Proceedings IEEE International Symposium on Circuits and Systems (May 2005) 4887-4890

Novel time-stamped pixel structure for high-speed 2D CMOS visual motion sensor

G. B. Zhang and J. Liu

Proceedings IS&T/SPIE Symposium on Electronic Imaging 5677 (January 2005) 55-66

Grants Awarded and Continued: Principal Investigator

High-frequency Low-noise Mixed-signal Adaptive Equalizer toward SOC Design of Data Transmission Circuits

Jin Liu, Co-PI: John Fonseca and David K. Johnson (Texas Instruments, Inc.)

NSF \$225,000 (01/01/2002-12/31/2005)

High-speed Data Communication Circuits

Jin Liu

Texas Instruments, Inc., \$100,000, (1/01/2005-12/31/2005)

Yang Liu, Assistant Professor, Engineering and Computer Science

B.S., Tsinghua University, 1997

M.S., Tsinghua University, 2000

Ph.D., Purdue University, 2004

Articles in Conference Proceedings

A* Based Segmentation and Classification of Dialog Acts in Multiparty Meetings

Matthias Zimmermann, Yang Liu, Elizabeth Shriberg and Andreas Stolcke

IEEE Automatic Speech Recognition and Understanding Workshop (ASRU)
San Juan, Puerto Rico (November, 2005)

Comparing HMM, Maximum Entropy, and Conditional Random Fields for Disfluency Detection
Yang Liu, Elizabeth Shriberg, Andreas Stolcke and Mary Harper
The International Speech Communication Association (ISCA) Lisboa, Portugal (September, 2005)

Does Active Learning Help Automatic Dialog Act Tagging in Meeting Data?
Anand Venkataraman, Yang Liu, Elizabeth Shriberg and Andreas Stolcke
The International Speech Communication Association (ISCA) Lisboa, Portugal (September, 2005)

Using Conditional Random Fields for Sentence Boundary Detection
Yang Liu, Andreas Stolcke, Elizabeth Shriberg and Mary Harper
43rd Annual Meeting of The Association for Computational Linguistics (ACL)
Ann Arbor, Michigan, U.S.A (June, 2005)

Structural Metadata Research in the EARS Program
Yang Liu, Elizabeth Shriberg, Andreas Stolcke, et al.
IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) Philadelphia, Pennsylvania, U.S.A (March, 2005)

Automatic Dialog Act Segmentation and Classification in Multiparty Meetings
Jeremy Ang, Yang Liu, and Elizabeth Shriberg
IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) Philadelphia, Pennsylvania, U.S.A (March, 2005)

Ying Liu, Assistant Professor, Computer Science
B.S., Nanjing University, China, 1995
M.S., Georgia Institute of Technology, 2001
Ph.D., Georgia Institute of Technology, 2005

Articles in Refereed Journals

Text Mining Biomedical Literature for Discovering Gene-to-Gene Relationships. A Comparative Study of Algorithms
Ying Liu, Shamkant B. Navathe, Jorge Civera, Venu Dasigi, Ashwin Ram, Brian J. Ciliax and Ray Dingledine

IEEE/ACM Transactions on Computational Biology and Bioinformatics
2 (2005) 62-76

Articles in Conference Proceedings

Drug Design by Machine Learning: Ensemble Learning for QSAR
Modeling

Ying Liu

*Proceedings of The Fourth International Conference on Machine
Learning and Applications (ICMLA'05)*, Los Angeles CA,
(December 15-17, 2005) 187-193

Investigation into Biomedical Literature Classification using
Support Vector Machines

N. Polavarapu, S. B. Navathe, R. Ramnarayanan, A. Haque, S.
Sahay and Ying Liu

*Proceedings of 2005 IEEE Computational Systems Bioinformatics
Conference (CSB2005)*, Stanford University, (August 8-11, 2005)

Philipos C. Loizou, Professor, Electrical Engineering

B.S. Arizona State University, 1989

M.S. Arizona State University, 1991

Ph.D., Arizona State University, 1995

Articles in Refereed Journals

Speech enhancement based on perceptually motivated Bayesian estimators
of the speech magnitude spectrum

P. Loizou

IEEE Transactions on Speech and Audio Processing **13** (2005) 857-869

The influence of noise on vowel and consonant cues

G. Parikh and P. Loizou

Journal of Acoustical Society of America **118** (2005) 3874-3888

Subspace algorithms for noise reduction in cochlear implants

P. Loizou, A. Lobo and Y. Hu

Journal of Acoustical Society of America **118** (2005) 2791-2793

Acoustic simulations of combined electric and acoustic hearing (EAS)

M. Dorman, A. Spahr, P. Loizou, C. Dana and J. Schmidt

Ear and Hearing **26** (2005) 371-380

Articles in Edited Volumes

Dichotic speech recognition by bilateral cochlear implant users
A. Mani, P. Loizou, A. Shoup, P. Roland and P. Kruger
Cochlear Implants, ed. by R. Miyamoto
Elsevier Science, **1273** (2004) 466-469

Articles in Conference Proceedings

Speech enhancement using a MMSE short-time spectral amplitude estimator with Laplacian speech modeling
B. Chen and P. Loizou
Proceedings of ICASSP-2005, Philadelphia, PA: (March 2005) 1097-1100

Optimizing virtual channel selection
K. Kasturi and P. Loizou
2005 Conference on Implantable Auditory Prostheses, Monterey, CA.: (August 2005)

Evaluation of the companding and other noise reduction strategies for cochlear implants
P. Loizou, K. Kasturi, L. Turicchia and R. Sarpeshkar
2005 Conference on Implantable Auditory Prostheses, Monterey, CA.: (August 2005)

Effect of filter spacing and correct tonotopic representation on melody recognition: Implications for cochlear implants
K. Kasturi and P. Loizou
Proceedings of ARO, New Orleans, LA: (Feb 2005)

Grants Awarded and Continued: Principal Investigator

Signal Processing Techniques for Cochlear Prosthesis
Philipos C. Loizou
National Institutes of Health \$60,000 (April 2004- April 2005)

Optimizing speech coding strategies for noise and music
Philipos C. Loizou
National Institutes of Health, \$1,400,000 (2005-2010)

Duncan MacFarlane, Professor, Electrical Engineering
Sc.B., Brown University, 1984
Sc.M., Brown University, 1985
Ph.D., Portland State University, 1989

M.B.A., Southern Methodist University, 1998
Licensed Professional Engineer, State of Texas

Articles in Refereed Journals

Active Optical Lattice Filters

L. Roberts Hunt, Vishnupriya Govindan, Issa Panahi, Jian Tong, Govind Kannan and Duncan L. MacFarlane
EURASIP Journal on Applied Signal Processing **2005:10** (2005)1452-1461

Articles in Conference Proceedings

Lattice filter with adjustable gains and its application in optical signal processing

I Panahi, G. Kannan, L. R. Hunt, D. L. MacFarlane and J. Tong
IEEE Statistical Signal Processing Workshop, Bordeaux, France, (July 17-20, 2005)

Active Optical Lattice Filters

Duncan MacFarlane, Jian Tong, L. Roberts Hunt, Issa Panahi, Tibi Constantinescu, V. Ramakrishna, Gary Evans and Marc Christensen
2005 IEEE LEOS Summer Topicals: Optical Signal Processing Theory, Technologies and Application San Diego, California, (July 25-27, 2005)

Analysis and synthesis of optical lattice filters with adjustable gains

I. M. S. Panahi, G. Kannan, L. R. Hunt, D. L. MacFarlane, J. Tong and N. S. Spears
2005 IEEE LEOS Summer Topicals: Optical Signal Processing Theory, Technologies and Application San Diego, California, (July 25-27, 2005)

Active optical lattice filters as programmable ODE solvers

L. R. Hunt, N. S. Spears, T. Constantinescu, G. Kannan, D. L. MacFarlane, I. M. S. Panahi, V. Ramakrishna and J. Tong
2005 IEEE LEOS Summer Topicals: Optical Signal Processing Theory, Technologies and Application San Diego, California, (July 25-27, 2005)

Photonic integrated circuitry

Duncan L. MacFarlane
IEEE LEOS Seminar, Dallas, Texas, (August 25, 2005)

Patents

Geographical Web Browser, Methods, Apparatus and Systems
Eric M. Dowling, Duncan L. MacFarlane and Mark N. Anastasi

US Patent No. 6,873,850 B2 (March 29, 2005)

Rym Mili, Associate Professor, Computer Science
Doctorat de Spécialité, University of Tunis, 1991
Ph.D., University of Ottawa, 1996

Articles in Refereed Journals

An Architecture for MAS Simulation Environments
R. Steiner, G. Leask and R. Mili
Environments for Multi-Agent Systems, Lecture Notes in Computer Science, vol. **3830**, Springer Verlag (2005)

Articles in Conference Proceedings

An Architecture for MAS Simulation Environments
R. Steiner, G. Leask and R. Mili
Environment for Multi-Agent Systems (E4MAS), Fourth ACM Conference on Autonomous Multi-Agent Systems, Utrecht, Netherlands, (July 15-29 2005)

Hlaing Minn, Assistant Professor, Electrical Engineering
B.E., Yangon Institute of Technology, Myanmar, 1995
M. Eng., Asian Institute of Technology, Thailand, 1997
Ph.D., University of Victoria, Canada, 2001

Articles in Refereed Journals

Differential Modulation for Two-User Cooperative Diversity Systems
P. Tarasak, H. Minn and V.K. Bhargava
IEEE Journal on Selected Areas in Communications: Special Issue on Differential and Noncoherent Wireless Communications **23 (9)**
(September 2005) 1891-1900

An Optimal Training Signal Structure for Frequency Offset Estimation
H. Minn and S. Xing
IEEE Transactions on Communications, **53 (2)** (February 2005) 343-355

Articles in Conference Proceedings

MIMO-OFDM Training Signal Design in the Presence of Frequency Offset and Phase Noise
H. Minn and N. Al-Dhahir

International Conference on Information and Communication Systems (ICICS 2005) Bangkok, (December 6-9, 2005) 263-267

A New Ranging Method for OFDMA Systems

H. Minn and X. Fu

IEEE Global Communications Conference (Globecom 2005) Dallas, 3 (November 28-December 2, 2005) 1435-1440

PAR-Constrained Training Signal Designs for MIMO OFDM Channel Estimation in the Presence of Frequency Offsets

H. Minn and N. Al-Dhahir

IEEE Vehicular Technology Conference (VTC 2005, Fall) Dallas, 3 (September 25-28, 2005) 1465-1470

Modified Data-Pilot-Multiplexed Scheme for OFDM Systems

X. Fu and H. Minn

IEEE Vehicular Technology Conference (VTC 2005, Fall) Dallas, 2 (September 25-28, 2005) 1011-1015.

TDMA-Type Preamble for Low Complexity Multi-User Frequency Synchronization in OFDMA Uplink

X. Fu and H. Minn

IEEE Vehicular Technology Conference (VTC 2005, Fall) Dallas, 2 (September 25-28, 2005) 1093-1097

Analysis of Incremental Relaying Protocol with RCPC in Cooperative Diversity Systems

P. Tarasak, H. Minn, and Y.H. Lee

IEEE Vehicular Technology Conference (VTC 2005, Fall) Dallas, 4 (September 25-28, 2005) 2537-2541

Improved Maximum Likelihood Frequency Offset Estimation Based on Likelihood Metric Design

H. Minn and P. Tarasak

IEEE International Conference on Communications (ICC 2005) Korea, 4 (May 16-20, 2005) 2150-2156

Training Signal Design for MIMO OFDM Channel Estimation in the Presence of Frequency Offsets

H. Minn and N. Al-Dhahir

IEEE Wireless Communications and Networking Conference (WCNC 2005)

New Orleans, 1 (March 13-17, 2005) 1-6

A New Multi-carrier Transceiver Based on the Discrete Cosine Transform

N. Al-Dhahir and H. Minn
IEEE Wireless Communications and Networking Conference (WCNC 2005)
New Orleans, **1** (March 13-17, 2005) 45-50

Neeraj Mittal, Assistant Professor, Computer Science
B.Tech., Indian Inst. of Technology, Delhi, India, 1995
M.S., University of Texas, Austin, 1997
Ph.D., University of Texas, Austin, 2002

Articles in Refereed Journals

Techniques and Applications of Computation Slicing
Neeraj Mittal and Vijay K. Garg
Distributed Computing (DC) **17 (3)** (March 2005) 251-277

Articles in Edited Volumes

A Critique of Java for Concurrent Programming
Vijay K. Garg and Neeraj Mittal
Distributed Systems Online, edited by Olivier Marin
Institute of Electrical and Electronics Engineers (IEEE) **6 (9)** (September 2005)

Articles in Conference Proceedings

Monitoring Stable Properties in Dynamic Peer-to-Peer Distributed Systems
Sathya Peri and Neeraj Mittal
Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS) Hyderabad, India: (December 12-15 2005)
Indian Association for Research in Computing Science (IARCS) **25** (2005) 420-431

An Efficient Distributed Group Mutual Exclusion Algorithm for Non-Uniform Group Access
Neeraj Mittal and Prajwal K. Mohan
International Conference on Parallel and Distributed Computing and Systems (PDCS) Phoenix, Arizona USA: November 14-16; *International Association of Science and Technology for Development (IASTED)* **17** (2005) 367-372

Time-efficient Layer-2 Auto-configuration for Cognitive Radios
Srikant Kuppa, Mansi Thoppian, Srinivasan Krishnamurthy, S. Venkatsan,

R. Chandrasekaran, Neeraj Mittal and Ravi Prakash
International Conference on Parallel and Distributed Computing and Systems (PDCS) Phoenix, Arizona USA: November 14-16; *International Association of Science and Technology for Development (IASTED)* **17** (2005) 459-464

A Distributed Algorithm for Path Restoration in Circuit Switched Communication Networks
S. Venkatesan, Maulin Patel and Neeraj Mittal
Symposium on Reliable and Distributed Systems (SRDS) Orlando, Florida USA: October 26-28; *Institute of Electrical and Electronics Engineers (IEEE)* **24** (2005) 226-236

Efficient Reduction for Wait-Free Termination Detection in a Crash-Prone Distributed System
Neeraj Mittal, Felix C. Freiling, S. Venkatesan and Lucia D. Penso
International Symposium on Distributed Computing (DISC) Cracow, Poland: September 26-29; *European Association for Theoretical Computer Science (EATCS)* **19** (2005) 93-107

A Dynamic Group Mutual Exclusion Algorithm using Surrogate-Quorums
Ranganath Atreya and Neeraj Mittal
International Conference on Distributed Computing Systems (ICDCS) Columbus, Ohio USA: June 6-9; *Institute of Electrical and Electronics Engineers (IEEE)* **25** (2005) 251-260

Dan Moldovan, Professor, Electrical Engineering and Computer Science
Dipl. Engr., Polytechnic Inst. of Bucharest, Romania, 1969
M.S., Columbia University, 1974
Ph.D., Columbia University, 1978

Edited Book

Question Answering
Sanda Harabagiu and Dan Moldovan
The Oxford Handbook of Computational Linguistics, edited By Rusian Mitkoiv
New York: Oxford Press (2005) 560-582

Articles in Refereed Journals

Automatic Discovery for Part-Whole Relations
Roxana Girju, Adriana Badulescu, Dan Moldovan

Computational Linguistics **32 (1)** (March 2006)

On the Semantics of Noun Compounds

Roxana Girju, Dan Moldovan, Marta Tatu, Daniel Antohe

Computer Speech and Language **19 (4)** (October 2005) 479-496

Article in Edited Volume

Identification of Textual Contexts

Ovidiu Fortu and Dan Moldovan

CONTEXT, ed. by a. Dey et al.

Springer Berlin/Heidelberg Verlag (2005) 169-182

Articles in Conference Proceedings

Exploiting Ontologies for Automatic Image Annotation

Munirathnam Srikanth, Joshua Varner, Mitchell Bowden and Dan Moldovan

Proceedings of the 28th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval, Video and Image

Salavdor, Brazil: (August 2005) 552-558

August 15-19, 2005: ACM SIGIR

Temporal Context Representation and Reasoning

Dan Moldovan, Christine Clark and Sanda Harabagiu

Nineteenth International Joint Conference on Artificial Intelligence

Edinburgh, Scotland, (May 2005) 1099-1104

July 30-August 5, 2005: IJCAI

PP-attachment Disambiguation Using Large Context

Marian Olteanu and Dan Moldovan

Proceedings of Human Language Technology Conference and Conference on Empirical Methods in Natural Language Processing, Vancouver,

Canada, (October 2005) 273-283

October 6-10, 2005; Association of Computational Linguistics

A Semantic Approach to Recognizing Textual Entailment

Marta Tatu and Dan Moldovan

Proceedings of Human Language Technology Conference and Conference on Empirical Methods in Natural Language Processing, Vancouver,

Canada, (October 2005) 371-378

October 6-10, 2005; Association of Computational Linguistics

A Semantic Scattering Model for the Automatic Interpretation of
Genitives

Dan Moldovan and Adriana Badulescu
*Proceedings of Human Language Technology Conference and Conference
on Empirical Methods in Natural Language Processing*, Vancouver,
Canada, (October 2005) 891-898
October 6-10, 2005; Association of Computational Linguistics

Experiments with Interactive Question-Answering
Sanda Harabagiu, Andrew Hickl, John Lehmann and Dan Moldovan
Proceedings of the 43rd Annual Meeting of the ACL, Ann Arbor, MI (June
25-30 2005) 205-214

Using Knowledge Extraction and Maintenance Techniques To Enhance
Analytical Performance
David Bixler, Dan Moldovan and Abraham Fowler
Proceedings of 2005 International Conference on Intelligence Analysis
McLean, VA, (May 2005)

Temporally Relevant Answer Selection
Dan Moldovan and Christine Clark
Proceedings of 2005 International Conference on Intelligence Analysis
McLean, VA, (May 2-4, 2005)

Higher Level Phonetic and Linguistic Knowledge to Improve ASR
Accuracy and its Relevance in Interactive Voice Response Systems
Mithun Balakrishna, Dan Moldovan and Ellis K. Cave
Proceedings of American Association for Artificial Intelligence
Pittsburg, PA (July 2005) 1-8

Grants Awarded and Continued: Principal Investigator

Research in Conversational Speech
D. Moldovan
InterVoice \$1,000,000 (2002-2007)

A Tool for Transforming WordNet into a Core Knowledge Base
D. Moldovan
NSF, \$695,400 (2001-2006)

Yu-Chung Vincent Ng, Assistant Professor, Computer Science
B.S., Carnegie Mellon University, 1997;
M.Eng., Cornell University, 1998;
M.S., Cornell University, 2002;
Ph.D., Cornell University, 2004

Article in Conference Proceedings

Machine Learning for Coreference Resolution: From Local Classification to Global Ranking

Vincent Ng

Proceedings of the 43rd Annual Meeting of the Association for Computational Linguistics (ACL-05), Ann Arbor, MI: (June 2005) 157-164

Supervised Ranking for Pronoun Resolution: Some Recent Improvements

Vincent Ng

Proceedings of the 20th National Conference on Artificial Intelligence (AAAI-05), Pittsburgh, PA: (July 2005) 1081-1086

Aria Nosratinia, Associate Professor, Electrical Engineering

B.S., University of Tehran, Iran, 1988

M.A.Sc., University of Windsor, Canada, 1991

Ph.D., University of Illinois, Urbana, 1996

Articles in Refereed Journals

Analysis of space-time coding in correlated fading channels

A. Hedayat, H. Shah and A. Nosratinia

IEEE Transactions on Wireless Communications, 4 (6) (November 2005) 2882 - 2891

Iterative list decoding of concatenated source/channel codes

A. Hedayat and A. Nosratinia

EURASIP Journal on Applied Signal Processing, vol. ASP.2005, no. 6, (June 2005) 954-960

Articles in Conference Proceedings

Opportunistic beamforming with limited feedback

S. Sanayei and A. Nosratinia

Asilomar Conference on Signals, Systems and Computers, Pacific Grove, CA. (2005) 648-652

Throughput analysis of selective repeat ARQ in fading wireless channels

K. Ausavapattanakun and A. Nosratinia

Asilomar Conference on Signals, Systems and Computers, Pacific Grove, CA. (2005) 41-45

Channel modeling and performance analysis in watermarking

H. Shah and A. Nosratinia
Asilomar Conference on Signals, Systems and Computers, Pacific Grove,
CA. (2005) 554-557

A hybrid ARQ scheme for resilient packet header compression
V. Suryavanshi and A. Nosratinia
Asilomar Conference on Signals, Systems and Computers, Pacific Grove,
CA. (2005) 36-40

Relaxed threaded space-time codes
M. Janani and A. Nosratinia
IEEE Globecom, St. Louis, MO (December 2005) 3038 – 3042

Convolutional coding for resilient packet header compression
V. Suryavanshi and A. Nosratinia
IEEE Globecom, St. Louis, MO (December 2005) 771 – 775

The multiplexing gain of wireless networks
A. Host-Madsen and A. Nosratinia
International Symposium on Information Theory (ISIT), Adelaide,
Australia, (September 2005) 2065-2069

Cooperation in wideband channels
R. Tannious and A. Nosratinia
*IEEE Signal Processing Advancements in Wireless Communications
(SPAWC)* New York, NY, (June 2005) 955 – 959

Linear equalizers for flat fading MIMO channels
A. Hedayat, A. Nosratinia and N. Al-Dhahir
*IEEE International Conference on Acoustics, Speech, and Signal
Processing (ICASSP)*, **3**, Philadelphia, PA, (March 2005) iii/445 - iii/448

Exploiting multiuser diversity with only 1-bit feedback
S. Sanayei and A. Nosratinia
Wireless Communications and Networking Conference (WCNC), **2** New
Orleans, LA, (March 2005) 978-983

Space-time signaling in correlated channels
A. Hedayat, H. Shah, and A. Nosratinia
Wireless Communications and Networking Conference (WCNC), **1** New
Orleans, LA, (March 2005) 544-549

Generalized block space-time trellis codes: set-partitioning and code
design
M. Janani and A. Nosratinia

Wireless Communications and Networking Conference (WCNC), **1** New Orleans, LA, (March 2005) 461-465

On the design of linear precoders with limited feedback

S. Sanayei, D. Love, and A. Nosratinia

Wireless Communications and Networking Conference (WCNC), **1** New Orleans, LA, (March 2005) 489-493

Grants Awarded and Continued: Principal Investigator

NeTS-NR: Protocols and algorithms for cooperative wireless networks

Aria Nosratinia

National Science Foundation \$450,000 (2004-2008)

Enhanced high-speed data services in 3G cellular wireless networks

Aria Nosratinia

Texas Higher Education Coordinating Board \$141,500 (2004-2006)

Equipment Grant

Aria Nosratinia

TxTEC Consortium \$10,000 (2005)

Mehrdad Nourani, Associate Professor, Electrical Engineering

B.S. University of Tehran, Iran, 1984

M.S., University of Tehran, Iran, 1986

Ph.D., Case Western Reserve University, 1993

Articles in Refereed Journals

FITS: An Integrated ILP-Based Test Scheduling Environment

J. Chin and M. Nourani

IEEE Transactions on Computers, **54 (12)** (December 2005) 1598-1613

Reduced Complexity 1-Bit High-Order Digital Delta-Sigma Modulator for Low-Voltage Fractional-N Frequency Synthesis Applications

B. Bornoosh, R. Dehghani, M. Mehrara, A. Afzali-Kusha, S. M. Atarodi and M. Nourani

IEEE Proceedings Circuits, Devices & Systems, **152 (5)** (October 2005) 471-477

Throughput Increase in Packet Forwarding Engines Using Adaptive Block-Selection Scheme

M. Akhbarizadeh and M. Nourani

IEEE Communications Letters, **9 (9)** (September 2005) 838-840

TCAM Implementation of IP Forwarding Engine Using Prefix Segregation Scheme

M. Akhbarizadeh, M. Nourani and C. Cantrell
IEEE Micro Magazine, (July/August 2005) 48-63

Hardware-Based IP Routing Using Partitioned Lookup Table

M. Akhbarizadeh and M. Nourani
IEEE Transactions on Networking, **13** (4) (August 2005) 769-781

Nine-Coded Compression Technique for Testing Embedded Cores in SoCs

M. Tehranipour, M. Nourani and K. Chakrabarty
IEEE Transactions on VLSI, **13** (6) (June 2005) 719-731

Low-power Single- and Double-Edge-Triggered Flip-flops for High-Speed Applications

S.H. Rasouli, A. Khademzadeh, A. Afzali-Kusha and M. Nourani
IEEE Proceedings Circuits, Devices & Systems, **152** (2) (April 2005) 118-122

RL-Huffman Encoding for Test Compression and Power Reduction in Scan Applications

M. Nourani and M. Tehranipour
ACM Transactions on Design Automation of Electronic Systems, **10** (1) (January 2005) 91-115

Articles in Conference Proceedings

Low Transition LFSR for BIST-Based Applications

M. Tehranipour, M. Nourani and N. Ahmed
Proceedings of Asian Test Symposium (ATS'05), Kolkata, India, (December 2005) 138-143

A Key Management Scheme for Dividing/Merging Cluster Based Wireless Sensor Networks

R. Niati, N. Yazdani, M. Shiva and M. Nourani
Proceedings of International Conference on Networks (ICON), Kuala Lumpur, Malaysia, (November 2005) 358-362

Power-Supply Noise in SoCs: ATPG, Estimation and Control

M. Nourani and A. Radhakrishnan
Proceedings of the International Test Conference (ITC), Austin, TX, (November 2005) 22.1.1-22.1.10

Ripple-Precharge TCAM: A Low-Power Solution for Network Search Engines

D. Vijayasarithi, M. Nourani, M. Akhbarizadeh and P. Balsara
Proceedings of International Conference on Computer Design (ICCD),
San Jose, CA, (October 2005) 243-248

High-Speed and Low-Power Network Search Engine Using Adaptive Block-Selection Scheme

M. Akhbarizadeh, M. Nourani, R. Panigrahy and S. Sharma
Proceedings of the IEEE Symposium on High Performance Interconnects (HOTI), Palo Alto, CA, (August 2005) 73-78

An Efficient Model for Performance Analysis of Asynchronous Pipeline Design Methods

M. Gholipour, K. Shojaee, A. Afzali-Kusha, A. Khademzadeh and M. Nourani
Proceedings of the International Symposium on Circuits and Systems (ISCAS), (Kobe, Japan), (May 2005) 5234-5237

Domino Logic with an Efficient Variable Threshold Voltage Keeper

A. Amirabadi, Y. Mortazavi, N. Moezzi-Madani, A. Afzali-Kusha and M. Nourani
Proceedings of the International Symposium on Circuits and Systems (ISCAS), Kobe, Japan, (May 2005) 1674-1677

Pattern Generation and Estimation for Power Supply Noise Analysis

M. Nourani, M. Tehranipoor and N. Ahmed
VLSI Test Symposium (VTS), Palm Springs, CA, (May 2005) 439-444

Grants Awarded and Continued: Principal Investigator

Signal Integrity: Fault Modeling and Testing in High-Speed SoCs

M. Nourani
National Science Foundation \$389,417 (2002-2007)

Scalable Multi-Search per Cycle TCAM Architectures for High-Speed Routers

M. Nourani
Cisco Systems Inc., \$87,000 (2004-2005)

Reverse Cache: A New Paradigm for Future CAM-Based Packet Forwarding and Classification

M. Nourani
University of Texas at Dallas Emmitt Project Award, \$60,000 (2005-2007)

Simeon C. Ntafos, Professor, Computer Science
B.S., Wilkes College, 1974
M.S., Northwestern University, 1977
Ph.D., Northwestern University, 1979

Articles in Conference Proceedings

Guarding a Terrain by Two Watchtowers
Pankaj K. Agarwal, Sergey Bereg, Ovidiu Daescu, Haim Kaplan, Simeon Ntafos and Binhai Zhu
Proceedings of the 21st Annual Symposium on Computational Geometry,
Area della Ricerca di Pisa, Italy (June 2005) 46355

Grants Awarded and Continued: Principal Investigator

TD ECS-TETC Undergraduate Expansion Program
Simeon Ntafos (PI) with John Fonseca and Kang Zhang
Texas Higher Education Coordinating Board \$156,007 (8/2005-8/31/07)

Raimund J. Ober, Professor, Electrical Engineering
M.Ph., Cambridge University, 1985
Ph.D., Cambridge University, 1987

Articles in Refereed Journals

State space realization of a three-dimensional image set with application to
noise reduction in fluorescent microscopy images of cells
R.J. Ober, X. Lai, Z. Lin and E.S. Ward
Multidimensional Systems and Signal Processing **16** (2005) 7-48

Noise suppression of point spread functions and its influence on
deconvolution of three-dimensional fluorescence microscopy image sets
X. Lai, Z. Lin, E.S. Ward and R.J. Ober
Journal of Microscopy **217** (2005) 93-108

The central residues of a T cell receptor sequence motif are key
determinants of autoantigen recognition in murine experimental
autoimmune encephalomyelitis
J. Huang, R.J. Ober and E.S. Ward.
European Journal of Immunology **35** (2005) 299-304

Conferring the binding properties of mouse FcRn onto the human ortholog

by sequential rounds of site-directed mutagenesis
J. Zhou, F. Mateos, R.J. Ober and E.S. Ward
Journal of Molecular Biology **345** (2005) 1071-1081

From sorting endosomes to exocytosis: an analysis of the roles of Rab4
and Rab11 GTPases
E.S. Ward, C. Martinez, C. Vaccaro, J. Zhou, Q. Tang and R.J. Ober
Molecular Biology of the Cell **16** (2005) 2028-2038

The Cramer Rao lower bound for parameter estimation in nonlinear
systems
Z. Lin, Q. Zou, E.S. Ward and R.J. Ober
IEEE Signal Processing Letters **12** (2005) 855-858

Engineering the Fc region of immunoglobulin G to generate reagents to
modulate in vivo antibody levels
C. Vaccaro, J. Zhou, R.J. Ober and E.S. Ward
Nature Biotechnology **23** (2005)1283-1288

Articles in Conference Proceedings

How accurately can a single molecule be localized in three dimensions
using a fluorescence microscope?
S. Ram, E.S. Ward and R.J. Ober
*Imaging, Manipulation, and Analysis of Biomolecules, Cells and Tissues
II. SPIE International Symposium on Biomedical Optics (BiOS)* **5699**
(2005) 426-435

Three-dimensional state space realization algorithm: noise suppression of
fluorescence microscopy images and point spread functions
X. Lai, E.S. Ward, Z. Lin, and R.J. Ober
*Three-dimensional and multidimensional microscopy: Image Processing
and Acquisition XII. SPIE International Symposium on Biomedical Optics
(BiOS)* **5701** (2005) 53-60

On the identifiability of bilinear systems
R.J. Ober, Z. Lin and Q. Zou
Proceedings of the IEEE Conference on Circuits and System (ISCAS 2005) 3769-
3772

The Cramer Rao lower bound for nonlinear systems and its biomedical
applications
Z. Lin, Q. Zou and R.J. Ober
*Proceedings of the IEEE Conference on Circuits and Systems (ISCAS
2005)* 338-1341

Simultaneous imaging of three focal planes in fluorescence microscopy for the study of cellular dynamics

P. Prabhat, S. Ram, E.S. Ward and R.J. Ober
Biophysical Journal, **88** (2005), 346a, Part 2

A novel approach to characterize the fundamental performance limit in quantitative optical microscopy: applications to single molecule fluorescence experiments

S. Ram, E.S. Ward and R.J. Ober
Biophysical Journal, **88** (2005), 664a, Part 2

Analysis of FcRn-mediated trafficking of IgGs at the single molecule level

R.J. Ober, C. Martinez, C. Vaccaro, J. Zhou, Q. Tang and E.S. Ward
Biophysical Journal, **88**(2005), 195a, Part 2

Single molecule studies of exocytic events

R.J. Ober, C. Martinez, C. Vaccaro, J. Zhou, Q. Tang, S. Ram and E.S. Ward

Abstract Book of Focus on Microscopy 2005, Jena, Germany, 20-23 March 2005, (2005) 168

Fundamental performance limit for the resolution of a fluorescence microscope

S. Ram, E.S. Ward and R.J. Ober

Abstract Book of Focus on Microscopy 2005, Jena, Germany, 20-23 March 2005 (2005) 233

Simultaneous imaging of multiple focal planes in fluorescence microscopy for the study of cellular dynamics

P. Prabhat, S. Ram, E.S. Ward, and R.J. Ober

Abstract Book of Focus on Microscopy 2005, Jena, Germany, 20-23 March 2005 (2005) 143

Grants Awarded and Continued: Principal Investigator

Image processing of immunological microscopy samples

R.J. Ober

National Institutes of Health \$261,607 (2004-2005)

Quantitative Aspects of Single Molecule Microscopy

Raimund J. Ober

National Institutes of Health (R01 GM071048) \$1 046 500 (1 May 2005 - 30 April 2009)

Lawrence J. Overzet, Professor Electrical Engineering
B.S.E.E., University of Illinois, 1983
M.S.E.E., University of Illinois, 1985
Ph.D., University of Illinois, 1988
Licensed Professional Engineer, State of Texas

Articles in Refereed Journals

SiO_xF_y passivation layer in silicon cryoetching
X. Mellhaoui, R. Dussart, T. Tillocher, P. Lefauchaux and P. Ranson, M.
Boufnichel and L. J. Overzet
Journal of Applied Physics **98** (2005) 104901 (10 pages)

Effect of surface temperature on plasma-surface interactions in an
inductively coupled modified gaseous electronics conference (mGEC)
reactor
B.S. Zhou, E. A. Joseph, S. P. Sant, L. J. Overzet and M. J. Goeckner
Journal of Vacuum Science and Technology A **23** (2005) 1657-67

Effects of oxygen plasma on optical and electrical characteristics of
multiwall carbon nanotubes grown on a four-probe patterned Fe layer
Jeong-Soo Lee, Anand Chandrashekar, Bong Mo Park, Lawrence J.
Overzet and G.S. Lee
Journal of Vacuum Science and Technology B **23** (2005) 1013-7
selected for the May 30, 2005 issue of *Virtual Journal of Nanoscale
Science & Technology*. The Virtual Journal, which is published by the
American Institute of Physics and the American Physical Society in
cooperation with numerous other societies and publishers, is an edited
compilation of links to articles from participating publishers, covering a
focused area of frontier research. <http://www.vjnano.org>.
Virtual Journal of Nanoscale Science & Technology **11**, Issue 21 (2005)

Electron confinement on magnetic field lines
M. J. Goeckner, L. J. Overzet, G. Earle and J Maynard
IEEE Transactions on Plasma Science **33** (2005) 436-7

Articles in Conference Proceedings

Correlation of Nano-Pore Structure to Integration Issues for Low-κ
Interconnects
Eric A. Joseph, M. J. Goeckner, L. J. Overzet, D. Gidley
and B.E.E. Kastenmeier
Advanced Metalization Conference, Montreal QC Canada: (Oct 21-23,
2004) *MRS proceeding of the Advanced Metallization Conference 2003*

edited by G. Ray, T. Smy, T. Ohta and M. Tsujimura (2004) 537-541

Nanotechnology using carbon nanotube
G.S. Lee (presenting) J.-S. Lee, A. Chandrashekar and L. Overzet
*Proceedings of the 2004 International Conference on Computers,
Communications and Systems*, Daegu, Korea
(November 26-27, 2004) 1–25

Grants Awarded and Continued: Principal Investigator

Help in determining the optical properties of various lamps
L. J. Overzet (PI) and M. J. Goeckner (Co-PI)
Raytheon Systems Company, \$1,000 (8/04)

Help in growth of thin organic films
L. J. Overzet (PI) and M. J. Goeckner (Co-PI)
Western Life Sciences, \$24,500 (11/04 – 11/05)

Renewal of Generation and stabilization of a carbon plasma
L. J. Overzet (PI) and G. S. Lee
Lockheed Martin Co. \$230,138 (2005)

Large Area Nanotube Growth Using Novel Atmospheric Pressure Plasmas
L. J. Overzet (PI) and G. S. Lee
Lockheed Martin Co. \$174,896 (1/04 – 12/04)

Pulsed Plasma Synthesis of New nanostructured Inorganic/Organic
Composite Materials
L. J. Overzet and M. J. Goeckner at UTD with R. Timmons at UT
Arlington
AFOSR-SPRING - \$120,000. (2005-2007)

Optical emission spectroscopy of Feedgas injection
L. Overzet and M. Goeckner
Entegris, \$11,264 (2005-2006)

Patents

Ion-Ion Plasma Processing with Bias Modulation Synchronized to Time-
Modulated Discharges
Sivananda K. Kanakasabapathy and Lawrence J. Overzet
U.S. Patent No. 6,875,700 (April 5, 2005)

Issa M.S. Panahi, Assistant Professor, Electrical Engineering
B.S., Tehran Polytechnic University, 1973
M.S., Florida Institute of Technology, 1978
Ph.D., University of Colorado, Boulder, 1988

Articles in Refereed Journals

Active Optical Lattice Filters

Louis R. Hunt, V. Govindan, Issa M.S. Panahi, Jian Tong, Govind Kannan, Duncan L. MacFarlane and Gary A. Evans
EURASIP Journal on Applied Signal Processing **10** (2005) 1452-1461

Articles in Conference Proceedings

An Efficient Finite Positivity Test Algorithm For Statistical Signal Processing Applications

Swamigathan Ganesan and Issa M.S. Panahi
IEEE Statistical Signal Processing Workshop, Bordeaux, France, (July 17-20, 2005) 5 pages

A Class of Quadratic FIR Filters with Applications to Spectral Shaping and Narrow Band Generation

Issa M.S. Panahi and Kripasagar Venkat
IEEE Statistical Signal Processing Workshop, Bordeaux, France, (July 17-20, 2005) 6 pages

Analysis and Synthesis of Optical Lattice Filters with Adjustable Gains

Issa M.S. Panahi, Govind Kannan, Louis R. Hunt, Duncan L. MacFarlane, Jian Tong and Nicholas Spears
IEEE, LEOS Conference, San Diego, CA, USA, (July 25-27, 2005)

Active Optical Lattice Filters as Programmable ODE Solvers

Louis R. Hunt, Nicholas Spears, T. Constantinescu, Govind Kannan, Duncan L. MacFarlane, Issa M.S. Panahi, V. Ramakrishna and Jian Tong
IEEE, LEOS Conference, San Diego, CA, USA (July 2005)

Lattice Filter With Adjustable Gains and Its Applications in Optical Signal Processing

Issa M.S. Panahi, Govind Kannan, Louis R. Hunt, Duncan L. MacFarlane and Jian Tong
IEEE Statistical Signal Processing Workshop, Bordeaux, France, (July 17-20, 2005)

Grants Awarded and Continued: Principal Investigator

LabVIEW-based Educational/Research Program in Signal and Image Processing

Issa M.S. Panahi and Nasser Kehtarnavaz

National Instruments, \$150,000 (Jan. 2004- Jan 2007)

Active Noise Control for Functional MRI-Brain Scanner system

Issa M.S. Panahi

University of Texas Southwestern Medical Center, Federally funded Research Program Project on Gulf War Syndrome, \$60,000 (Sep. 2005-Sep. 2006)

B. Prabhakaran, Associate Professor, Computer Science and Engineering
Ph.D., Indian Inst. Of Technology, Madras, India, 1995

Articles in Refereed Journals

MAC Layer Admission Control and Priority Re-allocation for Handling QoS Guarantees in Non-cooperative Wireless LANs

Ming Li and B. Prabhakaran

ACM/Springer Mobile Networks and Applications (MONET), **10 (6)**
(December 2005) 947-959

Real-time Classification of Variable Length Multi-attribute Motion Data

Chuanjun Li, Latifur Khan and B. Prabhakaran

Knowledge and Information Systems: An International Journal (KAIS),
Springer, (July, 2005)

Flexible Disk Scheduling Strategies for Multimedia Presentation Servers

S. Emilda, L. Jacob, O. Daescu and B. Prabhakaran

Multimedia Tools and Applications, Springer, **26 (1)** (February 2005) 81 – 99

Articles in Edited Volumes

Feature Selection for Classification of Variable length Multi-attribute Motions

Chuanjun Li, Latifur Khan and B. Prabhakaran

Multimedia Data Mining and Knowledge Discovery, edited by V. A. Petrushin and L. Khan
Springer (2005) 129-152

Middleware for Streaming 3D Progressive Meshes Over Lossy Networks

H. Li and B. Prabhakaran

Encyclopedia of Multimedia, edited by Borko Furht

Springer (2005) 409-416

Compressed progressive meshes

H. Li and B. Prabhakaran

Encyclopedia of Multimedia, edited by Borko Furht
Springer (2005) 84-85

Progressive Forest split

H. Li and B. Prabhakaran

Encyclopedia of Multimedia, edited by Borko Furht
Springer (2005) 714-715

Valence driven conquest

H. Li and B. Prabhakaran

Encyclopedia of Multimedia, edited by Borko Furht
Springer (2005) 857-858

Articles in Conference Proceedings

On Supporting Reliable QoS in Multi-hop Multi-rate Mobile Ad Hoc Networks

Ming Li and B. Prabhakaran

Proceedings of the First IEEE International Workshop on Next Generation Wireless Networks (WoNGeN'05), Goa, India, (December 18-21, 2005)

A Similarity Measure for Motion Stream Segmentation and Recognition
Chuanjun Li and B. Prabhakaran

Proceedings of the Sixth International Workshop on Multimedia Data Mining (MDM/KDD), Chicago, IL USA (August 2005) 89-94

Similarity Measure for Multi-Attribute Data

Chuanjun Li, B. Prabhakaran and S.Q. Zheng

Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2005), Philadelphia, PA USA (March 2005)
1149 - 1152

Grants Awarded and Continued: Principal Investigator

REU/CAREER: Animation databases

B. Prabhakaran

NSF (National Science Foundation) NSF Research Experience for Undergraduates (REU) Supplemental Award, IIS (Information & Intelligent Systems) REU/CAREER Award, IIS-0237954, \$6,000 (August 15, 2004- September 1, 2005)

3D Watermarking
B. Prabhakaran
AT&T Foundation, \$33,333 (December 2004 – June 2006)

CAREER: Animation databases
B. Prabhakaran
NSF (National Science Foundation) IIS (Information & Intelligent Systems) CAREER Award, IIS-0237954, \$400,000 (August 15, 2003 – 2008)

Storage, Retrieval, and Delivery of 3D Models and Multi-attribute Motion Data
B. Prabhakaran
US Army Research Office (ARO). Program: Discrete Mathematics and Computer Graphics, Mathematics Division. \$240,000 (September 2005 – August 2008)

Ravi Prakash, Associate Professor, Computer Science
B.Tech., Indian Inst. of Technology, Delhi, 1990
M.S., Ohio State University, 1991
Ph.D., Ohio State University, 1996

Articles in Refereed Journals

Causality and Spatial-Temporal Ordering of Events in Mobile Systems
R. Prakash and R. Baldoni
ACM/Kluwer Journal on Mobile Networks and Applications (MONET) **9**
5 (October 2004) 507-516

Articles in Conference Proceedings

Hop-Constrained Energy-Aware Routing in Wireless Sensor Networks
S.R. Gandham, M. Dawande and R. Prakash
Proceedings of the IEEE Globecom Conference, St. Louis, MO.
(November 2005) 5

Time-efficient layer-2 auto-configuration for cognitive radios
S. Krishnamurthy, M. Thoppian, S. Kuppa, R. Chandrasekaran, S. Venkatesan, N. Mittal and R. Prakash
Proceedings of the IASTED International Conference on Parallel and Distributed Computing and Systems (PDCS) Phoenix, Arizona (November 14-16, 2005)

SAN: Smart Ad hoc Networks
S.R. Gandham, S. Kuppa and R. Prakash
Proceedings of the IEEE Vehicular Technology Conference (VTC) Dallas,
TX. (September 2005) 1638-1642

Control Channel based MAC Layer Configuration, Routing and Situation
Awareness for Cognitive Radio Networks
S. Krishnamurthy, M. Thoppian, S. Venkatesan and R. Prakash.
Proceedings of MILCOM 2005, Atlantic City, New Jersey (October 2005)

Link Scheduling in Sensor Networks: Distributed Edge Coloring Revisited
S.R. Gandham, M. Dawande and R. Prakash
Proceedings of the IEEE Infocom 2005, Miami, FL (March 2005)

Adaptive IEEE 802.11 DCF Scheme with Knowledge-based Backoff
S. Kuppa and R. Prakash
*Proceedings of the IEEE Wireless Communications and Networking
Conference (WCNC)*, New Orleans, La. (March 2005) 63-68

Grants Awarded and Continued: Principal Investigator

CAREER Award: Resource management in mobile ad hoc
networks - the spatial dimension
Ravi Prakash
National Science Foundation \$250,000 (April, 2001 - March,
2006)

Self-configuring Hubless Wireless Networking: RFID Networking on
Ships
Ravi Prakash
Williams-Pyro, Inc./U.S. Navy, (\$65,000) (September 2004- June 2006)

US-Switzerland Cooperative Research: Reliable Communication Support
for Resource Management in Mobile Ad Hoc Networks
Ravi Prakash
National Science Foundation, (\$29,668) (September 2004-August 2006)

Balaji Raghavachari, Professor, Computer Science
B.Tech., Indian Inst. of Technology, 1984
M.S., Pennsylvania State University, 1992
Ph.D., Pennsylvania State University, 1992

Articles in Refereed Journals

Approximation algorithms for the capacitated minimum spanning tree problem and its variants in network design

R. Jothi and B. Raghavachari

ACM Transactions on Algorithms **1 (2)** (2005) 265-282

Dual-homing protection in IP-over-WDM networks

J. Wang, V. Vokkarane, R. Jothi, X. Qi, B. Raghavachari and J. Jue

IEEE/OSA Journal of Lightwave Technology, **23 (10)** (2005) 3111-3124

Articles in Conference Proceedings

Approximation algorithms for the minimum cardinality two-connected spanning subgraph problem

P. Gubbala and B. Raghavachari

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Grants Awarded and Continued: Principal Investigator

Hazardous materials contingency planning and emergency response information system

B. Raghavachari (PI) E.D. Harris and G. Gupta

U.S. Environmental Protection Agency \$2,000,000 (2001-2005)

Rama Sandireddy, Assistant Professor, Electrical Engineering

B.S., Regional Engineering Coll., India, 1996

M.S., University of Missouri-Rolla, 1999

Ph.D., Iowa State University, 2003

Articles in Refereed Journals

Scalable, Memory Efficient, High-Speed Algorithms for IP Lookups

Rama Sangireddy, Natsuhiko Futamura, Srinivas Aluru and Arun K. Somani

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Hui Wang, Sreekala Puduru and Rama Sangireddy

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Mohammad Saquib, Associate Professor, Electrical Engineering
B.S., Bangladesh University of Engineering and Technology, 1991
M.S., Rutgers University, 1995
Ph.D., Rutgers University, 1998

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O. Jegbefume, M. Saquib and M.Z. Win
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M. Habibul Islam, M. Saquib and N.Al-Dhahir
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1756-1760

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T. M. Ali, M. Saquib and M. Rice
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Y. Na and M. Saquib
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Y. Na, M. Saquib and G. Mandyam
Proceedings of Wireless Communications and Networking Conference,
New Orleans, LA: (13 -17 March 2005)

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Wireless Networks
M. Saquib
Nokia University Relations and Nokia Research Center, Irving, TX:
\$56,036 (September 2004-July 2005)

Adaptive Aggregation/Fragmentation of Network Abstraction Layer
(NAL) Units
M. Saquib
Nokia University Relations and Nokia Research Center, Irving, TX:
\$30,000 (June 2005-March 2006)

Adaptive Routing and Transmission Protocols for Multi-hop Wireless
Networks
M. Saquib
Project Emmitt \$30,000 (June 2005-May 2006)

Kamil Sarac, Assistant Professor, Computer Science
B.S., Middle East Technical University, Ankara, Turkey, 1994
M.S., University of California, Santa Barbara, 1997
Ph.D., University of California, Santa Barbara, 2002

Articles in Refereed Journals

Application Layer Reachability Monitoring for IP Multicast
Kamil Sarac and Kevin C. Almeroth
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Kamil Sarac and Kevin C. Almeroth
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Chao Gong and Kamil Sarac
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Sevcan Bilir, Kamil Sarac, and Turgay Korkmaz
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MA, USA: (November 6-9, 2005) 378-387

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Chao Gong, Trinh Le, Turgay Korkmaz, and Kamil Sarac
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P2cast: A Receiver-Controlled Communication Service for the Internet
Kamil Sarac
Eric Jonsson School of Engineering and Computer Science – (SAIAL Lab
Related Internal Grant) \$33,333 (April 2005 – August 2006)

Haim Schweitzer, Associate Professor, Computer Science
B.S., Tel Aviv University, 1982
Ph.D., The Hebrew University of Jerusalem, 1986

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Fast selection of linear features in image data
Feng Wu and Haim Schweitzer
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Pattern Recognition* San Diego, CA (June 2005)

Feature selection for learning from images
Feng Wu and Haim Schweitzer
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A Logic-Based Integral-Images Approach to Face Detection and Benchmarking Human Face Matching Performance over Changes in Photometric Conditions
Haim Schweitzer
TSWG \$630,000 (April 2003-June 2005)

Hsing-Mean (Edwin) Sha, Professor, Computer Science
B.S.E., National Taiwan University, 1986
M.A., Princeton University, 1991
Ph.D., Princeton University, 1992

Articles in Refereed Journals

Efficient Assignment and Scheduling for Heterogeneous DSP Systems
Z. Shao, Q. Zhuge, C. Xue and E. H.-M. Sha
IEEE Transaction on Parallel and Distributed Systems **16 (6)** (June 2005) 516-525

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Y. Chen, Z. Shao, Q. Zhuge, C. Xue, B. Xiao and E. H.-M. Sha

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*Proceedings of IEEE Asia and South Pacific Design Automation
Conference (ASP DAC 05)*, Shanghai, China (January 2005) 302-
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Grants Awarded and Continued: Principal Investigator

Design Space Exploration and Synthesis for Multiple-Mode
Embedded Systems
E. Sha
National Science Foundation \$210,000 (2003-2007)

The Development of Trustworthy Computing Course,
E. Sha
Microsoft \$50,000 (2005)

Embedded Systems Research
E. Sha
Wind River, Wind River University Program Grant,
Platform Software for Network Equipment and Development tools for
VxWorks \$100,000 (2004 -2005)

Embedded Systems Design and Optimization
E. Sha
Altera Corporation, Altera University Program Grant, QUARTUS II
development suites \$26,170 (2005)

Ivan H. Sudborough, Founders Professor, Computer Science
B.S., California State University, San Luis Obispo, 1966
M.S., California State University, Hayward, 1967
Ph.D., Pennsylvania State University, 1971

Articles in Refereed Journals

The sequential sum problem and performance bounds on the greedy
algorithm for the on-line Steiner problem
Z. Miller, M. Perkel, D. Pritikin and I.H. Sudborough
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Computation Theory (FCT) 2005*, (August 2005)

Anthony D. Sullivan, Senior Lecturer, Electrical Engineering
B.S., Fordham, University, 1960
M.S. George Washington University, 1970
Ph.S., The University of Texas at Dallas, 1982

Patents

Knowledge Management System and Method
Anthony D. Sullivan
U.S. Patent No. 6,820,071 (2005)

Marco Tacca, Senior Lecturer, Electrical Engineering
Ph.D., The University of Texas at Dallas, 2002

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Z. Pándi, M. Tacca and A. Fumagalli
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Microwave Recharged Wireless Sensors
P. Monti, M. Tacca, and A. Fumagalli
2005 IEEE International Conference on Communications, 2005, ICC 2005
Seoul, Korea (16-20 May 2005) 3290-3294

A threshold based on-line RWA algorithm with end-to-end reliability
guarantees
Z. Pandi, M. Tacca, and A. Fumagalli
*Proceedings of IFIP-IEEE 10th Working Conference on Optical Network
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447-453

Cooperative and noncooperative ARQ protocols for microwave recharged
sensor nodes

M. Tacca, P. Monti, and A. Fumagalli
*IEEE Proceedings of the Second European Workshop on Wireless Sensor
Networks, 2005* Istanbul, Turkey (31 January-2 February 2005) 45-56

Lakshman S. Tamil, Professor, Electrical Engineering
B.E., Madurai Kamaraj University, 1981
M.Tech., Indian Institute of Technology, Kharagpur, 1983
M.S., University of Rhode Island, 1989
Ph.D., University of Rhode Island, 1989

Articles in Conference Proceedings

Multi-terabit hybrid photonic switching and routing
L. S. Tamil and A. Fumagalli
Asia Pacific Optical Conference-2005 Beijing China: (November 4-7,
2005) *SPIE and Optical Society of China 6022IN* (2005) xx-xx (Invited
paper)

Bhavani Thuraisingham, Computer Science
B.Sc., University of Ceylon, 1975
M.Sc., University of Bristol, UK, 1977
M.S., University of Minnesota, 1984
Ph.D., University of Wales, UK, 1979

Edited Books

Web Information Management Security
Bhavani Thuraisingham and E. Ferrari
Artech House (2005)

Articles in Refereed Journals

Security Standards for Secure Semantic Web
Bhavani Thuraisingham
Computer Standards and Interface Journal (North Holland) (March 2005)

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Management System
Bhavani Thuraisingham
Data and Knowledge Engineering Journal (North Holland) (November
2005)

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Bhavani Thuraisingham
Journal of Database Management (January 2005)

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Bhavani Thuraisingham
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Articles in Conference Proceedings

A Framework for a Video Analysis Tool for Suspicious Event Detection
Gal Lavee, Latifur Khan and Bhavani Thuraisingham
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Ryan Layfield, Latifur Khan and Bhavani Thuraisingham
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Dependable Real-time Data Mining
Bhavani Thuraisingham, Latifur Khan, Chris Clifton, John Maurer and
Marion Certui
Proceedings of 8th IEEE International Symposium on Object-oriented
Realtime Distributed Computing, Seattle, Washington, (May 2005) 158-
165

Murat Torlak, Associate Professor, Electrical Engineering
B.S., Hacettepe University, Turkey, 1992
M.S., University of Texas, Austin, 1995
Ph.D., University of Texas, Austin, 1999

Articles in Conference Proceedings

Performance of Optimum Combining with Channel Estimation Errors
B. Kececioglu, M. Torlak and A. Kavak
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O. Ozdemir, M. Torlak and N. Al-Dhahir

Proceedings of IEEE Vehicular Technology Conference-Fall, Dallas, TX (September 25-28, 2005) 1988 – 1992

S. Venkatesan, Associate Professor, Computer Science

B.Tech., Indian Inst. of Technology, Madras, 1981

M.Tech., Indian Inst. of Technology, Madras, 1983

M.S., University of Pittsburgh, 1985

Ph.D., University of Pittsburgh, 1988

Articles in Refereed Journals

Low-Intrusive consistent disk checkpointing: A tool for digital forensics

S. Venkatesan and S. Sitaraman

Journal of Universal Computer Science **11(1)** (2005) 20--36

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R. Thurimella, S. Sitaraman and S. Venkatesan

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S. Sitaraman and S. Venkatesan

Proceedings of 3rd IEEE International Workshop on Information Assurance, College Park, MD (March 2005) 154-163

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S. Sitaraman, S. Krishnamurthy and S. Venkatesan

Proceedings of IEEE International Conference on Information Technology: Coding and Computing, Las Vegas, NV, April 2005

Energy Efficient Sensor, Relay and Base Station Placements for Coverage, Connectivity and Routing

M. Patel, R. Chandrasekaran, and S. Venkatesan

Proceedings of 24th IEEE International Performance, Computing and Communications Conference, Phoenix, AZ, (April 2005)

Grants Awarded and Continued: Principal Investigator

Network-Centric Operations and Warfare Modeling and Simulation

Integration Center
S. Venkatesan
Rockwell Collins, Inc \$200,000 (September 1, 2005-August 31, 2006)

Research and Development of 3GE-WLAN Seamless Handover for 3GPP
Evolution User Equipment
S. Venkatesan
ETRI, Korea (\$100,000) (September 2005-August 2006)

Development of sensor hardware and wireless network test beds
S. Venkatesan
Signal Technology \$90,000 (\$78,000 in cash and \$12,000 in new
equipment) (September 2005-December 2006)

Research in search technologies
S. Venkatesan
Sabre Holdings \$17,000 (2005)

Environment Monitoring in Warehouses using Sensors and Sensor
Networks
S. Venkatesan
Crystal Technology & Industries, Inc., \$35,000, (September 1 2005-
August 31, 2006)

A Sensor Network and Mobile Ad hoc Network Testbed
S. Venkatesan
Rockwell Collins, Inc. \$25,000 (2005)

Robert M. Wallace, Professor, Electrical Engineering and Physics
B.S., University of Pittsburgh, 1982
M.S., University of Pittsburgh, 1984
Ph.D., University of Pittsburgh, 1988

Articles in Refereed Journals

Outdiffusion of La and Al from amorphous LaAlO₃ in direct contact with
Si (001) P. Sivasubramani, M. J. Kim, B. E. Gnade, R. M. Wallace, L. F.
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Applied Physics Letters **86** (2005) 201901

Dopant Penetration through Hf-Silicate
M.A. Quevedo-Lopez, M.R. Visokay, J.J. Chambers, M.J. Bevan, A.
Lifatou, L. Colombo, M.J. Kim, B.E. Gnade, and R.M. Wallace
Journal of Applied Physics **97** (2005) 043508

Adsorption Kinetics of p-Nitrobenzenethiol Self-Assembled Monolayers on a Gold Surface

Jakubowicz, H. Jia, R.M. Wallace and B. Gnade
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Ranade, N.A. D'Souza, R.M. Wallace and B.E. Gnade
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Ultrascaled hafnium silicon oxynitride gate dielectrics with excellent carrier mobility and reliability

M. A. Quevedo-Lopez, S. A. Krishnan, P. D. Kirsch, G. Pant, B. E. Gnade, and R. M. Wallace
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C. Driemeier, K.P. Bastos, G.V. Soares, L. Miotti, R.P. Pezzi and J. Morais, I.J. R. Baumvol, R.M. Wallace and B.E. Gnade
Applied Physics A: Materials Science & Processing **80** (2005) 1045-1047

Articles in Edited Volumes

Materials Issues for High-k Gate Dielectric Selection and Integration

R.M. Wallace and G.D. Wilk
High Dielectric Constant Materials, VLSI MOSFET Applications, edited by H.R. Huff and D.C. Gilmer
Berlin, Heidelberg: Springer-Verlag (2005) 253-286

Dielectric Materials For Microelectronics

R.M. Wallace
Handbook of Electronic and Optoelectronic Materials, edited by S. Kasap and P. Capper
Berlin, Heidelberg: Springer-Verlag (2006)

Science and Technology of High-Dielectric Constant (K) Thin Films for Next Generation CMOS

R.M. Wallace and O.A. Auciello
Thin Films and Heterostructures for Oxide Electronics, edited by S. B. Ogale
Berlin, Heidelberg: Springer-Verlag (2005) 79-126

Articles in Conference Proceedings

High Resolution Profiling Using Ion Scattering and Resonant Nuclear Reactions

R.P.Pezzi, R.M.Wallace, M.Copel and I.J.R.Baumvol

Characterization and Metrology for ULSI Technology AIP Conference Proceedings **788** (2005) 571-578

HRTEM for Nano-Electronic Materials Research

M.J.Kim, R.M.Wallace and B.E.Gnade

Characterization and Metrology for ULSI Technology AIP Conference Proceedings **788** (2005) 558-564

Thermal Stability Studies of Advanced Gate Stack Structures on Si(100)

P. Sivasubramani, P.Zhao, M.J.Kim, B.E.Gnade, R.M.Wallace, L.F.Edge, D.G.Schlom, G.N.Parsons and V.Misra

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Thermally Stable $\text{Mo}_x\text{Si}_y\text{N}_z$ as a Metal gate Electrode for Advanced CMOS Devices

P.Zhao, J.Kim, M.J.Kim, B.E.Gnade and R.M.Wallace

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$\text{Mo}_x\text{Si}_y\text{N}_z$ Metal Gate Electrode with Tunable Work Function for Advanced CMOS

P. Zhao, J. kim, M.J. Kim, B.E. Gnade and R.M. Wallace

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2005 IEEE International Electron Devices Meeting (IEDM) Technical Digest, Washington, D.C. (2005) 437-440

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D.K. Cha, Yuming Ai, J. Huang, T. Zheng, R.M. Wallace, B.E. Gnade and M.J. Kim

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Thermal Stability of Amorphous LaAlO₃ Thin Films on Si(100) Deposited by Plasma Sputtering and Molecular Beam Deposition

P. Zhao, F.S. Aguirre-Tostado, J. Kim, M.J. Kim, B.E. Gnade and R.M. Wallace *SRC Techcon 2005*, Portland, OR: (October 25, 2005)

The Effects of Nitrogen and Silicon Compositions on Work Function and Thermal Stability of Mo_xSi_yN_z/SiO₂ Gate Stack

P. Zhao, J. Kim, M. J. Kim, B. E. Gnade R. M. Wallace
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Effect of Poly (3-hexylthiophene) Film Thickness on Organic Thin Film Transistor Properties

H. Jia, S Gowrisanker, G.K. Pant, R.M. Wallace and B.E. Gnade
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P. Sivasubramani, P. Zhao, F.S. Aguirre-Tostado, J. Kim, M.J. Kim, B.E. Gnade and R.M. Wallace
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P. Zhao, M.J. Kim, B.E. Gnade and R.M. Wallace
AVS 52nd International Symposium, Boston, MA: (November 2, 2005)

XPS Study of Se-passivated Si(100)

F.S. Aguirre-Tostado, R.M. Wallace, J. Zhu, G. Larrieu, E. Maldonado, W.P. Kirk and M. Tao
AVS 52nd International Symposium, Boston, MA: (November 1, 2005)

In-situ direct measurement of electrical properties of micron size Metal-Oxide-Silicon (MOS) capacitor by using Nanoprobe embedded Scanning Electron Microscopy (SEM)

T. Zheng, Y. Ai, D. K. Cha, J Huang, G. Pant, H. Jia, M. J. Kim, R. M. Wallace and Bruce Gnade
MRS Fall Symposium, Boston, MA: (November 28, 2005)

In-situ nano fabrication and electrical characterization for TiO₂ nanotubes using dual beam focused ion beam and nanomanipulator

D. K. Cha, J Huang, T Zheng, J.B Jeon, T.H Lee, Jiyoung Kim, R.M Wallace, B.E Gnade and M.J Kim
MRS Fall Symposium, Boston, MA: (November 29, 2005)

Enhanced Reliability In Ultra-Scaled HfSiON Gate Dielectrics Through Suppressed Crystallization

M. A. Quevedo-Lopez, S. A. Krishnan, P. D. Kirsch, H. J. Li, J. J. Peterson, B. H. Lee, G. Pant, B.E. Gnade, M. J. Kim and R. M. Wallace
IEEE Semiconductor Interface Specialists Conference, Washington, D.C.:
(December 1-3, 2005)

Patents

High permittivity silicate gate dielectric
J.M. Anthony, S.R. Summerfelt, G.D. Wilk and R.M. Wallace
U.S. Patent No. 6,841,439 (2005)

Method for removing contaminants from a substrate
M. A. Quevedo-Lopez, R.M.Wallace, M. El-Bouanani and B.E.Gnade
U.S. Patent No. 6,933,235 (2005)

Method of forming metal oxide gate structures and capacitor electrodes
G.D.Wilk, R.M.Wallace, J.M. Anthony and P. McIntyre
U.S. Patent No. 6,897,105 (2005)

Grants Awarded and Continued: Principal Investigator

Hydrogen barrier studies for FeRAM devices
R.M.Wallace and B.E.Gnade
Semiconductor Research Corporation (\$105,000/3 years + EJS match
\$123,000/3years) (7/1/05 – 7/1/08)

X-ray Diffraction Suite
R.M.Wallace
VonEhr Foundation (\$426,024 – matched with \$44,053 from SPRING,
\$15,623 from the Erik Jonsson School)

Plasma Enhanced Chemical Vapor Deposition Tool dor the Cleanroom
Research Laboratory
R.M.Wallace
Mykrolis Corporation, Equipment valued at \$75,000, matched with
\$23,817 from the Erik Jonsson School (new unit cost: \$250,000)

Diffusion of Gate Stack Constituents
R.M.Wallace
Semiconductor Research Corporation \$160,730 (4/2004 – 4/2006)

Hf-based metal gate stack stability research
R.M.Wallace and B.E.Gnade
Semiconductor Research Corporation \$105,000 (7/2004 – 7/2007)

Yuke Wang, Associate Professor, Computer Science
B.Sc., University of Science and Technology of China, 1989
M.Sc., University of Saskatchewan, Canada, 1992
Ph.D., University of Saskatchewan, Canada, 1996

Articles in Refereed Journals

Conference Key Establishment for Heterogeneous Networks
Wade Trappe, Yuke Wang and R. J. Liu
IEEE/ACM Transaction on Networking **13** (2005) 134-146

Articles in Conference Proceedings

Token bucket based statistical regulator for S-BIND modeled on-line traffic
Lie Qian, Yuke Wang and Hong Shen
2005 IEEE International Conference on Communications, ICC 2005, Korea (16-20 May 2005) *IEEE* **1** (2005) 125-129

A new coordinated scheduling algorithm in distributed bandwidth broker QoS architecture
A. Krishnamurthy, Lie Qian, Yuke Wang, P. Dauchy and A. Conte
2005 IEEE International Conference on Communications, ICC 2005, Korea, (16-20 May) *IEEE*, **1** (2005) 384-388

A new fair bandwidth allocation algorithm for multimedia multicasting in diffserv
Lie Qian, Yiyang Tang, Yuke Wang, B. Bou-Diab and W. Olesinski
IEEE Global Telecommunications Conference GLOBECOM 2005, St. Louis, MO. USA, (28 November-2 December 2005) *IEEE* **2** (2005) 847-851

Analysis of TCP over optical burst-switched networks with burst retransmission
Qiong Zhang, V.M. Vokkarane, Yuke Wang and J.P. Jue
IEEE Global Telecommunications Conference GLOBECOM 2005, St. Louis, MO. USA, (28 November-2 December 2005) *IEEE* **4** (2005) 1978-1983

Optimized software implementation of a full-rate IEEE 802.11a compliant digital baseband transmitter on a digital signal processor
Yiyang Tang, Lie Qian and Yuke Wang
IEEE Global Telecommunications Conference GLOBECOM 2005, St. Louis, USA, (28 November-2 December 2005) *IEEE* **4** (2005) 2194-2198

Evaluation of burst retransmission in optical burst-switched networks
Qiong Zhang, V.M. Vokkarane, Yuke Wang and J.P. Jue
2nd International Conference on Broadband Networks (October 3-7 2005)
297-303

W. Eric Wong, Associate Professor, Computer Science
B.S., Eastern Michigan University, 1988
M.S., Purdue University, 1991
Ph.D., Purdue University, 1993

Articles in Refereed Journals

Smart Debugging Software Architectural Design in SDL
W. E. Wong, T. Sugeta, Y. Qi and J. C. Maldonado
Journal of Systems and Software **76(1)** (April 2005) 15-28

Static and Dynamic Distance Metrics for Feature-Based Code Analysis
W. E. Wong and S. Gokhale
Journal of Systems and Software, **74(3)** (February 2005) 283-295

Coverage Testing of Java Programs and Components
A. Vincenzi, J. C. Maldonado, W. E. Wong and M. Delamaro
Journal of Science of Computer Programming, **56(1-2)** (April 2005) 211-230

An Approach of Integrating SIP in Converged Multimodal/Multimedia Communication Services
F. Liu, W. Guo, W. Chou and W. E. Wong
Journal of Telecommunication Systems, **28(3-4)** (March 2005) 387-405

Articles in Conference Proceedings

Effective Generation of Test Sequences for Structural Testing of Concurrent Programs
W. E. Wong, Y. Lei and X. Ma
Proceedings of The 10th IEEE International Conference on Engineering of Complex Computer Systems (ICECCS), Shanghai, China, (June 2005)
539-548

Source Code-Based Software Risk Assessing
W. E. Wong, Y. Qi and K. Cooper
Proceedings of The 20th ACM Symposium on Applied Computing (ACM SAC), Santa Fe, New Mexico, (March 2005) 1485-1490

- A Novel Framework for Non-deterministic Testing of Message-Passing Programs
Y. Lei and W. E. Wong
Proceedings of The 9th IEEE International Symposium on High Assurance Systems Engineering (HASE), Heidelberg, Germany (October 2005) 66-75
- Analyzing Message-Passing Programs through Visual Slicing
G. Shanmuganathan, K. Zhang, W. E. Wong and Y. Qi
Proceedings of IEEE International Conference on Information Technology (ITCC), Las Vegas, Nevada, (April 2005) 341-346
- An Empirical Study on the Specification of Components Using Fuzzy Logic
K. Cooper, J. Cangussu, R. Lin, S. Ganesan, R. Soundararadjane and W. E. Wong
Proceedings of The 8th International SIGSOFT Symposium on Component-based Software Engineering (CBSE), St. Louis, Missouri, (May 2005) (Lecture Notes in Computer Science by Springer, Volume **3489**) 155-170
- Optimizing and Simplifying Software Metric Models Constructed Using Maximum Likelihood Methods
V. Chan and W. E. Wong
Proceedings of The 29th IEEE International Computer Software and Applications Conference (COMPSAC), Edinburgh, Scotland, (July 2005) 65-70
- A Case Study of the Recursive Least Squares Estimation Approach to Adaptive Testing for Software Components
H. Hu, W. E. Wong, C. H. Jiang and K. Y. Cai
Proceedings of The 5th International Conference on Quality Software (QSIC), Melbourne, Australia, (September 2005) 135-141
- An Integrated Solution for Testing and Analyzing Java Applications in an Industrial Setting
W. E. Wong and J. J. Li
Proceedings of The 12th IEEE Asia-Pacific Software Engineering Conference (APSEC), Taipei, Taiwan, (December 2005) 576-583
- Modeling Reusable Security Aspects for Software Architecture: a Pattern Driven Approach
L. Dai, K. Cooper and W. E. Wong
Proceedings of The 17th International Conference on Software Engineering and Knowledge Engineering (SEKE), Taipei, Taiwan, (July 2005) 163-168

A Constraint Solver for Code-Based Test Data Generation
J. J. Li and W. E. Wong, X. Ma and D. Weiss
Proceedings of The 17th International Conference on Software Engineering and Knowledge Engineering (SEKE), Taipei, Taiwan, (July 2005) 300-305

An Agent-Based Testing Approach for Web Applications
Y. Qi, D. Kung and W. E. Wong
Proceedings of The Second International Workshop on Quality Assurance and Testing of Web-Based Applications (co-located with COMPSAC 2005), Edinburgh, Scotland, (July 2005) 45-50

A Run-Time Adaptable Persistency Service using the SMART Framework
J. Cangussu, K. Cooper, W. E. Wong and X. Ma
Proceedings of The 38th Hawaii International Conference on System Sciences (HICSS), Hawaii, USA, (January 2005)

Structural and Mutation Testing for SDL Specifications: A Case Study
T. Sugeta, J. C. Maldonado and W. E. Wong
Proceedings of The 6th IEEE Latin-American Test Workshop (LATW), Salvador, Bahia, Brazil, (March 2005)

Grants Awarded and Continued: Principal Investigator

Measuring and Improving Code Coverage for Embedded Software
W. E. Wong
Texas Instruments, \$40,000 (10/01/2004-08/31/2005)

Improving System Quality by Effective Analysis of Defects
W. E. Wong
Texas Instruments, \$40,000 (10/01/2004-08/31/2005)

Effective Test Generation for Java Applications
W. E. Wong
Avaya Research Labs, \$30,000 (09/01/2004-05/31/2005)

Service Oriented Architecture for Converged Communication
W. E. Wong
Avaya Research Labs, \$45,000 (09/10/2004-10/31/2005)

A Testing Framework for Reproducible Execution and Race Condition Detection in Real-Time Embedded Systems
W. E. Wong, co-PI: Y. H. Lee (Arizona State University) and Y. Lei (UT-Arlington)

NASA, \$555,000 (01/01/2005-12/31/2007)

A Comprehensive Framework for Testing and Analyzing C++ Applications (Phase I)

W. E. Wong

Avaya Research Labs, \$45,000 (02/01/2005-03/31/2006)

Software Product Line Architecture: A Formal Evaluation Model

W. E. Wong

Electronics and Telecommunications Research Institute (ETRI), \$22,500, Phase I (2005)

Weili Wu, Assistant Professor, Computer Science

B.S., Liaoning Technology University, China, 1989

M.S., University of Wisconsin, 1995

M.S., University of Minnesota, 1998

Ph.D., University of Minnesota, 2002

Articles in Refereed Journals

Protein-Protein Interaction and Group Testing in Bipartite Graphs

Yingshu Li, My T. Thai, Zhen Liu and Weili Wu

International Journal of Bioinformatics Research and Applications (IJBRA) **1 4** (2005) 414-419

Approximation for Minimum Multicast Route in Optical Network with Nonsplitting Nodes

Longjiang Guo, Weili Wu, Feng Wang and My Thai

Journal of Combinatorial Optimization **10 4** (2005) 391 – 394

Optimal topology control for balanced energy consumption in wireless networks

Yingshu Li, Xiaoyan Cheng, and Weili Wu

Journal of Parallel Distributed Computing **65 2** (2005) 124-131

Articles in Conference Proceedings

Energy-Efficient Target Coverage in Wireless Sensor Networks

Mihaela Cardei, My T. Thai, Yingshu Li and Weili Wu

Proceeding of the 24th conference of the IEEE Communications Society (INFOCOM 2005) Miami, FL: (March 13-17 2005)

Achieving Minimum Coverage Breach under Bandwidth Constraints in Wireless Sensor Networks, Meggie Cheng, Weili Wu and Lu Ruan

*Proceeding of the 24th conference of the IEEE Communications Society
(INFOCOM 2005) Miami, FL : (March 13-17 2005*

Grants Awarded and Continued: Principal Investigator

Collaborative Research: Development of Vector Space based Methods for Protein Structure Prediction

Weili Wu

NSF \$128,500 (7/1/2003-6/30/2006)

Supplemental Support for Collaborative Research: Development of Vector Space based Methods for Protein Structure Prediction

Weili Wu

NSF \$25,693 (11/1/2004-6/30/2005)

Efficient Spatial-Temporal Analysis of Environment and Public Health Related Data

Weili Wu

NSF (National Science Foundation) \$397,504.00 (2005-2008)

NSG: Studies in Optimizations with Applications

Weili Wu

NSF \$250,804.00 (2005-2008)

Collaborative Research: CT-ISG: Fault-Tolerant and Secure Infrastructure for Time Critical Embedded Systems

Weili Wu

NSF \$150,000.00 (2005-2008)

Internal Cost Share for Efficient Spatial-Temporal Analysis of Environment and Public Health Related

Weili Wu

Erik Jonsson School of Engineering and Computer Sciences at UTD
\$58,455.00 (2005-2008)

Internal Cost Share for NSG: Studies in Optimizations with Applications

Weili Wu

Erik Jonsson School of Engineering and Computer Sciences at UTD
\$51,690.00 (2005-2008)

Internal Cost Share for Collaborative Research: CT-ISG: Fault-Tolerant and Secure Infrastructure for Time Critical Embedded Systems

Weili Wu

Erik Jonsson School of Engineering and Computer Sciences at UTD
\$4300.00 (2005-2008)

Internal Fund Support for 2004 Unfunded NSF Proposal of Efficient Spatial-Temporal Analysis of Environment and Public Health Related
Weili Wu
Erik Jonsson School of Engineering and Computer Sciences at UTD
\$60,000.00 (2005-2007)

I-Ling Yen, Associate Professor, Computer Science
B.S., National Tsing-Hua University, 1979
M.S., University of Houston, 1985
Ph.D., University of Houston, 1992

Articles in Refereed Journals

A study of the model and algorithms for handling location dependent continuous queries
M. Gupta, M. Tu, L. Khan, F.B. Bastani and I.-L. Yen
Knowledge and Information Systems Journal (KAIS), Springer-Verlag, **8 (4)** (November 2005) 414-437

A distributed admission control model for QoS assurance in large-scale media delivery systems
Zhonghang Xia, Wei Hao, I-Ling Yen and Peng Li
IEEE Transactions on Parallel and Distributed Systems **16 (12)** (December 2005) 1143-1153.
IEEE Distributed Systems Online, (November 2005)

M3-Update: a new update model for E-Commerce and web-based applications
Peng Li, I-Ling Yen and Zhonghang Xia
International Journal of Computers and Their Applications, **12 (3)** (September 2005) pp. 152-162

Automated aspect-oriented decomposition of process-control systems for ultra-high dependability assurance
D. Wang, F.B. Bastani and I.-L. Yen
IEEE Transactions on Software Engineering **31 (9)** (September 2005) 713-732

Update propagation algorithms for supporting disconnected write in mobile wireless systems with data broadcasting capability
Ing-Ray Chen, Ngoc Anh Phan and I-Ling Yen
Journal of Wireless Personal Communications **34 (3)** (August 2005) 227-253

Adaptive QoS control based on benefit optimization for video servers providing differentiated services

Ing-Ray Chen, Sheng-Tun Li and I-Ling Yen

Multimedia Tools and Applications **25** (2) (February 2005) 167-185

Articles in Conference Proceedings

Toward QoS analysis of adaptive service-oriented architecture

T. Gao, H. Ma, I.-L. Yen, F.B. Bastani and W.-T. Tsai

IEEE International Workshop on Service-Oriented System Engineering,

Beijing, China, (October 21-22, 2005) 219-226

Toward a UML profile to support component-based distributed adaptive systems

T. Gao, K. Cooper, H. Ma, I.-L. Yen and F.B. Bastani

International Conference on Software Engineering and Knowledge Engineering,

Taipei, Taiwan, (July 2005) 217-222

A formal foundation of code pattern based development

J. Liu, F.B. Bastani and I.-L. Yen

International Conference on Software Engineering and Knowledge Engineering,

Taipei, Taiwan, (July 2005) 274-279

An adaptive multiparty protocol for secure data protection

Q. Ma, I.-L. Yen, W. Hao, M. Tu and F.B. Bastani

IEEE International Conference on Parallel and Distributed Systems,
Fukuoka, Japan, (July 2005) 43-49

Meta code pattern and its refinement

J. Liu, F.B. Bastani and I.-L. Yen

2005 International MultiConference in Computer Science & Computer Engineering, Las Vegas, Nevada, (June 27-30, 2005)

An Approach for designing Highly Adaptable Process-Control Systems

D. Wang, F.B. Bastani, I.-L. Yen and R. Paul

IEEE International Symposium on Object-oriented Real-time Computing Systems,

Seattle, Washington, (May 2005)

Rule-base technique for component adaptation to support QoS-based reconfiguration

Jia Zhou, Kendra Cooper and I-Ling Yen

IEEE International Symposium on Object-oriented Real-time Computing Systems,
Seattle, Washington, (May 2005)

On the optimal placement of secure data objects over internet
M. Tu, P. Li, Q. Ma, I-L. Yen and F.B. Bastani
IEEE International Parallel and Distributed Processing Symposium,
Denver, Colorado, (April 2005)

A framework to support survivable web services
Wei Li, Jiang He, Qingkai Ma I-Ling Yen, Farokh B. Bastani and
Raymond Paul
IEEE International Parallel and Distributed Processing Symposium,
Denver, Colorado, (April 2005)

A model and methodology for composition QoS analysis of embedded
systems
Hui Ma, Dongfeng Wang, Farokh Bastani, I-Ling Yen and Kendra Cooper
IEEE Real-Time and Embedded Technology and Applications Symposium,
San Francisco, California, (March 2005)

Empirical assessment of machine learning based software defect
prediction techniques
V.U.B. Challagulla, F.B. Bastani, I.-L. Yen and R. Paul
*IEEE International Workshop on Object-oriented Real-time Dependable
Systems*,
Sedona, AZ, (February 2005) 282-303

Grants Awarded and Continued: Principal Investigator

End-to-End Dependability Assurance for Command-and-Control Systems
I-Ling Yen (PI), Farokh Bastani and Jing Dong
Department of Defense SPAWAR/NISTP (subcontract to Independent
Engineering, Inc.) \$44,058 (May 1, 2005 - May 31, 2006)

Component-Based QoS-Driven Synthesis of Embedded Software
I-Ling Yen (PI), Farokh Bastani and Kendra Cooper
NASA STTR, (subcontract to IA Tech, Inc.) \$100,000 (\$28,000 for UTD)
(May 1, 2005 – Aug. 31, 2006)

A Distributed Component Repository for Rapid Synthesis of Adaptive
Real-Time Systems
I.-L. Yen (PI), F.B. Bastani, Y. Deng, L.R. Khan and E.W. Sha
National Science Foundation, \$499,866 (2001-2005)

Kang Zhang, Professor, Computer Science

B.E., Univ. of Electronic Science and Technology, China, 1982

Ph.D., University of Brighton, United Kingdom, 1990

Articles in Refereed Journals

Multimedia Layout Adaptation Through Grammatical Specifications

K. Zhang, J. Kong, M.K. Qiu and G.L. Song

ACM/Springer Multimedia Systems, Springer **10** (March 2005) 245-260

Visual Programming Support for Graph-Oriented Parallel/Distributed Processing

F. Chan, J. Cao, A.T.S. Chan and K. Zhang

Software – Practice and Experience, John Wiley and Sons **35** (December 2005) 1409-1439

Articles in Conference Proceedings

Spatial Contextual Noise Removal for Post-classification Smoothing of GIS Images

Y. Qian, K. Zhang and F. Qiu

Proceedings of the 20th Annual ACM Symposium on Applied Computing, Santa Fe, USA, ACM Press: (2005) 524-528

The Role of Visualization in Effective Data Cleaning

Y. Qian and K. Zhang

Proceedings of the 20th Annual ACM Symposium on Applied Computing, Santa Fe, USA, ACM Press: (2005) 1239-1243

Towards Access Control for Visual Web Model Management

G.L. Song, K. Zhang, B. Thuraisingham and J. Cao

Proceedings of the 2005 IEEE International Conference on e-Technology, e-Commerce and e-Service (EEE'05), Hong Kong, China, IEEE CS Press: (2005) 722-727

Analyzing Message-Passing Programs through Visual Slicing

G.S.R. Shanmuganathan, K. Zhang, E. Wong and Y. Qi

Proceedings of the International Conference on Information Technology (ITCC'05), Las Vegas, USA, IEEE CS Press: (2005) 341-346

VisDP: A Web Service for Visualizing Design Patterns on Demand

J. Dong, S. Yang and K. Zhang

Proceedings of the International Conference on Information Technology (ITCC'05), Las Vegas, USA, IEEE CS Press: (2005) 385-391

PatZip: Pattern-Preserved Spatial Data Compression

Y. Qian, K. Zhang and D.T. Huynh

Proceedings of the 9th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD'05), Hanoi, Vietnam, Springer-Verlag: (2005) 726-736

A Generative Style-driven Framework for Software Architecture Design

J. Kong, K. Zhang, J. Dong and G.L. Song

Proceedings 29th Annual IEEE/NASA Software Engineering Workshop (SEW-29), Greenbelt, MD, USA, IEEE CS Press: (2005) 173-182

Grammar-Specified Model-Driven Architectures

J. Kong, K. Zhang and J. Dong

Proceedings of the 10th International Conference on Engineering of Complex Computer Systems (ICECCS 2005), Workshop on Using Meta-models to Support MDD, Shanghai, China IEEE CS Press (2005) 24-25

Secure Model Management Operations for the Web

G.L. Song, K. Zhang, B. Thuraisingham and J. Kong

Data and Application Security XIX - Proceedings 19th Annual IFIP WG 11.3 Working Conference on Data and Applications Security, eds. by S. Jajodia and D. Wijesekera, Storrs, USA, LNCS **3654**, Springer-Verlag: (2005) 237-251

Interoperating XML-Style of Digital Artifacts for Information Reuse

K. Zhang, G.L. Song, and J. Kong

Proceedings of the 2005 IEEE International Conference on Information Reuse and Integration (IRI'05), Las Vegas, USA, IEEE Press: (2005) 126-131

Mobile Context Modelling using Conceptual Graphs

S.T. Lei and K. Zhang

Proceedings of the IEEE International Conference on Wireless and Mobile Computing, Networking and Communications, Montreal, Canada, IEEE CS Press: (2005) 131-138

RGG+: An Enhancement to the Reserved Graph Grammar Formalism

X. Zeng, K. Zhang, J. Kong and G.L. Song

Proceedings of the 2005 IEEE Symposium on Visual Languages and Human-Centric Computing, Dallas, USA, IEEE CS Press: (2005) 272-274

Automatic Generation of Transformation Rules for Model Management

G.L. Song, K. Zhang and J. Kong

Proceedings of the VL/HCC'05 Workshop on Visual Modeling for

Software Intensive Systems, Dallas, USA, (2005)

Teaching Experiences with UML at The University of Texas at Dallas
K. Cooper, J. Dong, K. Zhang and L. Chung
Proceedings of the MoDEL-Edu'05 - Educational Symposium, Montego Bay, Jamaica, University of Paderborn, Technical Report TR-RI-05-260 (2005) 1-8

Grants Awarded and Continued: Principal Investigator

Visual Specification and Automatic Transformation of Web Interchanging Documents
K. Zhang
NSF ITR, \$210,000 (09/01/2002-08/31/2005)

Training Students in Software Engineering for the High Technology Workforce
K. Zhang, Co-PIs: G. Gupta, D.T. Huynh, S. Ntafos and S. Kim
National Science Foundation (CSEMS) \$385,000 (09/01/04-08/31/08)

Workshop: VL/HCC'05 Doctoral Consortium
K. Zhang
NSF HCI, \$26,684 (06/01/05-05/31/06)

Youtao Zhang, Assistant Professor, Computer Science
B.S., Nanjing University, China, 1993
M.Eng., Nanjing University, China 1996
Ph.D., University of Arizona, 2002

Articles in Refereed Journals

Improving Memory Encryption Performance in Secure Processors
Jun Yang, Lan Gao and Youtao Zhang
IEEE Transactions on Computers **54 (5)** (2005) 630-640

Articles in Conference Proceedings

SENS: Security Enhancement to Symmetric Shared Memory Multiprocessors
Youtao Zhang, Lan Gao, Jun Yang, Xiangyu Zhang and Rajiv Gupta
IEEE 11th International Symposium on High Performance Computer Architecture, San Francisco, California, (February 2005)

Performance Comparison of Path Matching Algorithms over Compressed

Control Flow Traces
Yongjing Lin and Youtao Zhang
IEEE Data Compression Conference, Snowbird, Utah, (March, 2005)

Supporting Efficient Query Processing on Compressed XML Files
Yongjing Lin, Youtao Zhang, Quanzhong Li and Jun Yang
ACM The 20th Annual Symposium on Applied Computing, Santa Fe, New Mexico, (March, 2005)

Grants Awarded and Continued: Principal Investigator

CAREER: A Compilation Framework for the Development of High Performance Secure Applications on Trusted Processors
Youtao Zhang
NSF Award No. 0447934, \$400,000 (2005 – 2010)

S. Q. Zheng, Professor, Computer Science
B.S., Jilin University, China, 1973
M.S., University of Texas, Dallas, 1982
Ph.D., University of California, Santa Barbara, 1987

Edited Books

Proceedings of the 17th IASTED International Conference on Parallel and Distributed Computing and Systems
S. Q. Zheng
ACTA Press, Anaheim/Calgary/Zurich (2005) 789 p.

Articles in Refereed Journals

Parallel Routing Algorithms for Nonblocking Electronic and photonic Switching Networks
E. Lu and S.Q. Zheng
IEEE Transactions on Parallel and Distributed Systems **16 8** (2005) 702-713

Next Generation Optical Storage Area Networks: The Light-trail Approach
A. Gumaste and S.Q. Zheng
IEEE Communications Magazine **43 (3)** (2005) 72-79

Optimal Method for Coordinated En-Route Web Caching for Tree Networks
K. Li, H. Shen, S.Q. Zheng and F.Y.L Chin

ACM Transactions on Internet Technology, **5 (3)** (2005) 480-507

Articles in Conference Proceedings

Similarity Measure for Multi-Attribute Data

Chuanjun Li, S.Q. Zheng and B. Prabhakaran

Proceedings of IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2005), Philadelphia, PA USA (March 2005)
1149 - 1152

Protection and Restoration Scheme for Light-trail WDM Ring Networks

A. Gumaste and S.Q. Zheng

Proceedings of the 9th Conference on Optical Network Design and Modelling (ONDM 2005) (2005) 311-320

A Fast Parallel Routing Algorithm for Strictly Nonblocking Switching Networks

E. Lu, S.Q. Zheng and B. Yang

Proceedings of the 2005 International Conference on Parallel and Distributed Processing Techniques and Applications 1 (2005) 97-97

A Fast Noniterative Scheduler for Input-Queued Switches with Unbuffered Crossbars

K. Chen, S.Q. Zheng and E. H.-M. Sha

Proceedings of the 2005 International Symposium on Parallel Architectures, Algorithms and Networks (ISPAN 2005) (2005) 230-235

Minimum-Cost Paths Subject to Minimum Vulnerability for Reliable Communications

B. Yang, S.Q. Zheng, M. Yang and J. Wang

Proceedings of the 2005 International Symposium on Parallel Architectures, Algorithms and Networks (ISPAN 2005) (2005) 334-339

Finding Two Disjoint Paths in a Network with Normalized α -Min-Sum Objective Functions

B. Yang, S.Q. Zheng and E. Lu

Proceedings of the 17th International Conference on Parallel and Distributed Computing and Systems (PDCS 2005) (2005) 342-348

Virtual Nonblocking Switching Networks

S.Q. Zheng and A. Gumaste

Proceedings of the 17th International Conference on Parallel and Distributed Computing and Systems (PDCS 2005) (2005) 742-748

Grants Awarded and Continued: Principal Investigator

Optimization of Hypergraphs and Combinatorial Designs with
Applications
S.Q. Zheng
NSF \$150,000 (7/15/2005-7/14/2007)

SCHOOL OF GENERAL STUDIES

George W. Fair, Professor of Interdisciplinary Studies and Dean

Erin A. Smith, Associate Professor, American Studies and
Studies in Literature

B.S., Michigan State University, 1991

B.A., Michigan State University, 1991

Ph.D., Duke University, 1997

Articles in Refereed Journals

Melodrama, Popular Religion, and Literary Value: The Case of Harold
Bell Wright

Erin A. Smith

American Literary History **17.2** (2005) 217-43

Articles in Conference Proceedings

Reading The DaVinci Code: Heresy, Conspiracy and the Sacred Feminine

Erin A. Smith

American Studies Association Annual Meeting, Washington, DC, (3 Nov.,
2005)

What Would Jesus Do? Reading and Religion in Turn-of-the-Century
America

Erin A. Smith

*Society for the History of Authorship, Reading and Publishing Annual
Meeting*, Halifax, NS, (16 July 2005)

SCHOOL OF MANAGEMENT

Hasan Pirkul, Professor, Management Information Systems and Dean

Mark C. Anderson, Associate Professor, Accounting
B.A., University of Alberta, 1978
M.B.A., University of Alberta, 1981
M.S., University of Rochester, 1991
Ph.D., University of Florida, 1996

Articles in Refereed Conference Proceedings

Discretionary Selling, General and Administrative Costs
Mark Anerderson, Rajiv Banker, Rong Huang and Surya Janakiraman
Management Accounting Research Conference & Case Symposium,
Scottsdale, Arizona (January 7-8, 2005)

An Empirical Analysis of ERP Adoption by Oil and Gas Firms
Rajiv Banker, Nirup Menon, Mark Anderson and Jorge Romero
Annual Congress of the European Accounting Association, Gothenburg,
Sweden (May 18-20, 2005)

Audit Firm Characteristics and Audit fees
Mark Anderson, Rajiv Banker and Seok-Young Lee
Annual Congress of the European Accounting Association, Gothenburg,
Sweden (May 18-20, 2005)

Discretionary Selling, General and Administrative Costs
Rajiv Banker, Rong Huang, Mark Anderson and Surya Janakiraman
Annual Congress of the European Accounting Association, Gothenburg,
Sweden (May 18-20, 2005)

Information Systems Leadership and Future Firm Performance
Rajiv Banker, Nan Hu and Mark Anderson
Annual Congress of the European Accounting Association, Gothenburg,
Sweden (May 18-20, 2005)

Information Technology Spending and Future Firm Performance
Rajiv Banker, Mark Anderson and Nan Hu
Annual Congress of the European Accounting Association, Gothenburg,
Sweden (May 18-20, 2005)

An Industry Study of the Impact of ERP Adoption by Oil and Gas Firms

Rajiv Banker, Mark Anderson, Nirup Menon and Jorge Romero
Workshop on Information Systems and Economics, Irvine, California
(December 10-11, 2005)

Jayatirtha Asundi, Assistant Professor, Management Information Systems
B.Tech., Indian Inst. Of Technology, Bombay, 1995
M.S., Carnegie Mellon University, 2000
Ph.D., Carnegie Mellon University, 2001

Articles in Conference Proceedings

Staffing Software Maintenance and Support Projects
Jai Asundi and Sumit Sarkar
*Proceedings of the Hawaii International Conference in System
Sciences(HICSS-38)*, Hawaii, (2005)

Need for Effort Estimation Models for Open Source Software Engineering
Jai Asundi
*Fifth Workshop on Open Source Software Engineering at the International
Conference on Software Engineering*, St. Louis, MO, May 2005

Indranil R. Bardhan, Assistant Professor, Accounting; MIS;
Director, Center for Practice and Research in Software Management
B.Tech., Indian School of Mines, India, 1988
M.Eng., Pennsylvania State University 1992
Ph.D., University of Texas, Austin, 1995

Articles in Refereed Journals

Clearly Productive: A new index for measuring IT Productivity
Vish V. Krishnan and Indranil R. Bardhan
Optimize Magazine (January 2005) CMP Media, Manhasset, NY

Articles in Conference Proceedings

The Impact of Information Technology and Business Process Outsourcing
on Manufacturing Plant Performance
Indranil R. Bardhan, S. Mithas and J. Whitaker
Workshop on Information Systems and Economics, Irvine, CA (December
2005)

The Impact of Information Technology on Information Work Productivity:
The Case of Project and Program Management

Indranil R. Bardhan, V. Krishnan and S. Lin
*Proceedings of the 2005 Gordon Davis Symposium on the Future of the
Information Systems Academic Discipline: Opportunities and Directions*,
The University of Minnesota, Minneapolis, MN. (May 13-14, 2005)

The Business Value of Integrating Product Development with Supplier
Management Processes
Indranil Bardhan
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M.A., The Ohio State University, 1980

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Adolf J. H. Enthoven, Professor, Accounting
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B.Tech., Indian Institute of Technology, 1967
M.B.A., Washington State University, 1969
M.S.I.A., Carnegie Mellon University, 1971
Ph.D., Carnegie Mellon University, 1972

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Chelliah Sriskandarajah, Ashbel Smith Professor, Operations Management

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Ph.D., National Polytechnic Inst. of Grenoble, France, 1986

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B.S., Boston State College, 1972
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Andrei Strijnev, Assistant Professor, Marketing
B.S., Vladimir State University, Russia, 1995
M.B.A., Southern Illinois University, 1997
M.S.B.A., Washington University in St. Louis, 2000
Ph.D., Washington University in St. Louis, 2003

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Davina Vora, Assistant Professor, International Business, Strategy and

Organizational Behavior

B.A., Wellesley College, 1995

Ph.D., University of South Carolina, 2003

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Wei T. Yue, Assistant Professor, Management Information Systems

B.S., Purdue University, 1994

M.S., Purdue University, 1998

Ph.D., Purdue University, 2003

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Alejandro Zentner, Assistant Professor, Economics

B.A., University Nacional de La Plata, Argentina, 1997

M.A., University Torcuato Di Tella, Argentina, 1999

M.A., University of Chicago, 2001

Ph.D., University of Chicago, 2005

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B.S.E., Shanghai Jiao Tong University, 1984
Ph.D., Duke University, 1994

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Qin Zhang, Assistant Professor, Marketing
B.S., Tsinghua University, China, 1997
M.S.B.A., Washington University, 2000
Ph.D., Washington University, 2002

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John P. Ferraris, Professor of Chemistry and Interim Dean

Mohamed G. Abdelsalam, Assistant Professor of Geosciences

B.Sc., University of Khartoum, Sudan, 1984

M.Sc., University of Khartoum, Sudan, 1987

Ph.D., University of Texas, Dallas, 1993

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Jung-Mo Ahn, Assistant Professor, Chemistry
B.S., Seoul National University, 1992
M.S., Seoul National University, 1994
Ph.D., University of Arizona, 2000

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Carlos L.V. Aiken, Professor, Geosciences
B.S., University of Washington, 1965
M.S., University of Washington, 1970
Ph.D., University of Arizona, 1976

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Phillip Charles Anderson, Associate Professor, Geosciences

B.S., North Texas State University, 1982

M.S., University of Texas at Dallas, 1985

Ph.D., University of Texas at Dallas, 1990

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Titu Andreescu, Associate Professor, Mathematics Education.
B.A., University of West Timisoara, Romania
M.S., University of West Timisoara, Romania, 1980
Ph.D., University of West Timisoara, Romania, 2003

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Kenneth J. Balkus, Jr., Professor, Chemistry
B.S., Worcester Polytechnic Inst., 1982
Ph.D., University of Florida, 1986

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Ray Baughman, Robert A. Welch Professor, Chemistry; Director, UTD Nanotech Institute

B.S., Carnegie-Mellon University, 1964
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Ph.D., Harvard University, 1971

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R.H. Baughman
DENSO Corporation, \$150,000 through (2005-2007)

Michael C. Biewer, Associate Professor of Chemistry
B.S., Ohio State University, 1990
Ph.D., Yale University, 1995

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Michael C. Biewer
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Gail A. M. Breen, Associate Professor, Molecular and Cell Biology
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Ph.D., University of Arizona, 1987

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Electrical resistivity profiling to delineate low groundwater arsenic target

zones in the Terai, Nawalparasi, Nepal
T.H. Brikowski, L.S.S. Smith and S.D. Shrestha
Geological Society of America Abstr. w. Programs **37** (2005) 7 375

Lee A. Bulla, Jr., Professor, Molecular Biology
B.S., Midwestern State University, 1965
Ph.D., Oregon State University, 1968

Articles in Refereed Journals

Cytotoxicity of *Bacillus thuringiensis* Cry1Ab toxin depends on specific binding of the toxin to the cadherin receptor BT-R1 expressed in insect cells

X. Zhang, M. Candas, N.B. Griko, L. Rose-Young and L.A. Bulla, Jr.
Cell Death Differentiation **12** (2005) 1407-1416

The proteomics of sickle cell disease: profiling of erythrocyte membrane proteins by 2D-DIGE and tandem mass spectrometry

D.G. Kakhniashvili, N.B. Griko, L.A. Bulla, Jr. and S.R. Goodman
Exptl. Biol. Med. **230** (2005) 787-792

Grants Awarded and Continued: Principal Investigator

Center for Biotechnology and Bioinformatics

L. A. Bulla, Jr.

State of Texas \$250,000 (2003-2005)

Sequencing and Comparative Genome Annotation of *Bacillus thuringiensis*

L.A. Bulla, Jr.

USAID/Cairo \$431,000 (2004-2006)

Molecular & Cellular Functions of PBW BT-R₂

L.A. Bulla, Jr.

National Science Foundation \$60,000 (2003-2005)

James L. Carter, Associate Professor of Geosciences
B.S., Texas Western College (now UTEP), 1961
Ph.D., Rice University, 1965

Authored Books

Laboratory Manual: Physical Geology, updated 12th edition

James H. Zumberge, Robert H. Rutherford and James L. Carter
New York: McGraw-Hill (2005) 278 p.

Pankaj K. Choudhary, Assistant Professor, Mathematical Sciences
B.S., University of Delhi, 1996
M.S., Indian Institute of Technology, 1998
Ph.D., Ohio State University, 2002

Articles in Refereed Journals

A two-stage procedure for selection and assessment of agreement of the
best instrument with a gold standard
P.K. Choudhary and H.N. Nagaraja
Sequential Analysis, **24** (2005) 237-257

Assessment of agreement using intersection-union principle
P.K. Choudhary and H.N. Nagaraja
Biometrical Journal, **47** (2005) 674-681

Selecting the instrument closest to a gold standard
P.K. Choudhary and H.N. Nagaraja
Journal of Statistical Planning & Inference **129** (2005) 229 – 237

Carl B. Collins, Professor of Physics; Director, Center for Quantum Electronics
B.S., University of Texas at Austin, 1960
M.A., University of Texas at Austin, 1961
Ph.D., University of Texas at Austin, 1963

Articles in Refereed Journals

Nuclear resonance spectroscopy of the 31-yr isomer of Hf-178
C.B. Collins, N.C. Zoita, F. Davanloo, Y. Yoda, T. Uruga, J.M. Pouvesle
and I.I. Popescu
Laser Physics Letters **2** (2005) 162-167

The use of selected monochromatic X-rays to induce a cascade of gamma
transitions from the 31-year nuclear isomer to the 4 second isomeric state
of Hf-178
N.C. Zoita, F. Davanloo, C.B. Collins, J.M. Pouvesle, S. Emura,
I.I. Popescu, V.I. Kirischuk, N.V. Strilchuk, T. Uruga and Y. Yoda
Journal of Physics IV France, **127** (2005) 163-168

Ultra-Fast Flash X-ray Pulses Produced by Blumlein Devices

F. Davanloo, C.B. Collins and F.J. Agee
Nuclear Instruments and Methods **B241** (2005) 276-280

Grants Awarded and Continued: Principal Investigator

Use of L and M-shell Electrons to Trigger Nuclear Spin
C.B. Collins
DARPA SIER Project funded through AFOSR, \$1,792,000, (2003-2005)

Renewal of Research on Triggering Nuclear Spin Isomers
C.B. Collins
AFOSR \$930,000 (2002-2005)

Low-Impedance Compact Modulators Capable of Generating Intense
Ultra-Fast Rising Nanosecond Waveforms
C.B. Collins (Co- PI: F. Davanloo)
AFOSR, \$ 450,000 (2003- 2005)

Mieczyslaw K. Dabkowski, Assistant Professor, Mathematical Sciences
M.A. Gdansk University, Poland, 1998
Ph.D., The George Washington University, 2003

Article in Refereed Journals

Non-Left-Orderable 3-Manifold Groups
Mieczyslaw K. Dabkowski, Jozef H. Przytycki and Ataollah Togha
Canadian Mathematical Bulletin **48 N^o1** (2005) 32-40

Santosh R. D'Mello, Professor, Molecular Neurobiology
B.S., University of Bombay, 1981
M.S., University of Bombay, 1983
Ph.D., University of Pittsburgh, 1989

Edited Books

Treating Neurodegenerative Conditions through the Understanding of
Neuronal Apoptosis
Santosh R. D'Mello and Paul C. Chin
CNS & Neurological Disorders - Drug Targets **4 (1)** Guest Editor
Santosh R. D'Mello
Bentham Science Publishers (February 2005) 3-23

Articles in Refereed Journals

PAK-1 is necessary depolarization-mediated neuronal survival
K. Johnson and S.R. D'Mello
Journal of Neuroscience Research **79** (2005) 809-815

Inhibition of neuronal apoptosis by the cyclin dependent kinase inhibitor
GW8510: Identification of 3' substituted indolones as a scaffold for the
development of neuroprotective drugs
K. Johnson, L. Liu, N. Majdzadeh, C. Chavez, P.C. Chin, B.E. Morrison,
L. Wang, J. Park, P. Chugh, H-M Chen and S.R. D'Mello
Journal of Neurochemistry **93** (2005) 538-548

Neuroprotection by distinct survival factors involves the inhibition of
Gsk3beta
P.C. Chin, N. Majdzadeh and S.R. D'Mello
Molecular Brain Research **137** (2005) 193-201

Brain chemotherapy from the bench to the clinic: Targeting neuronal
survival with small molecule inhibitors of apoptosis
P.C. Chin and S.R. D'Mello
Frontiers in Bioscience **10** (2005) 552 - 568

Grants Awarded and Continued: Principal Investigator

Signaling Pathways Regulating Neuronal Apoptosis
Santosh R. D'Mello
NIH/NINDS \$1,032,999 (2001 – 2005)

Molecular Analysis of Neurotoxin-Induced Apoptosis
Santosh R. D'Mello
US Army Medical Research and Material Command \$935,000 (1999 –
2006)

Neuroprotective properties of c-Raf
inhibitors
Santosh D'Mello
NIH/NINDS \$1,550,000 (2004 – 2009)

Jeff DeJong, Associate Professor, Molecular and Cell Biology
B.A., University of Missouri-Columbia, 1984
Ph.D., Pennsylvania State University, 1990

Grants Awarded and Continued: Principal Investigator

Biochemical Mechanisms of Germ Line Gene Regulation
Jeff DeJong
The Welch Foundation \$150,000 (June 1, 2003 to May 31, 2006)

Mechanisms of Meiotic Gene Expression in the Testis
Jeff DeJong
National Institutes of Health \$1,293,546 (June 1, 2003 to May 31, 2008)

Patents Awarded

B1 Transcription factors related to TF II A
Jeff DeJong
U. S. Patent No. 6,953,834 (October 11, 2005)

Gregg R. Dieckmann, Associate Professor, Chemistry
B.A., DePauw University, 1988
M.S., University of Michigan, 1990
Ph.D., University of Michigan, 1995

Articles in Refereed Journals

Importance of Aromatic Content for Peptides/Single-walled Carbon Nanotube Interactions
V. Zorbas, A. L. Smith, A. Ortiz-Acevedo, H. Xie, A. B. Dalton, G. R. Dieckmann, R. K. Draper, R. H. Baughman and I. H. Musselman
Journal of the American Chemical Society **127** (35) (2005) 12323-12328

Nanotube Network Transistors from Individual Peptide-wrapped Single-walled Carbon Nanotubes
M. in het Panhuis, S. Gowrisanker, D. J. Vanesko, C. A. Mire, H. Jia, H. Xie, R. H. Baughman, I. H. Musselman, B. E. Gnade, G. R. Dieckmann and Rockford K. Draper
Small **1** (2005) 820-823

Diameter-Selective Solubilization of Single-walled Carbon Nanotubes by Reversible Cyclic Peptides
A. Ortiz-Acevedo, H. Xie, V. Zorbas, W. M. Sampson, A. B. Dalton, R. H. Baughman, R. K. Draper, I. H. Musselman and Gregg R. Dieckmann
Journal of the American Chemical Society **127** (2005) 9512-9517

Modulation of Zinc- and Cobalt-binding Affinities through Changes in the Stability of the Zinc Ribbon Protein L36
W. Kou, H. S. Kolla, A. Ortiz-Acevedo, D. C. Haines, M. Junker and

G. R. Dieckmann

Journal of Biological Inorganic Chemistry **10** (2005) 167-180

Peptide Cross-linking Modulated Stability and Assembly of Peptide-wrapped Single-walled Carbon Nanotubes

H. Xie, A. Ortiz-Acevedo, R. H. Baughman, R. K. Draper,

I. H. Musselman, A. B. Dalton and G. R. Dieckmann

Journal of Materials Chemistry **15** (2005) 1734-1741

Grants Awarded and Continued: Principal Investigator

Investigation of the Factors Affecting Reactivity of Thiolate-rich Zn(II) Sites in Proteins

Gregg R. Dieckmann

The American Chemical Society: The Petroleum Research Fund (type AC) \$80,000 (January 1, 2004–August 31, 2006)

Peptide-coated Nanotubes: Toxicity and Targeted Cell Ablation

A. B. Dalton (PI) G. R. Dieckmann (PI) and J. Coleman

Human Frontier Science Program: Young investigators' Grant \$1,050,000 (2005-2008)

Rockford K. Draper, Professor, Molecular and Cell Biology

B.A., University of Washington, 1968

Ph.D., University of California, Los Angeles, 1974

Articles in Refereed Journals

p97 is in a Complex with Cholera Toxin and Influences the Transport of Cholera Toxin and Related Toxins to the Cytoplasm

R. J. AbuJarour, S. Dalal, P. I. Hanson and R. K. Draper

Journal of Biological Chemistry **280** (2005) 15865-15871

Nanotube Network Transistors from Individual Peptide-wrapped Single-walled Carbon Nanotubes

M. in het Panhuis, S. Gowrisanker, D. J. Vanesko, C. A. Mire, H. Jia,

H. Xie, R. H. Baughman, I. H. Musselman, B. E. Gnade, G. R. Dieckmann and Rockford K. Draper

Small **1** (2005) 820-823

Peptide Cross-linking Modulated Stability and Assembly of Peptide-wrapped Single-walled Carbon Nanotubes

H. Xie, A. Ortiz-Acevedo, R. H. Baughman, R. K. Draper,

I. H. Musselman, A. B. Dalton and G. R. Dieckmann

Journal of Materials Chemistry **15** (2005) 1734-1741

Diameter-Selective Solubilization of Single-walled Carbon Nanotubes by Reversible Cyclic Peptides

A. Ortiz-Acevedo, H. Xie, V. Zorbas, W.M. Sampson, A.B. Dalton, R.H. Baughman, R.K. Draper, I.H. Musselman and Gregg R. Dieckmann

Journal of the American Chemical Society **127** (2005) 9512-9517

Importance of Aromatic Content for Peptides/Single-walled Carbon Nanotube Interactions

V. Zorbas, A.L. Smith, A. Ortiz-Acevedo, H. Xie, A.B. Dalton, G.R. Dieckmann, R.K. Draper, R.H. Baughman and I.H. Musselman

Journal of the American Chemical Society **127 (35)** (2005) 12323-12328

Grants Awarded and Continued: Principal Investigator

Structure and Function of Coatomer

R.K. Draper

National Science Foundation \$231,000 (2001-2005)

Acquisition and Operation of a Bio-nanotechnology Facility

Dr. R.K. Draper

The Von Ehr Foundation and UT Dallas, \$1,000,000 (01/01/05-12/31/09)

Bionanosciences at UTD

R.K. Draper

Private Gift Account, \$17,500 (2005)

Gregory D. Earle, Professor, Physics

B.S., Purdue University, 1981

M.S., Purdue University, 1983

Ph.D., Cornell University, 1988

Articles in Refereed Journals

Sequential Observations of the Local Neutral Wind Field Structure Associated with E Region Plasma Layers

R.L. Bishop, G.D. Earle, M.F. Larsen, C.M. Swenson, C.G. Carlson, P.A. Roddy, C. Fish and T.W. Bullett

Journal of Geophysical Research, **110** (2005) doi:10.1029/2004JA010686

Tungsten-Rhenium Filament Lifetime Variability in Low Pressure Oxygen Environments

G.D. Earle, R. Medikonduri, N. Rajagopal, V. Narayanan and P.A. Roddy
IEEE Transactions on Plasma Sciences, **33** (2005) 1736-1738

Electron Confinement on Magnetic Field Lines

M.J. Goeckner, G.D. Earle, L.J. Overzet and J.C. Maynard
IEEE Transactions on Plasma Sciences, **33** (2005) 436-439

Grants Awarded and Continued: Principal Investigator

Optimization of a Ram Wind Sensor for Planetary Thermospheric Studies

G. D. Earle

Submitted to NASA \$75,000 (2005-2008)

CEDAR: Atmosphere/Ionosphere Coupling in the Creation of Topside Spread Echoes

G. D. Earle

NSF, \$221,000 (2005-2008)

Investigation of Mid-Latitude Spread F Associated with Terrestrial Weather Systems

G. D. Earle

NASA, \$1,4000,000 (2005-2008)

Ervin J. Fenyves, Professor, Physics

M.S., Roland Eotvos University, Budapest, 1946

Ph.D., Roland Eotvos University, Budapest, 1950

Doctor of the Physical Sciences, Hungarian Academy of Sciences, Budapest, 1960

Articles in Conference Proceedings

Very Sensitive Large Area Neutron Detector for Nuclear Weapon Material Surveillance

D. Cline, K. Lee, E.J. Fenyves and B. Burkart

Homeland Security Department Conference, Boston 2005

John F. Ferguson, Associate Professor, Geosciences,

B.S., Wofford College, 1973

M.S., University of North Carolina, 1975

Ph.D., Southern Methodist University, 1981

Articles in Refereed Journals

Real-time data acquisition and quality control for gravity surveys
T. Chen, J.F. Ferguson, C.L.V. Aiken and J. Brady
The Leading Edge **24** (2005) 702-704

Articles in Conference Proceedings

An archaeological investigation of San Marcos Pueblo New Mexico, USA
J. Hodges, J.F. Ferguson and L. Pellerin
SAGEEP 2005 Proceedings and Annual Meeting Atlanta, GA (April 2005)

Use of absolute gravity measurements to monitor groundwater in the
Espanola Basin, New Mexico
A.H. Cogbill, J.F. Ferguson and E.H. Keating
AGU Spring Meeting New Orleans, LA (May 2005)

Investigation of archaeological sites by the SAGE field course
J.F. Ferguson, L. Pellerin, J. Nisengaard, W.S. Baldrige and G.R. Jiracek
SEG Annual Meeting Houston, TX (November 2005)

SAGE (Summer of Applied Geophysics Experience): Learning geophysics
by doing geophysics
G.R. Jiracek, S. Biehler, W.S. Baldrige, L. Braile, J.F. Ferguson,
B. Gilpin and L. Pellerin
2005 AGU Fall Meeting San Francisco, CA (December 2005)

Grants Awarded and Continued: Principal Investigator

Reservoir Monitoring by Micro-Gravity Techniques
John F. Ferguson
BP Exploration (Alaska), Inc. \$20,000 (January 2004-2005)

Estimation of Aquifer Recharge in the Espanola Basin Using Time-Lapse
Gravity Surveys
John F. Ferguson
Los Alamos National Laboratory \$60,000 (January 2004-2005)

John P. Ferraris, Professor of Chemistry,
Cecil H. and Ida Green Chair in Systems Biology Science
B.A., St. Michael's College, 1969
M.A., Johns Hopkins University, 1971
Ph.D., Johns Hopkins University, 1973

Articles in Refereed Journals

Multilayer Encapsulation of Plastic Photovoltaic Devices

P. Madakasira, K. Inoue, R. Ulbricht, S. B. Lee, M. Zhou, J. P. Ferraris and A. A. Zakhidov

Synthetic Metals **155** (2) (2005) 332-335

Electrospun Mesoporous Metal Oxide Fibers

M. Minedys, A. Chacko, J.P. Ferraris and K. J. Balkus, Jr.

Microporous and Mesoporous Materials **86** (1-3) (2005) 1-13

Single-molecule Studies of Electronic Energy Transfer in a Diblock Conjugated Polymer

J.K. Grey, D.Y. Kim, Y.J. Lee, J.J. Gutierrez, N. Luong, J.P. Ferraris and P.F. Barbara

Angewandte Chemie, Int. Ed. **44** (38) (2005) 6207-6210

Temperature and Time Dependence of Heat Treatment of RR-P3HT/PCBM Solar Cell

K. Inoue, R. Ulbricht, P.C. Madakasira, W.M. Sampson, S.B. Lee, J.J. Gutierrez, J.P. Ferraris and A.A. Zakhidov

Synthetic Metals **154** (1-3) (2005) 41-44

Proton Conducting Polyaniline Molecular Sieve Composites

D. Coutinho, Z. Zhang, J.P. Ferraris and K.J. Balkus, Jr.

Microporous and Mesoporous Materials **81** (1-3) (2005) 321-332

Synthesis of Proton Conducting Tungstosilicate Mesoporous Materials and Polymer Composite Membranes

F. Feng, Z. Yang, D. H. Coutinho, J.P. Ferraris and K.J. Balkus, Jr.

Microporous Mesoporous Materials **81** (1-3) (2005) 217-234

Spinning Solid and Hollow Polymer-free Carbon Nanotube Fibers

M.E. Kozlov, R.C. Capps, W.M. Sampson, V.H. Ebron, J.P. Ferraris and R.H. Baughman

Advanced Materials **17** (5) (2005) 614-617

Apparent Vibrational Side Bands in \tilde{p} Conjugated Systems: The Case of Distyrylbenzene

C.C. Wu, E. Ehrenfreund, J.J. Gutierrez, J.P. Ferraris and Z.V. Vardeny

Physical Review B: Condensed Matter and Materials Physics **71** (8) (2005) 081201/1-081201/4

Articles in Conference Proceedings

Cathodoluminescence and Electroluminescence from Multi-layered Organic Structures Induced by Field Electron Emission from Carbon Nanotubes

A.A. Kuznetsov, A. Zakhidov, R. Ovalle, R. Nanjundaswami, C. Williams, M. Zhang, S.B. Lee, J.P. Ferraris and A.A. Zakhidov
Proceedings of SPIE-The International Society for Optical Engineering **5937** (Organic Light-Emitting Materials and Devices IX) (2005) 593720/1-593720/8

High Efficiency P3HT/PCBM Solar Cell

K. Inoue, R. Ulbricht, P.C. Madakasira, M. Zhou, S.B. Lee, J.P. Ferraris and A.A. Zakhidov
Mater. Res. Soc. Symp. Proceedings **836** (Materials for Photovoltaics), (2005) 69-74

Conjugated Polymer Infiltrated Silica Opals and the Effect of Nano-confinement on the Luminescent Spectra

B. Jarvis, C.L. Gilleland, J.J. Gutierrez, J.W. Stadler, J. Gillespe, M. Sampson, A. Dalton, J.P. Ferraris, R. Glosser and P.B. Landon
Proceedings of SPIE-The International Society for Optical Engineering **5929** (Physical Chemistry of Interfaces and Nanomaterials IV), (2005) 592917/1-5929170/10

Grants Awarded and Continued: Principal Investigator

SPRING NanoEnergetics Hub at UTD
John P. Ferraris
AFOSR \$2,000,000 (2005)

Yuri Gartstein, Associate Professor, Physics
Ph.D., USSR Academy of Sciences, Inst. for Spectroscopy, Troitsk-Moscow, 1988

Articles in Refereed Journals

The excitonic ground state of the half-filled Peierls insulator
M.J. Rice and Yu.N. Gartstein
Journal of Physics: Condensed Matter **17** (2005) 4615–4620

Robert Glosser, Professor, Physics
B.S., Massachusetts Inst. of Technology, 1959
M.S., University of Chicago, 1962

Ph.D., University of Chicago, 1967

Articles in Refereed Journals

Effect of modulation duty cycle on the amplitude of photorefectance
Esam Al-Arfaj, R. Glosser, K. Alavi and E.A. Beam III
Canadian Journal of Physics **83** (2005) 1029

Self-assembly of colloidal silica into opals with large ordered single
crystals
Preston B. Landon, Cody Gilleland, Brandon Jarvis, Brian D. Waters,
Kanzan Inoue and R. Glosser
Colloids and Surfaces A: Physicochem. Eng. Aspects. **259** (2005) 31

Juan E. González, Associate Professor of Molecular and Cellular Biology
B.S., Michigan State University, 1985
Ph.D., University of California, Los Angeles, 1991

Articles in Refereed Journals

Quorum Sensing in Halophilic Bacteria: Detection of *N*-Acyl-Homoserine
Lactones in Exopolysaccharide-Producing *Halomonas* species
I. Llamas-Company, V. Bejar, M.J. Martinez-Canovas and J.E. González
Extremophiles **10** (2005) 17-26

Host-Plant Interference in *Sinorhizobium meliloti* Quorum Sensing.
N. Keshavan and J.E. González
Journal of Bacteriology **187** (2005) 8427-8436

Articles In Edited Volumes

Quorum Sensing
J. E. González
McGraw-Hill Yearbook of Science & Technology (2005) 37-45

Grants Awarded and Continued: Principal Investigator

Role of Exopolysaccharides in *Sinorhizobium meliloti*/Alfalfa
Symbiosis
J.E. González
National Science Foundation \$685,000 (2002-2006)

Quorum Sensing in *Sinorhizobium meliloti*
Juan E. González

National Institutes of Health (1R01GM069925) \$1,495,000 (07/1/05 to 6/30/10)

Role of Exopolysaccharides in Sinorhizobium meliloti/Alfalfa Symbiosis

Juan E. González

National Science Foundation (MCB-0517162) \$580,000 (8/1/05 to 7/31/08)

Summer Research Undergraduate Experiences

Juan E. González

National Science Foundation (MCB-0212537) Supplement \$10,000 (5/1/05 to 8/31/05)

Steven R. Goodman, C.L. and Amelia A. Lundell Professor of Life Sciences, Biochemistry; Director, Center for Sickle Cell Disease Research
B.S., State University of New York, Stony Brook, 1971
Ph.D., Saint Louis University Medical School, 1976

Articles in Refereed Journals

Spectrin and Ubiquitination: A Review

J. Hsu and S.R. Goodman

Cellular and Molecular Biology **51** (2005) OL801-OL807

Ubiquitination of Red Blood Cell α -Spectrin Does Not Effect Heterodimer Formation

M.H. Riahi, D.G. Kakhniashvili, and S.R. Goodman

American Journal of Hematology **78** (2005) 281-287

Spectrin's E2/E3 Ubiquitin Conjugating/Ligating Activity is Diminished in Sickle Cells

T.L. Chang, D.G. Kakhniashvili and S.R. Goodman

American Journal of Hematology, **79** (2005) 89-96

The Mouse Anterior Pituitary Gland: Analysis by Ion Trap Mass Spectrometry

C.A. Blake, D.G. Kakhniashvili and S.R. Goodman

Neuroendocrinology, **81** (2005) 229-243

Essential Role of a Ca²⁺ Selective, Store Operated Current (ISOC) in Endothelial Cell Permeability. Determination of the Vascular Leak Site

S. Wu, E. Cioffi, D. Alvarez, S. Sayner, H. Chen, D. Cioffi, J. King, J. Creighton, M. Townsley, S.R. Goodman and T. Stevens

Circulation Research **96** (2005) 856-863

Erythrocyte Spectrin's Chimeric E2/E3 Ubiquitin Conjugating/Ligating Activity

J. Hsu, W.E. Zimmer and S.R. Goodman

Cellular and Molecular Biology **51** (2005) 187-193

The Proteomics of Sickle Cell Disease: Profiling of Erythrocyte Membrane Proteins by 2D-DIGE and Tandem Mass Spectrometry

D.G. Kakhniashvili, N.B. Griko, L.A. Bulla Jr. and S.R. Goodman

Experimental Biology and Medicine **230** (2005) 787-792

Activation of the Endothelial Store-Operated Isoc Ca²⁺ Channel Requires Activation of Protein 4.1 with TRPC4

D.L. Cioffi, S. Wu, M. Alexeyev, S.R. Goodman, M.X. Zhu and

T. Stevens

Circulation Research **I97** (2005) 1164-1170

Articles in Conference Proceedings

Erythrocyte Spectrin is a Chimeric E2/E3 Ubiquitin Conjugating/Ligating Enzyme and the Impact of this Activity on Sickle Cell Disease

Y.J. Hsu and S.R. Goodman

National Sickle Cell Disease Program (2005)136

Proteomic Analysis of Changes in Normal Versus Sickle Red Blood Cell Membrane Proteins. D.G. Kakhniashvili, N.B. Griko, L.E. Bulla Jr. and

S.R. Goodman

National Sickle Cell Disease Program (2005) 129

The Endothelial ISOC Channel is Gated by Interaction of Protein 4.1 with TRPC4

D.L. Cioffi, M. Alexeyev, S. Wu, M.X. Zhu, S.R. Goodman and T.

Stevens

The FASEB Journal (2005) A694.2

The Discovery of Proteasomal Subunits in Human Erythrocytes: Relationship to Sickle Cell Disease

S.N. Neelam, D.G. Kakhniashvili and S.R. Goodman *National Sickle Cell*

Disease program (2005)

Grants Awarded and Continued: Principal Investigator

Disregulation of the Sickle Cell Skeleton

S. R. Goodman

NIH Grant HL070588 Project 1 \$1,110,000 (4/1/2003-3/31/2008)

Nobel Round-table Discussion on the Impact of Large Interdisciplinary & Inter-institutional Consortia on Conflict of Interest & Scientific Misconduct

Dr. S.R. Goodman

ORI-AAMC Grant \$10,000 (TC) (June 1, 2005 – January 22, 2006)

Warren J. Goux, Associate Professor of Chemistry
B.A., University of Southern California, 1971
Ph.D., University of California, Santa Barbara, 1977

Articles in Refereed Journals

Chemical characterization of the immunomodulating polysaccharide of Aloe vera L

Jimmy Tai-Nin Chow, David A. Williamson, Kenneth M. Yates and Warren J. Goux

Carbohydrate Research **340** (2005) 1131-1142

Articles in Conference Proceedings

Binding Characteristics of a Peptide-Based MRI Contrast Agent for the Detection of Alzheimer Disease

J. O'Neal, V. i D. Shanmuganandam W.J. Goux

Alzheimer's Association International Conference on Prevention of Dementia: Early Diagnosis and Intervention (June 18-21, 2005)

Grants Awarded and Continued: Principal Investigator

Profiling of Aloe Vera products

W.J. Goux

International Aloe Science Council \$8,415 (8/04-7/06)

Donald M. Gray, Professor, Molecular and Cell Biology
B.S., Susquehanna University, 1960
M.S., Yale University, 1963
Ph.D., Yale University, 1967

Grants Awarded and Continued: Principal Investigator

DNA Structures that Bind ssDNA-Binding Proteins

Donald M. Gray

Robert A. Welch Foundation Grant \$150,000 (June 1, 2004 - May 31, 2007)

Patents

Next-Nearest-Neighbor Sequence Determinants of Antisense DNA
Donald M. Gray
US Patent No. 6,957,148 (October 18, 2005)

Donovan C. Haines, Assistant Professor, Chemistry
B.S., Wichita State University, 1993
Ph.D., Wichita State University, 1998

Articles in Refereed Journals

Modulation of Zinc- and Cobalt-Binding Affinities through Changes in the Stability of the Zinc Ribbon Protein L36
W. Kou, H.S. Kolla, A. Ortiz-Acevedo, D.C. Haines, M. Junker, and G.R. Dieckmann, G.R.
Journal of Biological Inorganic Chemistry **10** (2005) 167-80

L-Canavanine Made by Alfalfa Interferes with Quorum Sensing in *Sinorhizobium meliloti*
N.D. Keshavan, P.K. Chowdhary, D.C. Haines, and J.E. Gonzalez
Journal of Bacteriology **187** (2005) 8427-36

Grants Awarded and Continued: Principal Investigator

Engineering an Efficient Cholesterol Hydroxylase from a Highly Active Fatty Acid Hydroxylase, CYP102A1
D.C. Haines
Welch Foundation \$150,000 (2005-2008)

Ernest M. Hannig, Associate Professor, Molecular and Cell Biology
B.S., Seton Hall University, 1976
M.S., Seton Hall University, 1979
Ph.D. Rutgers University, 1985

Articles in Refereed Journals

eIF5 is critical for integrity of scanning preinitiation complex and accurate control of GCN4 translation
C. R. Singh, C. Curtis, Y. Yamamoto, N. S. Hall, D. S. Kruse, H. He, E.M.

Hannig, and K. Asano
Molecular Cell Biology **25** (2005) 5480 – 5491

The eIF5 AA-box domain has two distinct interfaces for multifactor assembly and scanning
Y. Yamamoto, C. R. Singh, A. Marintchev, N. S. Hall, E. M. Hannig, G. Wagner, and K. Asano
Proceedings of the National Academy of Science USA **102** (2005) 16164-16169

Roderick A. Heelis, Professor, Physics;
Green Honors Endowed Chair of Physics;
Director, William B. Hanson Center for Space Sciences
B.S., University of Sheffield, 1969
Ph.D., University of Sheffield, 1973

Articles in Refereed Journals

Comparison of Topside equatorial Parameters Derived from DMSP, Jicamarca, and the SAMI2 Model
Sarita Venkatraman, R.A. Heelis and D.L. Hysell
Journal of Geophysical Research **110** A01307,
doi:10.1029/2004JA010613 (2005)

Seasonal and Longitudinal Variation of Large-Scale Topside Equatorial Plasma Depletions
M.A. Hei, R.A. Heelis and J.P. McClure
Journal of Geophysical Research **110** A12315,
doi:10.1029/2005JA011153 (2005)

Characteristics of ion velocity Structure at High Latitudes during Steady Southward IMF
E.S. Johnson and R.A. Heelis
Journal of Geophysical Research **110** A12301,
doi:10.1029/2005JA011130, (2005)

Theoretical study of the low and middle latitude ionospheric electron density enhancement during the October, 2003 superstorm: Relative importance of the neutral wind and the electric field
C.H. Lin, A.D. Richmond, R.A. Heelis, G.J. Bailey, G. Lu, J.Y. Liu, H.C. Yeh and S.-Y. Su
Journal of Geophysical Research **110**, A12312
doi:10.1029/2005JA011304, (2005)

John H. Hoffman, Professor of Physics
B.S., St. Mary's College, 1951
M.S., University of Minnesota, 1954
Ph.D., University of Minnesota, 1958

Grants Awarded and Continued: Principal Investigator

Mars Scout Phoenix Proposal Entitled: Phoenix Thermal Evolved Gas Analyzer Mass Spectrometer, Mission to Mars for 2007 Launch Opportunity
John H. Hoffman
Jet Propulsion Lab through University of Arizona \$4,399,200 (2003-2005)

Tether Electrodynamics Spin-up and Survivability Experiment
John H. Hoffman
(TESSX) NASA-STTR and Orbital Technologies Corp \$139,000 (2004-2005)

M. Ali Hooshyar, Professor, Mathematical Sciences
B.S., Indiana University, 1964
Ph.D., Indiana University, 1970

Authored Book

Nuclear Fission and Cluster Radioactivity: An Energy-Density Functional Approach
M.A. Hooshyar, I. Reichstein and F.B. Malik
Springer-Verlag, New York (2005) 200 p.

Mustapha Ishak-Boushaki, Assistant Professor, Physics
B.A., University of Quebec, 1994
B.S., University of Montreal, 1998
Ph.D., Queen's University, 2002

Articles in Refereed Journals

Probing decisive answers to dark energy questions from cosmic complementarity and lensing tomography
Mustapha Ishak-Boushaki
Monthly Notices of the Royal Astronomical Society **363** 2 (2005) 469-478

Spectroscopic source redshifts and parameter constraints from weak lensing and CMB

Mustapha Ishak-Boushaki and Christopher M. Hirata

Physical Review D **71** (2005) 023002

Dynamical dark energy: Current constraints and forecast

Amol Upadhye, Mustapha Ishak-Boushaki, Paul J. Steinhardt

Physical Review D **72** (2005) 063501

Joseph M. Izen, Professor, Physics

B.S., Cooper Union, 1977

A.M., Harvard University, 1978

Ph.D., Harvard University, 1982

Articles in Refereed Journals

Search for the W-Exchange Decays $B^0 \rightarrow D_s^{*-} D_s^{*+}$

(BaBar Collaboration) B. Aubert, et al.

Physical Review D **72**, (2005) 111101

<http://link.aps.org/abstract/PRD/V72/E111101>

Measurement of the Branching Ratios $\Gamma(D(S)^{*+} \rightarrow D(S)^+ \pi^0) / \Gamma(D(S)^{*+} \rightarrow D(S)^+ \gamma)$ and $\Gamma(D^*0 \rightarrow D^0 \pi^0) / \Gamma(D^*0 \rightarrow D^0 \gamma)$ □

(BaBar Collaboration) B. Aubert, et al.

Physical Review D **72**, (2005) 091101

<http://link.aps.org/abstract/PRD/V72/E091101>

Search for Decays of $B^0 \rightarrow E^+ E^-$, $B^0 \rightarrow \mu^+ \mu^-$, $B^0 \rightarrow E^+ \mu^-$

(BaBar Collaboration) B. Aubert

Physical Review Letters **94**, (2005) 221803

<http://link.aps.org/abstract/PRL/V94/P221803>

Measurements of the $B \rightarrow X(S \gamma)$ Branching Fraction and Photon Spectrum From a Sum of Exclusive Final States

(BaBar Collaboration) B. Aubert, et al.

Physical Review D **72**, (2005) 052004

<http://link.aps.org/abstract/PRD/V72/E052004>

A Study of $B \rightarrow C$ and $B \rightarrow U$ Interference in the Decay $B^- \rightarrow [K^+ \pi^-](D) K^{*-} \pi^-$ □

(BaBar Collaboration) B. Aubert, et al.

Physical Review D **72**, (2005) 071104

<http://link.aps.org/abstract/PRD/V72/E071104>

Measurement of the Time-Dependent CP-Violating Asymmetry in $B^0 \rightarrow K^0(S) \pi^0 \gamma$ Decays

(BaBar Collaboration) B. Aubert, et al.

Physical Review D **72**, (2005) 051103

<http://link.aps.org/abstract/PRD/V72/E051103>

Dalitz Plot Analysis of $D^0 \rightarrow \text{Anti-}K^0 K^+ K^-$

(BaBar Collaboration) B. Aubert, et al.

Physical Review D **72**, (2005) 052008

<http://link.aps.org/abstract/PRD/V72/E052008>

An Amplitude Analysis of the Decay $B^+ \rightarrow \pi^+ \pi^+ \pi^-$

(BaBar Collaboration) B. Aubert, et al.

Physical Review D **72**, (2005) 052002

<http://link.aps.org/abstract/PRD/V72/E052002>

Evidence for $B^+ \rightarrow \text{Anti-}K^0 K^+$ and $B^0 \rightarrow K^0 \text{Anti-}K^0$, and Measurement of the Branching Fraction and Search for Direct CP Violation in $B^+ \rightarrow K^0 \pi^+$

(BaBar Collaboration) B. Aubert, et al.

Physical Review Letters **95**, (2005) 221801

<http://link.aps.org/abstract/PRL/V95/P221801>

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(BaBar Collaboration) B. Aubert, et al.

Physical Review D **72**, (2005) 051101

<http://link.aps.org/abstract/PRD/V72/E051101>

A Precision Measurement of the $\Lambda^+(C)$ Baryon Mass

(BaBar Collaboration) B. Aubert, et al.

Physical Review D **72**, (2005) 052006

<http://link.aps.org/abstract/PRD/V72/E052006>

Dalitz-Plot Analysis of the Decays $B^+ \rightarrow K^+ \pi^+ \pi^-$

(BaBar Collaboration) B. Aubert, et al.

Physical Review D **72**, (2005) 072003

<http://link.aps.org/abstract/PRD/V72/E072003>

Study of $B \rightarrow \pi L \text{Nu}$ and $B \rightarrow \rho L \text{Nu}$ Decays and Determination of $|V_{ub}|$

(BaBar Collaboration) B. Aubert, et al.

Physical Review D **72**, (2005) 051102

<http://link.aps.org/abstract/PRD/V72/E051102>

Measurement of CP Observables for the Decays $B^{+-} \rightarrow D^0(\text{CP}) K^{*+,-}$
(BaBar Collaboration) B. Aubert, et al.
Physical Review D **72**, (2005) 071103
<http://link.aps.org/abstract/PRD/V72/E071103>

Measurement of Time-Dependent CP Asymmetries and the CP-Odd Fraction in the Decay $B^0 \rightarrow D^{*+} D^{*-}$
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **95**, (2005) 151804
<http://link.aps.org/abstract/PRL/V95/P151804>
Observation of a Broad Structure in the $\pi^+ \pi^- J/\psi$ Mass Spectrum around $4.26\text{-GeV}/c^2$
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **95**, (2005) 142001
<http://link.aps.org/abstract/PRL/V95/P142001>

Search for the Rare Decay $\text{Anti-}B^0 \rightarrow D^{*0} \gamma$
(BaBar Collaboration) B. Aubert, et al.
Physical Review D **72**, (2005) 051106
<http://link.aps.org/abstract/PRD/V72/E051106>

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(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **95**, (2005) 191801
<http://link.aps.org/abstract/PRL/V95/P191801>

Measurement of Double Charmonium Production in $E^+ E^-$ Annihilations at $\sqrt{s} = 10.6\text{-GeV}$
(BaBar Collaboration) B. Aubert, et al.
Physical Review D **72**, (2005) 031101
<http://link.aps.org/abstract/PRD/V72/E031101>

Determination of $|V_{ub}|$ From Measurements of the Electron and Neutrino Momenta in Inclusive Semileptonic B Decays
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **95**, (2005) 111801
<http://link.aps.org/abstract/PRL/V95/P111801>

Search for the Decay $\tau^- \rightarrow 4\pi^- 3\pi^+ (\pi^0) \text{Nu}(\tau)$
(BaBar Collaboration) B. Aubert, et al.
Physical Review D **72**, (2005) 012003
<http://link.aps.org/abstract/PRD/V72/E012003>

Search for the Rare Decays $B^+ \rightarrow D^{(*)+} K_0(S)$
(BaBar Collaboration) B. Aubert, et al.
Physical Review D **72**, (2005) 011102
<http://link.aps.org/abstract/PRD/V72/E011102>

Measurement of Time-Dependent CP Asymmetries in $B_0 \rightarrow D^{(*)} D$
Decays □
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **95**, (2005) 131802
<http://link.aps.org/abstract/PRL/V95/P131802>

Measurement of the Branching Fraction and Decay Rate Asymmetry of $B^- \rightarrow D(\pi^+ \pi^- \pi^0) K^-$ □
(BaBar Collaboration) B. Aubert, et al.
Physical Review D **72**, (2005) 071102
<http://link.aps.org/abstract/PRD/V72/E071102>

Search for $B \rightarrow U$ Transitions in B^- and $D_0 K^-$ and $B^- \rightarrow D^{*0} K^-$
(BaBar Collaboration) B. Aubert, et al.
Physical Review D **72**, (2005) 032004
<http://link.aps.org/abstract/PRD/V72/E032004>

Measurement of Gamma in $B^+ \rightarrow D^{(*)} K^+ \pi^- \pi^+$ Decays with a Dalitz
Analysis of $D \rightarrow K_0(S) \pi^- \pi^+$ □
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **95**, (2005) 121802
<http://link.aps.org/abstract/PRL/V95/P121802>

Measurement of Time-Dependent CP-Violating Asymmetries and
Constraints on $\sin(2\beta + \gamma)$ with Partial Reconstruction of $B \rightarrow D^{*-} \pi^+ \pi^-$ Decays □
(BaBar Collaboration) B. Aubert, et al.
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<http://link.aps.org/abstract/PRD/V71/E112003>

Production and Decay of $\Xi(C)0$ at BaBar □
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **95**, (2005) 142003
<http://link.aps.org/abstract/PRL/V95/P142003>

Evidence for the Decay $B^+ \rightarrow K^{*+} \pi^0$
(BaBar Collaboration) B. Aubert, et al.
Physical Review D **71**, (2005) 111101
<http://link.aps.org/abstract/PRD/V71/E111101>

Measurement of the Branching Fraction of Upsilon(4s) \rightarrow B0 Anti-B0
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **95**, (2005) 042001
<http://link.aps.org/abstract/PRL/V95/P042001>

Improved Measurement of the Ckm Angle Alpha Using B0(Anti-B0) \rightarrow
Rho+ Rho- Decays \square
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **95**, (2005) 041805
<http://link.aps.org/abstract/PRL/V95/P041805>

Measurement of Branching Fractions and Charge Asymmetries in B+
Decays to Eta Pi+, Eta K+, Eta Rho+ and Eta-Prime Pi+, and Search for B0
Decays to Eta K0 and Eta Omega \square
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **95**, (2005) 131803
<http://link.aps.org/abstract/PRL/V95/P131803>

Search for B \rightarrow J/Psi D Decays
(BaBar Collaboration) B. Aubert, et al.
Physical Review **D 71**, (2005) 091103
<http://link.aps.org/abstract/PRD/V71/E091103>

Measurement of the Branching Fraction and the CP-Violating Asymmetry
for the Decay B0 \rightarrow K0(S) Pi0 \square
(BaBar Collaboration) B. Aubert, et al.
Physical Review **D 71**, (2005) 111102
<http://link.aps.org/abstract/PRD/V71/E111102>

Measurement of the B0 \rightarrow D*- D(S)*+ and D(S)+ \rightarrow Phi Pi+
Branching Fractions \square
(BaBar Collaboration) B. Aubert, et al.
Physical Review **D 71**, (2005) 091104
<http://link.aps.org/abstract/PRD/V71/E091104>

Search for Lepton Flavor Violation in the Decay Tau+- \rightarrow Mu+- Gamma
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **95**, (2005) 041802
<http://link.aps.org/abstract/PRL/V95/P041802>

The E+ E- \rightarrow Pi+ Pi- Pi+ Pi-, K+ K- Pi+ Pi-, and K+ K- K+ K- Cross
Sections at Center-of-Mass Energies 0.5-Gev to 4.5-Gev Measured with
Initial-State Radiation
(BaBar Collaboration) B. Aubert, et al.

Physical Review D **71**, (2005) 052001
<http://link.aps.org/abstract/PRD/V71/E052001>

Measurement of CP Asymmetries in $B^0 \rightarrow \Phi K^0$ and $B^0 \rightarrow K^+ K^- K^0(S)$ Decays
(BaBar Collaboration) B. Aubert, et al.
Physical Review D **71**, (2005) 091102
<http://link.aps.org/abstract/PRD/V71/E091102>

Measurements of Branching Fractions and Time-Dependent CP-Violating Asymmetries in $B \rightarrow \eta' K$ Decays□
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **94**, (2005) 191802
<http://link.aps.org/abstract/PRL/V94/P191802>

A Search for CP Violation and a Measurement of the Relative Branching Fraction in $D^+ \rightarrow K^- K^+ \pi^+$ Decays□
(BaBar Collaboration) B. Aubert, et al.
Physical Review D **71**, (2005) 091101
<http://link.aps.org/abstract/PRD/V71/E091101>

Improved Measurements of CP-Violating Asymmetries in $B^0 \rightarrow \pi^+ \pi^-$ Decays
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **95**, (2005) 151803
<http://link.aps.org/abstract/PRL/V95/E151803>

Limit on the $B^0 \rightarrow \rho^0 \rho^0$ Branching Fraction and Implications for the CKM angle alpha
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **94**, (2005) 131801
<http://link.aps.org/abstract/PRL/V94/E131801>

Search for Strange-Pentaquark Production in $e^+ e^-$ Annihilation at $\sqrt{s} = 10.58$ GeV
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **95**, (2005) 042002
<http://link.aps.org/abstract/PRL/V95/E042002>

Search for Factorization-Suppressed $B \rightarrow \chi_c K^*$ Decays
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **94**, (2005) 171801
<http://link.aps.org/abstract/PRL/V94/E171801>

Search for the Radiative Decay $B \rightarrow \phi\gamma$

(BaBar Collaboration) B. Aubert, et al.

Physical Review D **72**, (2005) 091103

<http://link.aps.org/abstract/PRD/V72/E091103>

Measurement of Branching Fractions and Charge Asymmetries for Exclusive B Decays to Charmonium

(BaBar Collaboration) B. Aubert, et al.

Physical Review Letters **94**, (2005) 141801

<http://link.aps.org/abstract/PRL/V94/E141801>

Search for a Charged Partner of the $X(3872)$ in the B Meson Decay

$B \rightarrow X^- K$, $X \rightarrow J/\psi\pi^- \pi^0$

(BaBar Collaboration) B. Aubert, et al.

Physical Review D **71**, (2005) 031501

<http://link.aps.org/abstract/PRD/V71/E031501>

Branching Fractions and CP Asymmetries in $B^0 \rightarrow \pi^0\pi^0$, $B^+ \rightarrow \pi^+\pi^0$ and $B^+ \rightarrow K^+\pi^0$ Decays and Isospin Analysis of the $B \rightarrow \pi\pi$ System

(BaBar Collaboration) B. Aubert, et al.

Physical Review Letters **94**, (2005) 181802

<http://link.aps.org/abstract/PRL/V94/E181802>

A Search for CP Violation and a Measurement of the Branching Ratio in $D^+ \rightarrow K^+K^-\pi^+$ Decays

(BaBar Collaboration) B. Aubert, et al.

Physical Review D **71**, (2005) 091101

<http://link.aps.org/abstract/PRD/V71/E091101>

Measurement of Branching Fraction and Dalitz Distribution for

$B^0 \rightarrow D^{*\pm}K^-\pi^\mp$ decays

(BaBar Collaboration) B. Aubert, et al.

Physical Review Letters **95**, (2005) 171802

<http://link.aps.org/abstract/PRL/V95/E171802>

Measurements of B meson decays to ωK^* and $\omega\rho$

(BaBar Collaboration) B. Aubert, et al.

Physical Review D **71**, (2005) 031103

<http://link.aps.org/abstract/PRD/V71/E031103>

Improved Measurement of CP Asymmetries in $B^0 \rightarrow (c\bar{c})K^0$ Decays

(BaBar Collaboration) B. Aubert, et al.

Physical Review Letters **94**, (2005) 161803

<http://link.aps.org/abstract/PRL/V94/E161803>

A search for the decay $B^+ \rightarrow K^+ \nu \bar{\nu}$
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **94**, (2005) 101801
<http://link.aps.org/abstract/PRL/V94/E101801>

Search for $B^+ \rightarrow \rho^+ \gamma$, $B^0 \rightarrow \rho^0 \gamma$, and $B^0 \rightarrow \omega \gamma$
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **94**, (2005) 011801
<http://link.aps.org/abstract/PRL/V94/P011801>

Ambiguity-Free Measurement of $\cos 2\beta$: Time-Integrated and Time-Dependent Angular Analyses of $B \rightarrow J/\psi K \pi$
(BaBar Collaboration) B. Aubert, et al.
Physical Review **D 71**, (2005) 032005
<http://link.aps.org/abstract/PRD/V71/E032005>

Study of the τ^- to $3h^- 2h^+ \nu$ decay
(BaBar Collaboration) B. Aubert, et al.
Physical Review **D 72**, (2005) 072001
<http://link.aps.org/abstract/PRD/V72/E072001>

Measurement of the Ratio $Br(B^- \rightarrow D^{*0} K^-) / Br(B^- \rightarrow D^{*0} \pi^-)$ and of the CP Asymmetry of $B^- \rightarrow D^{*0}(CP+)K^-$ Decays
(BaBar Collaboration) B. Aubert, et al.
Physical Review **D 71**, (2005) 031102
<http://link.aps.org/abstract/PRD/V71/E031102>

Search for the Rare Leptonic Decay $B^- \rightarrow \tau^- \bar{\nu}_\tau$
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **95**, (2005) 041804
<http://link.aps.org/abstract/PRL/V95/E041804>

Measurement of the $\bar{B}^0 \rightarrow D^{*+} \ell^- \bar{\nu}$ Decay Rate and V_{cb}
(BaBar Collaboration) B. Aubert, et al.
Physical Review **D 71**, (2005) 051502
<http://link.aps.org/abstract/PRD/V71/E051502>

Measurements of the Branching Fraction and CP-Violation Asymmetries in $B^0 \rightarrow f_0(980)K_s^0$
(BaBar Collaboration) B. Aubert, et al.
Physical Review Letters **94**, (2005) 041802

<http://link.aps.org/abstract/PRL/V94/E041802>

Study of the $B^- \rightarrow J/\psi K^- \pi^+ \pi^-$ Decay and Measurement of the
 $B^- \rightarrow X(3872)K^-$ Branching Fraction
(BaBar Collaboration) B. Aubert, et al.
Physical Review D **71**, (2005) 071103
<http://link.aps.org/abstract/PRD/V71/E071103>

A Measurement of the Total Width, the Electronic Width, and the Mass of
the Upsilon (10580) Resonance
(BaBar Collaboration) B. Aubert, et al.
Physical Review D **72**, (2005) 032005
<http://link.aps.org/abstract/PRD/V69/E111103/>

Grants Awarded and Continued: Principal Investigator

Elementary Particle Physics
Joe Izen and Xinchou Lou (Co-PIs)
Department of Energy \$955,249 (4/15/04 – 4/14/07)

Cynthia E. Ledbetter, Associate Professor, Science Education
B.S., University of Texas at Arlington, 1974
M.A.T., University of Texas at Dallas, 1983
Ph.D., Texas A&M University, 1987

Articles in Refereed Journals

Evaluating an integrated science learning environment using the
Constructivist Learning Environment Survey (CLES)
R.K. Nix, B.J. Fraser and C.E. Ledbetter
Environments Research **8**, (2005) 109 – 133

Articles in Conference Proceedings

Taking them to the top: Benefits of long-term, sustained professional
development
R. Nix and C. E. Ledbetter
School, Science and Mathematics Annual Convention,
Ft. Worth, TX. : (November, 2005) 42

Tackling the TAKS with Penny Ante Science
C. Ledbetter and F. Fifer
Conference for the Advancement of Science Teaching

Houston, TX: (October, 2005) 112

Using science student perceptions of the classroom learning environment
to evaluate a professional development program

R. Nix, B. Fraser and C. E. Ledbetter

*International Conference on Science, Mathematics, and Technology
Education*

Victoria BC, Canada (August, 2005) CD

Grants Awarded and Continued: Principal Investigator

UTD-DISD-NSF LABORatory Enhancement Program

Cynthia E. Ledbetter, CO-I

National Science Foundation \$98,700 (2004-2005)

Taking Them to the Top: Cultivating and Integrated Science Learning
Environment

Cynthia E. Ledbetter

Texas Higher Education Coordinating Board \$160,000 (2004-2006)

MAT-SE Online

Cynthia E. Ledbetter, CO-I

University of Texas TeleCampus \$79,435 (2005-2007)

Stephen D. Levene, Associate Professor, Molecular and Cell Biology

A.B., Columbia University, 1979

Ph.D., Yale University, 1985

Articles in Refereed Journals

Bulge defects do not destabilize negatively supercoiled DNA

L. You and S.D. Levene

Journal of Biophysics **89**, (2005) L43-L45

Structural aspects of RecA-dependent homologous strand exchange
involving human telomeric DNA

S.S. Zein and S.D. Levene

Biochemistry **44**, (2005) 4817-4828

Matthew I. Leybourne, Assistant Professor, Geosciences

B.Sc., Waikato University, New Zealand, 1985

M.Sc., Acadia University, Nova Scotia, 1988

Ph.D., University of Ottawa, Ontario, 1998

Articles in Refereed Journals

Relationship between groundwater chemistry and soil geochemical anomalies at the Spence Copper Porphyry deposit
E.M. Cameron and M.I. Leybourne
Geochemistry: Exploration, Environment, Analysis **5** (2005) 135-145

Exploring for deposits under deep cover using geochemistry
E.M. Cameron, M.I. Leybourne and D.L. Kelley
SEG Newsletter **63** (2005) 5-15

Articles In Edited Volumes

Rare earth elements (REE) and Nd and Sr isotopes in groundwater and suspended sediments: water-rock reactions and elemental fractionation
M.I. Leybourne and B.L. Cousens
Rare Earth Elements in Groundwater Flow Systems edited by K.H. Johannesson
Kluwer: (2005) 254-293

Articles in Conference Proceedings

Late Ordovician to Silurian arc and back-arc sequences: southwestern New Brunswick and eastern Maine
N. Van Wagoner, M. McLeod, K. Dadd and M. Leybourne
GAC-MAC Annual Meeting, Halifax, Nova Scotia (May 2005)

Distribution of Selenium in Volcanogenic Massive Sulfide Deposits: Consequences for Mineral Exploration and Resource Evaluation
D. Layton-Matthews, J.M. Peter, S.D. Scott and M.I. Leybourne
Canadian Institute of Mining Conference, Toronto, Canada (April 2005)

New Geochemical and Geochronologic Constraints on the Balcones Igneous Province, Texas
W.R. Griffin, K.A. Foland, J.A. Breyer, S.C. Bergman and M.I. Leybourne
GSA South-Central, San Antonio, TX (April 2005)

XinChou Lou, Professor, Experimental Particle Physics
B.S., University of Science and Technology of China, 1984
M.S., State University of New York, Albany, 1985
Ph.D., State University of New York, Albany, 1989

Articles in Refereed Journals

Observation Of A Broad Structure In The $\pi^+\pi^-J/\psi$ Mass Spectrum Around 4.26-Gev/C²

By BABAR Collaboration (B. Aubert et al.)
Physical Review Letters **95** (2005) 142001

Measurement Of Double Charmonium Production In E⁺ E⁻ Annihilations At 10.6-Gev.

By BABAR Collaboration (B. Aubert et al.)
Physical Review (2005) D72:031101

Search For The W-Exchange Decays B⁰ ---> D(S)(*)⁻ D(S)(*)⁺

By BABAR Collaboration (B. Aubert et al.)
Physics Review **D72** (2005) 111101

A Study of B ---> C And B ---> U Interference In The Decay B⁻ ---> [K⁺ PI⁻](D) K*⁻

By BABAR Collaboration (B. Aubert et al.)
Physics Review **D72** (2005) 071104

Measurements of The B ---> X(S Gamma) Branching Fraction and Photon Spectrum From a Sum of Exclusive Final States

By BABAR Collaboration (B. Aubert et al.)
Physics Review **D72** (2005) 052004

Measurement Of The Branching Ratios Gamma(D(S)*⁺ ---> D(S)⁺ Pi⁰) / Gamma(D(S)*⁺ ---> D(S)⁺ Gamma) And Gamma(D*⁰ ---> D⁰ Pi⁰) / Gamma(D*⁰ ---> D⁰ Gamma)

By BABAR Collaboration (B. Aubert et al.)
Physics Review **D72** (2005) 091101

Measurement Of Cp Observables For The Decays B⁺ ---> D⁰(Cp) K*⁺

By BABAR Collaboration (B. Aubert et al.)
Physics Review **D72** (2005) 071103

Study Of B ---> Pi L Nu And B ---> Rho L Nu Decays And Determination Of |V(Ub)|

By BABAR Collaboration (B. Aubert et al.)
Physics Review **D72** (2005) 051102

Dalitz-Plot Analysis Of The Decays B⁺ ---> K⁺ Pi⁺ Pi⁺

By BABAR Collaboration (B. Aubert et al.)
Physics Review **D72** (2005) 072003

A Precision Measurement Of The Lambda+(C) Baryon Mass
By BABAR Collaboration (B. Aubert et al.)
Physics Review D **72** (2005) 052006

Measurement Of The B+ ---> P Anti-P K+ Branching Fraction And Study
Of The Decay Dynamics
By BABAR Collaboration (B. Aubert et al.)
Physics Review D **72** (2005) 051101

Evidence For B+ ---> Anti-K0 K+ And B0 ---> K0 Anti-K0, And
Measurement Of The Branching Fraction And Search For Direct Cp
Violation In B+ ---> K0 Pi+
By BaBar Collaboration (B. Aubert et al.)
Physical Review Letters **95** (2005) 221801

An Amplitude Analysis Of The Decay B+- ---> Pi+- Pi+- Pi+
By BABAR Collaboration (B. Aubert et al.)
Physics Review D **72** (2005) 052002,2005

Dalitz Plot Analysis Of D0 ---> Anti-K0 K+ K-
By BABAR Collaboration (B. Aubert et al.)
Physics Review D **72** (2005) 052008

Measurement Of The Time-Dependent Cp-Violating Asymmetry In B0 ---
> K0(S) Pi0 Gamma Decays
By BaBar Collaboration (B. Aubert et al.)
Physics Review D **72** (2005) 051103

Search For The Decay Tau- To 4pi- 3pi+ (Pi0) Nu(Tau)
By BABAR Collaboration (B. Aubert et al.)
Physics Review D **72** (2005) 012003

Determination Of |Vub| From Measurements Of The Electron And
Neutrino Momenta In Inclusive Semileptonic B Decays
By BABAR Collaboration (B. Aubert et al.)
Physical Review Letters **95** (2005) 111801

Measurement Of Double Charmonium Production In E+ E- Annihilations
At S**(1/2) = 10.6-GeV
By BABAR Collaboration (B. Aubert et al.)
Physics Review D **72** (2005) 031101

Search For Lepton-Flavor And Lepton-Number Violation In The Decay
Tau- ---> L-+ H+- H'-
By BaBar Collaboration (B. Aubert et al.)

Physical Review Letters **95** (2005) 191801

Search For The Rare Decay Anti-B0 \rightarrow D*0 Gamma

By BABAR Collaboration (B. Aubert et al.)

Physics Review **D72** (2005) 051106

Observation Of A Broad Structure In The Pi+ Pi- J / Psi Mass Spectrum
Around 4.26-Gev/C**2

By BABAR Collaboration (B. Aubert et al.)

Physical Review Letters **95** (2005) 142001

Measurement Of Time-Dependent Cp Asymmetries And The Cp-Odd
Fraction In The Decay B0 \rightarrow D*+ D*-

By BaBar Collaboration (B. Aubert et al.)

Physical Review Letters **95** (2005)151804

Study Of The Tau- \rightarrow 3h- 2h+ Tau-Neutrino Decay

By the BABAR Collaborations (B. Aubert et al.)

Physics Review **D72** (2005) 072001

Measurement Of The Branching Fraction And Decay Rate Asymmetry Of
B- \rightarrow D(Pi+ Pi= Pi) K-

By BABAR Collaboration (B. Aubert et al.)

Physics Review **D72** (2005) 071102

Measurement Of Time-Dependent Cp Asymmetries In B0 \rightarrow D(*)D
Decays

By BABAR Collaboration (B. Aubert et al.)

Physical Review Letters **95** (2005) 131802

Search For The Rare Decays B+ \rightarrow D(*)+ K0(S)

By BABAR Collaboration (B. Aubert et al.)

Physics Review **D72** (2005) 011102

Measurement Of The Branching Fraction Of Upsilon(4s) \rightarrow B0 Anti-B0

By BABAR Collaboration (B. Aubert et al.)

Physical Review Letters **95** (2005) 042001

Evidence For The Decay B+- \rightarrow K*+- Pi0

By BABAR Collaboration (B. Aubert et al.)

Physics Review **D71** (2005)111101

Production And Decay Of Xi(C)0 At Babar.

By BABAR Collaboration (B. Aubert et al.)

Physical Review Letters **95** (2005)142003

Measurement Of Time-Dependent Cp-Violating Asymmetries And Constraints On $\sin(2\beta + \gamma)$ With Partial Reconstruction Of $B \rightarrow D^{*-} \pi^+$ Decays

By BABAR Collaboration (B. Aubert et al.)
Physics Review **D71** (2005) 112003

Measurement Of γ In $B \rightarrow D^{*0} K^+$ Decays With A Dalitz Analysis Of $D \rightarrow K^0(S) \pi^+ \pi^-$

By BABAR Collaboration (B. Aubert et al.)
Physical Review Letters **95** (2005) 121802

Search For $B \rightarrow U$ Transitions In B^- And $D^0 K^-$ And $B \rightarrow D^{*0} K^-$

By BABAR Collaboration (B. Aubert et al.)
Physics Review **D72** (2005) 032004

Measurement Of The Branching Fraction And The Cp-Violating Asymmetry For The Decay $B^0 \rightarrow K^0(S) \pi^0$

By BABAR Collaboration
Physics Review **D71** (2005)111102

Search For $B \rightarrow J/\psi D$ Decays

By BABAR Collaboration (B. Aubert et al.)
Physics Review **D71** (2005) 091103

Measurement Of Branching Fractions And Charge Asymmetries In B^+ Decays To $\eta \pi^+$, $\eta' \pi^+$, $\eta \rho^+$ And $\eta' \pi^+$, And Search For B^0 Decays To ηK^0 And $\eta \omega$

By BABAR Collaboration (B. Aubert et al.)
Physical Review Letters **95** (2005)131803

Improved Measurement Of The Ckm Angle α Using $B^0(\text{Anti-}B^0) \rightarrow \rho^+ \rho^-$ Decays

By BABAR Collaboration (B. Aubert et al.)
Physical Review Letters **95** (2005) 041805

Search For Strange-Pentaquark Production In $e^+ e^-$ Annihilation At $\sqrt{s} = 10.58\text{-GeV}$ And In $\Upsilon(4S)$ Decays

By BABAR Collaboration (B. Aubert et al.)
Physical Review Letters **95** (2005) 042002

Branching Fraction and Cp Asymmetries of $B^0 \rightarrow K^0(S) K^0(S) K^0(S)$

By BABAR Collaboration (B. Aubert et al.)
Physical Review Letters **95** (2005) 011801

Measurements of Branching Fractions and Time-Dependent Cp-Violating Asymmetries In $B \rightarrow \eta' K$ Decays
By BaBar Collaboration (B. Aubert et al.)
Physical Review Letters **94** (2005)191802

Measurement of Cp Asymmetries In $B^0 \rightarrow \phi K^0$ And $B^0 \rightarrow K^+ K^- K^0(S)$ Decays
By BABAR Collaboration (B. Aubert et al.)
Physics Review **D71** (2005) 091102

The $e^+ e^- \rightarrow \pi^+ \pi^- \pi^+ \pi^-$, $K^+ K^- \pi^+ \pi^-$, and $K^+ K^- K^+ K^-$ Cross Sections At Center-Of-Mass Energies 0.5-GeV to 4.5-GeV Measured With Initial-State Radiation
By BABAR Collaboration (B. Aubert et al.)
Physics Review **D71** (2005) 052001

Search For Lepton Flavor Violation In The Decay $\tau^+ \rightarrow \mu^+ \gamma$
By BABAR Collaboration (B. Aubert et al.)
Physical Review Letters **94** (2005) 041802

Measurement Of The $B^0 \rightarrow D^{*-} D(S)^+_{*+}$ And $D(S)^+ \rightarrow \phi \pi^+$ Branching Fractions
By BaBar Collaboration (B. Aubert et al.)
Physics Review **D71** (2005) 091104

Search For The Radiative Decay $B^0 \rightarrow \phi \gamma$
By BABAR Collaboration (B. Aubert et al.)
Physics Review **D72** (2005)091103

Search For Factorization-Suppressed $B \rightarrow \chi(C) K^*$ Decays
By BABAR Collaboration
Physical Review Letters **94** (2005)171801

Improved Measurements of Cp-Violating Asymmetry Amplitudes In $B^0 \rightarrow \pi^+ \pi^-$ Decays
By BaBar Collaboration (B. Aubert et al.)
Physical Review Letters **95** (2005)151803

A Search For Cp Violation And A Measurement Of The Relative Branching Fraction In $D^+ \rightarrow K^- K^+ \pi^+$ Decays
By BABAR Collaboration (B. Aubert et al.)
Physics Review **D71** (2005) 091101

Search For Decays of $B^0 \rightarrow e^+ e^-$, $B^0 \rightarrow \mu^+ \mu^-$, $B^0 \rightarrow$

e⁺- mu⁺
By BABAR Collaboration (B. Aubert et al.)
Physical Review Letters **94** (2005) 221803

Grants Awarded and Continued: Principal Investigator

Elementary Particle Physics
Joe Izen and Xinchou Lou (Co-PIs)
Department of Energy \$720,000 (4/15/04 – 4/14/07)

Alan G. Macdiarmid, Professor, Physics and Chemistry;
James Von Ehr Distinguished Chair in Science and Technology
B.S., University of New Zealand, 1948
M.S., University of New Zealand, 1950
M.S., University of Wisconsin, 1952
Ph.D., University of Wisconsin, 1953
Ph.D., Cambridge University, 1955

Articles in Refereed Journals

Controlled Interconversion of Semiconducting and Metallic Forms of
Polyaniline Nanofibers
David M. Sarno, Sanjeev K. Manohar and Alan G. MacDiarmid
Synthetic Metals **148** (2005) 237-243

Chemical Synthesis of PEDOT Nanofibers
X.Y. Zhang, A.G. MacDiarmid and S.K. Manohar
Chemical Communications **42** (2005) 5328-5330

Plastic Electronic Devices Through Line Patterning of Conducting
Polymers
D. Hohnholz, H. Okuzaki and A.G. MacDiarmid
Advanced Functional Materials **15** (2005) 51-56

Absolute Molecular Weight of Polyaniline
H.S. Kolla, S.P. Surwade, X.Y. Zhang, A.G. MacDiarmid and S.K.
Manohar
Journal of the American Chemical Society **127** (2005) 16770-16771

Article in Edited Volumes

Electrostatically Generated Nanofibers for Wearable Electronics
Frank K. Ko, Afaf El-Auf, Hoa Lam and Alan G. MacDiarmid
Wearable Electronics and Photonics, edited by Xiaoming Tao
Cambridge, England, Woodhead Publishing Ltd. (2005) 13-40

Grants Awarded and Continuing: Principal Investigator

Conducting Polymers as New Materials for Hydrogen Storage
Alan G. MacDiarmid
U.S. Department of Energy (DOE), \$ 75,000 (Jan. 01- Sept. 31, 2005)

George A. McMechan, Professor, Geosciences
Director, Center for Lithospheric Studies;
Ida M. Green Professor
B.A.Sc., University of British Columbia, 1970
M.S., University of Toronto, 1971
B.Sc., University of Victoria, 1983

Articles in Refereed Journals

Parsimonious poststack 3-D Kirchhoff migration
Biaolong Hua and George McMechan
Geophysical Prospecting, **53** (2005) 507-522

Fast 2-D model-based migration velocity analysis and reflector shape
estimation
Weihong Fei and George McMechan
Geophysics, **70** (2005)U9-U17

Integrated study of ancient delta front deposits using outcrop, ground-
penetrating radar, and three dimensional photorealistic data
Cornel Olariu, Janok Bhattacharya, Xueming Xu, Carlos Aiken,
Xiaoxian Zeng and George McMechan
Society for Sedimentary Geology, Special Publication **83** (2005)155-177

Identification of shallow water flow sands by Vp/Vs inversion of
conventional 3D seismic data
Shaoming Lu and George McMechan
Geophysics, **70** (2005) O29-O37

3-D modeling of fracture-induced shear-wave splitting in the Southern
California Basin
Suresh Nistala and George McMechan
Bulletin of the Seismological Society of America, **95** (2005) 1090-1100

A GPR survey of a delta-front reservoir analog in the Wall Creek
Member, Frontier Formation, Wyoming
Keumsuk Lee, Xiaoxian Zeng, George McMechan, Chuck Howell, Janok

Bhattacharya, Fanny Marcy, and Cornel Olariu
American Association of Petroleum Geologists Bulletin, **89** (2005)
1139-1155

3-D ray-based synthesis of zero-offset P-wave and P-to-S converted wave sections for anisotropic media
Andrey Ortega and George McMechan
Journal of Seismic Exploration, **13** (2005) 353-372

Grants Awarded and Continued: Principal Investigator

UT-Dallas Geophysical Consortium
G. A. McMechan
Industrial Consortium \$180,000 (2005)

3-D sedimentological and geophysical studies of clastic reservoir analogs: Facies architecture, reservoir properties, and flow behavior within delta front facies elements of the Cretaceous Wall Creek Member, Frontier Formation, Wyoming
G. A. McMechan with J. Bhattacharya
DOE, \$452,797 (June 1, 2001 to December 2005)

Sanjeev K. Manohar, Research Associate Professor, Chemistry
B.Sc., University of Madras, 1979
M.Sc., University of Madras, 1981
M.S., Southern Illinois University, 1986
Ph.D., University of Pennsylvania, 1992

Articles in Refereed Journals

Targeted Nanoparticles for Drug Delivery through the Blood-Brain Barrier for Alzheimer's Disease
C. Roney, V. Arora, M. Bennet, P.V. Kulkarni, P. Antich, F. Bonte, A. Wu, S.K. Manohar, M. Sairam and T. M. Aminabhavi
Journal of Controlled Release **108** (2005) 193

Absolute Molecular Weight of Polyaniline
H.S. Kolla, S.P. Surwade, X. Zhang, A.G. MacDiarmid and S.K. Manohar
Journal of the American Chemical Society **127** (2005) 16770

Narrow Pore-diameter Polypyrrole Nanotubes
X. Zhang and S.K. Manohar
Journal of the American Chemical Society **127** (2005) 14156

Chemical Synthesis of PEDOT Nanofibers
X. Zhang, A.G. MacDiarmid, and S.K. Manohar
Chemical Communications **42** (2005) 5328

Chemical Synthesis of Highly Conducting Polypyrrole Nanofiber Film
A. Wu, H.S. Kolla and S.K. Manohar
Macromolecules **38** (2005) 7873

Novel High Dielectric Constant Nanocomposites of Polyaniline Dispersed
with γ -Fe₂O₃ Nanoparticles
N.N. Mallikarjuna, S.K. Manohar, P.V. Kulkarni and T.M. Aminabhavi
Journal of Applied Polymer Science **97** (2005) 1868

Controlled Interconversion of Semiconducting and Metallic Forms of
Polyaniline Nanofibers
D.M. Sarno, S.K. Manohar and A.G. MacDiarmid
Synthetic Metals **148** (2005) 237

Versatile Carbon Nanotubes: Synthesis, Purification and Their
Applications
N.N. Mallikarjuna, S.K. Manohar and T.M. Aminabhavi
Polymer News **30** (2005) 6

Controlled Interconversion of Semiconducting and Metallic Forms of
Polyaniline Nanofibers
David M. Sarno, Sanjeev K. Manohar Alan G. MacDiarmid
Synthetic Metals **148** (2005) 237

Versatile Carbon Nanotubes: Synthesis, Purification and Their
Applications
Nadagouda N. Mallikarjuna, Sanjeev K. Manohar and
Tejraj M. Aminabhavi
Polymer News **30** (2005) 6

William I. Manton, Professor, Geosciences
B.Sc., University of the Witwatersrand, 1959
B.Sc., Honours, University of the Witwatersrand, 1960
M.S., University of the Witwatersrand, 1963
Ph.D., University of the Witwatersrand, 1968

Articles in Refereed Journals

Origin of lead in the United States diet
W.I. Manton, C.R. Angle and K.L. Stanek Krogsrand

Environ Sci Technol. **39** (2005) 8995-9000

Grants Awarded and Continued: Principal Investigator

Sample Analysis

William I. Manton

Various sources \$14,400 for 2005, \$216,640 to date (1995-2005)

Lynn A. Melton, Professor of Chemistry
B.S., California Inst. of Technology, 1966
M.A., Harvard University, 1972
Ph.D., Harvard University, 1972

Grants Awarded and Continued: Principal Investigator

A Series of Workshops in the Chemical Sciences: Practical Aspect of
Process Analytical Chemistry

Lynn A. Melton

Georgia State University (as administrator for NSF funding), \$18,276.00
(1/25/2005-6/2006)

Dennis L. Miller, Associate Professor, Molecular and Cell Biology
B.A., University of Northern Iowa, 1969
Ph.D., University of Iowa, 1979

Articles in Refereed Journals

The myxomycete genus *Schenella*: morphological and DNA sequence
evidence for synonymy with the gasteromycete genus *Pyrenogaster*
Arturo Estrada-Torres, Thomas W. Gaither, Dennis L. Miller, Carlos Lado
and Harold W. Keller
Mycologia **97** (2005) 139 – 149

Nathan R. Miller, Senior Lecturer, Geosciences
B.A., The College of Wooster, 1982
M.S. Bowling Green State University, 1985
Ph.D., The University of Texas at Dallas, 1995

Articles in Refereed Journals

Mass-production of Cambro-Ordovician quartz-rich sandstone as a
consequence of chemical weathering of Pan-African terranes:

Environmental Implications

D. Avigad, A. Sandler, K. Kolodner, Robert J. Stern, M. McWilliams,
Nathan R. Miller and Michael Beyth

Earth and Planetary Science Letters **240** (2005) 818-826

Articles in Conference Proceedings

Carbonate Chemical and Petrographic Trends in an Ediacaran? Post-amalgamation Basin, NE Arabian Shield

Nathan R. Miller, Brittney Blake, Robert J. Stern and P.R. Johnson

GSA National Meeting Salt Lake City, UT, (December 2005)

Remote Sensing and GIS as a Cyber-reconnaissance tool in Northern Ethiopia and Southern Eritrea

Erik Friesen, Nathan R. Miller, Robert J. Stern, S. Arafat and Mohamed G. Abdelsalam

GSA National Meeting Salt Lake City, UT, (December 2005)

Probing the Neoproterozoic Hydrologic Cycle from Silicate Weathering Indices: Applications for Snowball Earth?

Dean Tuck, Nathan R. Miller and Robert J. Stern

GSA National Meeting Salt Lake City, UT, December 2005

A neodymium perspective for the Neoproterozoic banded iron formations from the Arabian Nubian Shield - A snowball Earth manifestation?

S.K. Mukherjee, R.J. Stern, W.I. Manton, P.R. Johnson, and N.R. Miller

Geological Society of America Abstracts with Programs **37** (2005) 7, 358

Homer Montgomery, Assistant Professor, Science Education and
Mathematical Sciences

B.S., University of Texas, Austin, 1982

Ph.D., University of Texas, Dallas, 1988

Articles in Refereed Journals

Constructivist Pedagogical Preferences of Undergraduate Students in Geoscience Service Courses at the University of Texas at Dallas

H. Montgomery

The Texas Science Teacher **34(1)** (2005) 25-30

What I Have Learned While Teaching Science to Undergraduates

H. Montgomery

The Texas Science Teacher **34(1)** (2005) 5-7

What Does a Field Scientist Do?
H. Montgomery
The Texas Science Teacher **34(2)** (2005) 5-6

When Humans Interact with a Volcano - Tragedy of Historic Proportions.
H. Montgomery
The Texas Science Teacher **34(2)** (2005)30-37

Grants Awarded and Continued: Principal Investigator

Regional Collaborative for Excellence in Science Education
H.. Montgomery
University of Texas at Austin, \$23,000 (2004-2005)

Regional Collaborative for Excellence in Science Education
H. Montgomery
University of Texas at Austin, \$105,000 (2004-2005)

Teaching Environmental Science
H. Montgomery
Texas Commission on Environmental Quality, \$20,000 (2005)

UTD/Mesquite ISD Integrated Physics and Chemistry Program
H. Montgomery
Texas Education Agency, \$79,819 (2004-2005)

UTD/Richardson ISD 8th Grade Program
H. Montgomery
Texas Education Agency, \$79,884 (2004-2005)

Inga H. Musselman, Associate Professor, Chemistry
B.A., Gettysburg College, 1982
Ph.D., University of North Carolina at Chapel Hill, 1988

Articles in Refereed Journals

Peptide Cross-Linking Modulated Stability and Assembly of Peptide-
Wrapped Single-Walled Carbon Nanotubes
Hui Xie, Alfonso Ortiz-Acevedo, Vasiliki Zorbas, Ray H. Baughman,
Rockford K. Draper, Inga H. Musselman, Alan B. Dalton and Gregg R.
Dieckmann
Journal of Materials Chemistry **15** (2005) 1734-1741

Diameter-Selective Solubilization of Single-Walled Carbon Nanotubes by

Reversible Cyclic Peptides

Alfonso Ortiz-Acevedo, Hui Xie, Vasiliki Zorbas, William M. Sampson, Alan B. Dalton, Ray H. Baughman, Rockford K. Draper, Inga H. Musselman and Gregg R. Dieckmann
Journal of the American Chemical Society **127** (2005) 9512-9517

Nanotube Network Transistors from Peptide-Wrapped Single-Walled Carbon Nanotubes

Marc in Het Panhuis, Srinivas Gowrisanker, Douglas J. Vanesko, Charles A. Mire, Huiping Jia, Hui Xie, Ray H. Baughman, Inga H. Musselman, Gregg R. Dieckmann and Rockford K. Draper
Small **1** (2005) 820-823

Importance of Aromatic Content for Peptide/Single-Walled Carbon Nanotube Interactions

Vasiliki Zorbas, Amy L. Smith, Alfonso Ortiz-Acevedo, Hui Xie, Alan B. Dalton, Gregg R. Dieckmann, Rockford K. Draper, Ray H. Baughman and Inga H. Musselman
Journal of the American Chemical Society **127** (2005) 12323-12328

Articles in Conference Proceedings

Monitoring Reactive Oxygen Species Dynamics from Human Epithelial-like Cells Exposed to Single Walled Carbon Nanotubes

Shook-Fong Chin, Amy L. Smith, Ray H. Baughman, Gregg R. Dieckmann, Rockford K. Draper, Inga H. Musselman and Paul Pantano
229th ACS National Meeting San Diego, CA: (March 2005)

Novel Mixed-Matrix Membranes Based on Mesoporous Molecular Sieves and Hybrid Frameworks

Kenneth R. Balkus, Jr., Yanfeng Zhang, Inga H. Musselman and John P. Ferraris
16th Annual Conference of the North American Membrane Society (NAMS 2005)
Providence, RI: (June 2005)

Gas Permeability Properties of Matrimid Membranes Containing Material with Both Micropores and Mesopores

Yanfeng Zhang, Kenneth J. Balkus, Jr., Inga H. Musselman and John P. Ferraris
16th Annual Conference of the North American Membrane Society (NAMS 2005)
Providence, RI: (June 2005)

Importance of Aromatic Content for Peptide/Single-Walled Carbon

Nanotube Interactions

V. Zorbas, A. L. Smith, A. Ortiz-Acevedo, H. Xie, G. R. Dieckmann,
R. K. Draper, R. H. Baughman and I. H. Musselman
Proceedings of Microscopy and Microanalysis 2005 Honolulu, HI:
(July/August 2005) 1410-1411

Grants Awarded and Continued: Principal Investigator

Chemical Contrast in STM Images of Materials for Molecular
Scale Sensors and Device Structures

I. H. Musselman

Robert A. Welch Foundation \$150,000 (2002-2005)

Mixed-Matrix Membranes for CO₂ and H₂ Gas Separations Using
Metal-Organic Frameworks and Mesoporous Hybrid Silicas

Inga Holl Musselman (PI), Kenneth J. Balkus, Jr. and John P. Ferraris
(Co-PIs)

Department of Energy – University Coal Research \$200,000 with \$25,000
matching funds from UTD (7/1/04 to 6/30/07)

Composite Membranes for Gas Separations

Inga Holl Musselman

Mobil Technology Company, Mobil Strategic Research Center \$48,000
(2003-2005)

Mixed Matrix Membranes for Gas Separation Using Nanoporous Metal
Oxides and Metal Organic Frameworks

Inga Musselman

The Higher Education Coordinating Board – Advanced Technology
Program \$150,000 (1/01/04 to 12/31/06)

Steven O. Nielsen, Assistant Professor, Chemistry

B.S., Queen's University, 1996

M.S., University of Toronto, 1998

Ph.D., University of Toronto, 2001

Articles in Refereed Journals

Incorporating a hydrophobic solid into a coarse grain liquid framework:
graphite in an aqueous amphiphilic environment

S.O. Nielsen, G. Srinivas and M.L. Klein

Journal of Chemical Physics **123** (2005) 124907

Dissipative particle dynamics simulations of polymersomes

V. Ortiz, S.O. Nielsen, D.E. Discher, M.L. Klein, R. Lipowsky and J. Shillcock

Journal of Physical Chemistry B **109** (2005) 17708-17714

Modeling surfactant adsorption on hydrophobic surfaces

S.O. Nielsen, G. Srinivas, C.F. Lopez and M.L. Klein

Physical Review Letters **94** (2005) 228301

Modeling surfactant adsorption on hydrophobic surfaces

S.O. Nielsen, G. Srinivas, C.F. Lopez and M.L. Klein

Virtual Journal of Nanoscale Science & Technology (June 20, 2005)

Modeling surfactant adsorption on hydrophobic surfaces

S.O. Nielsen, G. Srinivas, C.F. Lopez and M.L. Klein

Virtual Journal of Biological Physics Research (June 15, 2005)

Unfolding a linker between helical repeats

V. Ortiz, S.O. Nielsen, M.L. Klein and D.E. Discher

Journal of Molecular Biology **349** (2005) 638-647

Lipid bilayer perturbations around a transmembrane nanotube: a coarse grain molecular dynamics study

S.O. Nielsen, B. Ensing, V. Ortiz, P.B. Moore and M.L. Klein

Biophysical Journal **88** (June 2005- cover article) 3822-3828

Structure and dynamics of model pore insertion into a membrane

C.F. Lopez, S.O. Nielsen, B. Ensing, P.B. Moore and M.L. Klein

Biophysical Journal **88** (May 2005 – cover article) 3083-3094

István Ozsváth, Professor, Mathematical Sciences

Diplom.(Mathematics, Physics, Astronomy) University of Budapest, 1951

Ph.D., University of Hamburg, 1960

Articles in Refereed Journals

Pressure as a source of gravity

J. Ehlers, I. Ozsváth, E.L. Schüking and Y. Shang

Physical Review D **72** (2005) 124003-1-124003-8

Betty Sue Pace, Professor, Molecular and Cell Biology

Associate Director, Dallas Sickle Cell Disease Research Center

B.S., Marquette University, 1976

M.D., Medical College of Wisconsin, 1981

Articles in Refereed Journals

U0126, a novel fetal hemoglobin inducer in human erythroid progenitors
R.L. McElveen, T.F. Lou, K. Reese, S. Xia, B.S. Baliga and B.S. Pace
Cell and Molecular Biology **51** (2005) 215-227

Scriptaid, a novel histone deacetylase inhibitor induces γ -globin gene
expression in erythroid progenitors
J. Johnson, X.H. Qian, R. Hunter, R. McElveen and B.S. Pace
Cell and Molecular Biology **51** (2005) 229-238

Articles in Conference Proceedings

Characterization of trans-activators involved in γ -globin gene expression
during erythroid maturation
W. Li, M.S. Lee, J. Sangerman and B.S. Pace
28th National Sickle Cell Disease Program, Cincinnati, Ohio
(April 2005)

Scriptaid induces γ -globin gene expression in erythroid progenitors
through p38 MAPK activation.
J. Johnson, R. Hunter, B.S. Baloiga and B.S. Pace
28th National Sickle Cell Disease Program, Cincinnati, Ohio
(April 2005)

Mechanisms for γ -globin activation by U0126: transcriptional profiling
studies
R. Bonthu, S. Xisa, T.Z. Lou and B.S. Pace
28th National Sickle Cell Disease Program, Cincinnati, Ohio
(April 2005)

KU812 cells as a model system to detect fetal hemoglobin inducers.
T.Z. Lou, A. Williams and B.S. Pace
47th American Society Hematology Annual Meeting, Atlanta GA
(December 2005)

Microarray studies of the gamma to beta globin switch in erythroid
progenitors.
W. Li and B.S. Pace
45th American Society Hematology Annual Meeting, Atlanta GA
(December 2005)

Grants Awarded and Continued: Principal Investigator

Mechanism For p38 MAPK Dependent γ Gene Induction

Betty S. Pace

National Heart Lung and Blood Institute; RO1 HL69234-02 \$1,300,000
(2002 – 2006)

Mechanisms for STAT3-Mediated γ Gene Silencing,

Betty S. Pace

National Heart Lung and Blood Institute; R01 HL073447-01 \$1,100,000
(2003 – 2007)

Mechanisms for STAT3-Mediated γ Gene Silencing

Betty S. Pace

National Heart Lung and Blood Institute; RO1 HL073447-01 \$1,100,000
(2003 – 2007)

Mechanisms for STAT3- β Mediated Gene Silencing -Minority Student
Training Supplement

Betty S. Pace

National Heart Lung and Blood Institute; RO1 HL69234-02S1 \$53,401
(2004 - 2006)

The role of β -cluster polymorphisms in γ -globin expression - Southwest
Comprehensive Sickle Cell Center Trainee

Betty S. Pace

National Heart Lung and Blood Institute \$92,000.00 (April 1, 2005 to
March 31, 2008)

Minority Recruitment Retention and Opportunity for Research

Betty S. Pace

Health and Human Services Education Bill \$300,000.00 (July 1, 2005 to
August 30, 2006)

Paul Pantano, Associate Professor, Analytical Chemistry

B.S., University of California, Los Angeles, 1986

M.S., California State Polytechnic University, Pomona, 1988

Ph.D., University of California, Riverside, 1993

Articles in Refereed Journals

Concurrent ^{31}P Nuclear Magnetic Resonance Spectroscopy and Fiber-
Optic Oxygen Consumption Measurements in Perfused Rat Hearts

Piyu Zhao, Yadong Zhao, A. Dean Sherry and Paul Pantano

Methods in Enzymology **381** (2004) 735-746

Grants Awarded and Continued: Principal Investigator

Spatially-Selective Chemical Tailoring of Microfluidic Surfaces

P. Pantano

The Robert A. Welch Foundation \$45,000 (2002-2005)

Novel Protein Surface Chemistries

Paul Pantano

The Robert A. Welch Foundation \$160,000 (June 1, 2003 – May 31, 2006)

Welch Summer Scholar Program

P. Pantano

The Robert A. Welch Foundation \$14,400 (2005)

Emile A. Pessagno, Jr., Professor, Geosciences

B.A., Princeton University, 1955

M.S., Cornell University, 1957

Ph.D., Princeton University, 1960

Articles in Refereed Journals

Tectonostratigraphy of Khoy Complex, Northwestern Iran

E.A. Pessagno, Jr., A.M. Ghazi, M. Kariminia, R.A. Duncan and A.A. Hassanipak

Stratigraphy **2** (2005) 1-22 and 49-63

Tehama-Colusa Serpentinite Mélange: A remnant of Franciscan Jurassic oceanic lithosphere, Northern California

C.A. Hopson and E.A. Pessagno, Jr.

International Geology Review **47** (2005) 65-100

Articles in Conference Proceedings

Cretaceous radiolarians (Campanian and Aptian) from the Washikemba Formation, La Bonair, Netherlands Antilles

H. Montgomery, E.A. Pessagno, Jr. and S.M. Kariminia

17th Caribbean Geological Conference San Juan, Puerto Rico (July 2005)

Age and Provenance of the Restricted Gemuk Group (Triassic to Lower Cretaceous), Southwest Alaska

M.L. Miller, D. Bradley, T.K. Bundtzen, R. Blodgett, E.A. Pessagno, Jr. and R. Tucker

Geological Society of America Abstracts with Programs **37 (7)** Salt Lake City, UT (October 2005) 81

Viswanath Ramakrishna, Professor, Mathematical Sciences
B.S., St. Stephens College, University of Delhi, 1984
M.S., Indian Inst. of Technology, 1986
M.S., Washington University, 1988
Ph.D., Washington University, 1991

Articles in Conference Proceedings

Active Optical Lattice Filters as Programmable ODE Solvers
L. R. Hunt, N. Spears, T. Constantinescu, G. Kannan, D. Mac-Farlane,
I. Panahi, V. Ramakrishna and J. Tong
IEEE-LEOS Summer Topical, San Diego, CA, (July 25th-27th, 2005) 33-
34

Active Optical Lattice Filters
D. MacFarlane, J. Tong, L. R. Hunt, I. Panahi, T. Constantinescu,
V. Ramakrishna, G. Evans and M. Christensen
IEEE-LEOS Summer Topical, San Diego, CA, (July 25th-27th, 2005) 43-
44

Lawrence J. Reitzer, Professor of Molecular and Cell Biology
B.S., Case Western Reserve University, 1973
Ph.D., Washington University, 1978

Articles in Refereed Journals

Crystal structure of N-succinylarginine dihydrolase, AstB, bound to
substrate and product, an enzyme of the arginine catabolic pathway of
Escherichia coli
A. Tocilj, J. D. Schrag, Y. Li, B. L. Schneider, L. Reitzer, A. Matte, and
M. Cygler
Journal of Biological Chemistry **280** (2005) 15800-15808

Articles in Edited Volumes

Catabolism of amino acids and related compounds
L. Reitzer
*EcoSal, Escherichia coli and Salmonella typhimurium. Cellular and
Molecular Biology*, third edition, edited by August Böck
Module 3.4.7
Wash., D. C.: ASM Press (2005) <http://www.ecosal.org>.

Grants Awarded: Principal Investigator

Genes of nitrogen metabolism in Escherichia coli
L. J. Reitzer
National Science Foundation \$390,000 (2003-2006)

Robert Serfling, Professor, Mathematical Sciences
B.S., Georgia Inst. of Technology, 1963
Ph.D., University of North Carolina, Chapel Hill, 1967

Articles in Refereed Journals

Multivariate generalized spatial signed-rank methods
J. Mottonen, H. Oja and R. Serfling
Journal of Statistical Research **39** (2005) 25-48

Extremal point queries with lines and line segments and related problems
O. Daescu and R. Serfling
Computational Geometry: Theory and Applications **32** (2005) 223-237

Grants Awarded or Continued: Principal Investigator

Nonparametric and Robust Multivariate Analysis via Quantile Functions
Robert Serfling
National Science Foundation \$285,000 (2001-2006)

Outlier Identification and Handling in Computational Geometry Problems
Ovidiu Daescu and Robert Serfling (Co-PI's)
National Science Foundation Grant \$ 99,972 (2004 – 2006)

Mathematical Modeling and Testing of the Relationship of Prostate Gland
Volume to Prostate Cancer Detection Rate
Robert Serfling
GlaxoSmithKline \$25,379 (2004 – 2005)

IPA Assignment
Robert Serfling
National Science Foundation \$ 181,350 (2004 – 2005)

A. Dean Sherry, Professor, Chemistry
Green Honors Endowed Chair of Chemistry
B.S., Wisconsin State University, LaCrosse, 1967
Ph.D., Kansas State University, 1971

Articles in Refereed Journals

Bifunctional Chelators: An Important Tool in the Development of Inorganic Pharmaceuticals

M. Woods and A.D. Sherry

Chimica Oggi-Chemistry Today, **23**, (2005) 31-34

Chemistry for DOTA peptide labeling at phenylalanine residues: On the road to preparing peptide ligand tagged libraries

L.M. De León-Rodríguez, Z. Kovacs and A.D. Sherry

Letters in Organic Chemistry **2**, (2005) 160-164

A numerical solution of the Bloch equations provides insights into the optimal design of PARACEST agents for MRI

D.E. Woessner, S. Zhang, M.E. Merritt and A.D. Sherry

Magnetic Resonance in Medicine, **53**, (2005) 790-799

Modulation of the Lifetime of Water Bound to Lanthanide Metal Ions in Complexes with Ligands Derived from 1,4,7,10-Tetraazacyclododecane Tetraacetate (DOTA)

S. Zhang, X. Jiang and A.D. Sherry

Helvetica Chimica Acta, **88**, (2005) 923-935

Effect of Murine Strain on Metabolic Pathways of Glucose Production after Brief or Prolonged Fasting

S.C. Burgess, F.M.H. Jeffrey, C. Storey, A. Milde, N. Hausler, M.E. Merritt, H. Mulder, C. Holm, A.D. Sherry and C.R. Malloy

American Journal of Physiology **289**, (2005) E53-E61

Differing Mechanisms of Hepatic Glucose Overproduction in Triiodothyronine-Treated Rats versus Zucker Diabetic Fatty Rats by NMR Analysis of Plasma Glucose

E.S. Jin, S.C. Burgess, M.E. Merritt, A.D. Sherry and C.R. Malloy

American Journal of Physiology **288**, (2005) E654-E662

Comparison of [3,4-¹³C]Glucose to [6,6-²H₂]Glucose as a Tracer for Glucose Turnover by Nuclear Magnetic Resonance

E.S. Jin, J.G. Jones, S.C. Burgess, M.E. Merritt, A.D. Sherry and

C.R. Malloy *Magnetic Resonance in Medicine* **53**, (2005) 1479-1483

On Resonance Low B1 Pulses for Imaging of the Effects of PARACEST Agents

E. Vinogradov, S. Zhang, A. Lubag, J.A. Balschi, A.D. Sherry and R.E. Lenkinski

Journal of Magnetic Resonance **176**, (2005) 54-63

Selective Sensing of Zn²⁺ with a Novel PARACEST Agent
R. Trokowski, J. Ren, F.K. Kalman and A.D. Sherry
Angewandte Chemie International Edition **44**, (2005) 6920-6923

MRI Thermometry Based on PARACEST Agents
S. Zhang, C.R. Malloy and A.D. Sherry
Journal of American Chemical Society, **127**, (2005) 17572-17573

Structural and Chiroptical Properties of the Two Coordination Isomers of
YbDOTA-type Complexes
L. Di Bari, G. Pescitelli, A.D. Sherry and M. Woods
Inorganic Chemistry **44**, (2005) 8391-8398

Towards the Rational Design of Contrast Agents: A Practical Approach to
the Synthesis of Gadolinium Complexes that Exhibit Optimal Water
Exchange
M. Woods, M. Botta, J. Wang and A.D. Sherry
Journal of Chemical Society, Dalton Trans., (2005) 3829-3837

Inhibition of cardiac lipoprotein utilization by transgenic overexpression
of Angptl4 in the heart
X. Yu, S.C. Burgess, H. Ge, K.K. Wong, R.H. Nassem, D.J. Garry,
A.D. Sherry, C.R. Malloy, J.P. Berger and C. Li
Proceedings of the National Academy Science USA, **102**, (2005) 1767-
1772

Articles in Edited Volumes

Metabolic Networks in the Liver by ²H and ¹³C NMR
Metabolomics by In Vivo NMR, edited by R.G. Shulman and D.A.
Rothman
John Wiley & Sons, Ltd., West Sussex, England, (2005) Chapter 12, pp
159-174

Articles in Conference Proceedings

Water Exchange is the Key Parameter in the Design of Next-Generation
MRI Agents
A.D. Sherry, S. Zhang and M. Woods
ACS Symposium Series (2005) 903

Grants Awarded and Continued: Principal Investigator

MRI Agents Sensitive to Biological Indicators of Neoplasm

A.D. Sherry

National Institutes of Health (R33) \$635,314 (2000- 2005)

High Relaxivity, Responsive MR Imaging Agents

A.D. Sherry

National Institutes of Health (RR through UTSW) \$354,950 (2001-2006)

Lanthanide DOTA-tetraamide Complexes as Biological Sensors

A.D. Sherry

The Robert A. Welch Foundation \$150,000 (2002-2005)

Intermediary Metabolism in the Heart by NMR Spectroscopy

A. D. Sherry

National Institutes of Health, NHLBI \$1,125,000 (2002-2007)

PARACEST for Molecular Imaging of Cancer by MRI

A.D. Sherry

National Institutes of Health, \$888,750, (August 2005-July 2010)

Patents

Paramagnetic Metal ion-based Macrocyclic Magnetization Transfer (MT)

Contrast Agents and Method of Use

A.D. Sherry, S. Zhang and K. Wu

U.S. Patent No. 6,875,419 (April 5, 2005)

Improved Process for Making a Chelating Agent for Labeling

Biomolecules using Preformed Active Esters

Z. Kovacs, D.S. Mudigonda and A.D. Sherry

U.S. Patent No. 6,838,557 (January 4, 2005)

Preformed Carboxylated Active Ester for Labeling Biomolecules

Z. Kovacs, D.S. Mudigonda and A.D. Sherry

U.S. Patent No. 6,852,854 (February 8, 2005)

Process for making a chelating agent for labeling biomolecules using
preformed active esters

Z. Kovacs, D.S. Mudigonda A.D. Sherry

U.S. Patent No. 6,838,557 (January 4, 2005)

John W. Sibert, IV, Associate Professor, Chemistry

B.S., University of South Florida, 1986

Ph.D., University of Texas, Austin, 1991

Articles in Refereed Journals

Wurster's crownphanes: an alternate topology for para-phenylenediamine-based macrocycles

J.W. Sibert, G.R. Hundt, A.L. Sargent and V. Lynch

Tetrahedron **61** (2005) 12350-12357

Wurster's Thiacycrown Ethers: Synthesis, Properties and Pt(II) Coordination Chemistry

J.W. Sibert, P.B. Forshee and V. Lynch

Inorganic Chemistry **44** (2005) 8602-8609

Grants Awarded and Continued: Principal Investigator

Wurster's Aza- and Thiacycrown Macrocyces: New Redox-Active Hosts for the Coordination of Transition and Heavy Metal Ions

John Sibert

The Welch Foundation \$150,000 (2004-2007)

Robert J. Stern, Professor of Geosciences

B.S., University of California, Davis, 1974

Ph.D., Scripps Inst. of Oceanography, (University Of California, San Diego), 1979

Articles in Refereed Journals

Re-initiation of Subduction and Magmatic Responses in SW Japan during Neogene Time

J-I Kimura, Robert J. Stern and T. Yoshida

Bulletin of the Geological Society of America **117** (2005) 969-986

Evidence from Ophiolites, Blueschists, and Ultra-High Pressure Metamorphic Terranes that the Modern Episode of Subduction Tectonics Began in Neoproterozoic Time

Robert J. Stern

Geology **33** (7) (2005) 557-560

Geochemical Mapping of the Mariana Arc-Basin System: Implications for the Nature and Distribution of Subduction Components

J.A. Pearce, Robert J. Stern, Sherman H. Bloomer and P. Fryer

Geophysics, Geochemistry, Geosystems **6** (7) (2005) Q07006,
doi:10.1029/2004GC000895

The May 2003 eruption of Anatahan Volcano, Mariana Islands:
Geochemical Evolution of a Silicic Island Arc Volcano
J. Wade, T. Plank, Robert J. Stern, D. Tollstrup, J. Gill, Julie O'Leary,
R.B. Moore, F. Trusdell, T.P. Fisher and D.R. Hilton
Journal of Volcanology and Geothermal Research **146** (2005) 1-3 and
139-170

Mass-production of Cambro-Ordovician quartz-rich sandstone as a
consequence of chemical weathering of Pan-African terranes:
Environmental Implications
D. Avigad, A. Sandler, K. Kolodner, Robert J. Stern, M. McWilliams,
Nathan R. Miller and Michael Beyth
Earth and Planetary Science Letters **240** (2005) 818-826

Articles in Conference Proceedings

Geochemical characteristics of the earliest volcanism in the Izu-Bonin
forearc
O. Ishizuka, J.I. Kimura, Y.B. Li, Robert J. Stern, M. Reagan,
R.N. Taylor, Ulysses S. Hargrove, T. Ishii, S. Haraguchi, Y. Ohara and
Sherman H. Bloomer
EGU Geophysical Research Abstracts **7** (2005)

Large Igneous Province: Cambrian Diabase Dikes, Eastern Arbuckle
Mountains, Oklahoma
E.G. Lidiak, R.E. Denison and Robert J. Stern
AAPG Midcontinent Section Meeting Oklahoma City, (Sept 2005)

Carbonate Chemical and Petrographic Trends in an Ediacaran? Post-
amalgamation Basin, NE Arabian Shield
Nathan R. Miller, Brittney Blake, Robert J. Stern and P.R. Johnson
GSA National Meeting Salt Lake City, UT, (December 2005)

Remote Sensing and GIS as a Cyber-reconnaissance tool in Northern
Ethiopia and Southern Eritrea
Erik Friesen, Nathan R. Miller, Robert J. Stern, S. Arafat and Mohamed
G. Abdelsalam
GSA National Meeting Salt Lake City, UT, (December 2005)

Probing the Neoproterozoic Hydrologic Cycle from Silicate Weathering
Indices: Applications for Snowball Earth?
Dean Tuck, Nathan R. Miller and Robert J. Stern
GSA National Meeting Salt Lake City, UT, December 2005

Grants Awarded and Continued: Principal Investigator

Mantle inputs to the Subduction Factory: Assessing Scales of Spatial Variability along and across the IBM Convergent Margin: Accomplishment-Based Renewal
Robert J. Stern
NSF-OCE; \$365,513 (6/01/04-05/31/09)

US-Ethiopian Cooperative Research: Studies of Snowball Earth
Robert J. Stern and Nathan R. Miller
NSF-INT; \$26,908 (09/01/04-08/31/06)

Development of a New Undergraduate Science Service Course to Attract Hispanic Students to Science: Geography, Resources, and Environment of Hispanic America
Robert J. Stern (with Ignacio Pujana and Cynthia Ledbetter)
NSF-EHR-DUE \$69,992 (8/1/03-7/31/05)

Testing Models of Crustal Growth in the Neoproterozoic Arabian-Nubian Shield
Robert J. Stern
NSF-EAR \$154,798 (06/01/03-12/31/05)

The Search for Evidence of Neoproterozoic Snowball Earth in the Arabian-Nubian Shield
Robert J. Stern (with Nathan Miller, UTD, and D. Avigad, Hebrew University)
US-Israel Bi-National Science Foundation, \$60,000 (9/1/03-8/31/06)

Field, Remote Sensing and Geochemical Studies of Neoproterozoic Banded Iron Formation in the Eastern Desert of Egypt
Robert J. Stern
NSF-EAR \$37,741 (2005-2007)

Brian A. Tinsley, Professor, Physics
B.Sc., University of Canterbury, 1958
M.Sc., University of Canterbury, 1961
Ph.D., University of Canterbury, 1963

Articles in Refereed Journals

On the Variability of the Stratospheric Column Resistance in the Global Electric Circuit
B. A. Tinsley
Atmospheric Research **76** (2005) 78-94

Evidence for Space Weather Effects on Tropospheric Weather and Climate

B.A. Tinsley

Bulletin of the American Meteorological Society **27** (2005) 475-475

Articles in Conference Proceedings

Evidence for space Weather Affecting Tropospheric Weather and Climate

B.A. Tinsley

American Meteorological Society, San Diego, (January, 10-13, 2005)

Cosmic Ray flux, Clouds, and Climate

B. A. Tinsley and G. B. Burns

American Geophysical Union, San Francisco, (December 6-10, 2005)

Interplanetary Magnetic Field (IMF By) and Atmospheric Electric Circuit Influences on Ground Level Pressure at Vostok

G. B. Burns, B. A. Tinsley, O. A. Troshichev, A.V. Frank-Kamenetsky and E. A. Bering

American Geophysical Union, San Francisco, (December 6-10, 2005)

Response of a Global Circuit Model with Stratospheric and Tropospheric Aerosols to Cosmic Ray flux Changes

L. Zhou and B. A. Tinsley

American Geophysical Union, San Francisco, (December 6-10, 2005)

The Use of Conducting Spheres Electrical forces in Electroscavenging Simulation

S. Plemmons and B. A. Tinsley

American Geophysical Union, San Francisco, (December 6-10, 2005)

Grants Awarded and Continued: Principal Investigator

Modeling the Global Circuit Response to Solar Activity

B. A. Tinsley

National Science Foundation \$247,170, (2004-2008)

Janos Turi, Professor, Mathematical Sciences

B.S., Polytechnic University, Budapest, 1975

M.S., Polytechnic University, Budapest, 1977

Ph.D., Virginia Polytechnic Inst. and State University, 1986

Articles in Refereed Journals

Numerical Stability Analysis in Respiratory Control System Models
J. Turi and L. Kollar
Electronic Journal of Differential Equations **c12** (2005) 65-78

Articles in Edited Volumes

Sensitivity Analysis of an Attack Containment Model
J. Turi, J. W. Cangussu and R. Dantu
ISI 2005, Lecture Notes in Computer Science **3495** edited by P. Kantor, et.
al.
Springer Verlag, (2005) 127-138

Articles in Conference Proceedings

A Quantitative Learning Model for Software Test Process
J. Turi, A. Ghaffari and J. W. Cangussu
*Proceedings of the 38th Hawaii International Conference on System
Science,*
Kona , Hawaii, (January 3-6, 2005) (10 pages)

State-Dependent Delay Model for Regenerative Cutting Processes
J. Turi, T. Insperger and G. Stepan
*Proceedings of the 5th EUROMECH Nonlinear Dynamics Conference,
ENOC 2005, Eindhoven, The Netherlands, (August 7-12, 2005)*1124-1129

State Dependent Regenerative Delay in Milling Processes
J. Turi, F. Hartung, T. Insperger and G. Stepan
*Proceedings of ASME International Design Engineering Technical
Conferences*
Long Beach, California, (September 24-28, 2005) DETC2005-85282 (CD-
ROM)

Identification of Parameters in Neutral Functional Differential Equations
with State-Dependent Delays
J. Turi and F. Hartung
Proceedings of the 44th IEEE Conference on Decision and Control,
(December 12-15, 2005) Seville, Spain

Mary L. Urquhart Kelly, Assistant Professor, Science and
Mathematics Education
B.S., New Mexico Insitutue of Mining and Technology, 1992
M.S., University of Colorado, 1995
Ph.D., University of Colorado, 1999

Articles in Edited Volumes

Teachers as Students, in Cosmos

M.L. Urquhart

The Classroom 2004: A Hands-On Symposium on Teaching Introductory Astronomy, edited by A. Fraknoi and W. Waller
ASP, (2005)

Adapting Pre-College Activities on Scale to Astronomy 101

M.L. Urquhart

Cosmos in the Classroom 2004: A Hands-On Symposium on Teaching Introductory Astronomy, edited by A. Fraknoi and W. Waller
ASP, (2005)

Articles in Conference Proceedings

Space Science for Middle School Teachers: Integrating CINDI E/PO into a Long-Term Professional Development Program

M.L. Urquhart and M.R. Hairson

American Geophysical Union, abstract # ED11C-1109, Fall Meeting 2005

Impact of Low Thermal Conductivity Layers on the Bulk Conductivity of a Martian Crustal Column

M.L. Urquhart

Lunar Planet. Sci., XXXVII, (2005) 2337

Impacting Classroom Teachers Through Long-Term Professional Development

M.L. Urquhart and K. M. Bober

Lunar Planet. Sci., XXXVII, (2005) 1480

Early Childhood Ideas of Science and Scientists

M.L. Urquhart and K. M. Bober

NARST Proceedings, (2005)

Grants Awarded and Continued: Principal Investigator

Bringing Stars and Planets into Middle Schools with a New Set of Astronomy Lesson Plans

Mary L. Urquhart

NASA IDEAS (Initiative to Develop Education through Astronomy and Space Science) Grant Program: \$35,180 (2004-2006)

Tianbing Xia, Assistant Professor, Molecular and Cell Biology
B.S., Peking University, Beijing, China, 1991
M.S., Peking University, Beijing, China, 1994
Ph.D., University of Rochester, 1999

Articles in Refereed Journals

RNA-protein recognition: Single-residue ultrafast dynamical control of structural specificity and function
Tianbing Xia, Chaozhi Wan, Richard W. Roberts and Ahmed H. Zewail
Proceedings of National Academy of Sciences USA **102** (2005) 13013-13018

Ultrafast unequilibrated charge transfer: A new channel in the quenching of fluorescent biological probes
Chaozhi Wan, Tianbing Xia, Hans-Christian Becker and Ahmed H. Zewail
Chemical Physics Letters **412** (2005) 158-163

Anvar A. Zakhidov, Professor, Physics
M.S., Tashkent Technical University, 1975
Ph.D., Inst. of Spectroscopy of USSR Academy of Sciences, 1981

Articles in Refereed Journals

Strong, Transparent, Multifunctional, Carbon Nanotube Sheets
M. Zhang, S Fang, A. A. Zakhidov, S.B. Lee, A. Aliev, C. Williams, K. Atkinson and R. H. Baughman
Science, **309** (2005) 1215

Nonlinear surface waves at the interfaces of left-handed electromagnetic media
S.A. Darmanyan, M. Neviere and A.A. Zakhidov
Institute of Spectroscopy, Russian Academy of Sciences, Troitsk, Russia. Physical Review E: Statistical, Nonlinear, and Soft Matter Physics **72(3)** (2005) 036615/1-036615/6

Temperature and Time Dependence of Heat Treatment of RR-P3HT/PCBM Solar Cell
K.Inoue, R. Ulbricht, P.Madakasira, W. Sampson, S. Lee, J. Gutierrez, J. Ferraris and A.A. Zakhidov
Synthetic Metals **154**, (2005) 41-44

Cathodoluminescence from organic bilayer induced by field electron

emission of carbon nanotubes

Rashmi Nanjundaswamy, Christopher Williams, Sergei B. Lee and Anvar A. Zakhidov

Synthetic Metals **155** (2005) 258-261

Multilayer encapsulation of plastic photovoltaic devices

Pallavi Madakasira, Kanzan Inoue, Ross Ulbricht, Sergey B. Lee, M. Zhou, John Ferraris and Anvar A. Zakhidov

Synthetic Metals **155** (2005) 332-335

Articles in Conference Proceedings

High efficiency P3HT/PCBM solar cell

Kanzan Inoue, Ross Ulbricht, Pallavi C. Madakasira, Miaoxin Zhou, Sergey B. Lee, John Ferraris and Anvar A. Zakhidov

NanoTech Institute, The University of Texas at Dallas, Richardson, TX

Materials Research Society Symposium Proceedings (2005) 836

(*Materials for Photovoltaics*) 69-74

Nanocomposite Solar Cells Based on Conjugated Polymer / PbSe

Quantum Dot Xiaomei Jiang, Sergey B. Lee, Igor B. Altfeder, Anvar A.

Zakhidov, Richard D. Schaller, Jeff M. Pietryga and Victor I. Klimov

Proceedings of SPIE Vol. **5938** (2005) 59381F

Cathodoluminescence from Multi-layered Organic Structures Induced by Field Electron Emission from Carbon Nanotubes

Alexander Kuznetsov, Sergei B. Lee, John Ferraris and Anvar A. Zakhidov

Proceedings of SPIE Vol. **5937-71** (2005)

Grants Awarded and Continued: Principal Investigator

Negative Index Materials at Infrared and visible wavelengths

Anvar A. Zakhidov

AFOSR \$374,964 (5/1/05 – 12/31/08)

Nanoscale Polymeric Photocells by Advanced Electrospinning

Anvar A. Zakhidov

AFOSR grant \$450,000 (March 2003 -2006)

Synthesis of “quantum dot-conducting polymer” nano-stars for fundamental enhancement of photovoltaic conversion by charge multiplication

Anvar A. Zakhidov

Welch Grant, \$150,000 (4/1/05 – 4/1/08)

Quantum Dot Sensitized Nanostructures Solar Cells with Charge
Multiplication

Anvar A. Zakhidov

SPRING/AFOSR, \$75,000 (06/01/2005 – 06/01/2007)

SCHOOL OF SOCIAL SCIENCES

Brian J.L. Berry, Professor and Dean

Bobby C. Alexander, Associate Professor, Sociology
B.A., Baylor University, 1973
M.Div., Union Theological Seminary, New York, 1976
M.Phil., Columbia University, 1981
Ph.D., Columbia University, 1985
Ph.D., Union Theological Seminary, 1985

Articles in Edited Volumes

Ceremony
Bobby C. Alexander
Encyclopedia of Religion, Second Edition, Vol. 3. edited by Lindsay Jones, et al.
New York: The Macmillan Publishing Company (2005) 1512-1519

Nathan Berg, Associate Professor, Economics;
Green Professor of the Study of Science and Society
B.A., University of Kansas, 1995
Ph.D., University of Kansas, 2001

Articles in Refereed Journals

Does society benefit from investor overconfidence in the ability of financial market experts?
N. Berg and D. Lien
Journal of Economic Behavior and Organization **58** (2005) 95-116

Decision-making environments in which unboundedly rational decision makers choose to ignore relevant information
Nathan Berg
Global Business and Economics Review **7(1)** (2005) 59-73

Articles in Edited Volumes

Non-response bias
Nathan Berg
Encyclopedia of Social Measurement vol. 2, edited by K. Kempf-Leonard

London, Academic Press (2005) 865-873

Articles in Conference Proceedings

Psychological economics and the size of government: On anti-, anti-anti-, ... , (anti-)ⁿ

Nathan Berg

Economic Modernization and Cultivation of Institutions (Proceedings of the 6th Annual Conference of the State University - Higher School of Economics, Moscow) edited by Y. Yasin
HSE Publishing House (2005) 367-375

In search of environments where less is more: One-reasons decision-making and lexicographic extensions

Nathan Berg

Advances in Cognitive Economics, edited by B. Kokinov
Sofia: NBU Press (2005)

Brian J. L. Berry, Professor, Dean

The Lloyd Viel Berkner Regental Professor

B.Sc., University of London, 1955

M.A., University of Washington, 1956

Ph.D., University of Washington, 1958

Edited Books

Urban Geography in America, 1950-2000: Paradigms and Personalities

Brian J.L. Berry and James O. Wheeler

New York: Routledge (2005) 408 p.

Articles in Refereed Journals

Paul Wheatley, 1921-1999

Donald C. Dahmann and Brian J.L. Berry

Geographers: Biobibliographical Studies **24** (2005) 124-145

Articles in Edited Volumes

Geography's Quantitative Revolution: Initial Conditions, 1954-1960

Brian J.L. Berry

Reprinted in *Urban Geography in America 1950-2000: Paradigms and Personalities*, edited by Brian J.L. Berry and James O. Wheeler
New York: Routledge (2005)

August-September 1978

Brian J.L. Berry

Presidential Musings from the Meridian, edited by M. Duane Nellis,

Janice Monk and Susan L. Cutter

Morgantown: West Virginia University Press (2005) 22-23

Urbanization: Impact on Development

Brian J.L. Berry

Encyclopedia of the Developing World, edited by Thomas M. Leonard

New York: Routledge 3 (2005) 1641-1643

Urbanization: Impact on Environment

Brian J.L. Berry

Encyclopedia of the Developing World, edited by Thomas M. Leonard

New York: Routledge 3 (2005) 1643-1646

Patrick T. Brandt, Assistant Professor of Government, Politics and
Political Science

A.B., College of William and Mary, 1994

M.S., Northwestern University, 1997

Ph.D. Indiana University, 2001

Articles in Conference Proceedings

Modeling Macro Political Dynamics: The Pitfalls of Parsimony

Patrick T. Brandt and John R. Freeman (University of Minnesota)

American Political Science Association Meeting, Washington, DC,

(September 2005)

Advances in Bayesian Time Series Modeling and the Study of Politics:

Theory Testing, Forecasting, and Policy Analysis

Patrick T. Brandt and John R. Freeman

Annual Meeting of the Midwest Political Science Association, Chicago, IL,

(April 2005)

Never-Lasting Peace: Explaining the Duration of Civil Wars

Patrick T. Brandt, T.David Mason, Mehmet Gurses, Patrick McLeod,

Nicolai Petrovsky and Dasha Radin

Annual Meeting of the International Studies Association, Honolulu,

Hawaii, (March 2005)

Grants Awarded and Continued: Principal Investigator

Bayesian Time Series Models for the Analysis of International Conflict

Patrick T. Brandt
National Science Foundation, SBES, Political Science \$312,334 (January
2004-December 2006)

Pamela Brandwein, Associate Professor, Sociology and
Government and Politics
B.A., University of Michigan, 1986
M.A., Northwestern University, 1988
Ph.D., Northwestern University, 1994

Articles in Edited Volumes

The *Civil Rights Cases* and the Lost Language of State Neglect
Pamela Brandwein
The Supreme Court in American Political Development, edited by Ronald
Kahn and Ken I. Kersch.
Lawrence: University Press of Kansas (November 2005)

Studying the Careers of Knowledge Claims: Bringing Science Studies to
Legal Studies
Pamela Brandwein
*Interpretation & Method: Empirical Research Methods and the
Interpretive Turn*, edited by Dvora Yanow and Peregrine Schwartz-Shea
M. E. Sharpe (October 2005)

Timothy M. Bray, Assistant Professor, Criminology
B.S., University of Missouri, St. Louis, 1994
M.A., University of Missouri, St. Louis, 1998
Ph.D., University of Missouri, St. Louis, 2003

Articles in Edited Volumes

Justice by Geography: Racial Disparity and Juvenile Courts
Timothy M. Bray, Lisa L. Sample and Kimberly Kempf-Leonard
Our Children, Their Children: Confronting Race and Ethnic Differences in
American Criminal Justice, edited by Darnell Hawkins and Kimberly
Kempf-Leonard
Chicago: University of Chicago Press (2005)

Grants Awarded and Continuing: Principal Investigator

Understanding Racial Profiling in Illinois
Timothy M. Bray

Illinois State Police \$15,646.67 (May 2005-May 2007)

Ron Briggs, Professor, Geography and Political Economy
B.A., University of Southampton, England, 1966
M.A., The Ohio State University, 1969
Ph.D., The Ohio State University, 1972

Grants Awarded and Continued: Principal Investigator

Waste to Energy: Strategic Geographic Planning Tool Development,
Phase II
Co-PI's: Kevin Curtin, Fang Qiu, Ronald Briggs
Environmental Protection Agency, \$102,000 (2005-2006)

Waste to Energy: Strategic Geographic Planning Tool Development
Ron Briggs
Co-PI's: Ronald Briggs, Kevin Curtin, Fang Qiu
Environmental Protection Agency, \$65,000 (2004-2005)

Professional Services Agreement for GIS Data Development
Ronald Briggs
Collin County, \$15,000 (2005-2006)

Professional Services Agreement
Ron Briggs
City of Allen, Texas \$3,000 (2005-2006)

Thomas L. Brunell, Associate Professor, Political Science
B.A., University of California, Irvine, 1991
M.A., University of California, Irvine, 1993
Ph.D., University of California, Irvine, 1997

Articles in Refereed Journals

Partisan Politics: The Impact of Party in the Confirmation of Minority and
Female Federal Court Nominees
Lisa A. Solowiej, Wendy L. Martinek and Thomas L. Brunell
Party Politics **11** (2005) 557-577

The Relationship Between Political Parties and Interest Groups:
Explaining Patterns of PAC Contributions to Candidates for Congress
Thomas L. Brunell
Political Research Quarterly **58** (2005) 681-688

Articles in Edited Volumes

The Art of the Dummymander: The Impact of Recent Redistrictings on the
Partisan Makeup of Southern House Seats
Bernard Grofman and Thomas L. Brunell
Redistricting in the New Millenium, edited by Peter F. Galderisi
Lanham MD: Lexington Books (2005) 183-199

Anthony Champagne, Professor, Government and Political Economy
B.A., Millsaps College, 1969
M.A., University of Illinois, 1971
Ph.D., University of Illinois, 1973

Authored Books

We the People (Texas Edition)
Benjamin Ginsberg, Theodore J. Lowi, Margaret Weir, Anthony
Champagne, John Forshee, Edward J. Harpham
New York: W.W. Norton Third Edition, (2005) 1095 pp.

Articles in Refereed Journals

Tort Reform and Judicial Selection
Anthony M. Champagne
Loyola of Los Angeles Law Review 38 (2005) 1483-1515

Harold D. Clarke, Ashbel Smith Professor, Political Science
B.A., University of Western Ontario, 1966
M.A., University of Western Ontario, 1967
Ph.D., Duke University, 1971

Articles in Refereed Journals

Men, Women and the Political Economy of Presidential Approval
Harold D. Clarke, Marianne C. Stewart, Michael Ault and Euel Elliott
British Journal of Political Science **35** (2005) 31-51

Too Close to Call: The 2004 Canadian Federal Election
Harold D. Clarke, Allan Kornberg, Tom Scotto and John MacLeod
PS: Political Science & Politics **38** (2005)

Articles in Edited Volumes

The Issue Agenda and Voting in 2005
Paul Whiteley, Marianne C. Stewart, David Sanders and Harold D. Clarke
Britain Votes 2005, edited by Pippa Norris and Christopher Wlezien
Oxford: Oxford University Press (2005) 146-161

Presidential Approval
Harold D. Clarke, Marianne C. Stewart and Christopher
Polling America: An Encyclopedia of Public Opinion, edited by Samuel J.
Best and Benjamin Radcliff
Westport, CT: Greenwood Press (2005)

Choosing Canada: The 1995 Quebec Sovereignty Referendum, with an
Afterword by the authors
Harold D. Clarke and Allan Kornberg
Quantitative Methods in Practice: Readings from PS, reprinted and edited
by David A. Rochefort, Washington, D.C.: Congressional Quarterly Press
(2005)

Grants Awarded and Continued: Principal Investigator

Request for Additional Funds for Including Electoral Method Questions,
Ethnic Minority Booster, and Northern Ireland Sample in the 2005/06
British Election Study
David Sanders, Paul Whiteley, Harold D. Clarke and Marianne C. Stewart
The Electoral Commission (United Kingdom) research grant £95,000
(2005)

Tender for Consulting, Developing a Specification for, and Overseeing
Collection and Deposit of Data for The 2005/06 British General Election
Study
David Sanders, Paul Whiteley, Harold D. Clarke and Marianne C. Stewart
Economic and Social Research Council (United Kingdom) £925,401 (est.
\$1,729,574) (2005-07)

Government Performance, Valence Judgments, and The Dynamics of
Party Support
Harold D. Clarke
National Science Foundation (USA) \$387,959 (2004-2007)

Electoral Choice and Party Support in Contemporary Canada: Changing
Choices and Rival Models
Harold D. Clarke and Allan Kornberg
National Science Foundation (USA) \$155,000

Kevin M. Curtin, Assistant Professor, Geographic Information Science
B.A., University of Illinois, 1994
M.A., University of Illinois, 1995
Ph.D., University of California, Santa Barbara, 2002

Articles in Edited Volumes

Integrating GIS and Maximal Covering Models to Determine the Optimal
Spatial Distribution of Police Patrol Areas

K.M. Curtin, F. Qiu, K. Hayslett-McCall, and T. M. Bray
Geographic Information Systems and Crime Analysis, edited
by Fahui Wang
Idea Group Publishing. (2005)

Distance

K.M. Curtin
Encyclopedia of World Geography, edited by Robert W. McColl
Facts on File, Inc. (2005)

Direction

K.M. Curtin
Encyclopedia of World Geography, edited by Robert W. McColl
Facts on File, Inc. (2005)

Elevation

K.M. Curtin
Encyclopedia of World Geography, edited by Robert W. McColl
Facts on File, Inc. (2005)

Italy

K.M. Curtin
Encyclopedia of World Geography, edited by Robert W. McColl
Facts on File, Inc. (2005)

Articles in Conference Proceedings

Linear Referencing as a Process: Moving beyond data models and objects

K.M. Curtin and G. Nicoara
*Proceedings of the GIS Planet International Conference on Geographic
Information*
Estoril, Portugal: (May 2005)

Determining Optimal Police Patrol Areas with Maximal Covering Models

K.M. Curtin, K. Hayslett-McCall and F. Qiu
52nd Annual Conference, North American Meetings of the RSAI

Las Vegas, NV: (November 2005)

Grants Awarded and Continued: Principal Investigator

Waste to Energy: Strategic Geographic Planning Tool Development
Kevin M. Curtin Co-Principal Investigator
Environmental Protection Agency, Region 6 \$65,421 (10/01/04-01/01/06)

Linear Referencing as a Process
Kevin M. Curtin
Intergraph Corporation \$5,000 + \$168,000 in software and support
(7/12/05-7/12/07)

Waste to Energy: Strategic Geographic Planning Tool Development:
Phase II
Kevin M. Curtin
Environmental Protection Agency, Region 6 \$110,000 (10/01/05-
10/01/06)

Collin County Taskforce on Indigent Healthcare
Kevin M. Curtin
Collin County \$155,183 (2005)

Lloyd Jeffrey Dumas, Professor, Economics and Political Economy
B.A., Columbia College, 1967
M.S., Columbia University, 1968
Ph.D., Columbia University, 1972

Articles in Edited Volumes

Economic Conversion, Demobilization and Reintegration
Lloyd J. Dumas
UNESCO Encyclopedia of Life Support Systems: Peace Processes, edited
by D. Fischer
Geneva: UNESCO (2005)

Grants Awarded and Continued: Principal Investigator

Building Accountability into International Development Advising
in an Age of Diffused Governance
Lloyd J. Dumas and Janine Wedel
Ford Foundation Grant \$232,333 (2005-2006)

Catherine C. Eckel, Professor, Economics
B.S., Virginia Commonwealth University, 1977
Ph.D., University of Virginia, 1983

Articles in Refereed Journals

An Experimental Test of the Crowding Out Hypothesis
C. Eckel, P. Grossman and M. Johnston
Journal of Public Economics **89(8)** (2005) 1543-1560

Managing Diversity by Creating Team Identity
C. Eckel and P. Grossman
Journal of Economic Behavior and Organization **58 (3)** (2005) 371-392

Saving decisions of the working poor: short- and long-term horizons
C. Eckel, K. Johnson and C. Montmarquette
Research in Experimental Economics **10** (2005) 219-260.

Bobbing for Widgets: Compensating Wage Differentials
C. Eckel, M. McInnes, S. Solnick, et al.
Journal of Economic Education **36(2)** (2005)129-138

Grants Awarded and Continued: Principal Investigator

Incorporating Experimental Measures of Preferences into Survey Research
C. Eckel, with Co-PIs V. Joseph Hotz, Cathleen Johnson, David Levine,
Cesar Martinelli, Susan Parker, Luis Rubalcava, Seth Sanders, Graciela
Teruel, Duncan Thomas, William Zame
John D. and Catherine T. MacArthur Foundation, \$113,000 (2005-2006)

Euel Elliott, Professor, Government, Politics and Political Economy
B.A., Virginia Polytechnic Inst. and State University, 1973
M.A., Radford University, 1976
M.A., Virginia Polytechnic Inst. and State University, 1982
Ph.D., Duke University, 1987

Articles in Refereed Journals

Men, Women and the Dynamics of Presidential Approval
Harold D. Clarke, Marianne Stewart, Michael Ault and Euel Elliott
British Journal of Political Science **35** (February 2005) 31-51

Beyond Gratz and Grutter: The Future of Affirmative Action in the

Aftermath of the Michigan Decisions
Euel Elliott and Andrew Ewoh
Review of Policy Research **22** (July 2005) 541-553

Simon M. Fass, Associate Professor, Political Economy
B.Arch., University of British Columbia, 1970
M.A., University of California, Los Angeles, 1973
Ph.D., University of California, Los Angeles, 1978

Articles in Edited Volumes

Chad: Governance by the Grassroots
Simon Fass and Gerrit Desloovere
*Local Governance in Africa: The Challenges of Democratic
Decentralization*, edited by Dele Oluwu and James Wunsch
Lynne Rienner. Boulder, CO (2005) 155-180

Daniel A. Griffith, Ashbel Smith Professor, Geospatial Information Science
B.S., Indiana University of Pennsylvania, 1970
M.A., Indiana University of Pennsylvania, 1972
Ph.D., University of Toronto, 1978

Articles in Refereed Journals

Evaluation of environmental data for identification of anopheles (diptera:
culicidae) aquatic larval habitats in Kisumu and Malindi, Kenya
B. Jacob, K. Arheart, D. Griffith, C. Mbogo, A. Githeko, J. Regens,
J. Githure, R. Novak and J. Beier
Journal of Medical Entomology **42** (2005) 751-755

Effective geographic sample size in the presence of spatial autocorrelation
D. Griffith
Annals, Association of American Geographers **95** (2005) 740-760

A comparison of four analytical disease mapping techniques as applied to
West Nile Virus in the coterminous United States
D. Griffith
International Journal of Health Geographics **4/18** (2005) 1-14

Articles in Edited Volumes

Spatial autocorrelation
D. Griffith

Encyclopedia of Social Measurement, **Vol. 3**, edited by K. Kempf-Leonard
San Diego, CA: Academic Press (Elsevier) (2005) 581-590

Locational decision making
D. Griffith and A. Lea
Encyclopedia of Social Measurement, **Vol. 2**, edited by K. Kempf-Leonard
San Diego, CA: Academic Press (Elsevier) (2005) 559-575

Grants Awarded and Continued: Principal Investigator

Collaborative proposal: Approximating Eigensystems of Matrices Used in Spatial Analysis (DMS 0611883)
D. Griffith and M. Tiefelsdorf
National Science Foundation/ Division of Mathematical Sciences and Methodology, Measurement & Statistics Programs \$159,778 + \$5,000 UM/UTD (2004-2006)

Geography-Based Exposure Assessment for Urban Metals (BCS 0552588):
D. Griffith
National Science Foundation/Geography & Regional Science/Methodology, Measurement & Statistics Programs \$420,000 + \$7,500 SU/UM/UTD grant + \$11,725 NSF-REU (\$35,097 + \$2,500 UTD grant transferred) (2002-2006)

Edward J. Harpham, Professor, Government and Political Economy
Director of Collegium V, Undergraduate Studies
B.A., Pennsylvania State University, 1973
M.A., Cornell University, 1976
Ph.D., Cornell University, 1980

Authored Books

We the People. Texas Edition Fifth Edition
Theodore J. Lowi, Benjamin Ginsberg, Margaret Weir, Anthony Champagne, Edward J. Harpham and John Forsche
W.W. Norton. 500 Fifth Avenue. New York, New York. (2005) 1095 p.

Wendy L. Hassett, Senior Lecturer, Public Affairs
B.A., Auburn, 1991
M.P.A., Auburn University, 1993

Ph.D., Auburn University, 2003

Articles in Refereed Journals

The ASPA Journals: Who is Publishing?
Douglas J. Watson, Wendy L. Hassett and Donna M. Handley
Journal of Public Affairs Education, **11 (1)** 2005

Capitalizing on Student Workers: The City of Auburn's Student
Employment Programs
Douglas J. Watson and Wendy L. Hassett
Review of Public Personnel Administration, **25 (2)** (2005)

Financial Distress and Municipal Bankruptcy: The Case of Prichard,
Alabama
Douglas J. Watson, Donna M. Milam and Wendy L. Hassett
Journal of Public Budgeting, Accounting & Financial Management, **17 (2)**
(2005)

Karen L. Hayslett-McCall, Assistant Professor, Crime and Justice
B.S., Kansas State University, 1991
M.S., Emporia State University, 1997
M.A., The Pennsylvania State University, 1999
Ph.D., The Pennsylvania State University, 2002

Articles in Edited Volumes

Using Location Science and Geographic Information Systems to
Determine the Optimal Spatial Distribution of Police Patrol Areas
Kevin M. Curtin, Fang Qiu, Karen L. Hayslett-McCall and
Timothy M. Bray
Geographic Information Systems and Crime Analysis, ed. by Fahui Wang
Hershey, PA: Idea Group (2005)

The Fifth Amendment
Karen L. Hayslett-McCall
The Encyclopedia of Criminal Justice in the United States, edited by Kent
Rasmussen
Salem Press (2005)

Donald A. Hicks, Professor, Political Economy and Public Policy
B.A., Indiana University, 1969
Ph.D., University of North Carolina, Chapel Hill, 1976

Grants Awarded and Continued: Principal Investigator

Literacy Initiative: What Works? Program
Donald Hicks
North Texas Future Fund \$18,500 (2004-05)

Jennifer S. Holmes, Associate Professor, Government and Political Economy
B.A., University of Chicago, 1993
Ph.D., University of Minnesota, 1998

Articles in Conference Proceedings

Ballots and Bullets
Jennifer Holmes and Sheila Amin Gutiérrez de Piñeres
European Consortium for Political Research's Latin America and Elections workshop, Granada Spain (April 2005)

A Sub-national Study of Insurgency: The FARC in Colombia
Jennifer Holmes and Sheila Amin Gutiérrez de Piñeres
Midwest Association of Latin American Studies, St. Louis, MO,
(November 2005)

Bruce A. Jacobs, Associate Professor, Crime and Justice
B.A., Duke University, 1989
M.A., University of Toledo, 1991
PhD., University of Southern California, 1994

Articles in Edited Volumes

Danger and criminological fieldwork
Bruce A. Jacobs
The Handbook of Field Research, edited by Dick Hobbs and Richard Wright
Newbury Park: Sage Publications (December 2005)

Paul A. Jargowsky, Associate Professor, Political Economy
A.B., Princeton University, 1980
M.P.P., Harvard University, 1986
Ph.D., Harvard University, 1991

Articles in Refereed Journals

Response to George Galster: Consequences from the redistribution of urban poverty during the 1990s

Paul A. Jargowsky

Economic Development Quarterly **19** (2005) 133-135

Articles in Edited Volumes

Is Suburban Sprawl a Juvenile Justice Issue?

Paul A. Jargowsky, Robert Crutchfield and Scott Desmond

Our Children, Their Children: Confronting Race and Ethnic Differences in American Criminal Justice, edited by Darnell Hawkins and Kimberly

Kempf-Leonard

Chicago: John D. and Catherine T. MacArthur Foundation (2005) 167-201

The Ecological Fallacy

Paul A. Jargowsky

The Encyclopedia of Social Measurement, edited by Kimberly Kempf-Leonard

San Diego, California: Academic Press (2005) 715-722

Omitted Variable Bias

Paul A. Jargowsky

The Encyclopedia of Social Measurement, **Vol. 2**, edited by Kimberly Kempf-Leonard

San Diego, California: Academic Press (2005) 919-924

Descriptive and Inferential Statistics

Paul A. Jargowsky and Rebecca Yang

The Encyclopedia of Social Measurement, **Vol. 1**, edited by Kimberly Kempf-Leonard

San Diego, California: Academic Press (2005) 659-658

Kimberly Kempf-Leonard, Professor, Crime and Justice Studies,

Political Economy and Sociology

B.S., University of Nebraska, 1980

M.S., Pennsylvania State University, 1982

M.A., University of Pennsylvania, 1983

Ph.D., University of Pennsylvania, 1986

Edited Books

Our Children, Their Children: Confronting Race and Ethnic Differences in American Criminal Justice

Darnell F. Hawkins & Kimberly Kempf-Leonard, editors

Chicago: University of Chicago Press, 459 p.

Encyclopedia of Social Measurement

Kimberly Kempf-Leonard, editor

San Francisco, CA: Elsevier/Academic Press. 3008 p. (VI 945p., VII 963p., VIII 1100 p.)

Articles in Edited Volumes

Justice by Geography: Racial Disparity and Juvenile Courts

Timothy Bray, Lisa Sample and Kimberly Kempf-Leonard

Our Children, Their Children: Confronting Race and Ethnic Differences in American Criminal Justice, edited by Darnell F. Hawkins & Kimberly Kempf-Leonard

Chicago: University of Chicago Press. (2005) 270-299

Introduction to Confronting Racial and Ethnic Differences in Juvenile Justice

Darnell F. Hawkins and Kimberly Kempf-Leonard

Our Children, Their Children: Confronting Race and Ethnic Differences in American Criminal Justice, edited by Darnell F. Hawkins & Kimberly Kempf-Leonard

Chicago: University of Chicago Press. (2005) 1-22

Toward Remedial Social Policy

Kimberly Kempf-Leonard and Darnell F. Hawkins

Our Children, Their Children: Confronting Race and Ethnic Differences in American Criminal Justice, edited by Darnell F. Hawkins & Kimberly Kempf-Leonard

Chicago: University of Chicago Press. (2005) 428-448

Economists in Criminology: Part of the Team.

The Common Subject of Crime: A Multi-Disciplinary Approach, edited by Susan Guarino-Ghezzi and A. Javier Trevino

Cincinnati, OH: Anderson (2005) 35-46

Gender Differences in Delinquency Career Types and the Transition to Adult Crime

Kimberly Kempf-Leonard and Paul E. Tracy

It's a Crime: Women and Justice, 4th edition, edited by Rosalyn Muraskin.

NY: Prentice Hall. 820-846 (reprinted 2005)

Grants Awarded and Continued: Principal Investigator

Female-specific services: Obstacles and opportunities
Kimberly Kempf-Leonard and Bruce A. Jacobs (Co-PI)
Office of the Governor, State of Texas \$71,807 (2004-2005)

L. Douglas Kiel, Professor, Public Administration and Political Economy
B.A., Austin College, 1978
M.P.A., University of Oklahoma, 1984
Ph.D., University of Oklahoma, 1986

Article in Edited Journal

Chaos in Social Systems: Assessment and Relevance
L. Douglas Kiel
Understanding Change: Models, Methodologies and Metaphor, edited by
Andreas Wimmer and Reinhard Kossler
London: Palgrave, 2005

Murray J. Leaf, Professor, Anthropology and Political Economy
B.A., Reed College, 1961
M.A., University of Chicago, 1963
Ph.D., University of Chicago, 1966

Articles in Refereed Journals

Walter C. (Terry) Neale, 1925-2004
Murray J. Leaf and George Rosen
Journal of Asian Economics, **16 (4)** (July-August, 2005) 581-589

Articles in Edited Volumes

The Message is the Medium: Language, Culture and Informatics
Murray J Leaf
Cybernetics and Systems: an International Journal, the journal of the
Austrian Society for Cybernetics Studies, Vienna edited by Dwight Read,
Michael Fischer, and Stephen Lyon
Taylor and Francis **36(8)** (November, 2005) 903-917

Romanticism, Meaning, and Science
Murray J Leaf
Language, Culture and the Individual: A Tribute to Paul Friedrich, edited
by Catherine O'Neil, Mary Scoggin and Kevin Tuite
Munich Lincom Europa (2005)

Law and Society
Murray J Leaf
Encyclopedia of Anthropology, edited by James Birx
Sage Reference (2005)

Articles in Conference Proceedings

The physical farm budget: simulating an indigenous simulation
Murray J. Leaf
Presented in a panel titled: Not Just Heuristic: Simulation models as experiments. *Meetings of the Society for Anthropological Sciences*, Santa Fe, NM, (February 23-27, 2005)

Bandkeramik, Jats, Anabaptists and Amish: the Persistence of Agricultural Tribes
Murray J. Leaf
Paper presented in invited panel: Intensive Agricultural Communities I: Independence autonomy and community. *Annual Meetings of the American Anthropological Association*, Washington D. C. (November 30-Dec. 4, 2005)

Grants Awarded and Continued: Principal Investigator

Survey of Governance Organizations of Texas Universities
Murry J. Leaf
Texas Council of Faculty Senates \$500 (December 2005-December 2006)

Magnus Lofstrom, Assistant Professor, Economics and Political Economy
B.A., University of California, San Diego, 1992
M.A., University of California, San Diego, 1998
Ph.D., University of California, San Diego, 1999

Grants Awarded and Continued: Principal Investigator

Hispanic Self-employment: A Dynamic Analysis
Magnus Lofstrom
The Ewing Marion Kauffman Foundation \$24,766 (January 2005-August 2006)

Does the GED Increase Postsecondary Educational Attainment?
Magnus Lofstrom and John Tyler
National Center for the Study of Adult Learning and Literacy \$15,913
(July-August 2005)

Is the GED an Effective Route to Postsecondary Education?
Magnus Lofstrom and John Tyler
National Center for the Study of Adult Learning and Literacy \$92,361
(October 2005-August 2006)

Susan W. McElroy, Associate Professor, Economics and Education Policy
A.B., Princeton University, 1984
A.M., Stanford University, 1985
A.M. Stanford University, 1992
Ph.D., Stanford University, 1996

Articles in Refereed Journals

Teenage Childbearing and Its Life Cycle Consequences: Exploiting a
Natural Experiment
Susan McElroy, V. Joseph Hotz and Seth G. Sanders
Journal of Human Resources, (Summer 2005)

James W. Marquart, Professor, Crime and Justice
B.S., Western Illinois University, 1976
M.A., Kansas State University, 1978
Ph.D., Texas A&M University, 1983

Articles in Refereed Journals

In Between Adolescence and Adulthood
Chad Trulson, James W. Marquart, Janet Mullings and Tory Caeti
Journal of Youth Violence and Juvenile Justice, **3** (2005) 355-387

Bringing Victims in, but How Far?
James W. Marquart
Criminology and Public Policy, **4** (2005) 1501-1504.

Understanding the Power of Social Contexts on Criminal Justice
Institutions
James W. Marquart
Journal of Criminal Justice Education, **16** (2005) 217-225

Grants Awarded and Continued: Principal Investigator

Evaluation of Johnson v. California, "The Impact of Racial Desegregation
in the California Prison System"

James W. Marquart and Chad Trulson
Funded by the California Prison System, \$254,000 (5/05-12-07)

James C. Murdoch, Professor, Economics and Political Economy
B.S., Grand Valley State College, 1978
Ph.D., University of Wyoming, 1982

Grants Awarded and Continued: Principal Investigator

2005 DCAD Ratio Study
Jams C. Murdoch
Dallas Central Appraisal District, \$25,000 (September 2005 – December 2005)

Clint W. Peinhardt, Assistant Professor, Political Science
B.A., Birmingham-Southern College, 1993
M.A., Institute of Social Studies, The Hague, 1996
Ph.D., The University of Michigan, 2004

Articles in Refereed Journals

Governing Spending and Public Support for Trade in the OECD: An Empirical Test of the Embedded Liberalism Thesis
Jude Hays, Sean Ehrlich and Clint Peinhardt
International Organization **59** (Spring 2005) 473-494

Articles in Conference Proceedings

Emerging Market Financial Liberalization: A Cross-country Study of Portfolio Inflow Restrictions
Clint Peinhardt
American Political Science Association Annual Meeting
Washington, D.C., (August 2005)

Sheila Amin Gutiérrez de Piñeres, Associate Professor,
Economics and Political Economy
B.A., Texas A&M University, 1988
M.A., University of Chicago, 1989
Ph.D., Duke University, 1992

Articles in Conference Proceedings

Ballots and Bullets

Jennifer Holmes and Sheila Amin Gutiérrez de Piñeres

European Consortium for Political Research's Latin America and Elections workshop, Granada Spain (April 2005)

A Sub-national Study of Insurgency: The FARC in Colombia

Jennifer Holmes and Sheila Amin Gutiérrez de Piñeres

Midwest Association of Latin American Studies, St. Louis, MO, (November 2005)

Grants Awarded and Continued: Principal Investigator

First Generation College Student Grant from

Sheila Amin Gutiérrez de Piñeres

Texas Higher Education Coordinating Board (\$25,000) (2005)

Fang Qiu, Associate Professor, Geographic Information Sciences

B.Sc., East China Normal University, 1990

M.Sc., Chinese Academy of Sciences, 1993

Ph.D., University of South Carolina, 2000

Articles in Refereed Journal

Issues on the Use of Variogram-Based Feature Vectors in Content Based Image Retrieval

Zhixiao Xie and Fang Qiu

The Florida Geographer, **36** (2005) 41-46

Articles in Edited Volumes

Integrating Geographic Information Systems and Maximal Covering Models to Determine Optimal Police Patrol Areas

Kevin M. Curtin, Fang Qiu, Karen L. Hayslett-McCall, and Tim M. Bray
Geographic Information Systems and Crime Analysis, edited by Fahui Wang

Hershey, PA: Idea Group, (2005) 214-235

Articles in Conference Proceedings

Spatial Contextual Noise Removal for Post-classification Smoothing of Remotely Sensed Images

Yu Qian, Kang Zhang and Fang Qiu

Proceedings of the 20th Annual ACM Symposium on Applied Computing

Santa Fe, AR, USA, ACM Press, (13-17 March 2005) 524-528

Locating Brown Field with Fuzzy Weighted Overlay

Fang Qiu

American Association of Geographers Annual Conference,
Denver, Colorado, (April 5- 9, 2005)

The Effects of Air Pollution on the Rates of Asthma Admission to the Los
Angeles Hospitals

Guang Xiao and Fang Qiu

11th International Medical Geography Symposium

Fort Worth, TX, July 5 - 10, 2005

Grants Awarded and Continued: Principal Investigator

Mobilization of NASA EOS Data and information through Web services
and knowledge management technology for higher-education teaching and
research

F. Qui

NASA EOS Higher-Education Alliance: \$70,000 (2/1/2004-1/31/2009)

Genetic, Behavioral and Lifestyle Risk Factors for Complications of Type
2 Diabetes in a Mexican American Population in the Lower Rio Grande
Valley

Fang Qiu

Centers for Disease Control and Prevention (CDC: 1 R01 DP000210-01).
\$42,687 (8/1/2005-8/1/2006)

NASA EOS Higher-Education Alliance: Mobilization of NASA EOS Data
and Information through Web Services and Knowledge Management
Technology for Higher Education Teaching and Research

F. Qiu

National Aeronautics and Space Administration (NASA: NNG04GE61A).
\$70,000 (2/1/2004-1/31/2009)

Scott Robinson, Assistant Professor, Government and Political Economy

B.A., Texas A&M University, 1997

M.A., Texas A&M University, 1999

Ph.D., Texas A&M University, 2001

Grants Awarded and Continued: Principal Investigator

Emergency Response and the Impact of on Texas Public Schools

Kenneth J. Meier, Scott E. Robinson, and Alisa Hicklin Co-PIs

NSF CMS – 0553124 \$5909 (2005)

Richard K. Scotch, Professor, Sociology, Public Policy and Political Economy
B.A., University of Chicago, 1973
M.A., Harvard University, 1975
Ph.D., Harvard University, 1982

Grants Awarded and Continued: Principal Investigator

Study Of Crisis Relief Programs in Dallas Area and Exemplary Programs
Nationally
Richard Scotch
Rockwall Helping Hands and consortium of North Texas United Way
\$28,000 (July 2004 – August 2005)

Study of Indigent Health Care Needs and Support Citizen Task Force
Richard Scotch (PI) (Doug Watson, Brenda McCoy, Kevin Curtin, Charles
McConnel)
Collin County \$155,000 (March 2005 – August 2006)

Sheryl L. Skaggs, Assistant Professor, Sociology
B.A., University Center at Tulsa, 1988
M.A., University of Texas at Arlington, 1997
Ph.D., North Carolina State University, 2001

Articles in Refereed Journals

Making Change in Female Supermarket Managerial Representation:
Examining the Role of Legal, Institutional, and Political Environments
Sheryl Skaggs
Research in Political Sociology **14** (2005) 181-209

Marianne C. Stewart, Professor, Government, Politics and Political Economy
B.A., University of Windsor, 1976
M.A., University of Windsor, 1980
Ph.D., Duke University, 1986

Articles in Refereed Journals

Men, Women and The Political Economy of Presidential Approval
Harold D. Clarke, Marianne C. Stewart, Michael Ault and Euel Elliott
British Journal of Political Science **34** (2005) 31-51

Articles in Edited Volumes

The Issue Agenda and Voting in 2005
David Sanders, Harold D. Clarke, Marianne C. Stewart and Paul Whiteley
Britain Votes 2005, edited by Pippa Norris and Christopher Wlezien
Oxford: Oxford University Press (2005) 146-161

Michael Tiefelsdorf, Associate Professor, Geographical Information Sciences
B.S., Free University of Berlin, 1983
M.S., Free University of Berlin, 1988
Ph.D., Wilfrid Laurier University, 1997

Articles in Refereed Journals

Multicollinearity and Correlation among Local Regression Coefficients in
Geographically Weighted Regression
David Wheeler and Michael Tiefelsdorf
Journal of Geographical Systems 7 (2005) 161-187

Grants Awarded and Continued: Principal Investigator

Collaborative proposal: Approximating Eigensystems of Matrices Used in
Spatial Analysis (DMS 0611883)
D. Griffith and M. Tiefelsdorf
National Science Foundation/ Division of Mathematical Sciences and
Methodology, Measurement & Statistics Programs \$159,778 + \$5,000
UM/UTD (2004-2006)

Paul Tracy, Professor, Sociology
A.B., Rhode Island College, 1972
M.A., University of Pennsylvania, 1975
Ph.D., University of Pennsylvania, 1978

Grants Awarded and Continued: Principal Investigator

Examine the Cost/Benefits of Alternative Marijuana Law and Criminal
Penalties in Texas
Paul E. Tracy
Marijuana Policy Project \$50,000 (2004-2005)

Wim P.M. Vijverberg, Professor, Economics and Political Economy
B.A., Erasmus University of Rotterdam, 1975
M.A., University of Pittsburgh, 1979
Ph.D., University of Pittsburgh, 1981

Articles in Refereed Journals

Entrepreneurship Selection and Performance: A Meta-analysis of the
Impact of Education in Developing Countries
Justin van der Sluis, Mirjam van Praag, and Wim Vijverberg
World Bank Economic Review, **19 (2)** (November 2005) 225-261

Does Family Income Matter for Schooling Outcomes? Using Adoption as
a Natural Experiment
Erik Plug and Wim P.M. Vijverberg
Economic Journal, **119** (October 2005) 879-906

Douglas J. Watson, Professor, Public Administration
B.A., University of Maryland, 1967
M.P.A., University of Georgia, 1972
Ph.D., Auburn University, 1992

Articles in Refereed Journals

The ASPA Journals: Who is Publishing?
Douglas J. Watson, Wendy L. Hassett and Donna M. Handley
Journal of Public Affairs Education, **11 (1)** 2005

Capitalizing on Student Workers: The City of Auburn's Student
Employment Programs
Douglas J. Watson and Wendy L. Hassett
Review of Public Personnel Administration, **25-2**, (2005)

Financial Distress and Municipal Bankruptcy: The Case of Prichard,
Alabama
Douglas J. Watson, Donna M. Milam, and Wendy L. Hassett
Journal of Public Budgeting, Accounting & Financial Management, **17 (2)**
(2005)

Carole J. Wilson, Assistant Professor, Political Science
B.A., Louisiana State University, 1995
M.A., University of North Carolina, Chapel Hill, 1998
Ph.D., University of North Carolina, Chapel Hill, 2001

Articles in Refereed Journals

Globalization, Globalización, Globalisation: Public Opinion and NAFTA
Jennifer Merolla, Laura B. Stephenson, Carole J. Wilson, and Elizabeth J.
Zechmeister
Law and Business Review of the Americas **11** (Summer/Fall 2005)

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