

2010

Annual Research Report, 2009-2010

Office of Research
Old Dominion University

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Annual Research Report

Annual report of collaborative research
projects of Old Dominion University
faculty and students in partnership with
business, industry and government



OLD DOMINION
UNIVERSITY

IDEA FUSION

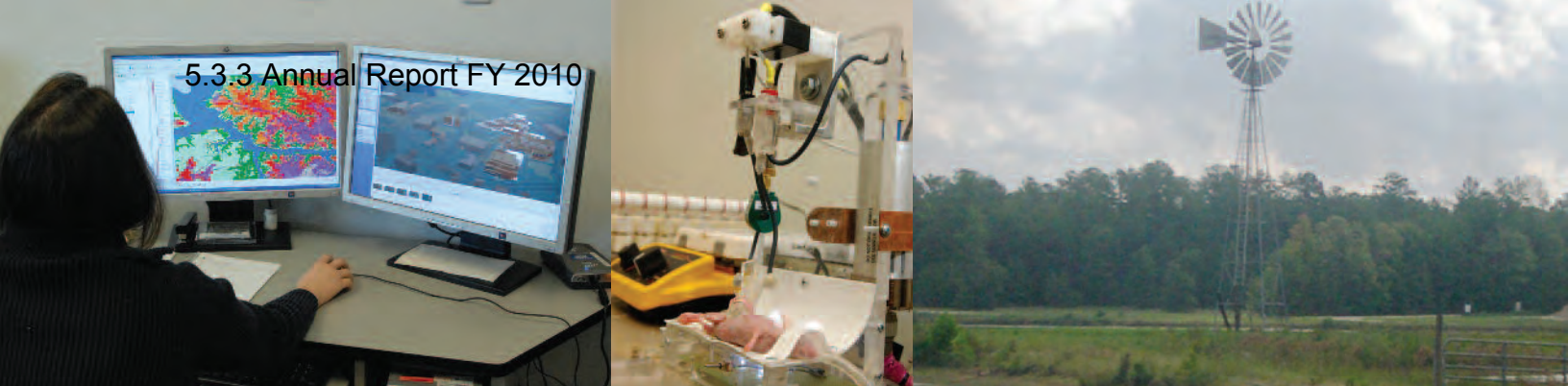


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ODU RESEARCH SPEAKS FOR ITSELF



This was yet another great year for research at ODU. A virtual pathology stethoscope invented by researchers from Virginia Modeling, Analysis and Simulation Center (VMASC) and Eastern Virginia Medical School, and licensed to Cardionics, Inc., made its debut in the market this year. Lawrence Weinstein is leading an international team of scientists at Jefferson National Laboratory to create the most intense high-energy beam of both matter and antimatter the world has ever known. Yiannis Papelis and Brett Newman are leading a major NASA effort to experiment with alternative pilot-in-the-loop airborne operations as well as terminal-based ground operations. Mike Nelson was declared the 2010 winner of the Digital Preservation Award for his work on "time travel for the Web" by the Institute for Conservation and Digital Preservation Coalition in London. Li-

Shi Luo of Mathematics and Statistics and Ian Balitsky of Physics were elected recently Fellows of the American Physical Society (APS). There are now 14 APS Fellows at ODU, not a small feat for a single institution. Much closer to home, VMASC used discrete event simulation to predict in real-time various peak hour travel-time scenarios for the Hampton Roads region in year 2034. This study is the basis for the design of a new bridge-tunnel that will be linking Norfolk Naval Station, Craney Island and the Monitor-Merrimac Memorial Bridge-Tunnel. The Social Science Research Center, under the sponsorship of the Office of Research, came out with its first "Life in Hampton Roads Survey" results that addressed politics, travel, climate, crime, culture, economics, and immigration. This survey will be repeated each year to provide baseline data with additional and unique research questions to allow sociological research of interest to faculty.

Our researchers are driven to achieve excellence not only in their own discipline but also at the intersection of multiple fields. In FY 2010, ODU's total R&D, including institutionally financed expenditures, amounted to \$97.2 million. The faculty generated research proposals valued at \$219.2 million and received \$91.4 million in new awards. NSF, in its latest round, ranked 18 ODU programs as among the top 100 of their respective national peers in terms of R&D expenditures. ODU is ranked 61st among institutions without medical schools, 89th in DoD funding, and 50th in NASA funding. Our NIH portfolio that was ranked 324th in the country four years ago is now ranked 224th and is expected to get a boost forward with establishment of a new vivarium.

In an effort to stimulate newer faculty teams across colleges, the Office of Research sponsored its Round Six of the Multidisciplinary Seed Funding Program. A total of 16 teams of faculty researchers competed this year. The winning six teams of 31 faculty members were provided \$358,207 to explore surgical response, wave energy dynamics, nanoindentation, the social web, perioperative blood management, and nanocapsules.

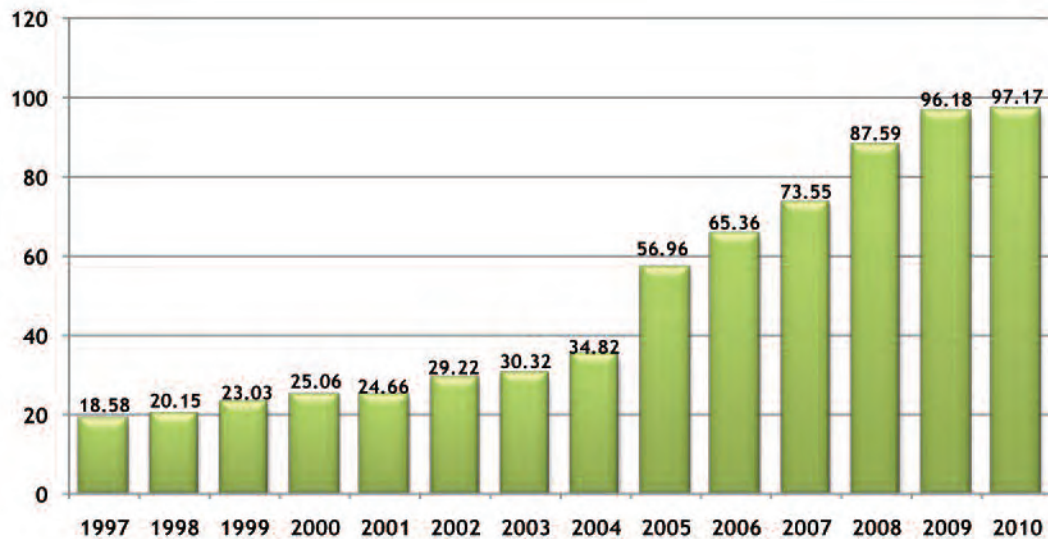
This Annual Research Report documents the wide diversity of scholarly and research endeavors with which ODU researchers have been involved in FY 2010. I invite you to also visit our research homepage at www.odu.edu/research to learn about the latest in research at our great institution. It has indeed been a great time to be at ODU.

A handwritten signature in black ink, appearing to read "Mohammad A. Karim".

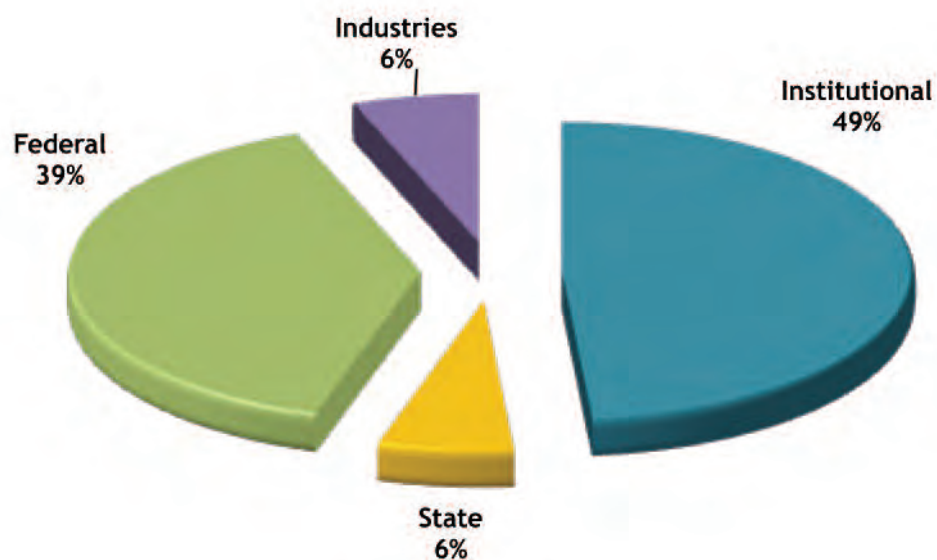
Mohammad A. Karim
Vice President for Research

Research Statistics and Trends

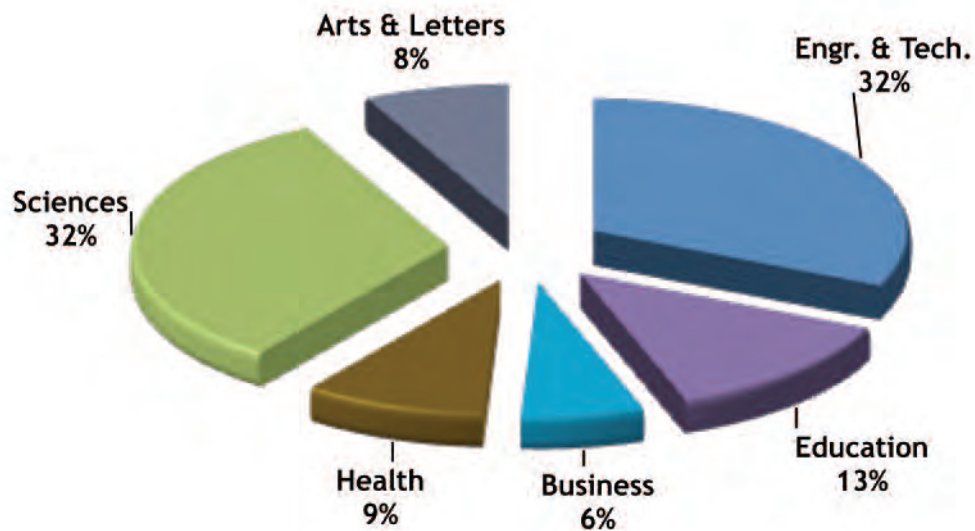
Total R&D Expenditure (\$M)



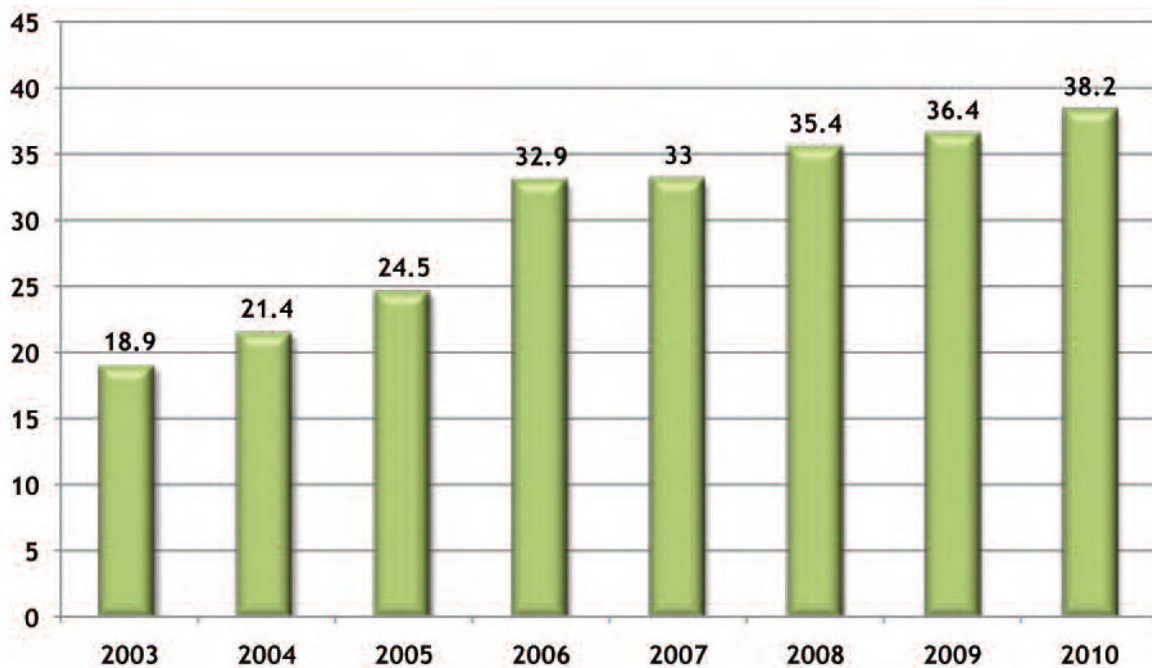
FY10 Total R&D By Sources



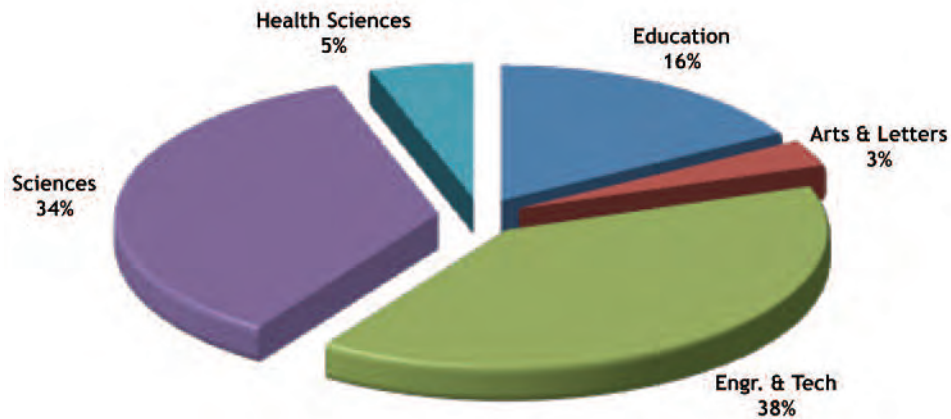
FY10 Total R&D By Fields



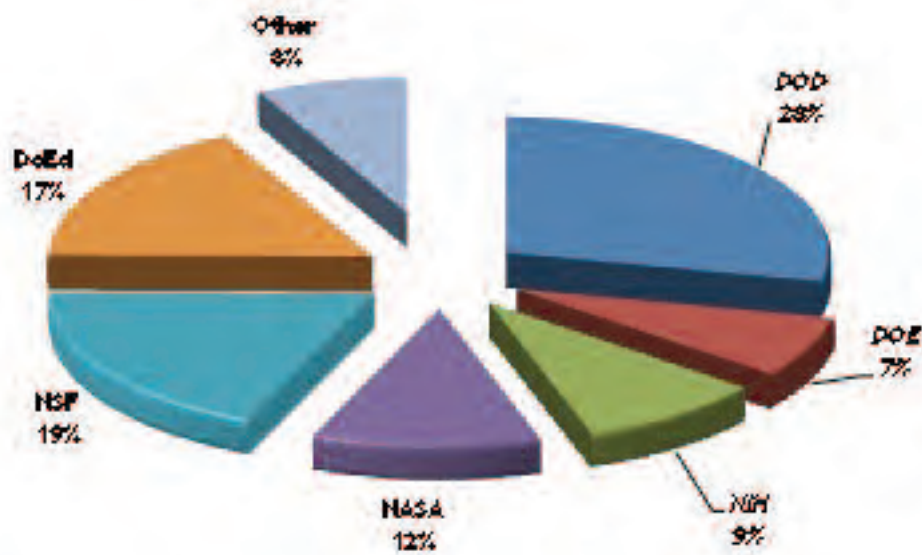
Federal R&D Expenditure (in \$M)



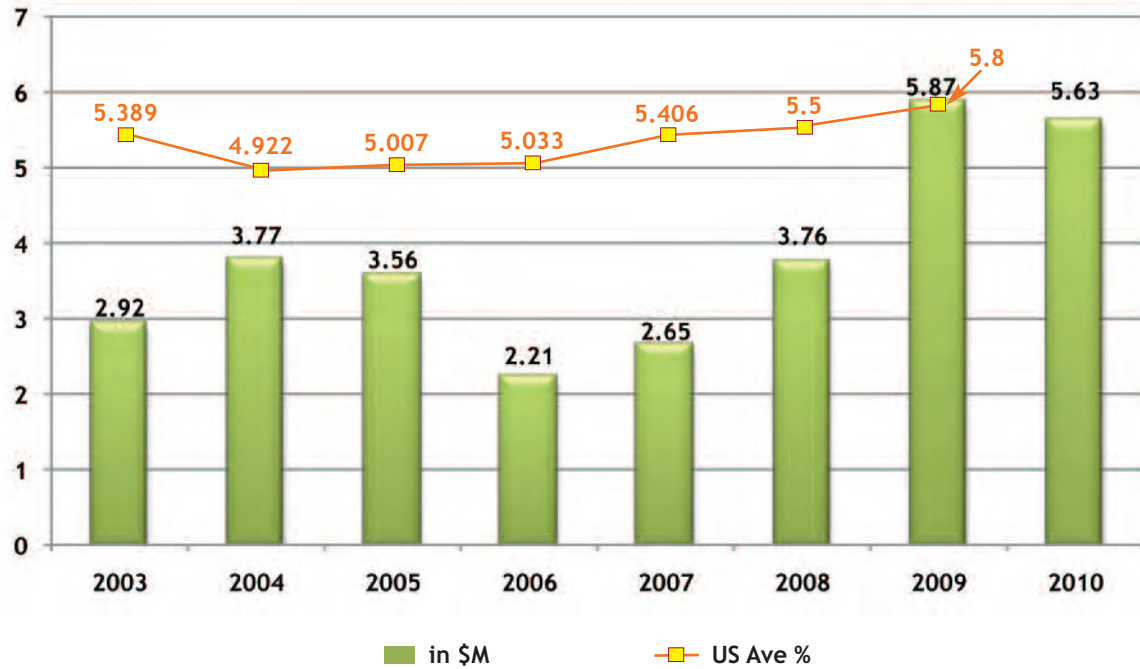
FY10 Federal R&D By Fields



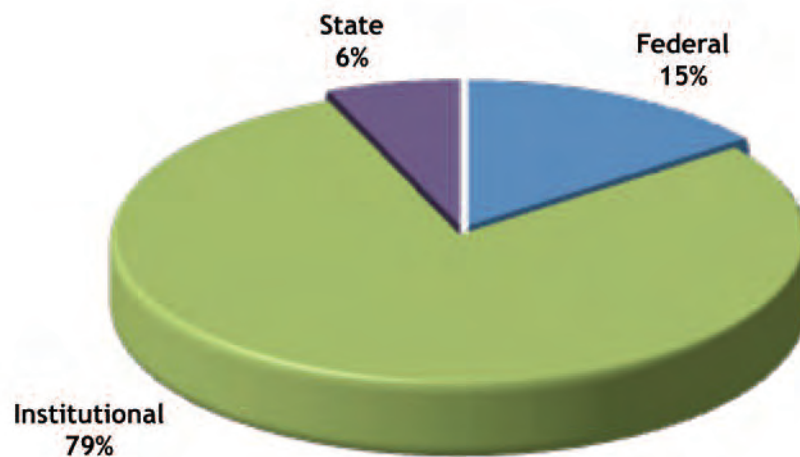
FY10 Federal R&D By Agencies



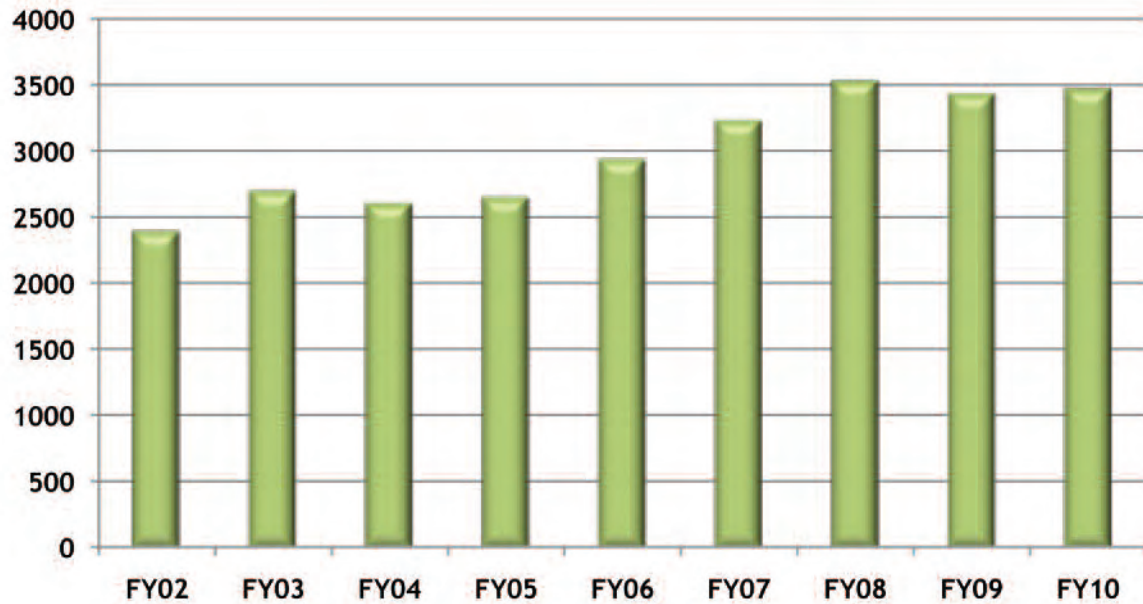
ODU Industrial R&D (\$M)



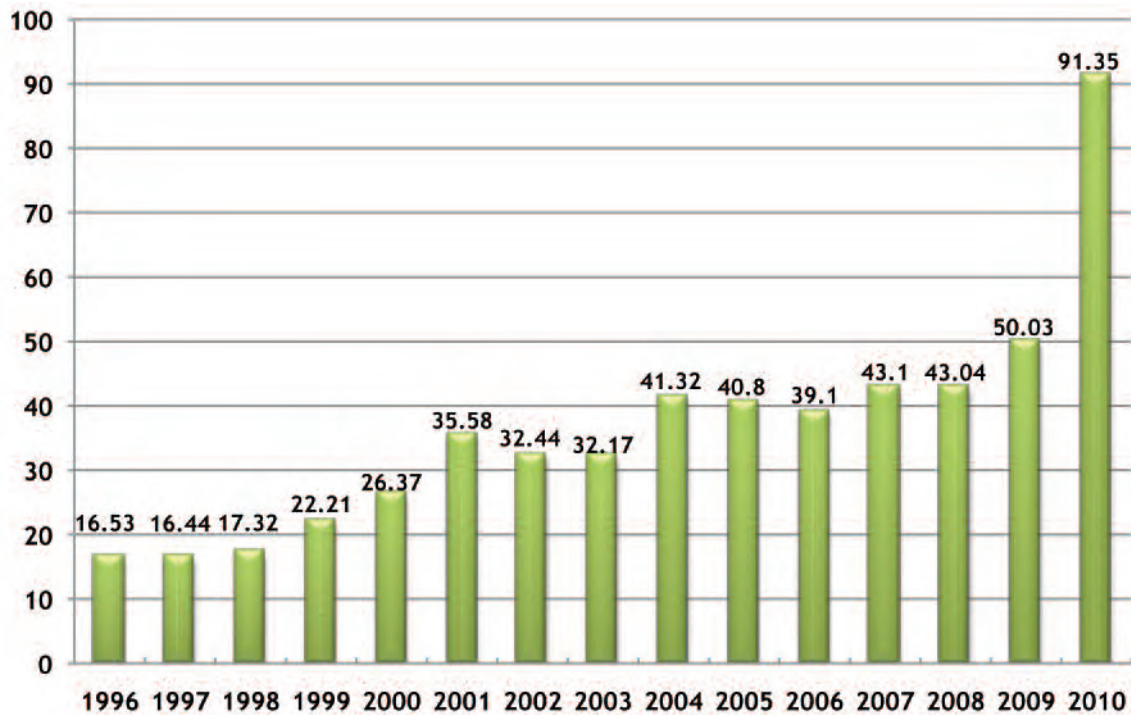
Research Equipment



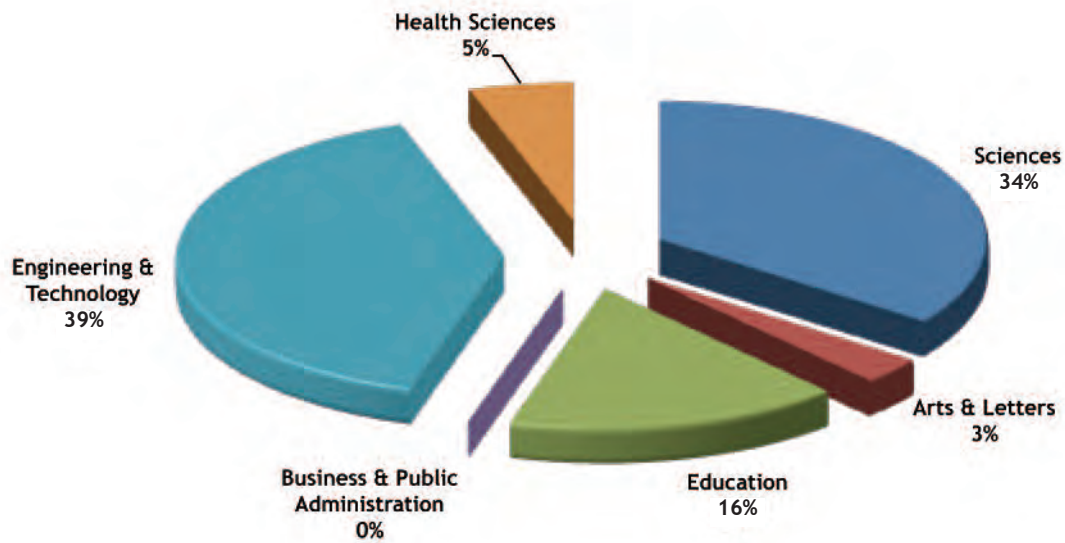
Generated PRT (\$K)



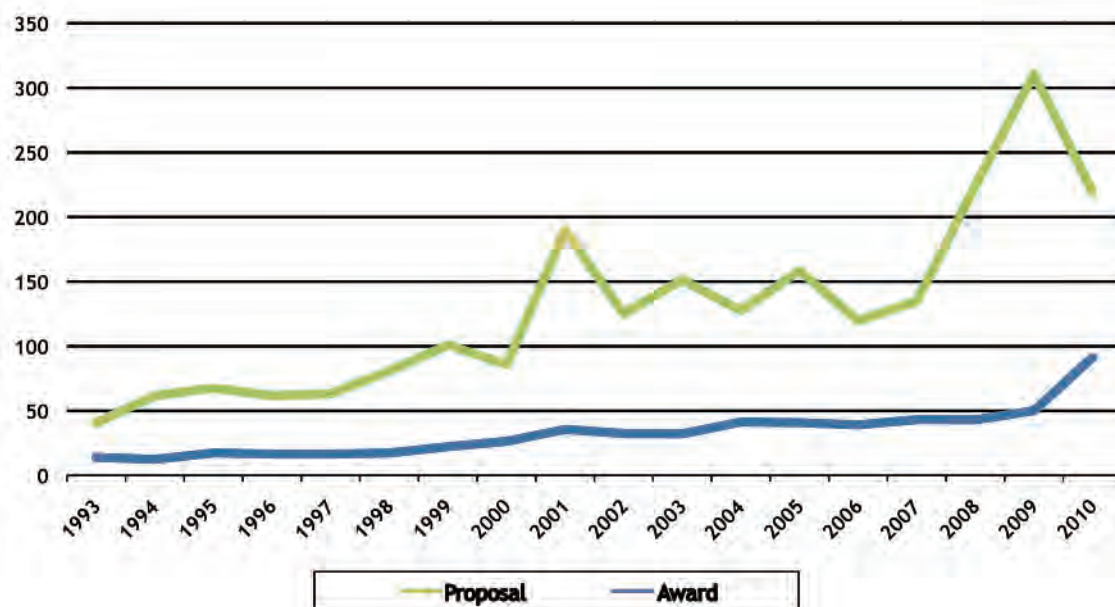
New ODURF Research Award (\$M)



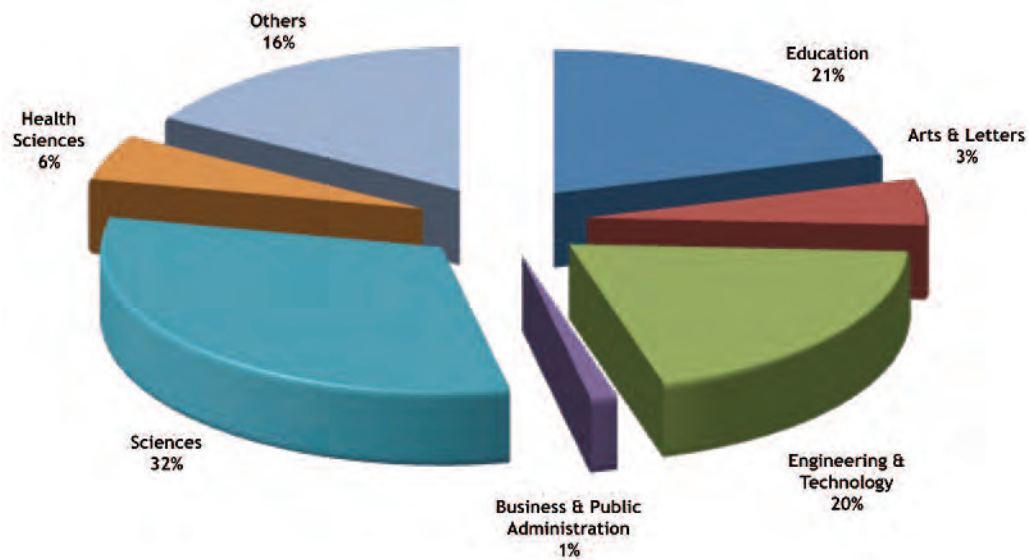
FY10 ODURF R&D By Fields



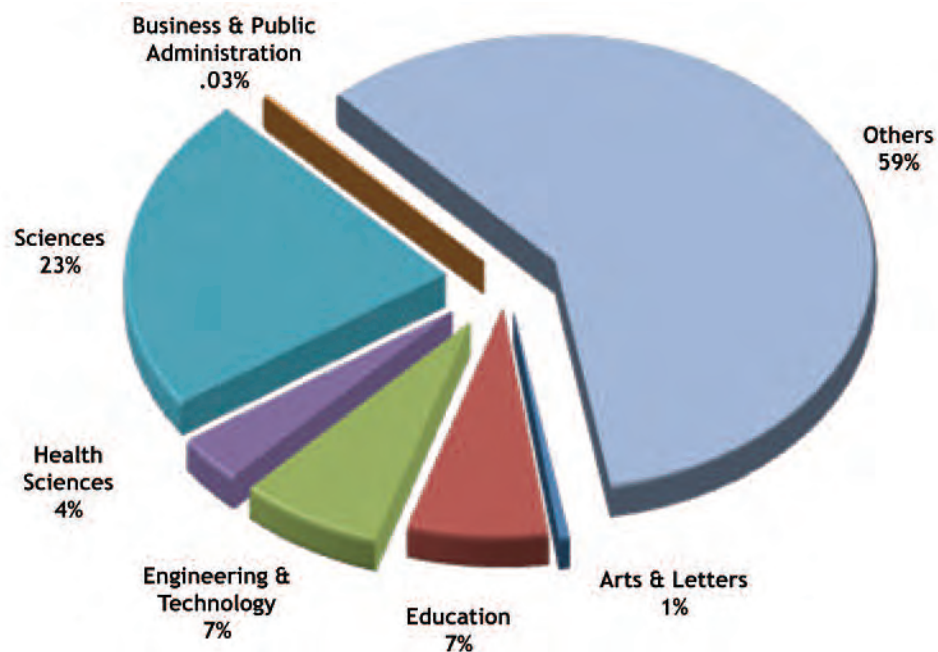
ODU Proposals Statistics (in \$M)



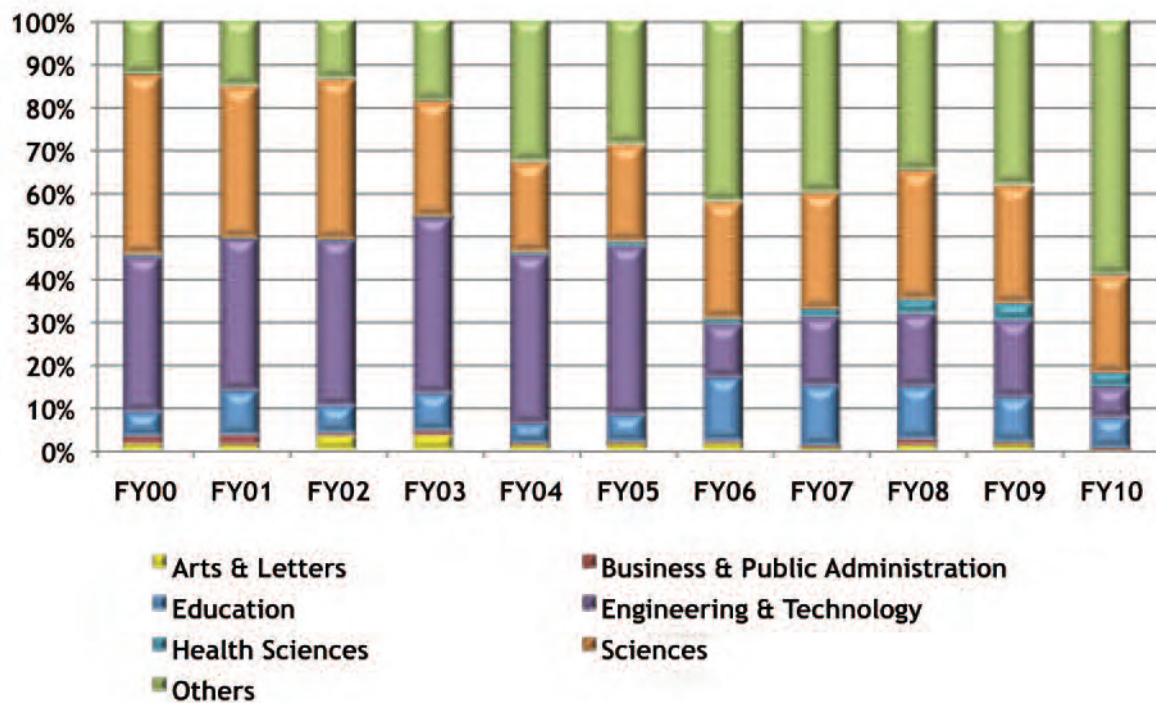
FY10 Proposal Submissions By Units



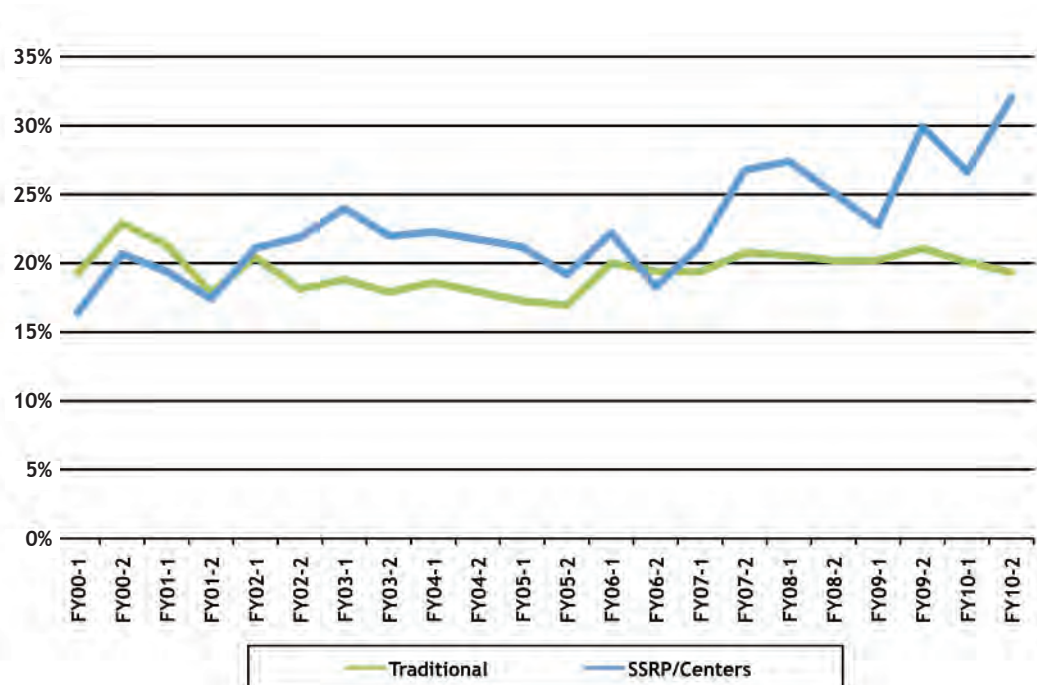
FY10 ODURF New Award by Units



New Research Award By Units



Effective ODURF F&A Recovery Rate (%)



FY 2010 ODU R&D Expenditure Ranking

- ■ Aerospace Engineering (19th in Total and 35th in Federal)
- ■ Business and Management (15th in Total)
- ■ Department of Defense Research (89th)
- ■ Economics (73rd in Total)
- ■ Education (9th in Total and 12th in Federal)
- ■ Electrical Engineering (50th in Total and 64th in Federal)
- ■ Engineering (64th in Total and 83rd in Federal)
- ■ Environmental Science (55th in Total; 39th in Federal)
- ■ Humanities (31st in Total)
- ■ Mathematical Sciences (87th in Total and 82nd in Federal)
- ■ Mechanical Engineering (98th in Total and 68th in Federal)
- ■ NASA Research (50th)
- ■ Non-Science & Non-Engineering (24th in Total and 24th in Federal)
- ■ Oceanography (35th in Total; 36th in Federal)
- ■ Political Science (72nd in Total)
- ■ Physics (99th in Total)
- ■ Universities without Medical School (61st)
- ■ Visual and Performing Arts (8th in Total)

2010 FACULTY RESEARCH ACHIEVEMENT AWARD

Dr. X. Nancy Xu

Professor

*Chemistry and Biochemistry,
College of Sciences*

Dr. X. Nancy Xu received her Ph.D. from the University of Mississippi (Ole Miss) in 1992 and pursued her postdoctoral research at the University of Texas-Austin (1993-95) and Ames Lab-Iowa State University (1996-98). She began her academic career as assistant professor at Old Dominion University in 1998. Since 2009, she has held the position of Professor in Chemistry and Biochemistry.



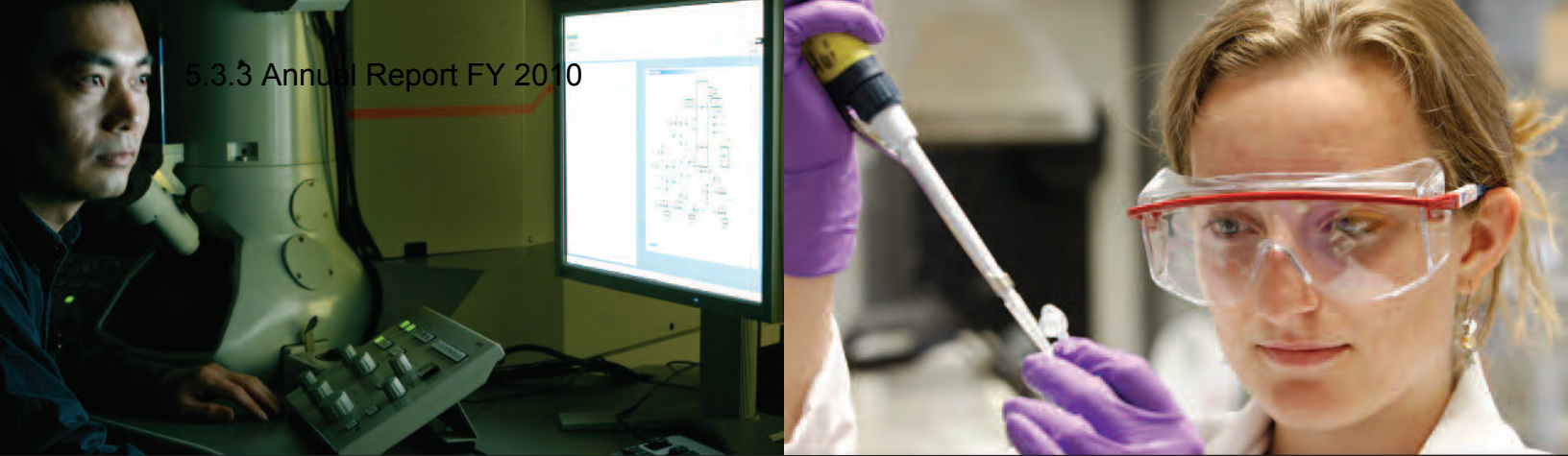
Dr. Xu's research program focuses on the development and application of cutting-edge bio- and nanotechnologies as well as ultrasensitive analytical methodologies to address fundamental and practical questions in chemical, biochemical and biomedical research. In particular, she studies chemical and biological reactions in real-time at the single-molecule level. Her research program investigates the most challenging questions in biology and explores living organisms at the cellular and molecular level. Ultimately, her research program will lead to the discovery of new chemical and biochemical mechanisms, and the invention of novel technologies.

Her research program is currently supported by two major federal research grants over \$3.4 million, one from NSF (\$1.6 million) and one from NIH (\$1.8 million).

Dr. Xu has brought national attention to ODU due to her work in the competitive area of nanotechnology. She has published over 40 peer-reviewed journal articles, 5 book chapters and a book. She has presented over 120 papers, including 53 invited ones, at national and international conferences, and has delivered nearly 50 invited seminars at universities across the nation and around the world.

Dr. Xu holds one worldwide patent on DNA biosensor, and has two pending U.S. patents on nano-biotechnology. She has served as a grant reviewer or panelist for 11 funding agencies, including NIH, NSF, EPA, DoE, and DOD in the U.S., DGF in Germany, Swiss-NSF, and HKRGC in Hong Kong. She also served as a reviewer for a wide variety of journals.

Dr. Xu received the 2009 Distinguished Research Award from the College of Sciences at ODU, the 2008 Nano 50TM Innovator Award and the 2007 Nano 50TM Award in Technology from Nanotech Briefs. She was the student-selected Most Inspiring Faculty Member in the ODU College of Sciences in 2002, 2005 and 2007.



ODU Fellows

College of Arts & Letters

Regina Karp
International Institute for Strategic Studies
Donald Zeigler
American Geographical Society

Frank Batten College of Engineering & Technology

A. Osman Akan
American Society of Civil Engineers
Oktay Baysal
American Society of Mechanical Engineers
Sushil K. Chaturvedi
American Society of Mechanical Engineers
Jeremiah Creedon
American Institute of Aeronautics and Astronautics
Gary Crossman
American Society for Engineering Education
Ayondeji O. Demuren
Institution of Mechanical Engineers
William A. Drewry
American Society of Civil Engineers
Adrian Gheorghe
Society for Risk Analysis - Europe
Swiss Society for Risk Analysis
Swiss Society for Energy Policy
Ravindra Joshi
Institute of Electrical and Electronics Engineers
Mohammad A. Karim
Institute of Electrical and Electronics Engineers
Institute of Physics
Institution of Engineering and Technology
Optical Society of America
Society of Photo-Instrumentation Engineers
Bangladesh Academy of Sciences
Asad Khattak
American Society of Civil Engineers
Mounir Laroussi
Institute of Electrical and Electronics Engineers
Martin Mikulas
National Academy of Engineering

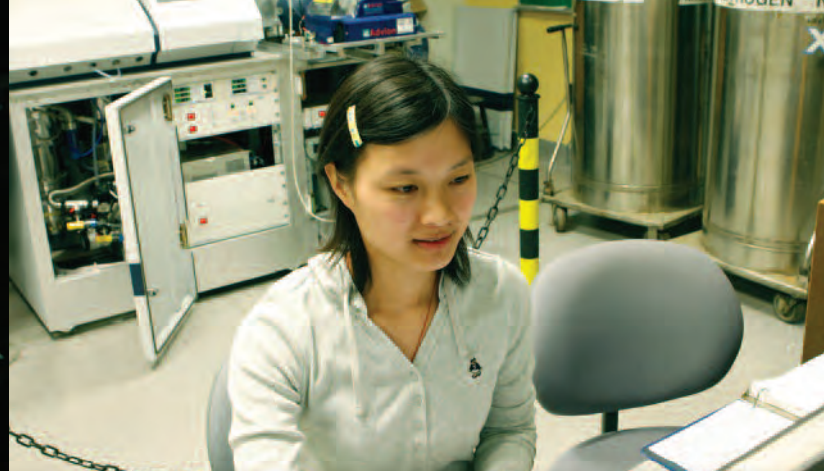
Ahmed K. Noor
American Society of Civil Engineers
American Society of Mechanical Engineers
American Institute of Aeronautics and Astronautics
American Academy of Mechanics
U.S. Association for Computational Mechanics
Ramamurthy Prabhakaran
Society for Experimental Mechanics
Zia Razzaq
American Society of Civil Engineers
John Samuels
National Academy of Engineering
Karl H. Schoenbach
Institute of Electrical and Electronics Engineers
Resit Unal
American Society of Engineering Management

College of Business & Public Administration

John B. Ford
Academy of Marketing Science
Yuping Liu-Thompkins
Society for New Communications Research
Michael J. Seiler
American Real Estate Society

Darden College of Education

David Branch
American College of Sport Medicine
Nicholas G. Bountress
American Speech-Language and Hearing Association
Nina Brown
American Group Psychotherapy Association
Sheri Colberg-Ochs
American College of Sport Medicine
Anastasia Raymer
American Speech-Language and Hearing Association
Theodore P. Remley
American Counseling Association
John Ritz
International Technology Education Association



Robert Spina

American College of Sport Medicine
American Academy of Kinesiology and
Physical Education

David Swain

American College of Sport Medicine

College of Health Sciences

Kimberly Adams-Tufts

American Physical Therapy Association

E. Andrew Balas

American College of Medical Informatics
European Academy of Sciences and Arts

Richardean Benjamin

Academy of Nursing Education
American Academy of Nursing

Paul Clements

International Association of Forensic Nurses

John Echternach

American Physical Therapy Association

College of Sciences

Larry Atkinson

American Society for the Advancement of Science

Ian Balitsky

American Physical Society

Dennis Darby

Geological Society of America

Jean Delayen

American Physical Society

Valerian Derlega

American Psychological Association
Society for the Psychological Study of Social Issues
Society of Experimental Social Psychology

Ann Gargett

Royal Society of Canada

Alexander Gurevitch

American Physical Society

Mark Havey

American Physical Society

John Holsinger

National Speleological Society

Charles E. Hyde

American Physical Society

Cynthia Jones

American Society for the Advancement of Science

Geoff Krafft

American Physical Society

Sebastian Kuhn

American Physical Society

Li Shi Luo

American Physical Society

Harold G. Marshall

Virginia Academy of Sciences

Bernard Mecking

American Physical Society

Lytton Musselman

Linnean Society of London
International Parasitic Plant Society

Dayanand Naik

American Statistical Association

Nora Noffke

Geological Society of America

Anatoly Radyushkin

American Physical Society

Janis Sanchez

American Psychological Association

Mark W. Scerbo

Human Factors and Ergonomics Society

Rocco Schiavilla

American Physical Society

Carol Simpson

Geological Society of America

Don Swift

Geological Society of America

John Tweed

Royal Society of Edinburgh
Institute of Mathematics and Its Applications

Jay Wallace Van Orden

American Physical Society

Lepsha Vuskovic

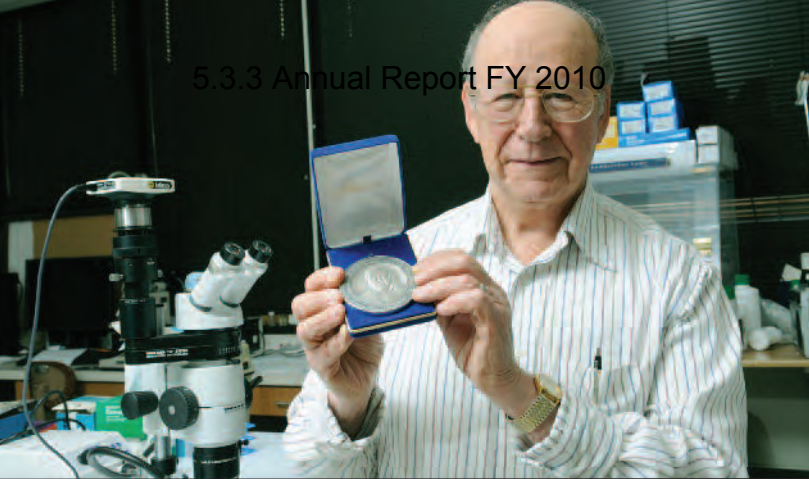
American Physical Society

Colm Whelan

American Physical Society
Institute of Physics

Lawrence Weinstein

American Physical Society



Honorary Awards

College of Arts and Letters

Bailey, John Blake. National Book Critics Circle Award for a Biography, *Cheever: A Life*, 2010.

Bailey, John Blake. Francis Parkman Prize for best nonfiction book of American History, Society of American Historians, *Cheever: A Life*, 2010.

Bailey, John Blake. Literature Award, American Academy of Arts and Letters, *Cheever: A Life*, 2010.

Bailey, John Blake. Finalist, Pulitzer Prize for Autobiography or Biography, *Cheever: A Life*, 2010.

Bailey, John Blake. Finalist, James Tait Black Memorial Prize for Biography, *Cheever: A Life*, 2010.

Bailey, John Blake. Finalist, Lambda Literary Award for Bisexual Nonfiction, *Cheever: A Life*, 2010.

Chen, Jie. Changjiang Endowed Chair Professorship, Ministry of Education, China, 2009.

Chen, Jie. Finalist, Virginia Outstanding Faculty Award of the State Council of Higher Education for Virginia, 2010.

Edgerton, Gary R. Eminent Scholar, Old Dominion University, 2010.

Hametz, Maura. Finalist, Jewish Book Award for collections category, "Foreigners in their own city: Italian fascism and the dispersal of Trieste's port Jews." *Place and Displacement in Jewish History and Memory Zakor v'Makor*, Eds. David Cesarani, Tony Kushner, and Milton Shain. Mitchell Vallentine and Company, 2009.

Kinzer, Amanda. University Dance Educator of the Year, Virginia Association for Health, Physical Education, Recreation, and Dance, 2009.

Igloria, Luisa. Finalist, Narrative Poetry Contest, "Recycling History" and "On the Difficulty of

Discerning Shapes in the Distance," Narrative Magazine, October 2009.

Liu, Hua. First recipient of the 2010 ERDAS Award for Best Scientific Paper in Remote Sensing, "Scaling effect on the relationship between landscape pattern and land surface temperature: A case study of Indianapolis, United States," American Society for Photogrammetry and Remote Sensing, 2010.

McManus, John. Fellowship, Corporation of Yaddo, Saratoga Springs, NY, July-August 2010.

McManus, John. Creative Writing Fellowship, Fundacion Valparaiso, Mojácar, Spain, May 2010.

Potts, Liza. Teaching with Technology Award, Old Dominion University, 2010.

Tait, Althea. Summer College Grant Award, Old Dominion University College of Arts and Letters, 2010.

Yetiv, Steve. Burgess Award for Excellence in Research, Old Dominion University College of Arts and Letters, 2010.

Zeigler, Donald. Gilbert Grosvenor Honors in Geographic Education, Association of American Geographers, 2009.

Zeigler, Donald. Editor's Special Award, *Journal of Geography*, National Council for Geographic Education, 2009.

College of Business and Public Administration

Ford, John B. Old Dominion University Eminent Professor, 2010.

Liu, Yuping. Fellow, Society for New Communications Research, 2010.



Liu, Yuping. E.V. Williams Faculty Fellow, 2010.

Lombard, John and David Chapman. Winner, Seniors Housing category at the American Society of Real Estate meetings. "Can't Get No Satisfaction or Can They? Examining Housing and Neighborhood Satisfaction Factors in the 55+ Generation," 2009.

Morris, John C. University Doctoral Mentoring Award, Old Dominion University, Spring 2010.

Stein, Michael. Inaugural Academic Fellow, Public Company Accounting Oversight Board, 2010.

Talley, Wayne. Provost's Award for Leadership in International Education, Old Dominion University, Norfolk, VA, 2010.

Talley, Wayne. Honorary Co-Director, Maritime Research and Economic Development Centre, The Academy of Shanghai Maritime University, Shanghai, China, 2009.

Ziegenfuss, Douglas. Outstanding Business Information Professional of the Year - Academic, Beta Alpha Psi, Brooklyn, NY, August 2009.

Zhou, Haiwen. E.V. Williams Faculty Research Fellow, 2010.

Zhu, Hongwei. Named to the Data Quality and Consistency Committee of XBRL US.

Darden College of Education

Bernstein, Gary M. Most Inspiring Faculty Award, Old Dominion University, May 6, 2010.

Bobzien, Jonna L. Kimberly Gail Hughes Research Award, Old Dominion University, June 2010.

Neukrug, Edward S. Teaching with Technology Award, Old Dominion University, 2010.

College of Health Sciences

Adams-Tufts, K. University Finalist, Virginia Outstanding Faculty Awards, State Council of Higher Education for Virginia, 2009.

Curran, Dawn. Most Influential Faculty by the COHS top graduate, December 2009.

Darby, Michele. Fulbright Distinguished Scholar, Fulbright US Scholar Program, Irbid, Jordan, 2010.

Karlowicz, K. Fellowship 2009-2010, American Association of Colleges of Nursing, Leadership in Academic Nursing, 2009.

Tolle, Lynn. 2010 Educator of the Year, American Dental Hygienists' Association, Las Vegas, NV, June 2010.

Tolle, Lynn. Tonelson Award, Old Dominion University Alumni Association, May 2010.

College of Sciences

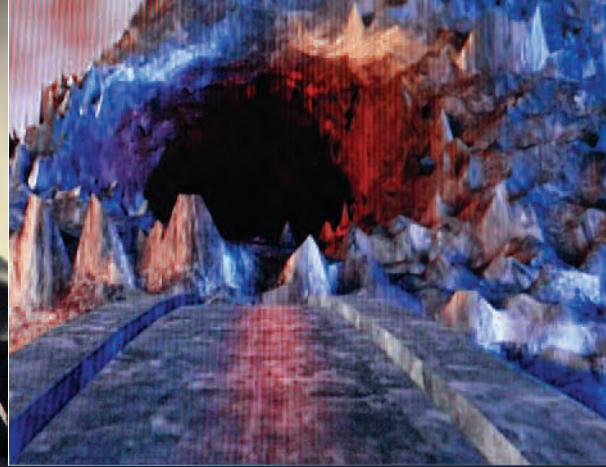
Balitsky, Ian. Outstanding Research Award, Old Dominion University College of Sciences, 2010.

Neuweiler, Fritz, Elizabeth C. Turner, and **David Burdige.** Citation by *Discover* magazine as the #12 scientific discovery of the year, "Early Neoproterozoic origin of the metazoan clade recorded in carbonate rock texture." *Geology* 37.5 (2009): 475-478.

Chrisochoides, Nikos. Richard T. Cheng Endowed Chair, Old Dominion University, 2010.

Darby, Dennis. Distinguished Research Award, Old Dominion University, 2010.

Dobbs, Fred. Nominee, Virginia Outstanding Faculty Award, State Council of Higher Education for Virginia, 2009.



Dodge, Gail. Member of the Nuclear Science Advisory Committee, 2010.

Ezer, Tal. Internal Nominee, SCHEV Virginia Outstanding Faculty Award, 2009.

Hyde, Charles. Chaire d'Excellence, French "Agence Nationale de la Recherche." 2007-2010.

Ji, Shuiwang. Best Performer in TRECVID Video Surveillance Evaluation, National Institute of Standards and Technology, 2009.

Jones, Cynthia. Elected Fellow, American Association for the Advancement of Science, 2009.

Kuhn, Sebastian. Elected Member - Executive Committee, APS Topical Group on Hadronic Physics, 2009.

Kuhn, Sebastian. Chair-elect, Jefferson Lab Users Board of Directors, 2010.

Lewis, R. Graduates Award, Virginia Consortium Program in Clinical Psychology, 2010.

Li, Yaohang. CAREER Award, National Science Foundation, 2009.

Major, D. Distinguished Research Award, Old Dominion University College of Sciences, May 2010.

Major, D. Graduate Student Mentor Award Finalist, Old Dominion University, 2010.

Mukkamala, Ravi. Best Paper Award, 1st International Conference on Advanced Service Computing, November 2009.

Naik, Dayanand N. Fellow, American Statistical Association, 2010.

Stefanidis, D., C. Acker, P. Montero, A. Prabhu, W. Smith, and M.W. Scerbo. Paper of Distinction, "Simulator Training to Automaticity Leads to Improved Skill Transfer Compared to Traditional Proficiency-based Training." 2010 Surgical Education Week, San Antonio, TX, April 2010.

Schiavilla, Rocco. Member of the National Advisory Committee, Institute for Nuclear Theory, University of Washington, 2009-2011.

Scully, Malcolm. Cronin Award for Early Achievement, Coastal and Estuarine Research Foundation, 2009.

Swift, Donald. Francis J. Pettijohn Medal for Excellence in Sedimentology, Society of Economic Petrologists and Mineralogists, April 2010.

Weinstein, Larry. Virginia Outstanding Faculty Award, State Council of Higher Education for Virginia, 2009.

Winstead, B. Gene W. Hirschfeld Faculty Excellence Award, 2010.

Xu, Nancy. Faculty Research Achievement Award, Old Dominion University, 2010.

Xu, Nancy. Distinguished Research Award, Old Dominion University College of Sciences, 2009.



Units with over \$1M in FY10 Research Expenditures

Virginia Commercial Space Flight Authority, \$24.52M
 Virginia Modeling, Analysis and Simulation Center, \$7.68M
 Virginia Space Grants Consortium, \$3.28M
 Communication Disorder and Special Education, \$3.28M
 Ocean, Earth and Atmospheric Sciences, \$2.54M
 Chemistry and Biochemistry, \$2.47M
 Mechanical and Aerospace Engineering, \$2.47M
 Biological Sciences, \$2.29M
 Frank Reidy Research Center for Bioelectrics, \$2.29M
 Physics, \$2.13M
 Electrical and Computer Engineering, \$1.75M
 Engineering Management and Systems Engineering, \$1.73M
 Computer Science, \$1.08M
 Center for Coastal and Physical Oceanography, \$1.06M
 Medical Laboratory and Radiation Sciences, \$1.06M
 Virginia Coastal Energy Research Consortium, \$1.00M

Principal Investigators with over \$500K in FY10 Research Expenditures

Billie M. Reed, Virginia Commercial Space Flight Authority, \$24.52M
 John A. Sokolowski, Virginia Modeling, Analysis and Simulation Center, \$6.46M
 Mary Sandy, Virginia Space Grants Consortium, \$3.05M
 Stephen Tonelson, Communication Disorders and Special Education, \$1.53M
 Robert Gable, Communication Disorders and Special Education, \$1.38M
 Patrick Hatcher, Virginia Coastal Energy Research Consortium, \$1.35M
 Richard Heller, Frank Reidy Research Center for Bioelectrics, \$1.03M
 Andre Pakhomov, Frank Reidy Research Center for Bioelectrics, \$841K
 Kent Carpenter, Biological Sciences, \$827K
 Walton A. Hooks, Physics, \$731K
 Lawrence Dotolo, Virginia Tidewater Consortium for Higher Education, \$576K
 Drew Landman, Mechanical and Aerospace Engineering, \$573K
 Cynthia Jones, Center for Quantitative Fisheries Ecology, \$561K
 John R. Donat, Chemistry & Biochemistry, \$514K

FY10

New Research Awards

Adams-Tufts, Kimberly. Nursing, “HRSA Adv Education Nursing Year 3.” U.S. Department of Health & Human Services, 7/1/09-6/30/10, \$12,949.

Agarwal, Vinod B. Economics, “2009 Virginia Beach Overnight Visitor Profiles and 2009 Virginia Beach Tourism Economic Impact Study.” Barker, Campbell & Farley, 7/1/09-6/30/10, \$38,637.

Alberts, Thomas. Aerospace Engineering, “Continuation Funding for Maglev.” VA Department of Mines, Minerals and Energy, 6/16/09-6/15/10, \$124,000.

Al-Hazza, Tami C. Teaching & Learning, “ODU Teacher Immersion Residency.” U.S. Department of Education, 10/1/09-9/30/10, \$41,154.

Areti, Hari. Physics, “REU at ODU: Accelerator and Nuclear Physics.” National Science Foundation, 2/2/10-4/30/11, \$50,625.

Areti, Hari. Physics, “Development of a Suite of Engineered Multi-spoke Superconducting Cavities for Nuclear Physics, Light Sources, and Driven Systems Applications.” U.S. Department of Energy, 5/15/10-5/14/13, \$289,600.

Asari, Vijayan. Electrical & Computer Engineering, “Development/Delivery of Face/IRIS Recognition and Image Enhancement Algorithms.” Creative Information Technology, Inc. 9/1/09-12/31/09, \$72,000.

Asari, Vijayan. Electrical & Computer Engineering, “Automatic Vessel Detection and Slamming Avoidance.” Lockheed/Martin, 7/10/09-12/18/09, \$25,000.

Atkinson, Larry P. Ocean, Earth & Atmospheric Sciences, “Collaborative Research: Planning Grant: I/UCRC for Wind Energy.” National Science Foundation, 8/1/09-7/31/10, \$10,000.

Atkinson, Larry P. Center for Coastal Physical Oceanography, “ODU Office of Research Alternative Energy Program.” Old Dominion University, 7/1/09-3/30/11, \$67,829.

Atkinson, Larry P. Center for Coastal Physical Oceanography, “Mid-Atlantic Ocean Model Calculations.” Princeton University, 2/1/10-1/31/11, \$47,417.

Atkinson, Larry P. Center for Coastal Physical Oceanography, “Phased Deployment and Operations of

the Mid-Atlantic Regional Coastal Observing System.” State University of New Jersey, 10/1/09-9/31/10, \$99,000.

Azar, Janet. Nursing, “Prevention Unintentional Injuries-Bicycle Safety.” VA Department of Health, 4/1/10-6/15/10, \$349.

Baker, Cheryl. Communication Disorders & Special Education, “Continuation of Visual Impairment Consortium.” George Mason University, 10/1/09-9/30/11, \$10,498.

Baker, Cheryl. Communication Disorders & Special Education, “Preparation for Leadership Personnel.” U.S. Department of Education, 8/16/09-8/15/11, \$40,000.

Baker, Cheryl. Communication Disorders & Special Education, “Traineeship for Education of Special Education Personnel for Regions 2 & 5.” VA Department of Education, 7/01/09-5/24/10 \$55,292.

Baker, Cheryl. Communication Disorders & Special Education, “Special Education Endorsement Programs.” VA Department of Education, 10/1/09-9/25/10, \$92,084.

Balitsky, Ian. Physics, “Continuation of Topics in Theoretical Nuclear Physics.” U.S. Department of Energy, 2/15/10-4/14/11, \$28,600.

Banks, Catherine. VMASC, “Systems Dynamics Course for NATO.” North Atlantic Treaty Organisation, 11/1/09-11/30/09, \$3,000.

Bao, Han P. Mechanical Engineering, “Collaborative Research-Marine Career: STEM Careers in Shipbuilding and Marine Industry.” National Science Foundation, 10/1/09-9/30/10, \$56,161.

Barham, Phyllis D. Nursing, “Technology Skill Development for Effective Nurse Communication.” U.S. Department of Health and Human Services, 7/1/09-6/30/12, \$66,190.

Bartol, Ian K. Biological Sciences, “GRA Support for Processing Archived Life History Samples from Stranded Tursiops in Virginia.” Virginia Aquarium Foundation, Inc., 8/1/09-6/30/11, \$20,350.

Baumgart, Helmut. Electrical & Computer Engineering, “Multilayer ALD Films for SRF Cavities.” Black Laboratories, LLC., 7/1/09-3/31/10, \$31,211.

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Baumgart, Helmut. Electrical & Computer Engineering, "Development and Characterization of Thin Film SRF Surfaces for Accelerator Cavities-ODU." Jefferson Science Association, LLC., 10/21/09-11/30/12, \$25,336.

Baysal, Oktay. Batten College of Engineering & Technology. "Turkish Air Force Student Support." General Command of Gendarme, 9/2/09-9/1/10, \$195,972.

Bayse, Craig A. Chemistry and Biochemistry, "Platinum Metal Complexes as DNA-Protein Cross-Linking Agents." Virginia Commonwealth University, 7/1/09-6/30/10, \$5,000.

Bayse, Craig A. Chemistry and Biochemistry, "Copper (I) Networks: Structure, Luminescence, Catalysis, and Sensor Behavior." William and Mary Greve Foundation, 9/1/09-8/31/10, \$14,894.

Behr, Joshua. VMASC, "Supplemental Travel Funds: Assessment of Various Approaches to Modeling Risks in 2010 BTA-PROJ R0806." Battelle National Biodefense, 2/1/10-12/31/10, \$26,400.

Behr, Joshua. VMASC, "Routing Optimization Phase 1." City of Hampton, 1/1/10-3/31/10, \$11,618.

Behr, Joshua. VMASC, "FISC: JATA Outreach Integration." Navy Fleet Industrial Supply Center, 5/6/10-5/5/11, \$200,000.

Benjamin, Richardean. Nursing, "Technology Skill Development for Effective Nurse Communication." U.S. Department of Health & Human Services, 7/1/09-6/30/12, \$39,714.

Beskok, Ali. Aerospace Engineering, "MRI: Acquisition of Four-Probe Multi-View 4000 AMF, NSOM, and SPM Systems." National Science Foundation, 8/1/09-7/31/12, \$86,912.

Beskok, Ali. Aerospace Engineering, "Interface Resistance and Thermal Transport in Nano-Scale Confined Liquids." National Science Foundation, 1/1/10-12/31/12, \$255,624.

Beskok, Ali. Aerospace Engineering, "A Microfluidic Approach for Separation and Concentration of Bacterial Spore from Milk and Juices." Texas A&M University, 10/1/09-9/30/10, \$108,468.

Blando, Jose. Center for Coastal Physical Oceanography, "Carrying Capacity of the Titicaca Lake, First Stage." Association Hispanic Peruvian Cooperation Fund, 12/21/09-4/21/10, \$45,171.

Bostic, Timothy B. Education. "The Academy of Music: Parkview Strings Program Evaluation." Academy of Music, 1/1/10-9/30/10, \$12,449.

Bountress, Nicholas. Communication Disorders & Special Education, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/10, \$41,154.

Bowling, Shannon. Engineering Management, "Development of a Customized Project Managers' Development Program for the U.S. Army Corps of Engineers- Norfolk District." U.S. Army Corps of Engineers, 3/16/10-6/30/10, \$6,089.

Britcher, Colin P. Aerospace Engineering, "Dismantling and Removal of Wind Tunnel." National Institute of Aerospace Associates, 5/1/10-8/30/10, \$7,464.

Brown, Nina W. Counseling & Human Services, "Supplement Request for: Strategies: Collaborative Research: Marinetech: STEM Preparation through Marine Engineering, Science, and Technology Experiences." National Science Foundation, 10/1/09-12/31/11, \$2,990.

Bueltmann, Stephen. Physics, "Collaborative Research: MRI-Consortium for the Development and Construction of a Longitudinally Polarized Proton and Deuteron Target for Clas12 at Jefferson Lab." National Science Foundation, 4/1/10-3/31/14, \$210,362.

Butler, Carroll. Communication Disorders & Special Education, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/10, \$41,154.

Butler, Leigh L. Darden College of Education, "Chesapeake Bay Watershed Education & Training (B-Wet) Program: Science Education Advancing Research of the Chesapeake Bay and Its Habitats." National Oceanic & Atmospheric Administration, 7/1/09-6/30/11, \$0.

Butler, Leigh L. Darden College of Education, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/10, \$41,154.

Butler, Leigh L. Miscellaneous ODU Units, "Mentoring and Clinical Faculty Training IV." VA Department of Education, 7/1/09-9/30/10, \$3,472.

Butler, Mark J. Biological Sciences, "Restoration of Shallow Sponge Communities in the Florida Keys: Phase I." National Oceanic & Atmospheric Administration, 9/1/09-8/31/11, \$82,318.

Butler, Mark J. Biological Sciences, "A Proposal for Shallow Hard-Bottomed Sponge Community Restoration Research in the Everglades National Park." National Park Service, 7/31/09-5/31/12, \$74,991.

Butler, Mark J. Biological Sciences, "Collaborative Proposal: Connectivity of Disease in Marine Ecosystems: Multi-Scale Dynamics of a Viral Disease Infecting Caribbean Spiny Lobster." National Science Foundation, 9/15/09-8/31/12, \$573,498.

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Carhart, Michael. History, "ACLS Fellowship: the Caucasians: Central Asia in the European Imagination." American Council of Learned Societies, 8/1/09-7/31/10, \$35,000.

Carhart, Michael. History, "Junior Research Fellowship at the Frias School of History: the Caucasians: Central Asia in the European Imagination." American Council of Learned Societies, 10/1/09-9/30/10, \$38,364.

Carpenter, Kent E. Biological Sciences, "Pire: Origins of High Marine Biodiversity in the Indo-Malay-Philippine Archipelago: Transforming a Biodiversity Hotspot into a Research and Education Hotspot." National Science Foundation, 9/1/09-8/31/10, \$519,382.

Carter, Chris. VA Space Grant Consortium, "Geospatial Technician Education through Virginia Community Colleges." National Science Foundation, 5/1/10-4/30/11, \$299,752.

Cetin, Mecit. Civil & Environmental Engineering, "Transportation Alternatives Modeling." Old Dominion University, 12/1/09-11/30/10, \$44,304.

Cetin, Mecit. Civil & Environmental Engineering, "Exploratory Methods for Truck Re-Identification in a Statewide Network Based on Axle Weight and Axle Spacing Data to Enhance Freight Metrics: Phase II." Portland State University, 10/1/09-5/31/11, \$51,803.

Cetin, Mecit. Civil & Environmental Engineering, "Evaluation of Volume-Delay Functions and Their Implementations in VDOT Travel Demand Models." VA Department of Transportation, 10/15/09-4/15/11, \$48,750.

Cetin, Mecit. VMASC, "Evaluation of Volume-Delay Functions and Their Implementations in VDOT Travel Demand Models." VA Department of Transportation, 10/15/09-4/15/11, \$48,750.

Chaganty, N. Rao. Mathematics & Statistics, "Chesapeake Bay Project: Monitoring Data Management." VA Department of Environmental Quality, VA Water Control Board, 1/1/10-6/30/10, \$13,250.

Chen, Jie. Political Science & Geography, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/10, \$41,154.

Clements, Paul T. Nursing, "HRSA Adv Education Nursing YR3." U.S. Department of Health & Human Services, 7/1/09-6/30/10, \$12,949.

Collins, Andrew. VMASC, "Supplemental Travel Funds: Assessment of Various Approaches to Modeling Risks in

2010 BTA-Proj R0806." Battelle National Biodefense, 2/1/10-12/31/10, \$26,400.

Collins, Andrew. VMASC, "Modeling and Simulation Standards Study." Naval Air Systems Command, 9/23/09-9/30/10, \$96,000.

Companion, John A. VA Space Grant Consortium, "Safety Enhanced Surface Exploration Vehicle." NASA Headquarters, 11/20/09-12/31/10, \$13,999.

Congdon, Leslie. Dental Hygiene, "Magnification Loupes in U.S. Entry-Level Dental Hygiene Programs." American Dental Hygiene Association, 7/1/09-6/30/10, \$3,048.

Cooper, Roland A. Biological Sciences, "MRI: Acquisition of Four-Probe Multi-View 4000 AMF, NSOM, and SPM Systems." National Science Foundation, 8/1/09-7/31/12, \$21,728.

Cooper, Roland A. Biological Sciences, "Dual Function Acridones as a New Antimalarial Chemotype." Portland State University, 9/28/09-8/31/10, \$18,750.

Cooper, Roland A. Biological Sciences, "Cellular and Molecular Components of Fitness in Cq-Selected Malaria Parasites." University of Notre Dame, 2/01/10-12/31/10, \$81,888.

Croll, Menion. VMASC, "FISC: JWFC TDG M&S Support Mod 3." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$28,175.

Croll, Menion. VMASC, "FISC: JWFC TDG M&S Support 4.4." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$2,953.

Croll, Menion. VMASC, "FISC: JWFC TDG M&S Support 4.5." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$7,018.

Croll, Menion. VMASC, "FISC: JWFC TDG M&S Support 4.8." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$6,265.

Croll, Menion. VMASC, "FISC: JWFC TDG M&S Support 4.9." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$6,561.

Croll, Menion. VMASC, "FISC: JWFC TDG M&S Support 4.10." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$1,239.

Croll, Menion. VMASC, "FISC: J68 Support Mod 01." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$34,800.

Crum, Karen. Educational Foundations & Leadership, "Teaching and Leading for a Quality Mathematics

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Learning Environment.” State Council of Higher Education for Virginia, 7/1/09-9/30/10, \$51,000.

Crum, Karen. Educational Foundations & Leadership, “The Generational Educators Network Futures Program or Gen ‘F.’” U.S. Department of Education, 10/1/09-9/30/10, \$110,232.

Cutter, Gregory A. Ocean, Earth & Atmospheric Sciences, “A Linked Initiative for Developing Minority Doctoral Scholars in Ocean Sciences.” Hampton University, 3/4/10-4/30/10, \$32,881.

Cutter, Gregory A. Ocean, Earth & Atmospheric Sciences, “Curtis Barnes- Cruise Aboard R/V Meteor.” Leibniz Institute of Marine Sciences, 1/1/10-6/30/10, \$8,592.

Cutter, Gregory A. Ocean, Earth & Atmospheric Sciences, “Collaborative Research: a Linked Initiative for Developing Minority Doctoral Scholars in Ocean Sciences, Phase 2.” National Science Foundation, 10/1/09-9/30/12, \$83,632.

Cutter, Gregory A. Ocean, Earth & Atmospheric Sciences, “Collaborative Research: Management and Logistics Operations for the U.S. Geotraces Zonal North Atlantic Survey Section.” National Science Foundation, 9/1/09-8/31/10, \$71,701.

Cutter, Gregory A. Ocean, Earth & Atmospheric Sciences, “Collaborative Research: Management and Logistics Operations for the U.S. Geotraces Zonal North Atlantic Survey Section.” National Science Foundation, 9/1/10-8/31/11, \$176,731.

Cutter, Gregory A. Ocean, Earth & Atmospheric Sciences, “Geotraces Zonal Atlantic Section: Arsenic and Phosphorus Biogeochemistry.” National Science Foundation, 3/1/10-2/28/13, \$296,231.

Cutter, Gregory A. Ocean, Earth & Atmospheric Sciences, “Selenium Biogeochemistry in Rivers Receiving Direct Fly Ash Inputs.” Oak Ridge Associated Universities, 5/01/10-4/30/11, \$101,965.

Cutter, Gregory A. Ocean, Earth & Atmospheric Sciences, “A New Approach to Quantifying the Release of Bioactive Trace Elements from Coal Combustion Products to Natural Waters.” Oak Ridge Associated Universities, 5/1/10-4/30/11, \$49,990.

Daniels, Charles. Engineering Management, “Development of a Customized Project Managers’ Development Program for the U.S. Army Corps of Engineers-Norfolk District.” Army Corps of Engineers - Norfolk District. 3/16/10-6/30/10, \$6,089.

Darby, Michele M. Dental Hygiene, “Bactericidal Effects of Low Temperature Atmospheric Pressure Plasma Technology on Porphyromonous Gingivalis.”

American Dental Hygiene Association, 7/1/09-6/30/10, \$5,000.

Darby, Michele M. Dental Hygiene, “Magnification Loupes in U.S. Entry-Level Dental Hygiene Programs.” American Dental Hygiene Association, 7/1/09-6/30/10, \$762.

Darby, Michele M. Dental Hygiene, “Adoption Fidelity and Effectiveness of Alcohol SBIRT in Dental Practice.” U.S. Public Health Service, 9/22/09-8/31/11, \$94,946.

Dauer, Daniel M. Biological Sciences, “Chesapeake Bay Monitoring: Benthic Monitoring.” VA Department of Environmental Quality-VA Water Control Board, 1/1/10-6/30/10, \$85,062.

Dauer, Daniel M. Biological Sciences, “Chesapeake Bay Monitoring.” VA Department of Environmental Quality-VA Water Control Board, 1/1/10-6/30/10, \$40,430.

Dauer, Daniel M. Biological Sciences, “Chesapeake Bay Monitoring: Data Analysis Time.” VA Department of Environmental Quality-VA Water Control Board, 1/1/10-6/30/10, \$8,849.

Davis, Sharon R. STEM Education & Professional Studies, “Cotton - Naturally.” Cotton, Inc., 1/1/10-12/31/10, \$16,159.

Davis, Sharon R. STEM Education & Professional Studies, “Virginia Assistive Technical Support 2010.” VA Department of Rehabilitative Services, 10/1/09-9/30/10, \$85,000.

De Leo, Gianluca. Medical Laboratory and Radiation Sciences, “SBIR Phase II: Software to Assess Readiness.” MYMIC, LLC., 2/1/10-4/27/10, \$30,000.

Debruin-Parecki, Andrea. Teaching & Learning, “Preschoolers Up on Readiness, Pre-Reading & Literacy Enrichment (Project Purple).” City of Norfolk, 8/16/09-8/15/12, \$154,579.

Delayen, Jean. Physics, “Post-Doctoral Research Associate Support for 500 MHz, 499 MHz, 400 MHz.” Niowave, Inc., 8/1/09-7/31/11, \$150,000.

Delayen, Jean. Physics, “Development of a Suite of Engineered Multi-Spoke Superconducting Cavities for Nuclear Physics, Light Sources, and Driven Systems Applications.” U.S. Department of Energy, 5/15/10-5/14/13, \$724,000.

Demuren, Ayodeji O. Mechanical Engineering, “Insulin Occlusion Study.” Children’s Hospital of The King’s Daughters, 4/1/10-4/1/11, \$10,000.

Dhali, Shirshak. Electrical & Computer Engineering, “2010 IEEE International Conference on Plasma

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Science-Student Travel Support.” National Science Foundation, 6/1/10-5/31/11, \$5,000.

Diallo, Saikou. VMASC, “Modeling and Simulation Standards Study.” Naval Air Systems Command, 9/23/09-9/30/10, \$96,000.

Diallo, Saikou. VMASC, “FISC: JWFC TDG M&S Support Mod 3.” Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$84,525.

Diallo, Saikou. VMASC, “FISC: JWFC TDG M&S Support 4.4.” Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$8,858.

Diallo, Saikou. VMASC, “FISC: JWFC TDG M&S Support 4.5.” Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$21,053.

Diallo, Saikou. VMASC, “FISC: JWFC TDG M&S Support 4.8.” Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$18,795.

Diallo, Saikou. VMASC, “FISC: JWFC TDG M&S Support 4.9.” Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$19,683.

Diallo, Saikou. VMASC, “FISC: JWFC TDG M&S Support 4.10.” Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$3,717.

Diallo, Saikou. VMASC, “FISC: JWFC TDG FISC: J8 Capability Mod 1.” Navy Fleet Industrial Supply Center, 8/5/09-8/4/10, \$34,800.

Diaz, Rafael. VMASC, “Routing Optimization Phase 1.” City of Hampton, 1/1/10-3/31/10, \$11,970.

Diaz, Rafael. VMASC, “Educating College Students in M&S Engineering: the Reverse Logistic Problem.” Southeastern Virginia Partnership for Regional Transformation, 7/27/09-6/30/10, \$48,375.

Dickerson, Daniel. STEM Education & Professional Studies, “Chesapeake Bay Watershed Education & Training Program: Science Education Advancing Research of the Chesapeake Bay and Its Habitats.” National Oceanic & Atmospheric Administration, 7/1/09-6/30/11, \$44,566.

Dickerson, Daniel. STEM Education & Professional Studies, “Supplement Request for Strategies: Collaborative Research: Marineteck: STEM Preparation through Marine Engineering, Science and Technology Experiences.” National Science Foundation, 10/1/09-12/31/11, \$2,990.

Dickerson, Daniel. STEM Education & Professional Studies, “Collaborative Research - Marine Career Tech: STEM Careers in Shipbuilding and Marine Industry.” National Science Foundation, 10/1/09-9/30/10, \$37,440.

Dickinson, Gail. Teaching & Learning, “Librarianship Upgrades for Children and Youth Services.” Institute of Museum and Library Services, 7/1/09-6/30/12, \$218,181.

Dinniman, Michael. Center for Coastal Physical Oceanography, “Antarctic Sea Ice: Assessing Contributions of Tides and Inertial Responses to Sea - Ice Variability Using Satellite Passive Microwave Remote Sensing and a Coupled Ocean/Sea - Ice Model.” Earth and Space Research, 8/18/09-4/30/10, \$41,356.

Dinniman, Michael. Center for Coastal Physical Oceanography, “Collaborative Research: Weddell Seals as Autonomous Sensors of the Winter Oceanography of the Ross Sea.” National Science Foundation, 7/1/09-6/30/13, \$81,497.

Dinniman, Michael. Center for Coastal Physical Oceanography, “Collaborative Research: Seasonal Evolution of Chemical and Biological Variability in the Ross Sea.” National Science Foundation, 8/15/09-7/31/11, \$65,279.

Dinniman, Michael. Center for Coastal Physical Oceanography, “Processes Controlling Cross Shelf Exchange in the Amundsen/Bellinghausen Seas.” National Science Foundation, 10/1/09-9/30/12, \$279,787.

Dobbs, Frederick C. Ocean, Earth & Atmospheric Sciences, “Collaborative Research-Microscopic Islands: Modeling the Theory of Island Biogeography for Aquatic Pathogens Colonizing Marine Aggregates.” National Science Foundation, 9/1/09-8/31/13, \$849,832.

Dodge, Gail E. Physics, “REU at ODU: Accelerator and Nuclear Physics.” National Science Foundation, 2/1/10-4/30/11, \$16,875.

Doll, Carol. Teaching & Learning, “Librarianship Upgrades for Children and Youth Services.” Institute of Museum and Library Services, 7/1/09-6/30/12, \$224,792.

Donat, John R. Chemistry & Biochemistry, “DEQ: Water Quality Monitoring Component - Data Collection.” VA Department of Environmental Quality-VA Water Control Board, 1/1/10-6/30/10, \$263,737.

Dorrepal, J. Mark. Mathematics & Statistics, “ODU Teacher Immersion Residency.” U.S. Department of Education, 10/1/09-9/30/10, \$4,965.

Dotolo, Lawrence G. VA Tidewater Consortium for Higher Education, “SCHEV College Access Grant.” State Council of Higher Education for Virginia, 9/1/09-8/31/10, \$99,000.

Dotolo, Lawrence G. VA Tidewater Consortium for Higher Education, “U.S. Joint Forces Staff College

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Evaluation Writing Skills.” U.S. Joint Forces Staff College, 8/1/09-6/15/10, \$20,000.

Dotolo, Lawrence G. VA Tidewater Consortium for Higher Education, “Educational Opportunity Centers Program.” U.S. Department of Education, 9/1/09-8/31/10, \$480,170.

Doviak, Suzanne D. Mathematics & Statistics, “Teaching and Leading for a Quality Mathematics Learning Environment.” State Council of Higher Education for Virginia, 7/1/09-9/30/10, \$49,500.

Dudek, Jozef. Physics, “Continuation of Topics in Theoretical Nuclear Physics.” U.S. Department of Energy, 2/15/10-4/14/11, \$28,600.

Eaton, Phyllis. Nursing, “Preventing Unintentional Injuries - Bicycle Safety.” VA Department of Health, 4/1/10-6/15/10, \$649.

Elmustafa, Abdelmageed. Mechanical Engineering, “Continuation of Study of RF Electrodes Characterization Subsequent to Breakdown Using SEM EDX Analysis.” Muons, Inc., 10/3/09-9/30/10, \$25,000.

Elsayed-Ali, Hani E. Applied Research Center, “High-Resolution Transmission Electron Microscopy of Carbon Nanotubes.” American GFM, 10/15/09-10/14/10, \$8,464.

Elsayed-Ali, Hani E. Electrical & Computer Engineering, “Pulsed Laser Deposition of Niobium Nitride Thin Films on Niobium.” Jefferson Science Associates, LLC., Jefferson Lab, 4/1/10-9/30/11, \$24,000.

Elsayed-Ali, Hani E. Electrical & Computer Engineering, “Continuation of JLab Polarimeter Upgrade.” Jefferson Science Associates, LLC., Jefferson Lab, 3/1/10-2/28/11, \$61,097.

Elsayed-Ali, Hani E. Electrical & Computer Engineering, “Scanning Electron Microscopy of Nanofibers.” Lifenet Transplant Services, 12/1/09-7/31/10, \$2,613.

Elsayed-Ali, Hani E. Applied Research Center, “Evaluation and Improvement of Atmospheric Remote Sensing Detection Systems.” NASA-Headquarters, 9/15/09-9/14/10, \$82,949.

Elsayed-Ali, Hani E. Applied Research Center, “High-Resolution Transmission Electron Microscopy Analysis of Nanoparticles.” NASA-Headquarters, 9/30/09-7/31/10, \$5,000.

Elsayed-Ali, Hani E. Applied Research Center, “A Combined Compact Remote Raman, LIDAR Spectroscopy, and Lidar Sensor System Utilizing an Acousto-Optic

Tunable Filter.” National Institute of Aerospace Associates, 7/1/09-5/31/10, \$28,951.

Ezell, Barry. VMASC, “Supplemental Travel Funds: Assessment of Various Approaches to Modeling Risks in 2010 BTA-Proj R0806.” Battelle National Biodefense, 2/1/10-12/31/10, \$27,200.

Ezell, Barry. VMASC, “FISC: JATA Outreach Integration.” Navy Fleet Industrial Supply Center. 5/6/10-5/5/11, \$200,000.

Ezer, Tal. Center for Coastal Physical Oceanography, “Mid-Atlantic Ocean Model Calculations.” Princeton University, 2/1/10-1/31/11, \$47,417.

Finley-Croswhite, Annette. History, “ODU Teacher Immersion Residency.” U.S. Department of Education, 10/1/09-9/30/14, \$41,154.

Fleener, Charlene E. Teaching & Learning, “ODU Teacher Immersion Residency.” U.S. Department of Education, 10/1/09-9/30/14, \$41,154.

Flory, Isaac. Engineering Technology, “Intelligent High Efficiency Street Lighting.” VA Polytechnic Institute & State University, 6/1/10-6/30/12, \$59,088.

Foss, Jennifer J. “Old Dominion University, Student Health Services, Chlamydia Project.” National Chlamydia Coalition, 6/1/10-5/31/11, \$9,633.

Foytik, Peter. VMASC, “Routing Optimization Phase 1.” City of Hampton, 1/1/10-3/31/10, \$11,618.

Foytik, Peter. VMASC, “Transportation Alternatives Modeling.” Old Dominion University, 12/1/09-11/30/10, \$14,768.

Gable, Robert A. Communication Disorders & Special Education, “T/TAC Continuation Proposal,” Old Dominion University, 10/1/09-09/30/11, \$218,495.

Gable, Robert A. Communication Disorders & Special Education, “TTAC/ESD.” Old Dominion University, 10/1/09-9/30/11, \$876,469.

Gable, Robert A. Communication Disorders & Special Education, “Traineeship for Education of Special Education Personnel for Regions 2 & 5.” VA Department of Education, 7/1/09-5/24/10, \$18,431.

Gable, Robert A. Communication Disorders & Special Education, “A Comparative Analysis of Services for Students with Emotional Disturbance.” VA Department of Education, 10/1/09-9/30/10, \$96,195.

Gable, Robert A. Communication Disorders & Special Education, “Special Education Endorsement Programs.” VA Department of Education. 10/1/09-9/25/10, \$30,695.

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Gaff, Holly. Community & Environmental Health and VMASC, “Rift Valley Fever Modeling and Analysis.” Georgetown University Medical Center, 4/1/10-9/30/10, \$39,000.

Gaff, Holly. Community & Environmental Health, “Tick Field Study Year 2.” Old Dominion University, 11/25/09-6/30/10, \$12,500.

Gaff, Holly. Community & Environmental Health and VMASC, “NIH Math Model Ehrlichiosis #4.” U.S. Public Health Service, 6/1/10-5/31/11, \$122,176.

Gargett, Ann E. Ocean, Earth & Atmospheric Sciences, “Collaborative Research: LES & Modeling of Turbulence on Shallow Shelves under Combined Langmuir, Tidal & Convective Forcing with Comparison to VADCP Observations.” National Science Foundation, 9/15/09-8/31/12, \$277,486.

Garzon, Laurel. Nursing, “HRSA Adv Education Nursing YR3.” U.S. Department of Health & Human Services, 7/1/09-6/30/10, \$151,120.

Gauthier, David. Biological Sciences, “Reservoir Hosts of Pathogenic Mycobacteria in Chesapeake Bay.” Coastal Conservation Association, 6/23/10-11/1/10, \$5,100.

Gauthier, David. Biological Sciences, “MRI: Acquisition of Four-Probe Multi-View 4000 AMF, NSOM, and SPM Systems.” National Science Foundation, 8/1/09-7/31/12, \$21,728.

Georgen, Jennifer. Ocean, Earth & Atmospheric Sciences, “Collaborative Research: Planning Grant: I/UCRC for Wind Energy.” National Science Foundation, 8/1/09-7/31/10, \$0.

Gheorghe, Adrian. Engineering Management, “Aviation Safety Data Generation and Analysis Using Serious Gaming Methods.” National Institute of Aerospace Associates, 2/1/10-7/14/10, \$51,580.

Godunov, Alexander. Physics, “Support of Research at Muons, Inc. - Graduate Research Assistant.” Muons, Inc., 8/1/09-7/31/11, \$61,490.

Gonzalez, Oscar R. Electrical & Computer Engineering, “Design Analysis Spider Archite.” NASA-Headquarters, 9/23/09-1/31/12, \$22,790.

Gordon, Andrew S. Biological Sciences, “SBIR Phase II: Novel Low Cost, High Efficiency, Algal Biomass Harvest and Dewatering Technology for Biodiesel Production.” Acent Laboratories, 8/1/09-7/31/11, \$15,277.

Gordon, Andrew S. Biological Sciences, “ODU Office of Research Alternative Energy Program.” Old Dominion University, 7/1/09-6/30/11, \$37,829.

Graves, III, William H. Dean, Education, “ODU Teacher Immersion Residency.” U.S. Department of Education, 10/1/09-9/30/10, \$24,678.

Gray, W. Steven. Electrical & Computer Engineering, “Design Analysis Spider Archite.” NASA-Headquarters, 9/23/-1/31/12, \$22,790.

Greene, Lesley H. Chemistry & Biochemistry, “Renewal of: Elucidating the Key Determinants of Protein Folding and Stability in the Death Domain Superfamily.” Jeffress Research Grants Program, 1/1/10-12/31/10, \$10,000.

Grosch, Chester E. Ocean, Earth & Atmospheric Sciences “Collaborative Research: LES & Modeling of Turbulence on Shallow Shelves under Combined Langmuir, Tidal & Convective Forcing with Comparison to VADCP Observations.” National Science Foundation, 9/15/09-8/31/12, \$277,486.

Hager, Jane. Teaching & Learning, “Traineeship for Education of Special Education Personnel for Regions 2 & 5.” VA Department of Education, 7/1/09-5/10/10, \$18,431.

Hager, Jane. Teaching & Learning, “Special Education Endorsement Programs.” VA Department of Education, 10/1/09-9/25/10, \$30,695.

Hao, Zhili. Mechanical Engineering, MRI: Acquisition of Four-Probe Multi-View 4000 AMF, NSOM, and SPM Systems.” National Science Foundation, 8/1/09-7/31/12, \$86,912.

Hatcher, Patrick. Chemistry & Biochemistry, “SBIR Phase II: Novel Low Cost, High Efficiency, Algal Biomass Harvest and Dewatering Technology for Biodiesel Production.” Acent Laboratories, 8/1/09-7/31/11, \$15,277.

Hatcher, Patrick. Chemistry & Biochemistry, “Revisiting Chemical Mechanisms of Petroleum Generation in Sedimentary Basins: Role of Asphaltenes During Kerogen Cracking.” American Chemical Society, 1/1/10-8/31/12, \$100,000.

Hatcher, Patrick. Chemistry & Biochemistry, “Collaborative Research: Molecular Level Characterization of Organic Matter in Ice Cores Using High-Resolution FTICR Mass Spectrometry.” National Science Foundation, 09/1/09-8/31/11, \$91,301.

Hatcher, Patrick. Chemistry & Biochemistry, “ODU Office of Research Alternative Energy Program.” Old Dominion University, 7/1/09-6/30/11, \$67,829.

Hatcher, Patrick. Chemistry & Biochemistry, “Developing Alternative Energy in Virginia: Bio-Deisel from Algae.” U.S. Department of Energy, 11/23/09-5/22/11, \$713,625.

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Havey, Mark D. Physics, "Atomic Physics Investigations of Light Localization in High Density Ultracold 87Rb Vapor." National Science Foundation, 1/22/10-6/30/10, \$12,000.

He, Jing. Computer Science, "Crest: Center for Research Excellence in Bioinformatics and Computational Biology." New Mexico State University, 1/15/10-7/31/10, \$106,376.

Heller, Richard. Medical Laboratory & Radiation Sciences, "Bioreactor-Electroporation." Intrexon Corporation, 9/1/09-12/31/10, \$238,608.

Heller, Richard. Medical Laboratory & Radiation Sciences, "Transfer of NIH NCI Grant 1r01ca122518-01a2: Therapeutic Potential of IL-15 Plasmid Delivery to Tumors Using Electroporation." U.S. Public Health Service, 3/1/10-2/28/11, \$321,694.

Heller, Richard. Medical Laboratory & Radiation Sciences, "Electroporation System for Cutaneous Gene Transfer." U.S. Public Health Service, 7/1/09-6/30/11, \$459,880.

Heller, Richard. Medical Laboratory & Radiation Sciences, "Electro Gene Transfer for Coronary Artery Disease." U.S. Public Health Service, 8/1/09-7/31/10, \$377,622.

Henson, James M. Psychology, "Secondary Effects of Parent Treatment for Drug Abuse on Children." National Science Foundation, 7/1/09-6/30/10, \$34,325.

Henson, James M. Psychology, "GSE/RES - Collaborative Research: Capitalizing on Opportunity: Narrowing the Gender Divide in Engineering and through Professional Development." National Science Foundation, 1/1/10-12/31/12, \$0.

Hester, Patrick. Engineering Management and VMASC, "Training Aware Common Operational Picture Phase II Technical Assistance." Referentia Systems, Inc., 10/23/09-4/20/11, \$50,000.

Hester, Patrick. Engineering Management, "Sandia National Laboratories Systems Engineering Technical Assistance." Sandia National Laboratories, 7/9/09-9/18/09, \$30,147.

Hester, Peggy. Communication Disorders & Special Education, "Preparation for Leadership Personnel." U.S. Department of Education, 8/16/09-8/15/10, \$360,000.

Hill, Victoria. Ocean, Earth & Atmospheric Sciences, "Blue Crab Bowl 2010." Consortium for Oceanographic Research & Education, 9/30/09-7/31/10, \$7,000.

Hill, Victoria. Ocean, Earth & Atmospheric Sciences, "Remote Assessment of St. Joseph's Bay Seagrass Abundance Bathymetry and Prop Scarring from Quickbird Imagery." Florida Environmental Research Institute, 3/26/10-8/31/10, \$27,500.

Hill, Victoria. Ocean, Earth & Atmospheric Sciences, "Sea Surface Measurements of Ocean Optical Properties in Support of NASA Airborne Lidar Flights over the Chesapeake Bay Region." NASA-Headquarters, 9/15/09-10/31/09, \$38,996.

Hines, Jacqueline F. Student Services, "Student Support Services 2008-2009 Federal Budget." U.S. Department of Education, 9/1/09-8/31/10, \$339,973.

Hinton-Johnson, Kaavonia. Teaching & Learning, "Librarianship Upgrades for Children and Youth Services." Institute of Museum and Library Services, 7/1/09-6/30/12, \$218,181.

Hinton-Johnson, Kaavonia. Teaching & Learning, "Tidewater Writing Project, 2009-2010 Continued Funding Application." National Writing Project, 7/1/10-6/30/11, \$23,000.

Hinton-Johnson, Kaavonia. Teaching & Learning, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/10, \$41,154.

Hofmann, Eileen E. Center for Coastal Physical Oceanography, "Development of a Larval Dispersal Model for the Oyster *Crassostrea virginica* in Pensacola Bay." Florida Fish & Wildlife Conservation Commission, 5/20/10-6/30/11, \$50,000.

Hofmann, Eileen E. Center for Coastal Physical Oceanography, "Chesapeake Bay Watershed Education & Training Program: Science Education Advancing Research of the Chesapeake Bay and Its Habitats." National Oceanic & Atmospheric Administration, 7/1/09-6/30/11, \$22,283.

Hofmann, Eileen E. Center for Coastal Physical Oceanography, "Collaborative Research: Weddell Seals as Autonomous Sensors of the Winter Oceanography of the Ross Sea." National Science Foundation, 7/1/09-6/30/13, \$83,966.

Hofmann, Eileen E. Center for Coastal Physical Oceanography, "Collaborative Research: Seasonal Evolution of Chemical and Biological Variability in the Ross Sea." National Science Foundation, 8/15/09-7/31/11, \$67,257.

Hofmann, Eileen E. Center for Coastal Physical Oceanography, "Collaborative Research: Climate Change and Responses in a Coupled Marine System." National Science Foundation, 10/1/09-9/30/12, \$150,000.

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Hofmann, Eileen E. Center for Coastal Physical Oceanography, "U.S. Eastern Continental Shelf Carbon Cycling: Modeling, Data Assimilation and Analysis." VA Institute of Marine Science. 5/5/10-4/30/11, \$54,015.

Hofmann, Eileen E. Center for Coastal Physical Oceanography, "Cameo: Building the Foundation: an End-to-End Modeling Workshop." Woods Hole Oceanographic Institute. 6/1/09-5/31/11, \$40,921.

Holsinger, John R. Biological Sciences, "Descriptions of New Species of Amphipod Crustaceans in the Genus *Stygobromus* (Crangonyctidae) from Subterranean Groundwater Habitats in Maryland." Maryland Department of Natural Resources, 4/22/10-6/30/10, \$3,000.

Hooks, Walton. Physics, "Southeastern Universities Research Association - Jefferson Lab Support." Jefferson Science Associates, LLC., 9/16/09-9/15/10, \$389,983.

Hooks, Walton. Physics, "Personal Services of Jean Delayen." Jefferson Science Associates, LLC., 1/10/10-7/24/10, \$95,265.

Hooks, Walton. Physics, "SURA 05a1546108 Mod #010." Jefferson Science Associates, LLC., 9/1/09-9/30/10, \$229,687.

Hooks, Walton. Physics, "Southeastern Universities Research Association - Jefferson Lab Support." Jefferson Science Associates, LLC., 9/1/09-9/30/10, \$73,500.

Horth, Lisa. Biological Sciences, "New Reproduction Norm for the Blue Crab: Male and Female Contributions." VA Institute of Marine Science, 2/1/10-7/31/11, \$38,031.

Hou, Gene J. Mechanical Engineering, "Automatic Vessel Detection and Slamming Avoidance." Lockheed/Martin, 7/10/09-12/18/09, \$25,000.

Hou, Gene J. Mechanical Engineering, "The Study of Image Enhancement, Stabilization and Threat Identification and the Slamming Phenomena for the Purpose of Improving Combatant Craft Operational Capabilities." Lockheed/Martin, 2/24/10-12/18/10, \$50,000.

Hynes, Wayne L. Biological Sciences, "IPA for Alan Savitzky - Continuation." National Science Foundation, 9/2/09-2/28/10, \$78,388.

Hynes, Wayne L. Biological Sciences, "IPA for Alan Savitzky - Continuation." National Science Foundation, 3/1/10-8/31/10, \$78,388.

Hynes, Wayne L. Biological Sciences, "Tick Field Study Year 2." Old Dominion University, 11/25/09-6/30/10, \$6,250.

Jeng, H. Anna. Community & Environmental Health, "Polycyclic Aromatic Hydrocarbons and Male Reproductive Health." U.S. Public Health Service, 9/1/09-8/31/11, \$75,000.

Jeng, H. Anna. Community & Environmental Health, "Exposure to Polycyclic Aromatic Hydrocarbons and Male Sperm Quality." U.S. Public Health Service, 6/1/10-5/31/13, \$80,232.

Jones, Cynthia M. Ocean, Earth & Atmospheric Sciences, "Collaborative Research: the Impact of Multiple Nursery Areas and Adult Age Structure on the Population Dynamics of Marine Fishes." National Science Foundation, 6/15/10-5/31/11, \$92,227.

Jones, Cynthia M. Ocean, Earth & Atmospheric Sciences, "Support of Facilities to Provide Finfish Ageing for Virginia Catches and Application of a Variety of Stock Assessment Analyses Including Adapt to Provided Management Advice." VA Marine Resources Commission, 9/1/09-8/31/10, \$283,893.

Jones, Cynthia M. Ocean, Earth & Atmospheric Sciences, "Population Dynamics of Grouper and Tilefish." VA Marine Resources Commission, 5/1/10-4/30/11, \$152,521.

Joshi, Ravindra P. Electrical & Computer Engineering, "Modeling of the ILC and CLIC Polarized Electron Sources." Jefferson Science Associates, LLC., 4/1/09-4/30/09, \$2,042.

Joshi, Ravindra P. Electrical & Computer Engineering, "Csk2sb Photocathode Development." Thomas Jefferson National Accelerator Facility, 9/1/09-8/31/10, \$26,542.

Judge, Sharon. Dean, Education, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/10, \$74,105.

Karlowicz, Karen A. Nursing, "HRSA Adv Education Nursing YR3." U.S. Department of Health & Human Services, 7/1/09-6/30/10, \$65,901.

Katsioloudis, Petros. STEM Education & Professional Studies, "Visualization of Port Logistics: Visport." Opportunity, Inc., 8/1/09-6/30/10, \$39,400.

Katsioloudis, Petros. STEM Education & Professional Studies, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/10, \$41,154.

Katsioloudis, Petros. STEM Education & Professional Studies, "Emerging Transportation Technologies (Et²)." VA Department of Education, 5/1/09-12/31/09, \$8,000.

Keating, Charles B. Engineering Management, "Secure Border Initiative: System of Systems Engineering Capability Development." U.S. Department of Homeland Security, 9/25/09-6/30/10, \$647,500.

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Kelley, Michelle L. Psychology, "Secondary Effects of Parent Treatment for Drug Abuse on Children." National Science Foundation, 7/1/09-6/30/10, \$308,921.

Kelley, Michelle L. Psychology, "Adoption Fidelity and Effectiveness of Alcohol SBIRT in Dental Practice." U.S. Public Health Service, 9/22/09-8/31/11, \$94,946.

Khattak, Asad. Civil & Environmental Engineering, "Transportation Alternatives Modeling." Old Dominion University, 12/1/09-11/30/10, \$44,304.

Khattak, Asad. Civil & Environmental Engineering, "Evaluation of Volume-Delay Functions and Their Implementations in VDOT Travel Demand Models." VA Department of Transportation, 10/15/09-4/15/11, \$48,750.

Khattak, Asad. Civil & Environmental Engineering, "Comparative Analysis of Virginia University National Household Travel Survey." VA Department of Transportation, 5/1/10-6/30/11, \$90,000.

Kidd, Jennifer. Teaching & Learning, "Collaborative Research: Production and Assessment of Student-Authored Wiki Textbooks." National Science Foundation, 2/15/10-1/31/12, \$58,650.

Klinck, John M. Center for Coastal Physical Oceanography, "Antarctic Sea Ice: Assessing Contributions of Tides and Inertial Responses to Sea - Ice Variability Using Satellite Passive Microwave Remote Sensing and a Coupled Ocean/Sea - Ice Model." Earth and Space Research, 8/18/09-4/30/10, \$41,356.

Klinck, John M. Center for Coastal Physical Oceanography, "Chesapeake Bay Watershed Education & Training Program: Science Education Advancing Research of the Chesapeake Bay and Its Habitats." National Oceanic & Atmospheric Administration, 7/1/09-6/30/11, \$22,283.

Klinck, John M. Center for Coastal Physical Oceanography, "Collaborative Research: Weddell Seals as Autonomous Sensors of the Winter Oceanography of the Ross Sea." National Science Foundation, 7/1/09-6/30/13, \$81,497.

Klinck, John M. Center for Coastal Physical Oceanography, "Collaborative Research: Seasonal Evolution of Chemical and Biological Variability in the Ross Sea." National Science Foundation, 8/15/09-7/31/11, \$65,279.

Klinck, John M. Center for Coastal Physical Oceanography, "Collaborative Research: Climate Change and Responses in a Coupled Marine System." National Science Foundation, 10/1/09-9/30/12, \$150,000.

Klinck, John M. Center for Coastal Physical Oceanography, "Processes Controlling Cross Shelf Exchange in the Amundsen/Bellinghausen Seas." National Science Foundation, 10/1/09-9/30/12, \$279,787.

Kolb, Juergen. Center for Bioelectrics, "Cell Death Induction by High Voltage, Nanosecond Duration Electrical Pulses." U.S. Public Health Service, 6/1/10-5/31/11, \$25,560.

Kovacic, Samuel F. Engineering Management, "Complex Adaptive Situations Environment Decision Aid Software." Systems Engineering Solutions, Inc., 4/21/10-4/20/11, \$54,548.

Krafft, Geoffrey. Physics, "Development of a Suite of Engineered Multi-Spoke Superconducting Cavities for Nuclear Physics, Light Sources, and Driven Systems Applications." U.S. Department of Energy, 5/15/10-5/14/13, \$434,400.

Kuhn, Sebastian E. Physics, "Collaborative Research: MRI-Consortium for the Development and Construction of a Longitudinally Polarized Proton and Deuteron Target for Clas12 at Jefferson Lab." National Science Foundation, 4/1/10-3/31/14, \$210,362.

Kuhn, Sebastian E. Physics, "From Quarks to Nuclei - Stimulus Supplement." U.S. Department of Energy, 3/15/10-3/14/11, \$737,000.

Landaeta, Rafael. Engineering Management, "Development of a Customized Project Managers' Development Program for the U.S. Army Corps of Engineers-Norfolk District." Army Corps of Engineers - Norfolk District, 3/16/10-6/30/10, \$30,443.

Laroussi, Mounir. Electrical & Computer Engineering, "Experimental Investigations of the Plasma Bullet and Its Applications." Air Force Office of Scientific Research, 9/30/08-9/29/10, \$78,430.

Laroussi, Mounir. Electrical & Computer Engineering, "2010 IEEE International Conference on Plasma Science-Student Travel Support." National Science Foundation, 6/1/10-5/31/11, \$5,000.

Lawrence, Roland W. Engineering Technology, "Safety Enhanced Surface Exploration Vehicle." NASA-Headquarters, 11/20/09-12/31/10, \$13,999.

Lawrence, Roland W. Engineering Technology, "Development of Differential Absorption Barometric Radar for Medium Altitude Applications." NASA-Langley Research Center, 7/17/09-7/16/11, \$49,006.

Lee, Amy. Nursing, "Technology Skill Development for Effective Nurse Communication." U.S. Department of Health & Human Services, 7/1/09-6/30/12, \$39,714.

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Lee, Guang L. Teaching & Learning, "Tidewater Writing Project, 2009-2010 Continued Funding Application." National Writing Project, 7/1/10-06/30/11, \$23,000.

Li, Jiang. Electrical & Computer Engineering, "Cyberknife Radiation Modeling: Effects of Reduced Parameter Corrections on Healthy Tissue Irradiation." Eastern Virginia Medical School, 9/1/09-2/28/10, \$3,917.

Li, Jiang. Electrical & Computer Engineering, "Cognitive Modeling for Closed-Loop Task Mitigation." Intelligent Automation, Inc., 1/1/10-12/31/11, \$55,990.

Li, Jiang. Electrical & Computer Engineering, "Remote PTSD Monitoring and Diagnosis Using an Automated System." Intelligent Automation, Inc., 6/30/10-12/2/10, \$9,999.

Liu, Yuping. Business Administration, "Understanding the Viral Diffusion of Brand Messages." Online Empower Media, 2/21/10-3/21/11, \$5,000.

Lucking, Robert A. "Teaching & Learning, "Mentoring and Clinical Faculty Training IV." VA Department of Education, 7/1/09-9/30/10, \$27,773.

Luo, Li-Shi. Mathematics & Statistics, "Supporting U.S. Participation in Sixth ICMES." Air Force Office of Scientific Research, 9/1/09-2/14/10, \$15,000.

Machado, Tiffany. STEM Education & Professional Studies, "Cotton -Naturally." Cotton, Inc., 1/1/10-12/31/10, \$16,159.

Madhavan, Poornima. Psychology, "Optimization of Passenger Flow in Virginia's International and Regional Airports." Virginia Academy of Science, 8/1/09-7/31/10, \$1,200.

Major, Debra A. Psychology, "GSE/RES- Collaborative Research: Capitalizing on Opportunity: Narrowing the Gender Divide in Engineering and through Professional Development." National Science Foundation, 1/1/10-12/31/12, \$225,637.

Maly, Kurt J. Computer Science, "Phase V of Automated Metadata Extraction for DTIC Documents." Defense Technical Information Center, 7/1/09-06/30/10, \$28,798.

Maly, Kurt J. Computer Science, "ODU Java Swing Support." Simis, Inc., 8/1/09-12/31/10, \$3,299.

Mao, Jingdong. Chemistry & Biochemistry, "Influence of Tillage, Crop Residue, and Nitrogen Managements on the Molecular Structures of Soil Organic Matter and Organic Nitrogen Forms Investigated by Advanced Solid-State Nuclear Magnetic Resonance

Spectroscopy." Jeffress Research Grants Program, 7/1/10-6/30/11, \$10,000.

Mao, Jingdong. Chemistry & Biochemistry, "Collaborative Research: Advanced Solid-State NMR Characterization of Non-Covalent Interactions of Organic Compounds in Soil and Sediment Organic Matter." National Science Foundation, 7/15/09-6/30/12, \$225,000.

Marshall, Harold G. Biological Sciences, "SBIR Phase II: Novel Low Cost, High Efficiency, Algal Biomass Harvest and Dewatering Technology for Biodiesel Production." Acent Laboratories, 8/1/09-7/31/11, \$15,277.

Marshall, Harold G. Biological Sciences, "ODU Office of Research Alternative Energy Program." Old Dominion University, 7/1/09-6/30/11, \$67,829.

Marshall, Harold G. Biological Sciences, "Preadd. VDEQ Phytoplankton M#1." VA Department of Environmental Quality-VA Water Control Board, 1/1/10-6/30/10, \$59,155.

Marshall, Harold G. Biological Sciences, "Detection and Study of Harmful Algae, Including Pfiesteria." VA Department of Health, 10/1/09-9/30/10, \$36,869.

Mathews, Terri M. Dean, Sciences, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/10, \$4,965.

Mazzer, Paula. Chemistry & Biochemistry, "A Metabolic of the Cytotoxic Effects of Diesel Exhaust Particles." Jeffress Research Grants Program, 1/1/10-12/31/10, \$10,000.

McCombs, Gayle B. Dental Hygiene, "A Study to Evaluate the Plaque Reduction of a Power Brush Compared to an ADA Reference Manual Toothbrush Using DPIA." Procter & Gamble, 3/22/10-8/31/10, \$50,193.

McConaughy, John R. Ocean, Earth & Atmospheric Sciences, "New Reproduction Norm for the Blue Crab: Male and Female Contributions." VA Institute of Marine Science, 2/1/10-7/31/11, \$46,483.

McKenzie, Frederic D. Electrical & Computer Engineering, "Cyberknife Radiation Modeling: Effects of Reduced Parameter Corrections on Healthy Tissue Irradiation." Eastern Virginia Medical School, 9/1/09-2/28/10, \$5,875.

McKenzie, Frederic D. Electrical & Computer Engineering, "Cognitive Modeling for Closed-Loop Task Mitigation." Intelligent Automation, Inc., 1/1/10-12/31/11, \$23,996.

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McKenzie, Frederic D. Electrical & Computer Engineering, "Administrative Supplement for 1r15dc009690-01: Communication Outcomes for Naming Treatment in Aphasia." U.S. Public Health Service, 7/17/09-6/30/11, \$17,294.

McKinney, Sueanne E. STEM Education & Professional Studies, "Supplement Request for: Strategies: Collaborative Research: Marinetechn: STEM Preparation through Marine Engineering, Science and Technology Experiences." National Science Foundation, 10/1/09-12/31/11, \$8,971.

McKinney, Sueanne E. STEM Education & Professional Studies, "Collaborative Research - Marine Career Tech: STEM Careers in Shipbuilding and Marine Industry." National Science Foundation, 10/1/09-9/30/10, \$37,440.

McKinney, Sueanne E. STEM Education & Professional Studies, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/10, \$41,154.

Milliken, Tammi F. Counseling & Human Services. "Care Now." City of Norfolk, 10/1/09-8/1/10, \$59,220.

Mopper, Kenneth. Chemistry & Biochemistry, "Collaborative Research: Comprehensive Chemical Characterization of Marine Dissolved Organic Matter Using Efficient Isolation Coupled to Advanced Analytical Techniques." National Science Foundation, 6/22/10-8/31/11, \$2,500.

Mopper, Kenneth. Chemistry & Biochemistry, "Development of a High-Precision TOC/DOC Analyzer with a Nm Detection Limit." National Science Foundation, 10/15/09-9/30/11, \$197,375.

Morrison, Steve. Physical Therapy, "Development, Assessment and Validation of Physical Training Regimens." Office of Naval Research, 1/1/10-12/31/10, \$21,200.

Moustafa, Moustafa R. Engineering Technology, "Safety Enhanced Surface Exploration Vehicle." NASA-Headquarters, 11/20/09-12/31/10, \$13,999.

Mulholland, Margaret R. Ocean, Earth & Atmospheric Sciences, "FWC: ECOHAB Karenia Nutrient." Florida Fish & Wildlife Conservation Commission, 9/1/09-8/31/10, \$101,232.

Mulholland, Margaret R. Ocean, Earth & Atmospheric Sciences, "Bioavailability of Effluent Organic Nitrogen in Virginia Coastal Waters." VA Institute of Marine Science, 2/1/10-1/31/11, \$25,473.

Myran, Steve. Educational Foundations & Leadership, "Teaching and Leading for a Quality Mathematics Learning Environment." State Council of Higher Education for Virginia, 7/1/09-9/30/10, \$49,500.

Myran, Steve. Educational Foundations & Leadership, "The Generational Educators Network Futures Program or Gen "F"." U.S. Department of Education, 10/1/09-9/30/10, \$36,744.

Naik, Dayanand N. Mathematics & Statistics, "Development, Assessment and Validation of Physical Training Regimens." Office of Naval Research, 1/1/10-12/31/10, \$21,200.

Namkoong, Gon. Electrical & Computer Engineering, "Green LEDS on Non-Polar ZNO." Cermet, Inc., 9/1/09-5/31/10, \$35,000.

Neff, James A. Community & Environmental Health, "Adoption Fidelity and Effectiveness of Alcohol SBIRT in Dental Practice." U.S. Public Health Service, 9/22/09-8/31/11, \$189,892.

Nelson, Michael L. "Integrating the Past Web into the Current Web." Library of Congress, 5/15/10-5/15/12, \$450,000.

Nguyen, Duc T. Civil & Environmental Engineering, "Holistic Numerical Methods: Unabridged." University of South Florida, 12/31/09-12/31/11, \$17,506.

Noffke, Nora. Ocean, Earth & Atmospheric Sciences, "Collaborative Research: Eager: a Novel Approach to Study Earth's Oldest Environments and Biosphere: Tidal, Shelf, and Deep Ocean Habitats in the >3.7 Ga Isua Greenstone Belt, Greenland." National Science Foundation, 6/15/10-5/31/11, \$58,026.

Nunnery, John A. Education, "An Exploratory Examination of the Relationship between National Institute for School Leadership Program Completion Status and Student Achievement in Pennsylvania Schools." National Institute for School Leadership, 1/25/10-12/31/10, \$47,091.

Nunnery, John A. Education, "The Academy of Music: Parkview Strings Program Evaluation." The Academy of Music, 1/1/10-9/30/10, \$1,556.

Onate, James. Human Movement Sciences, "Development, Assessment and Validation of Physical Training Regimens." Office of Naval Research, 1/1/10-12/31/10, \$10,600.

Orvis, Karen. Psychology, "GSE/RES - Collaborative Research: Capitalizing on Opportunity: Narrowing the Gender Divide in Engineering and through Professional Development." National Science Foundation, 1/1/10-12/31/12, \$225,637.

Osgood, Christopher J. Biological Sciences, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/14, \$4,965.

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Osgood, Christopher J. Biological Sciences, "Nanoassay for ABC Transporter 5." U.S. Public Health Service, 5/1/10-4/30/11, \$47,840.

Overbaugh, Richard C. Teaching & Learning, "An Evaluation Proposal for the Enhancing Education through Technology Program in the No Child Left Behind Grant (2009-2010) Four Rivers Technology in Education Consortium." Caroline County Public Schools, 7/1/09-6/30/10, \$26,892.

Pakhomov, Andrei. Center for Bioelectronics, "Directed Energy Bioeffects Program." General Dynamics, 9/11/09-11/23/09, \$26,956.

Pakhomov, Andrei. Center for Bioelectronics, "Directed Energy Bioeffects Program." General Dynamics, 9/11/09-2/1/10, \$19,985.

Pakhomov, Andrei. Center for Bioelectronics, "Cell Death Induction by High Voltage, Nanosecond Duration Electrical Pulses." U.S. Public Health Service, 6/1/10-5/31/11, \$204,483.

Pakhomova, Olga N. Center for Bioelectronics, "Directed Energy Bioeffects Program." General Dynamics, 9/11/09-11/23/09, \$17,970.

Palmer, Kay L. Nursing, "Technology Skill Development for Effective Nurse Communication." U.S. Department of Health & Human Services, 7/1/09-6/30/12, \$66,190.

Papelis, Yiannis. VMASC, "Rift Valley Fever Modeling and Analysis." Georgetown University Medical Center, 4/1/10-9/30/10, \$39,000.

Papelis, Yiannis. VMASC, "FISC: J8 Support Mod 1." Navy Fleet Industrial Supply Center, 8/5/09-8/4/10, \$34,800.

Papelis, Yiannis. VMASC, "Visualization of Port Logistics: Visport." Opportunity, Inc., 8/1/09-6/30/10, \$29,400.

Parsons, Vickie. Engineering Management, "Development of a Customized Project Managers' Development Program for the US Army Corps of Engineers-Norfolk District." U.S. Army Corps of Engineers - Norfolk District, 3/16/10-6/30/10, \$6,089.

Pazos, Pilar. Engineering Management, "Development of a Customized Project Managers' Development Program for the U.S. Army Corps of Engineers-Norfolk District." U.S. Army Corps of Engineers - Norfolk District, 3/16/10-6/30/10, \$6,089.

Pearson, Michael. English, "2009 ODU Litfest." City of Norfolk, 9/1/09-8/31/10, \$2,000.

Peery, Janet. English, "2009 ODU Litfest." City of Norfolk, 9/1/09-8/31/10, \$2,000.

Porter, Bryan E. Psychology, "Virginia Occupant Protection Survey 2010." VA Department of Motor Vehicles, 4/15/10-8/31/10, \$70,287.

Porter, Bryan E. Psychology, "State 28+: Next Steps for Occupant Protection Program Evaluation." VA Department of Motor Vehicles, 10/1/09-9/30/10, \$197,231.

Qian, Shizhi. Aerospace Engineering, "MRI: Acquisition of Four-Probe Multi-View 4000 AMF, NSOM, and SPM Systems." National Science Foundation, 8/1/09-7/31/12, \$93,120.

Rabadi, Ghaith. Engineering Management, "Development of a Customized Project Managers' Development Program for the U.S. Army Corps of Engineers-Norfolk District." U.S. Army Corps of Engineers - Norfolk District, 3/16/10-6/30/10, \$6,089.

Rabadi, Ghaith. Engineering Management, "Database Development for Stihl's Guide Bar Facility." Stihl, Inc., 10/12/09-12/12/09, \$6,900.

Radyushkin, Anatoly V. Physics, "Continuation of Topics in Theoretical Nuclear Physics." U.S. Department of Energy, 2/15/10-4/14/11, \$28,600.

Ranjan, Desh. Computer Science, "Crest: Center for Research Excellence in Bioinformatics and Computational Biology." New Mexico State University, 1/15/10-7/31/10, \$106,376.

Raspiller, Ted. Educational Foundations & Leadership, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/10, \$41,154.

Raymer, Anastasia M. Communication Disorders & Special Education, "An Internet Based Rehabilitation Program for Warriors with Hearing Loss and Auditory Processing Disorders Secondary to Blast and Traumatic Brain Injuries." Advanced Anti-Terror Technologies Corporation, 9/15/09-10/14/11, \$67,500.

Raymer, Anastasia M. Communication Disorders & Special Education, "Administrative Supplement for 1r15dc009690-01: Communication Outcomes for Naming Treatment in Aphasia." U.S. Public Health Service, 7/17/09-6/30/11, \$17,294.

Reed, Billie M. Virginia Commercial Space Flight Authority, "Orbital-Demo Launch." Orbital Science Corporation, 6/1/09-6/30/11, \$470,129.

Reed, Billie M. Virginia Commercial Space Flight Authority, "Orbital Rs:H to#004 Co#01." Orbital Science Corporation, 3/24/10-6/30/10, \$65,767.

Reed, Billie M. Virginia Commercial Space Flight Authority, "Orbital Sci Tel Launch Equip#1." Virginia Environmental Endowment, 5/21/10-4/29/11, \$7,506,177.

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Reed, Billie M. Virginia Commercial Space Flight Authority, "VCSI Casas Bridge Funding." Von Braun for Science & Innovation, Inc., 10/29/09-12/16/09, \$30,346.

Reed, Philip A. STEM Education & Professional Studies, "Visualization of Port Logistics: Visport." Opportunity, Inc. 8/1/09-6/30/10, \$19,400.

Reed, Philip A. Stem Education & Professional Studies, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/10, \$41,154.

Remley, Jr., Theodore P. Counseling & Human Services, "Community-Based Counseling in Partnership with the Norfolk Community Service Board." Norfolk Community Services Board, 7/1/09-6/30/10, \$30,043.

Ren, Zhontang. Dean, Education, "Foundations of Freedom Extension Grant for 2009-2010." Newport News Public Schools, 7/1/09-6/30/10, \$11,500.

Ringleb, Stacie I. Mechanical Engineering, "An Internet Based Rehabilitation Program for Warriors with Hearing Loss and Auditory Processing Disorders Secondary to Blast and Traumatic Brain Injuries." Advanced Anti-Terror Technologies Corporation, 9/15/09-10/14/11, \$135,000.

Ringleb, Stacie I. Mechanical Engineering and VMASC, "Development, Assessment and Validation of Physical Training Regimens." Office of Naval Research, 1/1/10-12/31/10, \$84,800.

Robertson, Jerry B. Virginia Applied Technology & Professional Development Center, "A.L. Philpott Manufacturing Extension Partnership." Genedge Alliance, 7/1/09-6/30/10, \$150,000.

Robertson, Jerry B. Virginia Applied Technology & Professional Development Center, "Veterans Business Outreach Center." Small Business Administration, 4/20/10-4/19/11, \$150,000.

Robinson, Jack. Educational Foundations & Leadership, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/10, \$41,154.

Robinson, R. Mike. VMASC, "Transportation Alternatives Modeling." Old Dominion University, 12/1/09-11/30/10, \$44,304.

Robinson, R. Mike. VMASC, "Evaluation of Volume-Delay Functions and their Implementations in VDOT Travel Demand Models." VA Department of Transportation, 10/15/09-4/15/11, \$48,750.

Rothe, Dawn L. Sociology & Criminal Justice, "The Catalysts that Facilitate and Impede the Implementation of Post-Conflict Modalities of Justice." U.S. Institute of Peace, 5/1/10-12/31/11, \$80,000.

Russell, Sara E. Business Administration, "Visualization of Port Logistics: Visport." Opportunity, Inc., 8/1/09-6/30/10, \$4,400.

Rutledge, Carolyn. Nursing, "HRSA Adv Education Nursing YR3." U.S. Department of Health & Human Services, 7/1/09-6/30/10, \$116,541.

Sandy, Mary L. Virginia Space Grant Consortium, "FAA Design Competition for Universities." Federal Aviation Administration, 8/14/09-9/30/10, \$250,000.

Sandy, Mary L. Virginia Space Grant Consortium, "Gear Up." Hampton Public Schools, 9/1/09-8/31/10, \$83,286.

Sandy, Mary L. Virginia Space Grant Consortium, "ESMD Internship Program." NASA-Goddard Spaceflight Center, 8/15/09-3/31/10, \$11,000.

Sandy, Mary L. Virginia Space Grant Consortium, "Safety Enhanced Surface Exploration Vehicle." NASA-Headquarters, 11/20/09-12/31/10, \$13,999.

Sandy, Mary L. Virginia Space Grant Consortium, "Global Climate Change Education." NASA-Langley Research Center, 8/25/09-5/06/14, \$1,761,311.

Sandy, Mary L. Virginia Space Grant Consortium, "LARRS FY10 Admin Support." National Institute of Aerospace Associates, 11/1/09-10/31/10, \$57,000.

Sandy, Mary L. Virginia Space Grant Consortium, "Virginia Aerospace Science and Technology Scholars." State Council of Higher Education for Virginia, 7/1/09-6/30/10, \$75,000.

Schaffler, Jason. Ocean, Earth & Atmospheric Sciences, "Collaborative Research: the Impact of Multiple Nursery Areas and Adult Age Structure on the Population Dynamics of Marine Fishes." National Science Foundation, 6/15/10-5/31/11, \$92,227.

Schafran, Gary C. Civil & Environmental Engineering, "SBIR Phase II: Novel Low Cost, High Efficiency, Algal Biomass Harvest and Dewatering Technology for Biodiesel Production." Acent Laboratories, 8/1/09-7/31/11, \$15,277.

Schafran, Gary C. Civil & Environmental Engineering, "ODU Office of Research Alternative Energy Program." Old Dominion University, 7/1/09-6/30/11, \$67,829.

Schiavilla, Rocco. Physics, "Continuation of Topics in Theoretical Nuclear Physics." U.S. Department of Energy, 2/15/10-4/14/11, \$28,600.

Schoenbach, Karl H. Center for Bioelectronics, "Near-Field Propagation of Sub-Nanosecond Electric Pulses into Amorphous Masses." Air Force Office of Scientific Research, 10/1/09-9/30/10, \$100,001.

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Schoenbach, Karl H. Center for Bioelectronics, "Cell Death Induction by High Voltage, Nanosecond Duration Electrical Pulses." U.S. Public Health Service, 6/1/10-5/31/11, \$25,560.

Scully, Malcolm. Center for Coastal Physical Oceanography, "Career: Physical Modulation of Dissolved Oxygen in Chesapeake Bay." National Science Foundation, 5/1/10-4/30/11, \$321,879.

Sedwick, Peter. Ocean, Earth & Atmospheric Sciences, "U.S. Geotraces North Atlantic Section: Dissolved Iron and Iron (II)." National Science Foundation, 3/1/10-2/28/13, \$350,000.

Sedwick, Peter. Ocean, Earth & Atmospheric Sciences, "A New Approach to Quantifying the Release of Bioactive Trace Elements from Coal Combustion Products to Natural Waters." Oak Ridge Associated Universities, 5/1/10-4/30/11, \$49,990.

Sever, Joseph C. Communication Disorders & Special Education, "An Internet Based Rehabilitation Program for Warriors with Hearing Loss and Auditory Processing Disorders Secondary to Blast and Traumatic Brain Injuries." Advanced Anti-Terror Technologies Corporation, 9/15/09-10/14/11, \$27,000.

Sherfey, Solomon. VMASC, "Modeling and Simulation Standards Study." Naval Air Systems Command, 9/23/09-9/30/10, \$128,000.

Sherfey, Solomon. VMASC, "FISC: JWFC TDG M&S Support Mod 3." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$28,175.

Sherfey, Solomon. VMASC, "FISC: JWFC TDG M&S Support 4.4." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$2,953.

Sherfey, Solomon. VMASC, "FISC: JWFC TDG M&S Support 4.5." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$7,018.

Sherfey, Solomon. VMASC, "FISC: JWFC TDG M&S Support 4.8." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$6,265.

Sherfey, Solomon. VMASC, "FISC: JWFC TDG M&S Support 4.9." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$6,561.

Sherfey, Solomon. VMASC, "FISC: JWFC TDG M&S Support 4.10." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$1,239.

Sherfey, Solomon. VMASC, "FISC: JSIC Support Services Mod 3." Navy Fleet Industrial Supply Center, 8/5/09-8/4/10, \$34,800.

Skouzes, Fotios. Mid-Atlantic Institute for Space & Technology, "Worcester County Summer 2008

Interns." Worcester County, MD, 4/20/10-10/30/10, \$4,229.

Sokolowski, John. VMASC, "Renewal of IPA for Erik Syvrud." Army Research Office, 10/1/09-9/30/11, \$412,115.

Sokolowski, John. VMASC, "Continuation of: Support to the Joint Transformation Command - Intelligence, Norfolk, VA Integration Division." General Dynamics, 7/1/09-7/31/09, \$21,384.

Sokolowski, John. VMASC, "Continuation of: Support to the Joint Transformation Command - Intelligence, Norfolk, VA Integration Division." General Dynamics, 8/1/09-12/31/09, \$128,804.

Sokolowski, John. VMASC, "Continuation of: Support to the Joint Transformation Command - Intelligence, Norfolk, VA Integration Division." General Dynamics, 2/1/10-6/30/10, \$112,543.

Sokolowski, John. VMASC, "Modeling and Simulation Standards Study." Naval Air Systems Command, 9/23/09-9/30/10, \$160,000.

Sokolowski, John. VMASC, "NSWCDD IPA Stiegler, Robert." Naval Surface Weapons Center, 3/1/10-11/11/10, \$12,885.

Sokolowski, John. VMASC, "Joint/Multi-Service Concepts and Operations Analysis, Research, and Support." Naval Surface Weapons Center, 7/16/09-7/15/10, \$1,024,000.

Sokolowski, John. VMASC, "IPA for Thomas Lang." Navy Fleet Industrial Supply Center, 9/1/09-10/16/09, \$6,185.

Sokolowski, John. VMASC, "Additional Funding for J7/JWFC Support." Navy Fleet Industrial Supply Center, 3/10/10-2/4/11, \$25,000.

Sokolowski, John. VMASC, "N00189-08-D-Z020 Vision Statement." Navy Fleet Industrial Supply Center, 9/18/09-11/17/09, \$73,109.

Sokolowski, John. VMASC, "FISC: J7/JWFC." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$345,000.

Sokolowski, John. VMASC, "FISC: JWFC TDG M&S Support Mod 3." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$281,750.

Sokolowski, John. VMASC, "FISC: JWFC TDG M&S Support 4.4." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$29,525.

Sokolowski, John. VMASC, "FISC: JWFC TDG M&S Support 4.5." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$70,177.

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Sokolowski, John. VMASC, "FISC: JWFC TDG M&S Support 4.8." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$62,649.

Sokolowski, John. VMASC, "FISC: JWFC TDG M&S Support 4.9." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$65,611.

Sokolowski, John. VMASC, "FISC: JWFC TDG M&S Support 4.10." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$12,390.

Sokolowski, John. VMASC, "FISC: J68 Support Mod 2." Navy Fleet Industrial Supply Center, 8/12/09-9/30/09, \$53,025.

Sokolowski, John. VMASC, "FISC: JU00 Support Mod 1." Navy Fleet Industrial Supply Center, 8/19/09-10/13/09, \$6,757.

Sokolowski, John. VMASC, "FISC: NCSUE Support." Navy Fleet Industrial Supply Center, 8/5/09-8/4/10, \$34,800.

Sokolowski, John. VMASC, "FISC: JSIC Support Services Mod 3." Navy Fleet Industrial Supply Center, 10/1/09-9/30/10, \$300,000.

Sokolowski, John. VMASC, "FISC: J68 Support Mod 1." Navy Fleet Industrial Supply Center, 10/1/09-9/30/10, \$170,176.

Sokolowski, John. VMASC, "FISC: J8 Support Mod 1." Navy Fleet Industrial Supply Center, 10/1/09-9/30/10, \$1,391,387.

Sokolowski, John. VMASC, "FISC: J684 R&D Support Mod 1." Navy Fleet Industrial Supply Center, 10/1/09-9/30/10, \$361,575.

Sokolowski, John. VMASC, "FISC: JFCOM Lecture Series 5." Navy Fleet Industrial Supply Center, 11/12/09-9/30/10, \$88,300.

Sokolowski, John. VMASC, "Systems Dynamics Course for NATO." 11/1/09-11/30/09, \$3,000.

Sokolowski, John. VMASC, "IPA for Michael Olmstead." Office of the Secretary of Defense, 6/21/09-6/20/10, \$0.

Sokolowski, John. VMASC, "Modeling and Simulation Business Incubation and Acceleration." Opportunity, Inc., 9/17/09-6/30/10, \$66,550.

Sokolowski, John. VMASC, "IPA Renewal of Richard Allan Burklund." U.S. Joint Forces Command, 9/1/09-9/30/09, \$12,871.

Sokolowski, John. VMASC, "IPA for Charles G. Hart." U.S. Joint Forces Command, 9/1/09-5/14/10, \$13,600.

Sokolowski, John. VMASC, "IPA for David Brian O'Neill." U.S. Joint Forces Command, 11/1/08-10/31/11, \$164,596.

Sonenshine, Daniel E. Biological Sciences, "Tick Field Study Year 2." Old Dominion University, 11/25/09-6/30/10, \$6,250.

Sousa-Poza, Andres A. Engineering Management, "Complex Adaptive Situations Environment Decision Aid Software." Systems Engineering Solutions, Inc., 4/21/10-4/20/11, \$54,548.

Sousa-Poza, Andres A. Engineering Management, "Secure Border Initiative: System of Systems Engineering Capability Development." U.S. Department of Homeland Security, 9/25/09-6/30/10, \$277,500.

Starling, Carroll. Teaching & Learning, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/14, \$41,152.

Stubbins, Aron. Chemistry & Biochemistry, "SBIR Phase II: Novel Low Cost, High Efficiency, Algal Biomass Harvest and Dewatering Technology for Biodiesel Production." Acent Laboratories, 8/1/09-7/31/11, \$15,277.

Stubbins, Aron. Chemistry & Biochemistry, Collaborative Research: Comprehensive Chemical Characterization of Marine Dissolved Organic Matter Using Efficient Isolation Coupled to Advanced Analytical Techniques." National Science Foundation, 6/22/10-8/31/11, \$2,500.

Stubbins, Aron. Chemistry & Biochemistry, Development of a High-Precision TOC/DOC Analyzer with a Nm Detection Limit." National Science Foundation, 10/15/09-9/30/11, \$197,375.

Sukenik, Charles I. Physics, "Production of Ultracold Weakly Bound Polar Molecules and Trapping of Ground State Noble Gases." National Science Foundation, 8/1/09-7/31/12, \$200,000.

Sukenik, Charles I. Ocean, Earth & Atmospheric Sciences, "Sea Surface Measurements of Ocean Optical Properties in Support of NASA Airborne Lidar Flights over the Chesapeake Bay Region." Science Systems & Applications, Inc., 3/16/10-10/31/10, \$29,040.

Swain, David P. Human Movement Sciences, "Development, Assessment and Validation of Physical Training Regimens." Office of Naval Research, 1/1/10-12/31/10, \$74,200.

Swanson, R. James. Biological Sciences, "Mitochondria and Oocyte Failure: Seed Grant for Future Funding." Eastern Virginia Medical School, 11/1/09-10/31/10, \$117,104.

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Talley, Wayne K. Economics, "Educating College Students in M&S Engineering: the Reverse Logistic Problem." Southeastern Virginia Partnership for Regional Transformation, 7/27/09-6/30/10, \$16,125.

Thompson, Suzan K. Counseling & Human Services, "Community-Based Counseling in Partnership with the Norfolk Community Services Board." Norfolk Community Services Board, 7/1/09-6/30/10, \$30,043.

Tolk, Andreas. Engineering Management, "Modeling and Simulation Standards Study." Naval Air Systems Command, 9/23/09-9/30/10, \$160,000.

Tolk, Andreas. Engineering Management, "FISC: JWFC TDG M&S Support Mod 3." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$140,875.

Tolk, Andreas. Engineering Management, "FISC: JWFC TDG M&S Support 4.4." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$14,763.

Tolk, Andreas. Engineering Management, "FISC: JWFC TDG M&S Support 4.5." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$35,088.

Tolk, Andreas. Engineering Management, "FISC: JWFC TDG M&S Support 4.8." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$31,324.

Tolk, Andreas. Engineering Management, "FISC: JWFC TDG M&S Support 4.9." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$32,805.

Tolk, Andreas. Engineering Management, "FISC: JWFC TDG M&S Support 4.10." Navy Fleet Industrial Supply Center, 2/5/10-2/4/11, \$6,195.

Tolk, Andreas. Engineering Management, "FISC: NCSUE Support." Navy Fleet Industrial Supply Center, 8/5/09-8/4/10, \$58,000.

Tolk, Andreas. Engineering Management, "Training Aware Common Operational Picture Phase II Technical Assistance." Referentia Systems, Inc., 10/23/09-4/20/11, \$50,000.

Tomovic, Mileta M. Engineering Technology, "Safety Enhanced Surface Exploration Vehicle." NASA-Headquarters, 11/20/09-12/31/10, \$13,999.

Tonelson, Stephen W. Communication Disorders & Special Education, "Continuation of Visual Impairment Consortium." George Mason University, 10/1/09-9/30/10, \$10,498.

Tonelson, Stephen W. Communication Disorders & Special Education, "T/TAC Continuation Proposal." Old Dominion University, 10/1/09-9/30/11, \$218,495.

Tonelson, Stephen W. Communication Disorders & Special Education, "TTAC/ESD." Old Dominion University, 10/1/09-9/30/11, \$876,469.

Tonelson, Stephen W. Communication Disorders & Special Education, "Traineeship for Education of Special Education Personnel for Regions 2 & 5." VA Department of Education, 7/1/09-5/10/10, \$92,154.

Tonelson, Stephen W. Communication Disorders & Special Education, "Special Education Endorsement Programs." VA Department of Education, 10/1/09-9/25/10, \$153,474.

Tonelson, Stephen W. Communication Disorders & Special Education, "Mentoring and Clinical Faculty Training IV." VA Department of Education, 7/1/09-9/30/10, \$3,472.

Tuleya, Robert. Center for Coastal Physical Oceanography, "Hurricane Model Transitions to Operations at NCEP/EMC." National Oceanic & Atmospheric Administration, 3/1/10-2/28/11, \$100,540.

Tweed, John J. Mathematics & Statistics, "Computational Models for Space Radiation Shielding Studies." NASA-Langley Research Center, 8/16/09-8/15/12, \$473,000.

Vahala, Linda L. Dean, Engineering & Technology, "Mesoscopic Detailed Balance Algorithms for Quantum and Classical Turbulence." College of William and Mary, 8/1/09-5/31/10, \$43,598.

Vahala, Linda L. Dean, Engineering & Technology, "GSE/RES - Collaborative Research: Capitalizing on Opportunity: Narrowing the Gender Divide in Engineering and through Professional Development." National Science Foundation, 1/1/10-12/31/12, \$0.

Vahala, Linda L. Dean, Engineering & Technology, "Topics in Plasma Physics." U.S. Department of Energy, 6/1/10-5/31/11, \$10,000.

Vahala, Linda L. Dean, Engineering & Technology, "EBW Physics of ECE in NSTX." U.S. Department of Energy, 4/1/10-3/31/11, \$70,001.

Van Lunen, Bonnie. Human Movement Sciences, "Objective Assessment Instrumentation for Manual Therapy Techniques." Novel Electronics, Inc., 3/1/09-9/30/09, \$14,655.

Van Orden, J. Wallace. Physics, "Continuation of Topics in Theoretical Nuclear Physics." U.S. Department of Energy, 2/15/10-4/14/11, \$28,600.

Vandecar-Burdin, Tancy. Social Science Research Center, "Virginia Beach Growsmart." City of Virginia Beach, 5/1/10-12/31/10, \$1,000.

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Vandecar-Burdin, Tancy. Social Science Research Center, "Adoption Fidelity and Effectiveness of Alcohol SBIRT in Dental Practice." U.S. Public Health Service, 9/22/09-8/31/11, \$94,946.

Verma, Alok K. Engineering Technology, "Supplement Request for: Strategies: Collaborative Research: Marinetechn: STEM Preparation through Marine Engineering, Science and Technology Experiences." National Science Foundation, 10/1/09-12/31/11, \$44,853.

Verma, Alok K. Engineering Technology, "Collaborative Research - Marine Career Tech: STEM Careers in Shipbuilding and Marine Industry." National Science Foundation, 10/1/09-9/30/10, \$136,390.

Vuskovic, Leposava. Physics, "Support for Continuing Research on the Effect of Microwave-Generated Plasmas on Aerodynamic Flow." National Institute of Aerospace Associates, 9/1/09-8/31/10, \$33,164.

Walk, Steven R. Engineering Technology, "Applications of Quantitative Technology Forecasting in Conceiving and Planning the NASA 21st Century Laboratory." NASA-Langley Research Center, 8/1/09-1/31/11, \$10,000.

Walk, Steven R. Engineering Technology, "First Order Parametric Study of Novel Permanent Magnet Machine." Ryan Jones & Associates, 5/16/10-8/15/10, \$15,837.

Ward, Christine A. Dean, Education, "The Academy of Music: Parkview Strings Program Evaluation." The Academy of Music, 1/1/10-9/30/10, \$1,556.

Wargo, Joseph. Dean, Education, "Troops to Teachers FY 2010-11." U.S. Department of Defense, 10/1/09-9/30/10, \$203,026.

Watson, Ginger. STEM Education & Professional Studies, "An Internet Based Rehabilitation Program for Warriors with Hearing Loss and Auditory Processing Disorders Secondary to Blast and Traumatic Brain Injuries." Advanced Anti-Terror Technologies Corporation, 9/15/09-10/14/11, \$40,500.

Watson, Ginger. STEM Education & Professional Studies and VMASC, "Visualization of Port Logistics: Visport." Opportunity, Inc., 8/1/09-6/30/10, \$29,400.

Wojtowicz, Robert. Dean, Arts & Letters, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/10, \$24,678.

Xiao, Shu. Center for Bioelectrics, "Near-Field Propagation of Sub-Nanosecond Electric Pulses into Amorphous Masses." Air Force Office of Scientific Research, 10/1/09-9/30/10, \$100,001.

Xiao, Shu. Electrical & Computer Engineering, "CAREER: Distributed Broadcasting." National Science Foundation, 8/1/09-12/31/10, \$82,004.

Xu, X. Nancy. Chemistry & Biochemistry, "NIRT: Design of Biocompatible Nanoparticles for Probing Living Cellular Functions and their Potential Environmental Impacts." National Science Foundation, 8/27/09-5/31/11, \$40,738.

Xu, X. Nancy. Chemistry & Biochemistry, "Nanoassay for ABC Transporter 5." U.S. Public Health Service, 5/1/10-4/30/11, \$191,360.

Xu, X. Nancy. Chemistry & Biochemistry, "Nanoassay for Real-Time Molecular Probing ABC Transporter." U.S. Public Health Service, 9/30/09-4/30/11, \$430,387.

Yang, Xiushi. Social Science Research Center, "Youth Services Survey for Families Mail Survey and MHSIP Survey." VA Department of Mental Health/Mental Retardation, 8/1/09-6/30/10, \$58,564.

Yang, Xiushi. Sociology & Criminal Justice, "Venue-Based HIV and Alcohol Use Risk Reduction among Female Sex Workers in China." Wayne State University, 9/25/08-8/31/10, \$21,771.

Yochum, Gilbert. Economics, "2009 Virginia Beach Overnight Visitor Profiles and 2009 Virginia Beach Tourism Economic Impact Study." Barker, Campbell & Farley, 7/1/09-6/30/10, \$38,637.

Zeil, Steven J. Computer Science, "Phase V of Automated Metadata Extraction for DTIC Documents." Defense Technical Information Center, 7/1/09-6/30/10, \$27,951.

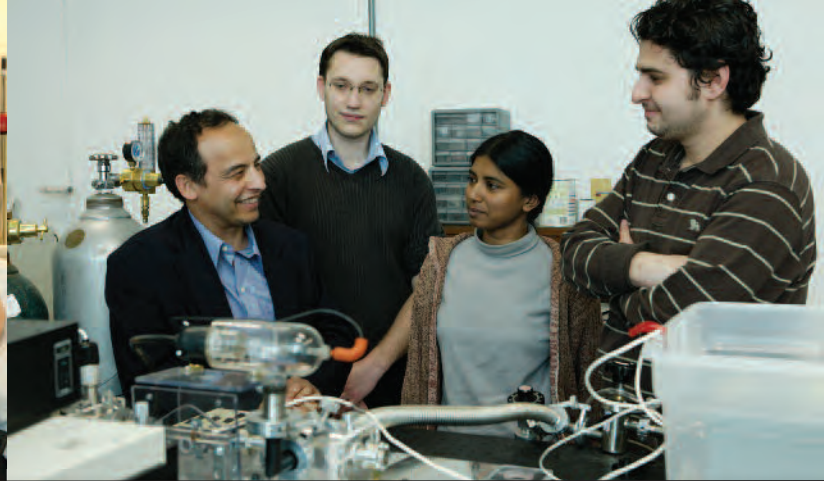
Zimmerman, Richard. Ocean, Earth & Atmospheric Sciences, "Remote Assessment of St. Joseph's Bay Seagrass Abundance Bathymetry and Prop Scarring from Quickbird Imagery." Florida Environmental Research Institute, 3/26/10-8/31/10, \$27,500.

Zimmerman, Richard. Ocean, Earth & Atmospheric Sciences, "Sea Surface Measurements of Ocean Optical Properties in Support of NASA Airborne Lidar Flights over the Chesapeake Bay Region." NASA-Headquarters, 9/15/09-10/31/09, \$39,876.

Zimmerman, Richard. Ocean, Earth & Atmospheric Sciences, "ODU Teacher Immersion Residency." U.S. Department of Education, 10/1/09-9/30/10, \$4,965.

Zubair, Mohammad. Computer Science, "Phase V of Automated Metadata Extraction for DTIC Documents." Defense Technical Information Center, 7/1/09-6/30/10, \$27,951.

Zubair, Mohammad. Computer Science, "Chesapeake Bay Project: Zubair Staff Time." VA Department of Environmental Quality-VA Water Control Board, 1/1/10-6/30/10, \$13,650.



FY 2010 Intramural Research Awards

Summer Research Faculty Program

Anderson, Tim. Communication and Theatre Arts, College of Arts and Letters, "Imminent Flexibility: New Music Industry Practices in the Age of the End User."

Bluhm, Robyn. Philosophy & Religious Studies, College of Arts and Letters, "The Influence of Social and Methodological Values on Functional Neuroimaging Research on Sex Differences."

Kim, Nak-Kyeong. Mathematics and Statistics, College of Sciences, "Statistical Modeling for Peak Finding in ChIP-seq Data."

Landers, Richard. Psychology, College of Sciences, "Using Social Networking and Learner-Centered Measurement in Automated Social Mentoring."

Li, Jiang. Electrical and Computer Engineering, College of Engineering and Technology, "Characterization Brain Tissue and Predicting Brain Tumor Recurrence Using Multisequence."

Lichi, Anthony. Art, College of Arts and Letters, "The Medical Culture of Death in Late Medieval and Early Renaissance Italy: Documents and Sources."

Liu, Hua. Political Science and Geography, College of Arts and Letters, "Examining the Spatial-temporal Effects of Urban Heat Islands on West Nile Virus Dissemination: A study of Orleans Parish, Louisiana and Mobile County, Alabama."

McShane, Michael. Finance, College of Business and Public Administration, "Enterprise Risk Management and Firm Value."

Padilla, Miguel. Psychology, College of Sciences, "Multiple Imputation for Measurement Error Correction in Statistical Models."

Popescu, Dimitrie. Electrical and Computer Engineering, Frank Batten College of Engineering and Technology, "Investigating Performance of Feedback-Based Transmitter Adaptation Schemes in Dynamic Wireless Networks."

Roh, David. English, College of Arts and Letters, "Extralegal Texts: Amateur Writers Shaping Canonicity."

Zareva, Alla. English, College of Arts and Letters, "Lexical Profile and Lexical Diversity of Students' Academic Discourse: A Comparison between Oral and Written Academic Genres across English Native-speaking and International Graduate Students."

Zhu, Xihe. Human Movement Sciences, Darden College of Education, "The Effect of Task Cognitive Demand on Situational Interest and Performance."

Summer Experience Enhancing Collaborative Research (SEECR)

Madhavan, Poornima. Psychology, College of Sciences, and **Michael Seiler**, Finance, College of Business and Public Administration, "Using Ocular Tracking Technology to Examine the Cognitive Dimensions of Residential Real Estate Sales."



Multidisciplinary Seed Funding Program

Hongwei Zhu, Assistant Professor of Information Systems and Technology; **Yuzhong Shen**, Assistant Professor of Electrical and Computer Engineering; **Amy Adcock**, Assistant Professor of STEM Education and Professional Studies, "Multiplayer Online Games for Information Quality Management," \$59,438.

David Gauthier, Assistant Professor of Biological Sciences; **Holly Gaff**, Assistant Professor of Community and Environmental Health; **R Latour**, Instructor of Virginia Institute of Marine Science, William & Mary; **K Reece**, Instructor of Virginia Institute of Marine Science, William & Mary; **W Vogelbein**, Instructor of Virginia Institute of Marine Science, William & Mary, "Modeling Eco-Epidemiology of Chronic Disease in Wild Finfish," \$74,250.

Gon Namkoong, Assistant Professor of Electrical and Computer Engineering; **Keejoo Lee**, Assistant Professor of Aerospace Engineering; **Helmut Baumgart**, Virginia Microelectronic Consortium Professor of Electrical and Computer Engineering; **Hani Elasyed-Ali**, Director of Applied Research Center and Professor of Electrical and Computer Engineering, "Ultrahigh-Efficiency Hybrid Organic-Inorganic Solar Cells Using Nanorod-in-Nanotube Techniques," \$91,000.

Michael McShane, Assistant Professor of Finance; **Rani A. Kady**, Assistant Professor of Engineering Management and Systems Engineering; **Gnana K. Bharathy**, Assistant Professor of Engineering Management and Systems Engineering, "Multi-disciplinary Investigation of Emerging and Complex Risks: Developing Integrated Risk Management Expertise," \$22,000.

Yan Peng, Assistant Professor of Mathematics and Statistics; **Li-Shi Luo**, Professor of Mathematics and Statistics; **Shizhi Qian**, Assistant Professor of Aerospace Engineering; **Wei Liao**, Research Assistant Professor of Mathematics and Statistics, "Numerical and Experimental Study of Complex Bio-Fluids in Microfluidic Lab-on-a-Chip for Bio-Medical Applications," \$70,599.

Faculty Proposal Preparation Program (FP3) Fall 2010

Alonzo, Jenifer. Communication and Theatre Arts, College of Arts and Letters.

Jeng, Anna. Community and Environmental Health, College of Health Sciences.

Liu, Hua. Political Science and Geography, College of Arts and Letters.

Shen, Yuzhong. Electrical and Computer Engineering, College of Engineering.

Walk, Stephen. Engineering Technology, College of Engineering.

Patents

Mohamed, Abdel-Aleam H., **Karl H. Schoenbach**, and **Juergen F. Kolb**. "Method and device for creating a micro plasma jet." U.S. Patent 7,572,998, issued 8/11/2009.

Blackmore, Peter F., **Stephen J. Beebe**, Stephen Buescher, and **Karl H. Schoenbach**. "Activation of calcium-mediated cell functions in cells and tissues, including aggregation of human platelets, by nanosecond pulsed electric fields." U.S. Patent 7,565,201 B2, issued 7/21/2009.

Laroussi, Mounir. "Plasma generator." U.S. Patent 7,719,200, issued 5/18/2010.

Buescher, Stephen, **Karl H. Schoenbach**, and **Stephen J. Beebe**. "Method and apparatus for intracellular electro-manipulation." Australian Patent 785,506, issued 8/7/2009.

Journal Editors

College of Arts and Letters

Carhart, Michael C. *Journal of the History of Ideas*, Review Editor.

Chen, Jie. *Modern China Studies*, Co-Editor.

Clemons, Michael. *The Journal of Race and Policy*, Founding Editor.

Edgerton, Gary R. *Communication Booknotes Quarterly*, Editor.

Edgerton, Gary R. *Film—The Annual Editions Series*, Editorial Advisory Board.

Edgerton, Gary R. *Film & History: An Interdisciplinary Journal of Film and Television Studies*, Editorial Advisory Board.

Edgerton, Gary R. *Journal of American Culture*, Associate Editor, 2002-present.

Edgerton, Gary R. *Journal of Broadcasting & Electronic Media*, Editorial Advisory Board.

Edgerton, Gary R. *Journal of Popular Film and Television*, Co-Executive Editor.

Hall, Mike. *International Trombone Association Journal*. Literature Reviews Editor.

Hametz, Maura. *Journal of Modern Italian Studies*, Book Review Editor.

Karp, Aaron. *Contemporary Security Policy*, Co-Editor.

Regina Karp. *Contemporary Security Policy*, Co-Editor.

Merritt, Jane T. *Pennsylvania Magazine of History and Biography*, Editorial Board.

Miller, Dale E. *Utilitas*, Editorial Board.

Pearson, Yvette. *Journal of Philosophy, Science, and the Law*, Senior Associate Editor.

Potts, Liza. *The Poster: The Journal of Visual Rhetoric*, Associate Editor.

Richards, Jeffrey H. *Early American Literature*, Editorial Board.

Rodner, William S. *Scotia: Interdisciplinary Journal of Scottish Studies*, Editor.

Rothe, Dawn. *The Journal of the International Criminal Court*, Board of Editors.

College of Business and Public Administration

Chatfield, Dean. *International Journal of Operations Research and Information Systems*.

Chatfield, Dean. *European Journal of Industrial Engineering*.

Colburn, Christopher. *Forum on Public Policy*, Editorial Advisory Board.

Deadrick, Diana. *Human Resource Management*, Editorial Board.

Deadrick, Diana. *Journal of Managerial Psychology*, Editorial Board.

Doukas, John. *European Financial Management*, Founder/Editor.

Doukas, John. *Research in International Business Finance Series*, Co-Editor.

Doukas, John. *Finance E* Cases*, Managing Editor and Founder.

Doukas, John. *Managerial Finance*, Advisory Editor.

Doukas, John. *Journal of International Business Studies*, Associate Editor.

Doukas, John. *Journal of Multinational Financial Management*, Associate Editor.

Doukas, John. *International Finance Review*, Associate Editor.

Doukas, John. *International Journal of Finance*, Associate Editor.

Doukas, John. *The Open Business Journal*, Associate Editor.

Doukas, John. *The Open Management Journal*, Associate Editor.

Ford, John B. *Journal of the Academy of Marketing Science*, Editorial Review Board.

Ford, John B. *Journal of Advertising*, Editorial Review Board.

Ford, John B. *Journal of Advertising Research*, Editorial Review Board.

Ford, John B. *International Journal of Advertising*, Editorial Review Board.

5.3.3 Annual Report FY 2010

Ford, John B. *International Marketing Review*, Editorial Review Board.

Ford, John B. *International Journal of Nonprofit and Voluntary Sector Marketing*, Editorial Review Board.

Ford, John B. *Journal of Marketing Theory and Practice*, Editorial Review Board.

Judge, William Q. *Corporate Governance: An International Review*, Editor-in-Chief.

Karande, Kiran. *International Journal of Advertising*, Editorial Board.

Leavitt, William M. *Public Works Management & Policy Journal*, Editorial Board.

Leavitt, William M. *State and Local Government Review*, Editorial Board.

Li, Ling. *Enterprise Information Systems*, Associate Editor.

Li, Ling. *International Journal of Integrated Supply Management*, Editorial Board.

Li, Shaomin. *Chinese Management Review*, Co-Editor.

Li, Shaomin. *Corporate Governance: An International Review*, Associate Editor.

Li, Shaomin. *Modern China Studies*, Editorial Board.

Liu-Tompkins, Yuping. *Journal of Marketing Communications*.

Lombard, John. *Site Selection Magazine*, Editorial Advisory Board.

Lombard, John. *Applied Economic Development Research*, Editorial Board.

Koch, James V. *Journal of Business and Economics*, Editorial Board.

Koch, James V. *Social Science Quarterly*, Editorial Board.

Koch, James V. *Social Science Journal*, Editorial Board.

Koch, James V. *The Journal of Sports Economics*, Editorial Board.

Mengistu, Berhanu. *Public Administration Review*, Editorial Board.

Mengistu, Berhanu. *Journal of Public Management and Social Policy*, Editorial Board.

Mengistu, Berhanu. *Journal of Race and Policy*, Editorial Board.

Morris, John. *Public Works Management & Policy*, Editorial Board.

Morris, John. *Journal of Public Management and Social Policy*, Editorial Board.

Nair, Anil. *Asia Pacific Journal of Management*, Senior Editor.

Seiler, Michael J. *Journal of Real Estate Literature*, Co-Editor.

Seiler, Michael J. *Journal of Real Estate Research*, Editorial Board.

Seiler, Michael J. *Journal of Housing Research*, Editorial Board.

Singhapakdi, Anusorn. *Journal of Marketing Education*, Editorial Review Board.

Singhapakdi, Anusorn. *Applied Research in Quality of Life*, Editorial Review Board.

Singhapakdi, Anusorn. *Journal of Macromarketing*, Editorial Policy Board.

Stein, Michael. *Contemporary Accounting Research*, Editorial Board.

Talley, Wayne K. *Transportation Research E: Logistics and Transportation Review*, Editor-in-Chief.

Talley, Wayne K. *Asian Journal of Shipping and Logistics*, Deputy Editor-in-Chief.

Talley, Wayne K. *Journal of Logistics and Sustainable Transport*, International Advisory Board.

Talley, Wayne K. *International Forum on Shipping, Ports and Airport Transactions*, Editorial Board.

Talley, Wayne K. *International Journal of Shipping and Transport Logistics*, Editorial Board.

Xu, Li. *Expert Systems*, Associate Editor.

Xu, Li. *Systems Research and Behavioral Science*, Editorial Board.

Ziegenfuss, Douglas. *Internal Auditing*, Editorial Board.

Ziegenfuss, Douglas. *Journal of Forensic Accounting*, Editorial Board.

Ziegenfuss, Douglas. *Southern Business Review*, Editorial Board.

Darden College of Education

Adcock, Amy. *Journal of Interactive Online Learning*, Editorial Board.

Adcock, Amy. *Technology, Instruction, Cognition, and Learning*, Managing Editor.

Al-Hazza, Tami. *Literacy Research & Instruction*, Editorial Board.

Bol, Linda. *Journal of Educational Psychology*, Editorial Board.

Bol, Linda. *Journal for Effective Schools*, Editorial Board.

Case, Robert W. *ICHPER International Journal of Research*, Editorial Board.

Case, Robert W. *Journal of Sport Management*, Editorial Board.

Colberg-Ochs, Sheri. *Insulin*, Editorial Board.

Colberg-Ochs, Sheri. *Review of Endocrinology*, Editorial Board.

Christensen, Teresa. *Journal of School Counseling*, Editorial Board.

Christensen, Teresa. *Journal for Specialists in Group Work*, Editorial Board.

Krum, Karen S. *Educational Planning*, Editorial Board.

Cunningham, Bill. *Educational Planning*, Editorial Board.

Cunningham, Bill. *Journal for Specialists in Group Work*, Editorial Board.

Cunningham, Bill. *The National Forum Of Educational Administration And Supervision*, Editorial Board.

Deal, Walter F. *Resources in Technology - The Technology Teacher*, Editor.

DeBruin-Parecki, Andrea. *Journal of Literacy Research*, Editorial Board.

DeBruin-Parecki, Andrea. *The Reading Teacher*, Editorial Board.

Dickerson, Daniel. *Journal of Geoscience Education*, Associate Editor.

Dickinson, Gail K. *Library Media Connection*, Editor.

Dickinson, Gail K. *Linworth*, Editorial Board.

Doyle, Lynn. *Journal of School Leadership*, Editorial Board.

Duggan, Molly. *Community College Enterprise*, Editorial Board.

Duggan, Molly. *Community College Journal of Research and Practice*, Editorial Board.

Duggan, Molly. *Journal of Interactive Online Learning*, Editorial Board.

Dustin, Jill C. *Human Service Education*, Editorial Board.

Dustin, Jill C. *Journal of Human Services*, Editor.

Fleener, Charlene E. *Literacy Research & Instruction*, Editorial Board.

Fleener, Charlene E. *Association for Literacy Educators and Researchers*, Editorial Board.

Gable, Robert A. *Journal of Alternative Schooling*, Executive Editor.

Gable, Robert A. *Preventing School Failure*, Executive Editor.

Gable, Robert A. *Teacher Education and Special Education*, Editorial Board.

Garrett, Michael T. *Journal of Counseling and Development*, Editorial Board.

Garrett, Michael T. *Counseling and Values*, Editorial Board.

Gregory, Dennis. *College Student Affairs Journal*, Editor.

Gregory, Dennis. *Journal of College Student Development*, Editorial Board.

Gregory, Dennis. *Journal of Student Conduct Administration*, Editorial Board.

Gregory, Dennis. *Monograph Series on Legal Issues In Higher Education And Student Affairs*, Editorial Board.

Gregory, Dennis. *NASPA Council on Law and Higher Education*, Editorial Board.

Gregory, Dennis. *The NASPA Journal*, Associate Editor.

Gregory, Dennis. *Oracle*, Editorial Board.

Grothaus, Timothy. *Professional School Counseling*, Editorial Board.

Grothaus, Timothy. *Virginia Counseling Association Journal*, Editorial Board.

5.3.3 Annual Report FY 2010

Haber, George D. *The Journal for Vocational Special Needs*, Editorial Board.

Haber, George D. *Workforce Education Journal*, Editorial Board.

Hager, Jane M. *Association for Literacy Educators and Researchers*, Editorial Board.

Hinton-Johnson, Kaavonia. *The ALAN Review*, Editorial Board.

Hinton-Johnson, Kaavonia. *English Journal*, Editorial Board.

Hinton-Johnson, Kaavonia. *Notes on American Literature*, Editorial Board.

Judge, Sharon. *Journal of Advanced Academics*, Editorial Board.

Judge, Sharon. *Journal of Special Education Technology*, Editorial Board.

Katsioloudis, Petros J. *American Society for Engineering Education*, Editorial Board.

Katsioloudis, Petros J. *International Journal of Modern Engineering*, Editorial Board.

Katsioloudis, Petros J. *Meridian Research Journal*, Editorial Board.

Katsioloudis, Petros J. *National Association of Industrial Technology Journal*, Editorial Board.

Katsioloudis, Petros J. *The Technology Teacher*, Editorial Board.

Katsioloudis, Petros J. *Engineering Graphics Journal*, Editorial Board.

Lee, Jennifer A. *Meridian Research Journal*, Editorial Board.

Lee, Lea. *Association for Childhood Education International*, Editor.

Lucking, Bob. *Internet and Higher Education*, Editor.

Manning, Lee. *Association for Childhood Education International*, Editor.

Milliken, Tammi. *Virginia Counselors Journal*, Editorial Board.

McAuliffe, Garrett J. *International Journal for the Advancement of Counseling*, Editorial Board.

McAuliffe, Garrett J. *Journal of Counseling and Development*, Editorial Board.

McKinney, Sueanne E. *Teaching Children Mathematics*, Editor.

McKinney, Sueanne E. *Urban Teaching, Learning, and Research*, Editorial Board.

Morrison, Gary R. *Computers and Human Behavior*, Editorial Board.

Morrison, Gary. *Contemporary Educational Technology*, Editorial Board.

Morrison, Gary R. *Educational Communications and Technology Research*, Associate Editor.

Morrison, Gary R. *Educational Technology, Research, & Development*, Associate Editor.

Morrison, Gary R. *Journal of Computers in Higher Education*, Editor.

Morrison, Gary R. *Quarterly Review of Distance Education*, Editorial Board.

Netherton, David L. *Iota Lambda Sigma Journal for Workforce Education*, Editor.

Nunnery, John A. *Journal of Education of Students Placed At-Risk*, Associate Editor.

Neukrug, Edward. *Journal of Human Service Education*, Editorial Board.

Neukrug, Edward. *Virginia Counselor Journal*, Editorial Board.

Overbaugh, Richard C. *Computers in the Schools*, Editorial Board.

Overbaugh, Richard C. *Journal of Computing in Higher Education*, Editor.

Overbaugh, Richard C. *The Internet and Higher Education*, Editorial Board.

Overbaugh, Richard C. *Computers in Human Behavior*, Editorial Board.

Overbaugh, Richard C. *Journal of Educational Computing Research*, Editorial Board.

Owings, William A. *The Journal of Education Finance*, Editorial Board.

Owings, William A. *Journal for Effective Schools*, Editorial Board.

Parker, Radha H. *The ADULTSPAN Journal*, Editorial Board.

Parker, Radha H. *Counseling and Values*, Editorial Board.

5.3.3 Annual Report FY 2010

Raymer, Anastasia. *Journal of Medical Speech Pathology*, Editorial Board.

Reed, Philip A. *International Journal of Technology and Design Education*, Editorial Board.

Reed, Philip A. *Journal of Technology Education*, Editorial Board.

Schwitzer, Alan M. *Journal of College Counseling*, Editor.

Suh, Younghee. *Social Studies Research and Practice Journal*, Editorial Board.

Suh, Younghee. *History Education Journal*, Editorial Board.

Swain, David. *ACSM's Health and Fitness Journal*, Editorial Board.

Swain, David. *Medicine and Science in Sports and Exercise*, Associate Editor.

Wakefield, Alice P. *The Constructivist*, Editorial Board.

Wang, Greg. *Advances in Developing Human Resources*, Associate Editor-in-Chief.

Watson, Ginger. *Journal of Computing in Higher Education*, Associate Editor.

Frank Batten College of Engineering and Technology

Basco, David. *Coastal Engineering*, Associate Editor.

Bowling, Shannon. *International Journal of Experimental Design and Process Optimization*, Editorial Board.

Beskok, Ali. *Journal of Fluids Engineering*, Associate Editor.

Considine, Carol. *International Journal of Construction Education and Research*, Editorial Board.

Gheorghe, Adrian. *International Journal Sustainable Development*, Editor.

Gheorghe, Adrian. *International Journal Critical Infrastructures*, Editor.

Gheorghe, Adrian. *International Journal System of Systems Engineering*, Editor.

Gheorghe, Adrian. *Security, Complex Systems and Governance*, Editor.

Gheorghe, Adrian. *International Journal System Environmental Pollution*, Editorial Board.

Gheorghe, Adrian. *International Journal Global Energy Systems*, Editorial Board.

Gheorghe, Adrian. *International Journal Risk Assessment and Management*, Editorial Board.

Hsiung, Steve. *Journal of Industrial Technology*, Associate Editor.

Hsiung, Steve. *ATMAE, Journal of Industrial Technology*, Associate Editor.

Karim, Mohammad A. see Office of Research.

Keating, Charles. *Engineering Management Journal*, Associate Editor.

Keating, Charles. *IEEE Systems Journal*, Associate Editor.

Keating, Charles. *International Journal of Border Security and Immigration Policy*, Editor.

Keating, Charles. *International Journal of Nanomechanics Science and Technology*, Editorial Board.

Keating, Charles. *International Journal of System of Systems Engineering*, Associate Editor.

Khattak, Asad. *International Journal of Sustainable Development*, Associate Editor.

Khattak, Asad. *Intelligent Transportation Systems*, Editor-in-Chief.

Khattak, Asad. *Journal of Intelligent Transportation Systems: Technology*, Editor.

Khattak, Asad. *Planning and Operations*, Editor.

Kniseley, Stephen. *Cardiovascular Engineering and Technology*, Editorial Board.

Landaeta, Rafael. *Engineering Management Journal*, Associate Editor.

Landaeta, Rafael. *International Journal of Knowledge-Based Organizations*, Associate Editor.

Laroussi, Mounir. *International Journal of Plasma Medicine*, Editorial Board.

Noor, Ahmed K. *Advances in Engineering Software*, Editor-in-Chief.

Noor, Ahmed K. *Applied Mechanics Reviews*, Associate Editor.

5.3.3 Annual Report FY 2010

Noor, Ahmed K. *Journal of Applied Mechanics*, Associate Editor.

Noor, Ahmed K. *Central European Journal of Engineering*, Editor-in-Chief.

Noor, Ahmed K. *Communications in Applied Numerical Methods*, Editorial Board.

Noor, Ahmed K. *Computer Methods in Applied Mechanics and Engineering*, Editorial Board.

Noor, Ahmed K. *Computers & Structures*, Editorial Board.

Noor, Ahmed K. *Computing Systems in Engineering*, Editor-in-Chief.

Noor, Ahmed K. *Engineering Computations*, Editorial Board.

Noor, Ahmed K. *Engineering with Computers*, Editorial Board.

Noor, Ahmed K. *IEEE Computational Science and Engineering*, Editorial Board.

Noor, Ahmed K. *International Journal for Computational Civil & Structural Engineering*, Editorial Board.

Noor, Ahmed K. *International Journal of Knowledge Based Organizations*, Editorial Board.

Noor, Ahmed K. *Journal of Aerospace Engineering*, Editorial Board.

Noor, Ahmed K. *Modeling and Scientific Computing*, Editorial Board.

Noor, Ahmed K. *Numerical Methods in Engineering*, Editorial Board.

Noor, Ahmed K. *Sandwich Structures & Materials*, Editorial Board.

Noor, Ahmed K. *Structural Engineering and Mechanics*, Editorial Board.

Rahman, Zia-ur. *Applied Optics*, Editorial Board.

Schoenbach, Karl H. see Office of Research.

Song, Min. *International Journal of Computer Networks*, Editor-in-Chief.

Song, Min. *International Journal of Ad Hoc and Ubiquitous Computing*, Editorial Board.

Song, Min. *International Journal on Advances in Networks and Service*, Editorial Board.

Song, Min. *Journal of Computing and Information Technology*, Editorial Board.

Song, Min. *Journal of Communications*, Editorial Board.

Song, Min. *Journal of Networks*, Editorial Board.

Tolk, Andreas. *International Journal for Command and Control*, Associate Editor.

Tolk, Andreas. *International Journal for Intelligent Decision Technologies*, Editorial Board.

Tolk, Andreas. *International Journal for Intelligent Defense Support Systems*, Editorial Board.

Tolk, Andreas. *SIMULATION - Transactions of the Society for Modeling and Simulation International*, Associate Editor.

Tolk, Andreas. *International Journal for Modeling and Simulation Engineering*, Editorial Board.

Verma, Alok. *International Journal of Advanced Manufacturing Systems*, Associate Editor.

Verma, Alok. *International Journal of Agile Manufacturing*, Associate Editor.

Verma, Alok. *International Journal of Modern Engineering*, Editorial Board.

Zhou, Guoqing. *IEEE Transactions on Geoscience and Remote Sensing*, Associate Editor.

Zhou, Guoqing. *Journal of Land and Geographic Information Systems*, Editorial Board.

Zhou, Guoqing. *International Journal of Global Position Systems*, Editorial Board.

Zhou, Guoqing. *International Journal of Image & Data Fusion*, Editorial Board.

Zhou, Guoqing. *The Open Geography Journal*, Editorial Board.

College of Health Sciences

Adams-Tufts, K. *Journal of the Association of Nurses in AIDS Care*, Editorial Board.

Clements, Paul T. *Journal of Forensic Nursing*, Associate Editor.

Clements, Paul T. *Journal of Psychiatric and Mental Health Nursing*, Editorial Board.

5.3.3 Annual Report FY 2010

Clements, Paul T. *Journal of Psychosocial Nursing and Mental Health Services*, Assistant Editor.

Clements, Paul T. *Perspectives in Psychiatric Care: The Journal of Advanced Practice Psychiatric Nurses*, Editorial Board.

Darby, Michele. *Dimensions of Dental Hygiene*, Editorial Board.

Darby, Michele. *International Journal of Dental Hygiene*, Associate Editor.

Darby, Michele. *Journal of Contemporary Dental Practice*, Editorial Board.

Darby, Michele. *Journal of Dental Hygiene*, Editorial Board.

Heller, Richard. See Office of Research.

Jeng, Anna. *Open Environmental Engineering Journal*, Editorial Board.

Karlowicz, Karen. *Urologic Nursing*, Editorial Board.

McCombs, Gayle. *Journal of Contemporary Dental Practice*, Editorial Board.

McCombs, Gayle. *Journal of Dental Education*, Editorial Board.

McCombs, Gayle. *Journal of Dental Hygiene*, Editorial Board.

Neff, James. *BMC Public Health*, Associate Editor.

Rudatsikira, Emmanuel. *BMC Public Health*, Associate Editor.

Rudatsikira, Emmanuel. *International Journal of Environmental Research and Public Health*, Editorial Board.

Shuman, Deanne. *Dental Hygiene*, Editorial Board.

Shuman, Deanne. *Practical Hygiene*, Editorial Board.

Tolle, S. Lynn. *Journal of Dental Hygiene*, Editorial Board.

Tolle, S. Lynn. *Journal of Practical Hygiene*, Editorial Board.

Tolle, S. Lynn. *Practical Hygiene*, Editorial Board.

Zhang, Harry. *North America Journal of Medicine and Science*, Column Editor.

College of Sciences

Abdel-Wahab, Hussein. *Journal of Distance Education Technologies*, Editorial Board.

Bliss, James P. *International Journal of Human Factors in Modeling and Simulation*, Editorial Board.

Burdige, David. *Geochimica et Cosmochimica Acta*, Associate Editor.

Burdige, David. *Marine Chemistry*, Associate Editor.

Butler, Mark. *The Lobster Newsletter*, Editor.

Butler, Mark. *Marine Ecology Progress Series*, Staff Editor.

Cash, Thomas F. *Body Image: An International Journal of Research*, Editor-in-Chief.

Cash, Thomas F. *Journal of Social and Clinical Psychology*, Editorial Board.

Chaganty, N. Rao. *Communications in Statistics: Simulation and Computation*, Associate Editor.

Chaganty, N. Rao. *Communications in Statistics: Theory and Methods*, Associate Editor.

Chaganty, N. Rao. *Interstat*, Co-Editor.

Cutter, Gregory. *Limnology and Oceanography Bulletin*, Editor.

Cutter, Gregory. *Limnology and Oceanography Methods*, Associate Editor.

Cutter, Gregory. *Marine Chemistry*, Associate Editor.

Davis, Donald D. *Journal of High Technology Management Research*, Editorial Board.

Davis, Donald D. *Journal of Daoist Studies*, Editorial Board.

Davis, Donald D. *Open Management Journal*, Editorial Board.

Delayen, Jean. *Accelerators and Beams*, Editorial Board, Physical Review Special Topics.

Derlega, Valerian J. *Journal of Social and Clinical Psychology*, Associate Editor.

Dobbs, Fred. *Limnology and Oceanography Bulletin*, Associate Editor.

Ezer, Tal. *Ocean Dynamics*, Co-Editor.

He, Jing. *International Journal of Data Mining and Bioinformatics*, Editorial Board.

5.3.3 Annual Report FY 2010

Gargett, Ann. *Journal of Marine Research*, Board of Editors.

Gatski, Thomas B. *International Journal of Heat and Fluid Flow*, Editor-in-Chief.

Georgen, Jennifer. *Geology*, Editorial Board.

Greenwood, Alex D. *BMC Research Notes*, Associate Editor.

Hatcher, Patrick. *Acta Hydrochimica et Hydrobiologica*, Editorial Board.

Havey, Mark. *Journal of Atomic, Molecular, and Optical Physics*, Editorial Board.

Hofmann, Eileen. *Antarctic Science*, Editor.

Hofmann, Eileen. *Dynamics of Atmospheres and Oceans*, Editor.

Hofmann, Eileen. *Journal of Marine Research*, Editor.

Hofmann, Eileen. *Journal of Marine Systems*, Co-Editor-in-Chief.

Holsinger, John R. *Journal of Subterranean Biology*, Editorial Board.

Kelley, Michelle. *Fathering*, Editorial Board.

Kelley, Michelle. *Journal of Family Psychology*, Editorial Board.

Lewis, Robin J. *Clinical Psychology Review*, Editorial Board.

Lewis, Robin J. *Journal of Social and Clinical Psychology*, Editorial Board.

Luo, Li-Shi. *SIAM Journal of Scientific Computing*, Editorial Board.

Luo, Li-Shi. *Journal of Statistical Physics*, Editorial Board.

Madhavan, Poornima. *Journal of Applied Aviation Studies*, Editorial Board.

Major, Debra. *Aggression and Violent Behavior*, Editorial Board.

Major, Debra. *Journal of Management*, Editorial Board.

Major, Debra. *Journal of Business and Psychology*, Editorial Board.

Major, Debra. *Journal of Organizational Behavior*, Editorial Board.

Maly, Kurt; *Journal for Microcomputer Application Technology*, Associate Editor.

Naik, Dayanand N. *InterStat*, Editor.

Naik, Dayanand N. *Communications in Statistics - Theory and Methods*, Associate Editor.

Naik, Dayanand N. *Communications in Statistics - Simulation and Computation*, Associate Editor.

Naik, Dayanand N. *Thailand Statistician: Journal of Thai Statistical Association*, Editorial Board.

Nelson, Michael. *International Journal of Digital Libraries*, Editorial Board.

Noffke, Nora. *Journal of Sedimentary Research*, Associate Editor.

Olariu, Stephan. *Ad Hoc and Wireless Sensor Networks*, Regional Editor for North America.

Olariu, Stephan. *IEEE Transactions on Computers*, Associate Editor.

Olariu, Stephan. *IEEE Transactions on Parallel and Distributed Systems*, Associate Editor.

Olariu, Stephan. *International Journal of Parallel and Distributed Systems and Networks*, Associate Editor.

Olariu, Stephan. *Journal of Parallel Algorithms and Applications*, Editorial Board.

Olariu, Stephan. *Journal of Parallel and Distributed Computing*, Subject Area Editor.

Olariu, Stephan. *The Journal of Supercomputing*, Editorial Board.

Olariu, Stephan. *Networks*, Associate Editor.

Sanchez, Janis. *Journal of Emotional Abuse*, Editorial Board.

Scerbo Mark W. *Human Factors*, Editorial Board.

Scerbo, Mark W. *Simulation in Healthcare*, Associate Editor.

Schiavilla, Rocco. *Few-Body Systems*, Editorial Board.

Schiavilla, Rocco. *Physical Review C*, Editorial Board.

Sonenshine, Daniel E. *Experimental and Applied Acrology*, Editorial Board.

Sonenshine, Daniel E. *Journal of Medical Entomology*, Subject Editor.

5.3.3 Annual Report FY 2010

Sonenshine, Daniel E. *Parasitologia*, Editorial Board.

Sonenshine, Daniel E. *Ticks and Tick-borne Diseases*, Editorial Board.

Waller, Deborah A. *Journal of Insect Behavior*, Editorial Board.

Whelan, C.T. *Journal of Atomic, Molecular, and Optical Physics*, Editorial Board.

Whittecarr, G. Richard. *Geomorphology*, Associate Editor.

Winstead, Barbara A. *Journal of Social and Clinical Psychology*, Editorial Board.

Xu, X. Nancy. *Frontiers in Biosciences*, Editorial Board.

Office of Research

Ezell, Barry. *Military Operations Research*, Associate Editor.

Ezell, Barry. *International Journal of Critical Infrastructure*, Editorial Board.

Ezell, Barry. *Journal of Bioterrorism & Biodefense*.

Heller, Richard. *Bioelectrochemistry*, Editorial Board.

Heller, Richard. *Genetic Vaccines and Therapy*, Editorial Board.

Heller, Richard. *Technology in Cancer Research and Treatment*, Editorial Board.

Karim, Mohammad A. *IEEE Transactions on Education*, Associate Editor.

Karim, Mohammad A. *Microwave and Optical Technology Letter*, Editorial Board.

Karim, Mohammad A. *Optics and Laser Technology*, North American Editor.

Karim, Mohammad A. *World Journal of Modeling and Simulation*, Editorial Board.

Pakhomov, Andrei. *Bioelectromagnetics*, Associate Editor.

Pakhomov, Andrei. *The Open Electrochemistry Journal*, Editorial Board.

Schoenbach, Karl. *Bioelectrochemistry*, Editorial Board.

Schoenbach, Karl. *IEEE Transactions on Plasma Science*, Associate Editor.

Sokolowski, John. *International Journal of System of Systems Engineering*, Editorial Board.

Sokolowski, John. *Journal of Defense Modeling and Simulation*, Associate Editor.

Sokolowski, John. *Simulation: Transactions of the Society for Modeling and Simulation International*, Associate Editor.



Editors of Books and Journal Special Issues

College of Arts and Letters

Loughlin M., R.E.G. Upshur, M. Goldenberg, R. Bluhm, K. Borgerson (Guest Eds.). *Journal of Evaluation in Clinical Practice*, April 2010.

Buchanan, Lindal and Kathleen Ryan (Eds.). *Walking and Talking Feminist Rhetorics: Landmark Essays and Controversies*. West Lafayette, IN: Parlor Press, 2010.

Rosenberry, Jack, Burton St. John III (Eds.). *Public Journalism 2.0: The Promise and Reality of a Citizen-Engaged Press*. New York: Routledge, 2010.

Clemons, Michael L. "Assessing Race and Policy in the Age of Obama." *The Journal of Race and Policy*, Spring-Summer, 2010.

Clemons, Michael L. (Ed.). *African Americans in Global Affairs: Contemporary Perspectives*. Boston: Northeastern University Press/UPNE, 2010.

Edgerton, Gary R. (General Ed.). *Essential Reader Book Series in Contemporary Media and Culture*. Lexington, KY; University Press of Kentucky, 2009.

Greene, Douglas G. (Ed.). *The Compleat Rogan Kincaid*. Ontario, 2010.

Karp, Aaron (Ed.). *The Politics of Destroying Surplus Small Arms: Inconspicuous Disarmament*. Routledge, 2010.

Rothe, Dawn (Guest Ed.). *Critical Criminology: An International Journal*, Special Volume 17:1, State Crime 2008-2009.

de Silva, Chandra R. (Ed.). *Portuguese Encounters with Sri Lanka and the Maldives: Translated Texts from the Age of the Discoveries*. Brookfield, VT: Ashgate, 2009.

Socha, Thomas J., G. Stamp (Eds.). *Parents and Children Communicating with Society: Managing Relationships Outside the Home*. New York: Routledge, 2009.

Xia, Guomei and Xiushi Yang (Eds.). *Shehuixue Shiye xia de Xinxing Dupin* (Sociological Study of New Drugs). Shanghai: Shanghai Academy of Social Sciences Publishing, 2009.

Darden College of Education

Erford, B.T. and D. Hays (Eds.). *American Counseling Association Encyclopedia of Counseling*. Alexandria, VA: American Counseling Association, 2009.

Kidd, J. (Ed.). *In Our Schools: Foundations and Assessment of Education Fall 2009 Edition*. 1st ed., vol. 1, Norfolk, VA: WiTTIE. Online.

Kidd, J. (Ed.). *In Our Schools: Foundations and Assessment of Education Spring 2010 Edition*. 2nd ed., vol. 1. Norfolk, VA: WiTTIE. Online.

Ehrman, J., and D.P. Swain, et al. (Eds.). *ACSM's Resource Manual for Guidelines for Exercise Testing and Prescription*. Lippincott Williams and Wilkins, 2009.

Frank Batten College of Engineering and Technology

Laroussi, Mounir (Ed.). *Plasma Processes and Polymers*. Special Issue on "Plasma Medicine," March 2010.

Lawrence, Roland (Ed.). *Journal of Quantitative Spectroscopy and Radiative Transfer*. Special Issue for the International Symposium on Atmospheric Light Scattering.

Song, Min (Guest Ed.). *Journal of Peer-to-Peer Networking and Applications*. Special Issue on "Information Dissemination and New Services in P2P Systems," 2009-2010.

Song, Min (Ed.). *Journal of Communications*. Special Issue on "High-performance Switching and Routing," 2008-2009.

Song, Min (Ed.). *Journal of Security and Communication Networks*. Special Issue on "Security in Ad Hoc Networks and Pervasive Computing," 2008-2009.

Tolk, Andreas (Ed.). *Journal for Command and Control*. Special Issue on "M&S for Net-centric Command and Control," 2009.

Xiao, Shu. *IEEE Transactions on Plasma Science*. Special Issue on "Nonthermal Medical/Biological Applications Using Ionized Gases and Electromagnetic Fields," 2010.

College of Health Sciences

Darby, Michele L., and Margaret M. Walsh (Eds.). *Dental Hygiene Theory and Practice*, 3rd ed. St. Louis: Elsevier Saunders, 2010.

College of Sciences

Darby, D.A., L. Polyak, and M. Jakobsson. "Initial results of HOTRAX address a wide range of Arctic paleoclimate issues." *PAGES News*, 17.1, 2009.

Darby, D.A., L. Polyak, and M. Jakobsson (Eds.). *Global and Planetary Change*. Special issue of "Healy-Oden Trans-Arctic Expedition (HOTRAX) initial results," 2009.

Ezer, Tal (Ed.). Special Issue of *International Workshop on Modeling the Ocean*; Springer-Verlag, 2010.

M Barange, J. Field, R. Harris, E. Hofmann, I. Perry, and F. Werner (Eds.). *Marine Ecosystems and Global Change*. Oxford University Press, 2010.

M. Krafczyk and L.-S. Luo (Eds.). *Computers and Mathematics with Applications* 58.5 (September 2009). "Mesoscopic Methods in Engineering and Science." Proceedings of ICMES-2007; Technical University of Munich; Munich, Germany, July 16-20, 2007.

A. Hoekstra, L.-S. Luo, and M. Krafczyk (Eds.). *Computers and Mathematics with Applications* 59.7, April 2010. "Mesoscopic Methods in Engineering and Science." Proceedings of ICMES-2008; University of Amsterdam; Amsterdam, Netherlands, June 16-20, 2008.

Krupp, F, L.J. Musselman, M. Kotb, I. Weidig (Eds.). "Environment, Biodiversity and Conservation in the Middle East." Proceedings of the First Middle Eastern Biodiversity Congress, Aqaba, Jordan, October 20-23, 2008. Special Issue of *Biorisk* 3; Sofia-Moscow: Pensoft Publishers.

Noffke, N. and D. Bottjer. *Astrobiology*. Special Issue on "Microbial mats as biosignatures (ancient and modern)," 2009.

Noffke, N. *Earth Science Review*. Special Issue on "Geobiology: The significance of microbial mats for Earth history," 2009.

De la Fuente, José, Katherine M. Kocan and Daniel E. Sonenshine (Eds.). *Frontiers in Bioscience*. Special issue on "Molecular biology of ticks and the tick-pathogen interface," (<http://www.bioscience.org/>). Online.

Frank Reidy Research Center for Bioelectrics

Andrei G. Pakhomov, M. Markov and D. Miklavcic (Eds.). *Advanced Electroporation Techniques in Biology in Medicine*. CRC Press, 2010.

Schoenbach, Karl, Richard Heller and W. Frey (Co-Eds.). Special Issue on "Bioelectrics." *IEEE Trans. Dielectrics and Electrical Insulation*, October 2009.

Xiao, Shu (Guest Ed.). *IEEE Transactions on Plasma Science*. Special Issue on "Nonthermal Medical/Biological Applications Using Ionized Gases and Electromagnetic Fields," 2010.

Office of Research

Iskander, M., V. Kapila, and M. Karim (Eds.). *Technological Developments in Education and Automation*. The Netherlands: Springer, 2010.

5.3.3 Annual Report FY 2010

Awwal, A.A.S., K.M. Iftekharuddin, **M.A. Karim**, M. Neifeld, and D.G. Stork (Eds.). Special issue on "Convergence in Optical and Digital Pattern Recognition." *Applied Optics* 49.10, April 1, 2010.

Karim, M.A., M. Murshed, M. Paul, and S. Zhang (Eds.). Special issue on "Selected ICCIT 2008 Papers on Multimedia." *Journal of Multimedia* 5.1, February 2010.

Asari, K.V., S.M. Aziz, M. Hossain, **M.A. Karim**, and M. Milanova (Eds.). Special issue on "Selected ICCIT 2008 Papers on Computers." *Journal of Computers* 5.1, January 2010.

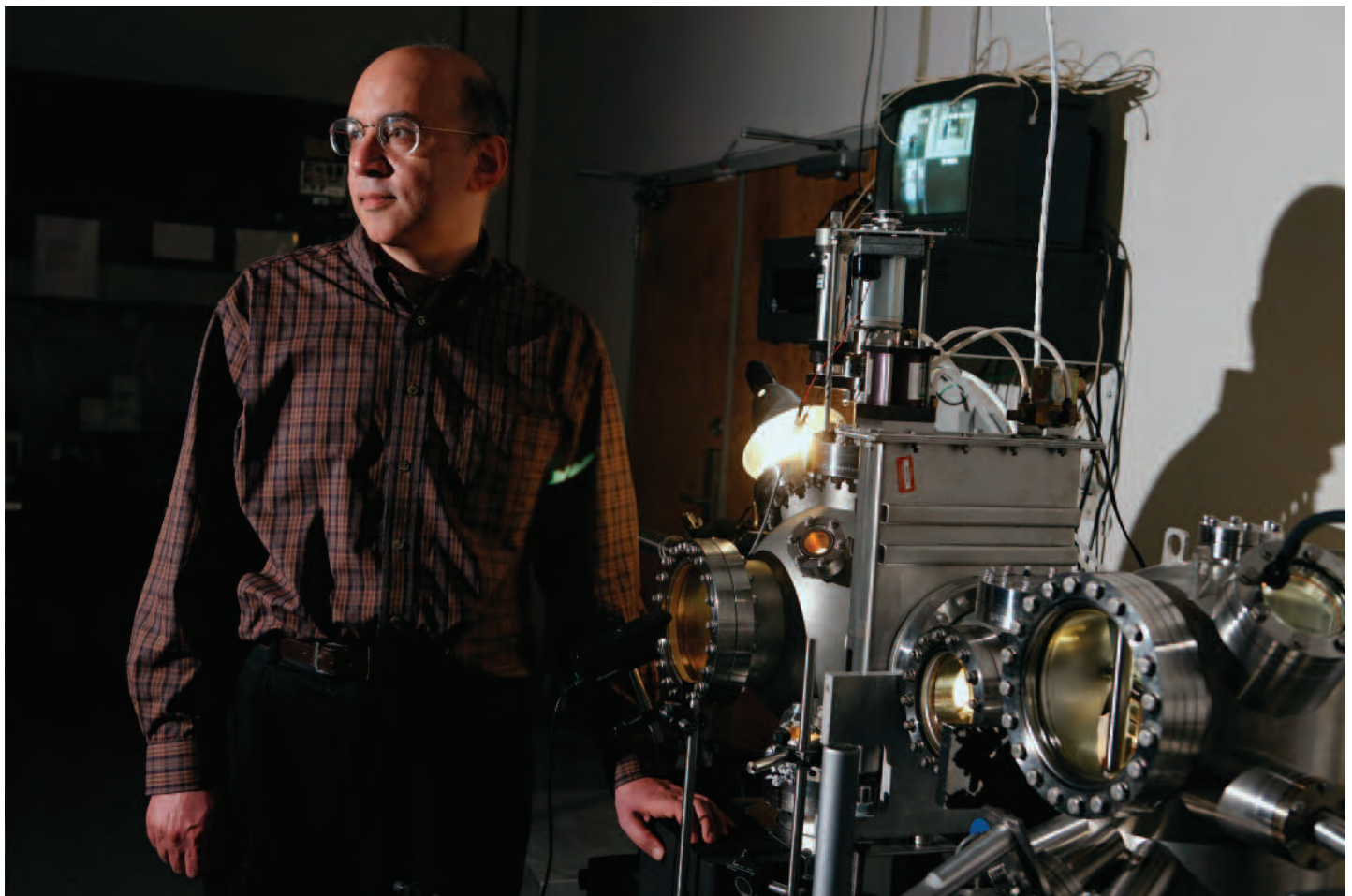
Zabir, S., J. Abawajy, F. Ahmed, and **M.A. Karim** (Eds.). Special issue on "Wireless Communication." *Journal of Networks* 5.1, January 2010.

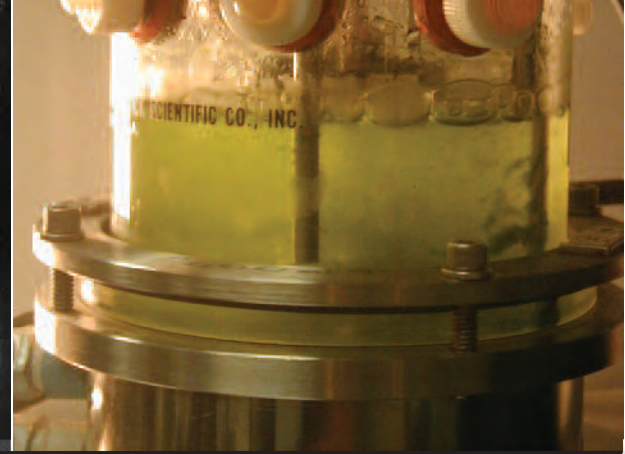
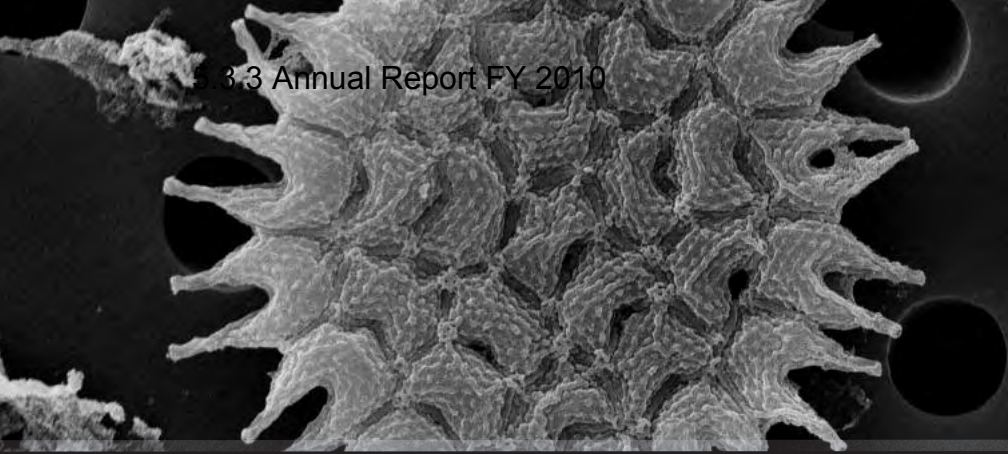
Xu, J., M. Quaddus, and **M. A. Karim** (Eds.). Special issue on "Innovative Applications of IS/IT in a Developing Country." *International Technology Management Review* 2.1, October 2009.

Islam, M.N., **M.A. Karim**, M.A. Salam, and S.K. Sanyal (Eds.). Special issue on "Wireless Communications." *Journal of Communications* 4.6, July 2009.

Virginia Modeling, Analysis and Simulation Center

Sokolowski, J. A. and C.M. Banks (Eds.); *Modeling and Simulation Fundamentals: Theoretical Underpinnings and Practical Domains*. Hoboken: Wiley, 2010.





Books

College of Arts and Letters

Adams, Francis. *The United Nations in Latin America: Aiding Development*. New York: Routledge, 2010.

Chen, Jie and Bruce Dickson. *Allies of the State: China's Private Entrepreneurs and Democratic Change*. Cambridge, MA: Harvard University Press, 2010.

Finley-Croswhite, Annette and Gayle Brunelle. *Murder on the Metro*. Louisiana State University Press, 2010.

Fitzgerald, Kenneth. *Graphic Design Music, Art, and Culture*. New York: Princeton Architectural Press, 2010.

Frank, Jr., Willard C. *Marinos soviéticos con la Flota Republicana durante la Guerra Civil*. Cartagena: Divum & Mare/Áglaya, 2009.

Igloria, Luisa. *Juan Luna's Revolver*. University of Notre Dame Press, 2009.

Jones, Jeffrey P. *Entertaining Politics: Satiric Television and Political Engagement*. 2nd ed. Lanham, MD: Rowman and Littlefield, 2010.

Rothe, Dawn. *The Crime of All Crimes: An Introduction to State Criminality*. Lexington: Roman and Littlefield, 2009.

Schlipphacke, Heidi. *Nostalgia After Nazism: History, Home and Affect in German and Austrian Literature and Film*. Lewisburg, PA: Bucknell University Press, 2010.

St. John III, Burton. *Press Professionalization and Propaganda: The Rise of Journalistic Double-Mindedness, 1917-1941*. Amherst, NY: Cambria Press, 2010.

Stewart, Peter C. *The Legacy Renewed - Football and Foreman Field*. Outer Banks Press, 2009.

Daynes, Byron W. and Glen Sussman. *White House Politics and the Environment: Franklin D. Roosevelt to George W. Bush*. Texas A&M University Press, 2010.

Yetiv, Steve. *Crude Awakenings: Global Oil Security and American Foreign Policy*. Ithaca, NY: Cornell University Press, 2010. Paperback Edition.

College of Business and Public Administration

West, Douglas C., John B. Ford and Essam Ibrahim. *Strategic Marketing: Creating Competitive Advantage*. 2nd ed. Oxford: Oxford University Press, 2010.

Hudgins, Sylvia and Peter S. Rose. *Bank Management and Financial Services*. Irwin/McGraw Hill, 2009.

Li, Shaomin. *Managing International Business in Relation-based versus Rule-based Countries*. New York: Business Expert Press, 2009.

Koch, James V. and Craig T. Bouchard. *America for Sale? The Profits and Perils of Being Hunted and Devoured by the (Foreign) Pack*. Praeger, 2009.

Morris, John and Gerald A. Emison. *Speaking Green with a Southern Accent: Exceptionalism and Environmental Innovation in the South*. Lexington: Lexington Press, 2010.

Talley, Wayne. *Port Economics*. Abingdon, United Kingdom: Routledge, 2009.

Darden College of Education

Morley, J.E. and S.R. Colberg-Ochs. *Science of Staying Young*. Taiwan, China: McGraw-Hill Education, Chinese translation, 2009.

Morley, J.E. and S.R. Colberg-Ochs. *Science of Staying Young*. Hong Kong: Enrich Publishing, Korean translation, 2009.

Morley, J.E. and S.R. Colberg-Ochs. *Science of Staying Young: The BeneVia Advantage*. New York: McGraw-Hill, 2009.

Hays, D. and B.T. Erford. *Developing multicultural counseling competence: A systems approach*. 1st ed. Pearson Merrill Prentice Hall, 2009.

McKinney, S.E. and K. Hinton-Johnson. *Mathematics in the K-8 Classroom and Library*. Ohio: Linworth, 2010.

Richardson, J.S., R.F. Morgan, and C.E. Fleener. *Reading to learn in the content areas*. 7th ed. Belmont, CA: Thomson Wadsworth, 2009.

Morrison, G.R., S.M. Ross, H. Kalman and J. Kemp. *Designing Effective Instruction* Hoboken, NJ: John Wiley & Sons, 2010.

Neukrug, E. and R.C. Fawcett. *Essentials of testing and assessment: A practical guide for counselors, social workers and psychologists*. 2nd ed. Belmont, CA: Brooks/Cole, 2010.

Kaplan, L.S. and W.A. Owings. *American Education: Building a Common Foundation*. Belmont, CA: Wadsworth/Cengage Publishing, 2010.

Frank Batten College of Engineering and Technology

Houghtalen, R.J., A.O. Akan, and N.H.C. Hwang. *Fundamentals of Hydraulic Engineering Systems*, 4th ed. Pearson/Prentice Hall, 2010.

College of Health Sciences

Darby, Michele L. and Margaret M. Walsh. *Procedures Manual to Accompany Dental Hygiene Theory and Practice*, 3 ed. St. Louis: Elsevier Saunders, 2010.

Havelis, Elena B. *Applied Pharmacology*. 3rd ed. St. Louis: Saunders/Elsevier, 2010.

College of Sciences

Alava, M.N.R., K.E. Carpenter, M.J.S. Palomar, R.F.N. Quicho, and B. Polidoro. *Red List Status of Marine Endemic Teleosts (Bony Fishes) of the Philippine*. Global Marine Species Assessment for the Coral Triangle - First Philippine Conservation Incorporated, 2010.

Jones, C. National Research Council. *Sea Turtle Status and Trends: Integrating Demography and Abundance*. Washington, D.C.: National Academies Press, 2010.

Noffke, N. *Geobiology: Microbial Mats in Sandy Deposits from the Archean Era to Today*. Heidelberg: Springer Verlag, 2010.

Office of Research

Karim, M.A., and X. Chen. *Projeto Digital: Conceitos e Principios Basicos* (in Portugese). Rio de Janeiro, Brazil: LTC-Livros Tecnicos e Cientificos Editora, 2009.



Book Chapters

Center for Learning Technologies

Abdous, M.W. He. "Streamlining the Online Course Development Process by Using Project Management Tools." *The Perfect Online Course: Best Practices for Designing and Teaching*. Charlotte: IAP-Information Age Publishing, 2009. 389-399.

Facer, B., M. Abdous, and M. Camarena. "The Impact of Academic Podcasting on Students: Learning Outcomes and Study Habits." *Handbook of Research on E-Learning Methodologies for Language Acquisition*. IRM Press: Cypertech Publishing, 2009. 339-351.

College of Arts and Letters

Communication and Theatre Arts

Hassencahl, Fran. "Separation and Individuation of Mothers and Daughters in Hollywood Film." Ed. Nurten Cara. *Gender at the Crossroads*. Famagusta, North Cyprus: Eastern Mediterranean University Press, 2009. 181-188.

Hassencahl, Fran. "Framing the Arguments for Success/Failure of Radio Sawa as a Vehicle of Public Diplomacy." Conference Proceedings on *East and West Encounters: The Gülen Movement*. Los Angeles, CA: University of Southern California Press, 2009. 5-6.

St. John III, Burton. "An Enduring Legacy of World War I: Propaganda, Journalism, and the Domestic Struggle over the Commodification of Truth." *War and the Media: Essays on News Reporting, Propaganda and Popular Culture*. Eds. Paul Haridakis, Barbara Hugenberg, and Stanley Weardon. Jefferson, NC: McFarland, 2009. 147-162.

St. John III, Burton. "The Virginian-Pilot's Co-Pilot Pages: Participatory Journalism and the Dilemma of Private Values as Public News." *Public Journalism 2.0*:

The Promise and Reality of a Citizen-Engaged Press. Eds. Jack Rosenberry and Burton St. John III. New York: Routledge, 2010. 84-98.

Socha, Thomas J. and Glen Stamp. "A New Frontier for Family Communication Studies: Parent-Child-Societal Communication." *Parents and Children Communicating with Society: Managing Relationships Outside the Home*. Eds. Thomas J. Socha and Glen Stamp. New York: Routledge, 2009. 1-16.

English

DePew, Kevin Eric & Susan Miller-Cochran. "Social networking in a second language: Engaging multiple literate practices through identity composition." *Reinventing Identities in Second Language Writing*. National Council of Teachers of English. Urbana, IL. 2010. 273-295.

Heller, Dana. "Absolute Seriousness: Sontag in Popular Culture." *The Scandal of Susan Sontag*. Eds. Barbara Ching and Jennifer A. Wagnor-Lawlor. New York: Columbia University Press, 2009. 32-51.

Heller, Dana. "Out for Life: Makeover Television and the Transformation of Fitness on Bravo's Work Out." *TV Transformations: Revealing the Makeover Show*. Ed. Tania Lewis. London: Taylor & Francis, 2009. 85-96.

Heller, Dana. "Memory's Architecture: American Studies and the Graphic Novels of Art Spiegelman." *Approaches to Teaching the Graphic Novel*. Ed. Stephen Tabachnick. New York: Modern Language Foundation, 2009. 155-162.

Igloria, Luisa. "Cooking Berenjena," "The Kitchen Girl's Journal," and "La Americana." *Not a Muse: A Global Poetry Anthology on the Inner Lives of Women*. Eds. Vicki Holmes and Kate Rogers. Haven Books, 2009.

5.3.3 Annual Report FY 2010

McManus, John. "The Yeomen." *Jack Sprat's Wife*. Denver, CO: Umbrella Factory, 2010. 250-276.

Moberly, Kevin. "Computer Culture and Representations of Crime and Criminality." *The Computer Culture Reader*. Newcastle, UK: Cambridge Scholars, 2009. 137-158.

Moberly, Kevin and Matt Barton. "The Quest for Achievement: Remediating First-year Composition Pedagogy." *Design and Implementation of Educational Games: Theoretical and Practical Perspectives*. Hershey, PA: IGI Global, 2010. 206-225.

Moberly, Kevin. "More than Definitions, Descriptions, and Differences: the Labor of Reading and Writing Media." *Reading and Writing: New Media*. Cresskill, NJ: Hampton Press, 2010. 35-52.

Phelps, Louise. "Conversation with Louise Wetherbee Phelps." *Conversations in Cultural Rhetoric and Composition Studies*. Eds. Keith Galliard and Victor Taylor. Davies Group, 2009. 1-28.

Phelps, Louise. "Traveling Time's Arrow in Rhetoric and Composition: The Janus Face of Doctoral Education." *Renewing Rhetoric's Relations to Composition: Essays in Honor of Theresa Jarnigan Enos*. Eds. Shane Borrowman, Stuart Brown, and Thomas Miller. LEA, 2009. 137-55.

Richards, Jeffrey H. "Print, Manuscript, and Staged Performance: Dramatic Authorship and Text Circulation in the New Republic." *Cultural Narratives: Textuality and Performance in American Culture before 1900*. Eds. Sandra M. Gustafson and Caroline Sloat. University of Notre Dame Press, 2010. 73-96.

Scialdone-Kimberley, Hannah and David Metzger. "Writing in the Third Space from the Sun: A Pentadic Analysis of Discussion Papers Written for the UN Forum on Forests." *Rhetorics, Literacies and Narratives of Sustainability*. Ed. Peter Goggin. New York/London: Routledge, 2009. 39-54.

Foreign Languages & Literatures

Lubich, F.A. "Hermann Hesse's *Narziss und Goldmund*: Medieval Imaginaries of (Post-)Modern Realities." *A Companion to Hermann Hesse's Literary Work*. Rochester: Camden House, 2009. 187-214.

Lubich, F.A. "Nürnberger Passionsspiele: Triumph der Venus." *Auslese zum Jahreswechsel 2009/2010*. Ed. Johann-Friedrich Huffmann. Berlin: Frieling, 2009. 133-140.

Lubich, F.A. "Nürnberger Weltvisionen: Gutenberg Galaxies, Star Dust Memories." *Welt der Poesie*. Ed. Johann-Friedrich Huffmann. Berlin: Frieling, 2009. 116-128.

Lubich, F.A. "Nürnberger Walpurgisnächte: Magical Mystery Tour." *Reise, Reise*. Ed. Johann-Friedrich Huffmann. Berlin: Frieling, 2209. 47-55.

Lubich, F.A. "Nürnberger Renaissance: Von welscher Weiblichkeit." *Die großen Themen unserer Zeit. Autoren im Dialog*. Ed. Johann-Friedrich Huffmann. Berlin: Frieling, 2009. 94-105.

History

Frank, Willard C., Jr. "The Strategic Plight of the Spanish Republican Navy in the Spanish Civil War, 1936-39." *New Interpretations in Naval History: Selected Papers from the Fifteenth Naval History Symposium*. Annapolis: Naval Institute Press, 2009. 163-188.

Hametz, Maura. "Foreigners in their own city: Italian fascism and the dispersal of Trieste's port Jews." *Jewish Culture and History, Place and Displacement in Jewish History and Memory Zakor v'Makor*. 2007. Eds. David Cesarani, Tony Kushner, and Milton Shain. London: Vallentine Mitchell, 2009. 15-28.

Merritt, Jane T. "Beyond Boston: Prerevolutionary Activism and the Other American Tea Parties." *Steeped in History: The Art of Tea*. Ed. Beatrice Hohenegger. Los Angeles: Fowler Museum at UCLA, 2009. 164-175.

Philosophy & Religious Studies

White A, Bluhm, Robyn. "Embryo Health and Embryo Research." *The Healthy Embryo: Social, Biomedical, Legal and Philosophical Perspectives*. Eds. J. Nisker, F. Baylis, I. Karpin, C. McLeod and R. Mykitiuk. Cambridge: Cambridge University Press, 2010, pp. 187-200.

Political Science & Geography

Clemons, Michael L. "Conceptualizing the Foreign Affairs Participation of African Americans: Strategies and Effects of the Congressional Black Caucus and TransAfrica." *African Americans in Global Affairs: Contemporary Perspectives*. Boston: Northeastern University Press/UPNE, 2010. 33-64.

Clemons, Michael L. "Epilogue: Toward Foreign Policy Justice in the Post-Bush Era," *African Americans in Global Affairs: Contemporary Perspectives*. Boston: Northeastern University Press/UPNE, 2010. 345-363.

Clemons, Michael L. "Colin Powell and the Iraq War: Bureaucratic Actor and Foreign Policy Dissenter." *African Americans in Global Affairs: Contemporary Perspectives*. Boston: Northeastern University Press/UPNE, 2010. 144-168.

5.3.3 Annual Report FY 2010

Clemons, Michael L. and Supad Ghose. "Condoleezza Rice and Madeleine Albright: The Changing Face of High-Profile U.S. Foreign Policy Leadership." *African Americans in Global Affairs: Contemporary Perspectives*. Boston: Northeastern University Press/UPNE, 2010. 169-191.

Karp, Aaron. "Arms Trade and Traffic." *The Oxford International Encyclopedia of Peace*. Ed. Nigel Young. Oxford University Press, 2010.

Karp, Aaron. "The Global Small Arms Industry: Transformed by War and Society." *The Modern Defense Industry: Political, Economic and Technological Issues*. Ed. Richard A. Bitzinger. Praeger, 2009.

Leib, Jonathan and Gerald Webster. "Electoral Districts." *International Encyclopedia of Human Geography*. Vol. 3. Eds. R. Kitchin and N. Thrift. Oxford: Elsevier, 2009. 399-404.

Serfaty, Simon. "European Strength in an Unpredictable World." *America's Security Role in a Changing World*. Ed. Patrick Cronin. NDU Press. 2009. 292-97.

Serfaty, Simon and Sven Biscop. "A Shared Security Strategy for Euro-Atlantic Partnership of Equals." *Shoulder to Shoulder: Forging a Strategic US-EU Partnership*. Ed. Daniel Hamilton. Brookings Institution, 2010.

Tacosa, Corliss A. and Ms. Taryn Cuper. "Using Game Theory to Qualitatively Analyze Global Relations." Selected Papers Presented at MDSIM World 2009 Conference and Expo (March 2010). NASA Publication NASA/CP-2010-216205, 2009.

Yetiv, Steve. "Global Energy and the Middle East: The Race Between Oil Alternatives and Oil Dependence." *Interpreting The Middle East*. Ed. David Sorenson. Boulder, CO: Westview Press, 2010. 383-405.

Yetiv, Steve and Michael Dziubinski. "Comparing Rhetoric and Action: Budgeting and National Priorities." *America's War on Terror*. 2nd ed. Eds. Patrick Hayden et al. London: Ashgate, 2010.

Sociology & Criminal Justice

Mullins, C.W. and Dawn L. Rothe. "A Supranational Criminology." *Cutting The Edge*. 2nd ed. Ed. Jeffrey Ian Ross. Transaction Publishers. 2009.

Rothe, Dawn. "Judgement, *Prosecutor v. Tihomir Blaški*, July 2004, Case No. IT-95-14-A Commentary." *Cases of International Criminal Tribunals: The International Criminal Tribunal for the former Yugoslavia*. Vol XX. Eds. André Klip and Göran Sluiter. 2009.

Triplett, Ruth, Dianne Cyr Carmody and Peggy S. Plass. "In Trouble and Ignored: Female Delinquents in America." *Controversies in Juvenile Justice and Delinquency*. Eds. Peter Benekos and Alida Merlos. LexisNexis/Anderson Publishing, 2009. 253-277.

Yang, Xiushi and Guomei Xia. "Gender, Migration, and Unprotected Casual and Commercial Sex: Individual and Social Determinants of HIV/STD Risk among Female Migrants." *Gender Policy and HIV in China*. Eds. J.D. Tucker and D.L. Poston. New York: Springer, 2009. 97-114.

Yang, Xiushi. "Migration, Detachment, and HIV Risk among Rural-Urban Migrants in China." *Mobility, Sexuality and AIDS*. Eds. F. Thomas, M. Haour-Knipe, and P. Aggleton. London: Routledge, 2010. 199-213.

Women's Studies Research

Buchanan, Lindal. "Interview: Lindal Buchanan—Making Fortunate Connections." *Working in the Archives: Practical Research Methods for Rhetoric and Composition*. Carbondale: Southern Illinois UP, 2010. 253-55.

Fish, Jennifer and Jennifer Rothchild. "Intersections of Scholar-Activism in Feminist Fieldwork: Reflections on Nepal and South Africa." *The Intersectional Approach: Transforming Women's and Gender Studies Through Race, Class, and Gender*. Chapel Hill: The University of North Carolina Press, 2009. 267-277.

Fish, Jennifer and Shirley Randell, "Promoting the Retention of Women Faculty and Students in Higher Education: the Rwandan Case." *Girl-Child Education in Africa*. Lagos: CIDJAP Press, 2010. 173-189.

College of Business and Public Administration

Information Technology & Decision Sciences

Cook, David P., M. Fonatine, C.D. Combs, R. Satava, J. Sokolowski, and C. Banks. "Modeling and Simulation: Real World Examples." *Principles of Modeling and Simulation: A Multi-Disciplinary Approach*. Wiley Publishers, 2009. 181-246.

Management

Judge, William Q., A. Kutan, and T. Douglas. "Does Corruption Hurt Economic Development? Evidence from Middle Eastern and North African and Latin American Countries." *Political Economy of the Middle East and North Africa*. Ed. Serdar Savan. Routledge, 2009. 25-37.

5.3.3 Annual Report FY 2010

Marketing

Liu, Yuping, L.J. Shrum, and Tina Lowrey. "Emerging Issues in Advertising Research." *The SAGE Handbook of Media Processes and Effects*. Eds. M. B. Oliver and R. Nabi. Thousand Oaks, CA: Sage Publications, 2009. 299-312.

Tam, Leona, Wendy Wood and Mindy F. Ji (2009), "Brand Loyalty is not Habitual." *Handbook of Brand Relationships*. Eds. Joseph Priester, Deborah MacInnis, and Choong W. Park. ME Sharpe, 2009.

Darden College of Education

Communication Disorders and Special Education

Westby, C.E. and S.R. Watson. "ADHD and communication disorders." *The Handbook of Language and Speech Disorders*. Eds. J. Ball, J.S. Damico, and N. Muller. United Kingdom: Wiley-Blackwell Publishers, 2010. 529-555.

Watson, S.R., S. Raver-Lampman, J. Bobzien, S.B. Gear. "Techniques for teaching young children with mild learning and behavior problems." *Early childhood special education (0-8 years): Strategies for positive outcomes*. Ed. S.A. Raver. Upper Saddle River, NJ: Pearson/Merrill, 2009.

Counseling and Human Services

Linde, L.E., B.T. Erford, F.R. Wilson, and D. Hays. "Ethical, legal and professional foundations of group work." In B.T. Erford *Group Counseling in the Clinic*. Pearson Merrill Prentice Hall, 2010. 24-36.

McLeod, A.L., J. Muldoon, and D. Hays. "Intimate partner violence." *Crisis Intervention*. Eds. L. Jackson-Cherry and B.T. Erford. Pearson Merrill Prentice Hall, 2010. 135-164.

Hays, D. and G. Gray. "Multicultural counseling." In B.T. Erford *Orientation to the Counseling Profession*. Pearson Merrill Prentice Hall, 2010. 163-192.

Chang, C.Y., D. Hays, and G. Gray. "Multicultural issues in research." *Qualitative, Quantitative, and Mixed Methods*. Eds. C.J. Sheperis, J.S. Young, and M.H. Daniels. Boston: Pearson, 2010. 262-274.

Hays, D., T.F. Milliken, and C.Y. Chang. "Termination in the School Setting." *Group Work in the Schools*. Ed. B.T. Erford. Pearson Merrill Prentice Hall, 2010. 157-185.

Hays, D., A. McLeod. "The culturally competent counselor." *Developing Multicultural Counseling Competence: A Systems Approach*. Eds. D.G. Hays and B.T. Erford. Pearson Merrill Prentice Hall, 2009. 1-31.

Hays, D., T.F. Milliken. "Themes in multicultural counseling competence: A systems approach." *Developing Multicultural Counseling Competence: A Systems Approach*. Eds. D.G. Hays and B.T. Erford. Pearson Merrill Prentice Hall, 2009. 407-433.

Hays, D., and M. Grimmer. "White privilege and racism." *Developing multicultural counseling competence: A systems approach*. Eds. D.G. Hays and B.T. Erford. Pearson Merrill Prentice Hall, 2009. 72-93.

Levingston, K., A. Logan. "Narrative Sandtray with Clients." *Integrating the Expressive Arts into Counseling Practice*. Eds. S. Degges-White and N. Davis. New York, NY: Springer, 2010. 201-203.

Milliken, T. "Termination." *Group Work in the Schools*. Ed. B. Erford. Pearson Merrill Prentice Hall, 2009.

Educational Foundations and Leadership

Gregory, D.E. "Security, safety, risk management and legal issues." *Student Affairs and Services in Higher Education: Global foundations, issues and best practices*. Ed. Roger B. Ludeman. Paris: United Nations Educational, Scientific, and Cultural Organization, 2009.

Gregory, D.E. "Campus Security/Police and Protection Services." *Student Affairs and Services in Higher Education: Global foundations, issues, and best practices*. Paris: United Nations Educational, Scientific, and Cultural Organization, 2009.

Stringfield, S.C. and J.A. Nunnery. "School improvement strategies and whole school designs for enhancing student achievement." *International Encyclopedia of Education*. 3rd ed. Amsterdam, 2010.

Owings, W.A. and L.S. Kaplan. "School finance and productivity." *Educational Administration*. 6th ed. Belmont, CA: Wadsworth, 2010.

Human Movement Sciences

Ridinger, L.L., Greenwell, T. Christopher. "Ethics in the sport industry." *Foundations of Sport Management*. Eds. A. Gillentine and R.B. Crow. Morgantown, WV: Fitness Information Technology, 2009.

Swain, D.P. "Cardiorespiratory Exercise Prescription." *ACSM's Resource Manual for Guidelines for Exercise Testing and Prescription*. Lippincott Williams and Wilkins, 2009. 448-462.

STEM Education and Professional Studies

Dickerson, D.L. "Teacher diary: Think sheets." *Integrating Computer Technology into the Classroom: Skills for the 21st century*. 4th ed. Eds. G.R. Morrison and D.L. Lowther. Boston: Allyn & Bacon, 2010.

Bichelmeyer, B., J.A. Marken, T. Harris, M. Misanchuk, and E. Hixon. "Instructional Design Theories and Models: Building a Common Knowledge Base." *Fostering affective development outcomes: Emotional intelligence*. Vol. III. Eds. Charles M. Reigeluth and Alison A. Carr-Chellman. 2009.

Ross, S.M. and G.R. Morrison. "The role of evaluation in instructional design." *Handbook of Improving Performance in the Workplace*. Vol. 1. Eds. K.H. Silber and R. Foshay. San Francisco: Jossey-Bass/Pfeiffer, 2010. 554-576.

Teaching and Learning

Suh, Y. and M. Yurita. "Toward building global citizenship by teaching historical controversy: a comparative research on Japanese and South Korean history textbooks." *Trends in Contemporary 'Public' Debates over History Education*. Eds. I. Nakou and I. Barca. London & Portland, OR: Information Age Publishing, 2010.

Frank Batten College of Engineering and Technology

Aerospace Engineering

Beskok, A. "AC Electrokinetic Flows." NATO Advanced Study Institute on *Microfluidic Based Microsystems*. Ed. S. Kakac. New York: Springer, 2010.

Beskok, A. "Gas Flow in the Transition and Free Molecular Flow Regimes." NATO Advanced Study Institute on *Microfluidic Based Microsystems*. Ed. S. Kakac. New York: Springer, 2010.

Beskok, A. "Mixing in Microfluidic Systems." NATO Advanced Study Institute on *Microfluidic Based Microsystems*. Ed. S. Kakac, New York: Springer, 2010.

Lee, K. and S.W. Lee. "Response of composite panels to blast wave pressure loadings." *Blast protection of civil infrastructures and vehicles using composites*. Ed. N. Uddin. Woodhead Publishing, 2010.

Qian S., Celik B., Beskok A., "Characterization of Chaotic Stirring and Mixing Using Numerical Tools," *Microfluidics and Nanofluidics Handbook*. Eds. S. Mitra and S. Chakraborty. CRC Press, 2010.

Civil & Environmental Engineering

Erten-Unal, M. "Hazardous Waste Treatment."

Environmentally Conscious Materials Handling, Wiley Series in Environmentally Conscious Engineering. New York, NY: John Wiley and Sons Inc., 2009. 173-196.

Electrical & Computer Engineering

Krusiński, D.J. and J.R. Wolpaw. "Brain-Computer Interface Research at the Wadsworth Center: Developments in Noninvasive Communication and Control." *Brain Machine Interfaces for Space Applications: Enhancing Astronauts' Capabilities*. Eds. L. Rossini, Summerer, and D. Izzo. Elsevier, 2009. 147-157.

Song, M., G. Patrick, and G. Hsieh. "Detection of Compromised Wireless Sensor Nodes." *Handbook on Sensor Networks*. Eds. Y. Xiao, H. Chen, and F.H. Li. Hackensack, NJ: World Scientific Publishing, 2010.

Engineering Management & Systems Engineering

Kady, R. and J. Davis. "Cost analysis and budgeting for ergonomic hazard & repetitive strain." *The safety professionals handbook: Technical Applications*. 2nd ed. Ed. Joel M. Haight. Des Plaines, IL: American Society of Safety Engineers, 2010. 959-975.

Tolk, Andreas. "Interoperability and Composability." *Modeling and Simulation Fundamentals: Theoretical Underpinnings and Practical Domains*. Eds. John A. Sokolowski and Catherine M. Banks. John Wiley, 2010. 403-433.

Tolk, Andreas. "Using Simulation Systems for Decision Support." *Handbook of Research on Discrete Event Simulation Environments: Technologies and Applications*. Eds. Abu-Ta'ieh and El Sheikh. Hershey, PA: IGI Global, 2009. 317-336.

Engineering Technology

Zhou, Guoqing. "Analysis of Flexible Pavement Distresses on IRI Model." *Pavements and Materials: Modeling, Testing, and Performance*. Eds. You Zhanping, Ala R. Abbas, and Linbing Wang. Reston, VA: American Society of Civil Engineering (ASCE), Geo Institute, 2009. 150-160.

Zhou, Guoqing. "Coastal 3D Change Pattern Analysis Using LiDAR Series Data." *Coastal Remote Sensing*. Taylor and Francis CRC Press, 2009. 32-45.

Mechanical Engineering

Chaturvedi, S., T. Abdel-Salam, and P. Muthoju. "A Computer-based Active Learning Tool for Simulating Performance of Steam Cycles." *Research and Education in Engineering Education*. 2009. 137-148.

College of Health Sciences

School of Community and Environmental Health

Jeng, H.A. and R. Mendez. "Reproductive system diseases and environmental exposure." *Green Series*, vol 9. Eds. R. Robbins and O.A. Ogunseitan. Thousand Oaks, CA: SAGE, 2010.

School of Dental Hygiene

Bauman, D.B. "Diabetes mellitus." *Dental Hygiene Theory and Practice*. 3rd ed. Eds. M.L. Darby and M.M. Walsh. 3rd ed. St. Louis: Saunders/Elsevier, 2010. 852-867.

Connolly, I. "Cultural Competency." In C. Nathe *Dental Public Health: Contemporary Practice for the Dental Hygienist*. 3rd ed. Upper Saddle River, NJ: Prentice Hall, 2010. 156-168.

Darby, M.L. and M.M. Walsh. "The dental hygiene profession." *Dental Hygiene Theory and Practice*. 3rd ed. Eds. M.L. Darby, and M.M. Walsh. St. Louis: Saunders/Elsevier, 2010. 1-12.

Darby, D.L. and M.L. Darby. "Cross-cultural Practice." *Dental Hygiene Theory and Practice*. 3rd ed. Eds. M.L. Darby, and M.M. Walsh. St. Louis: Saunders/Elsevier, 2010. 56-72.

Darby, D.L. and M.L. Darby. "Persons with Human Immunodeficiency Virus Infection." *Dental Hygiene Theory and Practice*. 3rd ed. Eds. M.L. Darby, and M.M. Walsh. St. Louis: Saunders/Elsevier, 2010. 888-899.

Darby, M.L. and M.M. Walsh. "Oral Hygiene Assessment: Soft and Hard Deposits." *Dental Hygiene Theory and Practice*. 3rd ed. Eds. M.L. Darby, and M.M. Walsh. St. Louis: Saunders/Elsevier, 2010. 267-283.

Darby, M.L. and M.M. Walsh. "Dental Hygiene Diagnosis." *Dental Hygiene Theory and Practice*. 3rd ed. Eds. M.L. Darby, and M.M. Walsh. St. Louis: Saunders/Elsevier, 2010. 355-371.

Darby, M.L. and M.M. Walsh. "Hand-Activated Instruments." *Dental Hygiene Theory and Practice*. 3rd ed. Eds. M.L. Darby, and M.M. Walsh. St. Louis: Saunders/Elsevier, 2010. 432-480.

Darby, M.L. and M.M. Walsh. "Management of Extrinsic and Intrinsic Stains." *Dental Hygiene Theory and Practice*. 3rd ed. Eds. M.L. Darby, and M.M. Walsh. St. Louis: Saunders/Elsevier, 2010. 511-528.

Darby, M.L. "Caries management: Fluoride, Chlorhexidine, Xylitol, and Amorphous Calcium Phosphate Therapies." *Dental Hygiene Theory and Practice*. 3rd ed. Eds. M.L. Darby and M.M. Walsh. St. Louis: Saunders/Elsevier, St. Louis, 2010. 579-598.

Walsh, M.M. and M.L. Darby. "Human Needs Theory and Dental Hygiene Care." *Dental Hygiene Theory and Practice*. 3rd ed. Eds. M.L. Darby and M.M. Walsh. St. Louis: Saunders/Elsevier, 2010. 13-23.

Walsh, M.M. and M.L. Darby. "Behavioral Management of Dental Fear and Anxiety." *Dental Hygiene Theory and Practice*. 3rd ed. Eds. M.L. Darby and M.M. Walsh. St. Louis: Saunders/Elsevier, 2010. 712-725.

Walsh, M.M. and M.L. Darby. "Local Anesthesia." *Dental Hygiene Theory and Practice*. 3rd ed. Eds. M.L. Darby and M.M. Walsh. St. Louis: Saunders/Elsevier, 2010. 736-793.

Schultz K.M. and M.L. Darby. "Cognitively and Developmentally Challenged Persons." *Dental Hygiene Theory and Practice*. 3rd ed. Eds. M.L. Darby, and M.M. Walsh. St. Louis: Saunders/Elsevier, 2010. 948-965.

Tolle, L. "Periodontal and risk assessment." *Dental Hygiene Theory and Practice*. 3rd ed. Eds. M.L. Darby and M.M. Walsh. St. Louis: Saunders/Elsevier, 2010. 305-347.

School of Medical Laboratory and Radiation Sciences

Gonzales C., G. Leroy, and G. De Leo. "Augmentative and Alternative communication Technologies." *Handbook of Research on Developments in e-Health and Telemedicine: Technological and Social Perspectives*. Eds. M. Manuela Cunha, Antonio Tavares and Ricardo Simoes. Medical Information Science Reference, 2010.

School of Nursing

Barham P., R. Benjamin, P. Eaton, K. Palmer, C.M. Rutledge, and L. Wiles. "Virtual learning platform, Monarch General Hospital: Enhancing BSN Student Interaction with Culturally Diverse Virtual Patients." In M. Jeffreys *Teaching Cultural Competence in Nursing and Health Care: Inquiry, Action, and Innovation*. 2nd ed. New York: Springer Publishing Company, 2009.

College of Sciences

Biological Sciences

Ehrhardt, N.M., R. Puga, and M. Butler IV. "Large ecosystem dynamics and fishery management concepts: The Caribbean spiny lobster, *Panulirus argus*, fisheries." *Towards Marine Ecosystem-Based Management in the Wider Caribbean*. Eds. L. Fanning, R. Mahon and P. McConney. Amsterdam: Amsterdam University Press, 2010.

5.3.3 Annual Report FY 2010

Polidoro, B.A., S.R. Livingstone, **K.E. Carpenter**, B. Hutchinson, R.B. Mast, N.J. Pilcher, Y. Sadovy de Mitcheson and S.V. Valenti. "Status of the world's marine species." *Wildlife in a Changing World. An Analysis of the 2008 IUCN Red List of Threatened Species*. Eds. Jean-Christophe Vié, Craig Hilton-Taylor and Simon N. Stuart. 2009. 55-65.

Holsinger, J.R. "Three new species of the subterranean amphipod crustacean genus *Stygobromus* (Crangonyctidae) from the District of Columbia, Maryland and Virginia." *A lifetime of contributions to myrapodology and the natural history of Virginia. A Festschrift in Honor of Richard Hoffman's 80th Birthday*. Eds. S.M. Roble and J.C. Mitchell. Martinsville, VA: Virginia Museum of Natural History Special Publication No. 16, 2009. 261-276.

Motley, T.J. and C. Frasier. "Loganiaceae." *Catálogo de las Plantas Vasculares del Cono Sur (Catalogue of the Vascular Plants of the Southern Cone)*. Vol III. Eds. F. O. Zuloaga, O. Morrone and M. J. Belgrano. St. Louis: Missouri Botanical Garden Press, 2009. 2424-2428.

Nicholson, W.E., **D.E. Sonenshine**, R.S. Lane, and G. Uilenberg. "Ticks (Ixodida)." *Medical and Veterinary Entomology*. 2nd ed. Eds. G.R. Mullen and L.A. Durden. San Francisco: Academic Press, 2009. 493-542.

Computer Science

Ji, Shuiwang, "Discriminant Analysis for Dimensionality Reduction: An Overview of Recent Developments," *Biometrics: Theory, Methods, and Applications*, IEEE/Wiley Press, November 2009.

S. Olariu, M.C. Weigle, M. Abueleda, G. Yan, "Use of Infrastructure in VANETs," *Vehicular Networks: From Theory to Practice*, 7.1-7.2, CRC Press, Boca Raton, FL, 2009.

G. Yan, K. Ibrahim, **M.C. Weigle**, "Vehicular Network Simulators," *Vehicular Networks: From Theory*, 13.1-13.22, CRC Press, Boca Raton, FL, 2009.

Mathematics & Statistics

Luo, L. -S., M. Krafczyk, and W. Shyy. "Lattice Boltzmann Method for Computational Fluid Dynamics." *Encyclopedia of Aerospace Engineering*. Vol. 1: Fluid Dynamics and Aerothermodynamics. Eds. Richard Blockley and Wei Shyy. New York, NY: Wiley, 2010.

Ocean, Earth & Atmospheric Sciences

Hofmann, E.E., M. Barange, J.G. Field, R.P. Harris, R.I. Perry, and F. Werner. "Marine ecosystems and global

change: a synthesis." *Marine Ecosystems and Climate Change*. Eds. M. Barange, J. Field, R. Harris, **E. Hofmann**, I. Perry, and F. Werner. Oxford University Press, 2010.

deYoung, B.F. Werner, H. Batchelder, F. Carlotti, O. Fiksen, **E. Hofmann**, S. Kim, and H. Yamazaki. "Physical-biological interactions: integration and modeling." *Marine Ecosystems and Global Change*. Eds. M. Barange, J. Field, R. Harris, **E. Hofmann**, I. Perry, and C. Werner. Oxford University Press, 2010.

Mulholland, M.R. and D.G. Capone. "Dinitrogen Fixation in the Indian Ocean." *Indian Ocean Biogeochemical Processes and Ecological Variability. AGU Geophysical Monograph Series 185*. Eds. J.D. Wiggert, R.R. Hood, S.W.A. Naqvi, K.H. Brink, and S.L. Smith. Washington, DC: American Geophysical Union, 2009. 167-186.

Love, N.G., D.A. Bronk, K.R. Gilmore, and **M.R. Mulholland**. "Nutrients and Their Effects on the Environment." *Biological and Chemical Systems for Nutrient Removal*. Washington, DC: Water Environment Federation, 2009.

Noffke, N. "A Modern Perspective on Ancient Life: Microbial Mats in Sandy Marine Settings from the Archean Era to Today." *Early Life*. Eds. S. Golding, et al. Heidelberg: Springer, 2009.

James, A., Rathburn, S. and **Whittecarr, G.R.** "Introduction: Managing Rivers with Broad Historical Changes and Human Impacts." *Management and Restoration of Fluvial Systems with Broad Historical Changes and Human Impacts*. Eds. A. James, S. Rathburn, and G.R. Whittecarr. Special Volume 451, Boulder CO, Geological Society of America, 2009. v-x.

Psychology

Derlega, V.J. "Social penetration theory." *Encyclopedia of human relationships*. Eds. H. Reis and S. Sprecher. Thousand Oaks, CA: Sage, 2009.

Kelley, M.L., A.J. Platter, and W. Fals-Stewart. "Behavioral couples therapy for substance abuse: Treatment components, efficacy, and effectiveness." *Encyclopedia of Substance Abuse Prevention, Treatment, and Recovery*. Eds. G.L. Fisher and N.A. Roget. Thousand Oaks, CA: Sage, 2009.

Platter, A.J. and **M.L. Kelley**. "Enabling behavior in family members of substance abusers." *Encyclopedia of Substance Abuse Prevention, Treatment, and Recovery*. Eds. G.L. Fisher and N.A. Roget. Thousand Oaks, CA: Sage, 2009.

5.3.3 Annual Report FY 2010

Fals-Stewart, W., K.K. Lam, **M.L. Kelley**. "Behavioral Couple Therapy: Partner-involved treatment for substance-abusing women." *Women and Addiction: A Comprehensive Handbook*. Eds. K.T. Brady, S.E. Back, and S.F. Greenfield. New York: Guilford Press, 2009.

Fals-Stewart, W.S., **M.L. Kelley**, and W.K. Lam. "Couples therapy for substance abuse." *Encyclopedia of Human Relationships*. Eds. H. Reis and S. Sprecher. Thousand Oaks, CA: Sage, 2009.

Gonzalez C.; R.P. Thomas, **P. Madhavan**. "The effects of conjunctive search and response mappings on automatic performance in a complex visual task." *Human Factors Issues in Combat Identification*. Eds. D. Andrews, R. Herz and M. Wolf. Hants, UK: Ashgate Publishing, 2009.

Tolk A.; **P. Madhavan**, L. Jain, J.W. Tweedale. "Agents and decision support systems." *Agent-directed Simulation and Systems Engineering*. Eds. L. Yilmaz and T. Oren. Germany: Wiley-Berlin, 2009. 399-431.

Schmidt-Panos, E., and **M.W. Scerbo**. "Simulation advances in medical training: Laparoscopic skill acquisition." *Human factors in simulation and training*. Eds. D.A. Vincenzi, J.A. Wise, M. Mouloua, and P.A. Hancock. Boca Raton, FL: CRC Press, 2009. 371-385.

Winstead, B.A. "Friendships, sex differences and similarities." *Encyclopedia of Human Relationships*. Eds. H. Reis and S. Sprecher. Thousand Oaks, CA: Sage, 2009.

Winstead, B.A. and V. Morganson. "Gender and relationships at work." *Friends and enemies in organizations: A work psychology perspective*. Eds. R. Morrison and S. Wright. Houndmills, England: Palgrave Macmillan, 2009. 139-167.

Pakhomov, A.G. and **O.N. Pakhomova**. "Nanopores: A distinct transmembrane passageway in electroporated cells." *Advanced Electroporation Techniques in Biology in Medicine*. Eds. A. G. Pakhomov, D. Miklavcic, and M.S. Markov. CRC Press: 2010.

Virginia Modeling, Analysis and Simulation Center

Banks, C.M. "Introduction to Modeling and Simulation." *Modeling and Simulation Fundamentals: Theoretical Underpinnings and Practical Domains*. Eds. J.A. Sokolowski and C.M. Banks. Hoboken: Wiley, 2010.

Sokolowski, J.A. "Monte Carlo Simulation." *Modeling and Simulation Fundamentals: Theoretical Underpinnings and Practical Domains*. Eds. J.A. Sokolowski and C.M. Banks. Hoboken: Wiley, 2010.

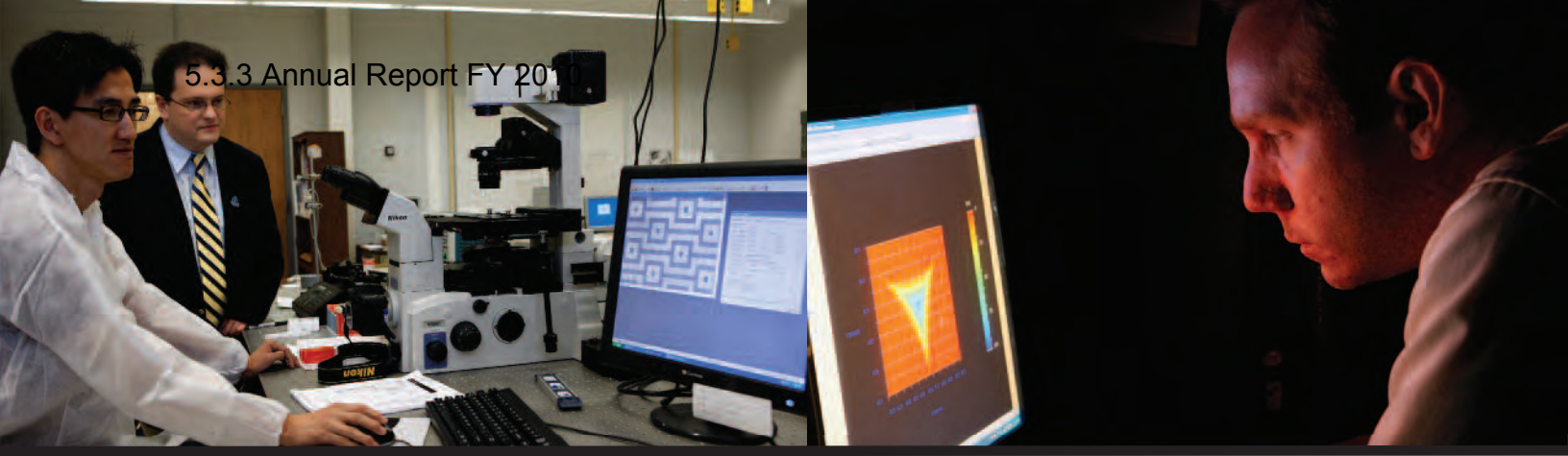
Tolk, A., Saikou Y. Diallo, Robert D. King, **Charles D. Turnitsa**: "A Layered Approach to Composition and Interoperation in Complex Systems." *Complex Systems in Knowledge based Environments: Theory, Models and Applications*. Studies in Computational Intelligence series, Vol. 168. Eds. Tolk and Jain. Springer, 2009. 41-74.

Office of Research

Frank Reidy Research Center for Bioelectronics

Heller, L.C. and **R. Heller**. "Translation of electroporation mediated DNA delivery to the clinic." *Advanced Electroporation Techniques in Biology and Medicine*. Eds. M. Markov, D. Miklavcic, and A. Pakhomov. CRC Press, 2010.

Heller, L.C. and **R. Heller**. "Gene Electrotransfer to Tumor." *Electroporation in Science and Medicine*. Eds. S. Kee, E. Lee, and J. Gehl. Springer Science + Business Media, 2010.



Journal Articles

Center for Learning Technologies

Abdous, M., "E-learning Quality Assurance: A Process-Oriented Lifecycle Model." *Quality Assurance in Education* 17.3 (2009): 281-295.

Abdous, M. and W. He. "Implementing a Large-Scale Integrated Information System to Reengineer and Facilitate Business Functions in a Distance Learning Unit." *Journal of Asynchronous Learning Networks* 13.2 (2009).

Abdous, M., B. Facer and C. Camarena. "MALL Technology: Use of Academic Podcasting in the Foreign Language." *Journal of the European Association for Computer Assisted Language Learning* 21.1 (2009): 76-95.

Gordon, S., W. He, and M. Abdous. "Using a Web-based System to Estimate the Cost of Online Course Production." *Journal of Distance Learning Administration* 12.3 (2009).

He, W., L. Xu, T. Means, and P. Wang. "Integrating Web 2.0 and the CBR Cycle: A System Approach." *System Research & Behavior Science* 26.6 (2009): 717-728.

He, W., F. Wang, T. Means, and L.D. Xu. "Insight into Interface Design of Web-based Case-based Reasoning Retrieval Systems." *Expert Systems with Applications* 36 (2009): 7280-7287.

Wu, S.L., L. Xu, and W. He. "Industry-oriented Enterprise Resource Planning." *Journal of Enterprise Information Systems* 3.4 (2009): 409-424.

College of Arts and Letters

Art

Whelan, Agnieszka. "Rituals of travel: gesture and agency at the turn of the 19th century." *Ziemia w podróży* (2010).

Whelan, Agnieszka. "On the statuary of the garden of Pulawy." *Studies in the History of Gardens and Designed Landscapes* 29.1 and 2 (2009): 57-71.

Communication and Theatre Arts

Baessler, E. James. "Exploring Prayer Contexts and Health Outcomes." *Journal of Communication and Religion* 32 (2009): 347-374.

Jones, Jeffrey P. and Geoffrey Baym. "A Dialogue on Satire News and the Crisis of Truth in Postmodern Political Television." *Journal of Communication Inquiry* 34.3 (2010): 278-294.

St. John III, Burton. "A View that's Fit to Print: The National Association of Manufacturers' Free Enterprise Rhetoric as Integration Propaganda in the *New York Times*, 1937-1939." *Journalism Studies* 11 (2010): 377-392.

St. John III, Burton. "Journalism Counterinsurgency Against 'Free Space': The ANPA Anti-Publicity Bulletins of 1921-1926." *Journalistic History* 35 (2009): 91-97.

Ed Logan; St. John III, Burton; "Video News Release Policies and Usage at Television Stations: Deontological Implications for the Newsroom," *Journalistic Practice* 3: 46-58, 2009.

5.3.3 Annual Report FY 2010

English

DePew, Kevin Eric and Heather Lettner-Rust. "Mediating power: Distance learning, classroom epistemology and the gaze." *Computers and Composition: An International Journal for Teachers of Writing* 26.3 (2009): 174-189.

Goldin, Farideh Dayanim. "The Ghosts of Our Mothers: From Oral Tradition to Written Words—A History and Critique of Jewish Women Writers of Iranian Heritage." Eds. Renee Levine Melammed, Deborah Greniman, and Farideh Dayanim Goldin. *Nashim: A Journal of Jewish Women's Studies & Gender Issues* 18 (2009): 87-124.

Goldin, Farideh. "Introduction." Special issue of *Nashim: A Journal of Jewish Women's Studies & Gender Issues* 8 (2009).

Jacobs, Edward. "The Pursuit of an Unstamped Newspaper: Interactions between Prosecution and the Evolving Form, Politics, and Business Practices of John Cleave's Weekly Police Gazette (1834-36)." *Publishing History* 65 (2009): Pages 41-69.

McManus, John. "A Mist Went Up from the Face of the Ground." *Surreal South '09* (Fall 2009): 130-155.

McManus, John. "Blood Brothers." *Coffee and Fried Chicken* (March 2010). Online.

McManus, John. "Cordie and Bordie." *Paraphilia VIII* (June 2010): 35-53.

McManus, John. "Low Blood." *Off the Rocks 14* (June 2010).

McManus, John. "Coinjock." *AltDaily* (February 2010).

Moberly, Kevin and Brent Moberly. "Neo-medievalism and Simulation." *Studies in Medievalism* XIX (2010): 12-24.

Phillips, Delores B. "Quieting Noisy Bellies: Moving, Eating, And Being In The Vietnamese Diaspora." *Cultural Critique* 73 (Fall 2009): 47-87.

Potts, Liza. "Using Actor Network Theory to Trace and Improve Multimodal Communication Design." *Technical Communication Quarterly* 18.3 (2009).

Roh, David. "Two Copyright Case Studies from a Literary Perspective." *Law and Literature* 22.1 (2010): 110-141.

Tucker, Virginia. "Bringing Abnormal Discourse into the Classroom." *Praxis: A Writing Center Journal* 7.1 (2009).

Foreign Languages & Literatures

Foster, Stephen. "Emile Erckmann, connu et inconnu, à travers ses fables." *Pays d'Alsace, Cahier Varia* 230:I (2010): 27-35.

Gordus, Andrew. "The Feminist Vision in the Cinematic Writing of Edia Van Steen." *Luso-Brazilian Review* 46.2 (December 2009).

Huizar, Angelia J. "Con el cuerpo y la pluma: desafío panoptico del lesbianism en 'Carcel de mujeres' de Maria Carolina Geel." *Revista de Estudios Hispánicos* xxxiv.1 (2009): 43-54.

Lubich, F.A. "Manhattan, Heimat Babylon: Teil I: Summer in the City." *Trans-Lit2* XVI.1 (2010): 38- 53.

History

Frank, Jr., Willard C. "¿Un peso muerto o una fuerza frustrada?: Las dificultades estratégicas de la Marina Republicana durante la Guerra Civil, 1936-1939." *Revista de Historia Naval* 27.105 (2009): 7-38.

Hametz, Maura. "Naming Italians in the Borderland, 1926 - 1943." *Journal of Modern Italian Studies* 15:3 (2010): 410-430.

Heidbrink, Ingo. "Til Nordpolen! Om Den første tyske Polarekspedition 1868 - og om det stadig eksisterende ekspeditionsskip Grønland." *Grønlandsk kultur-og samfundsforskning 2008-2009* (2009): 191-203.

Holden, Robert H. "The Public University's Unbearable Defiance of Being." *Educational Philosophy and Theory* 41:5 (2009): 575-591.

Music

Kosnik, James. "Choral & Solo Repertoire: Mozart's 'Laudate Dominum,' and Faure's 'Pie Jesu.'" *The American Organist* 44.2 (2010): 59-61.

Townsend, Alfred S. "Common Missteps of New Teachers." *The Instrumentalist* 64.2 (2009): 28-30, 56.

Philosophy and Religious Studies

Bluhm, Robyn. "The Epistemology and Ethics of Chronic Disease Research: Further Lessons from ECMO." *Theoretical Medicine and Bioethics* 31.2, (2010): 107-122.

Bluhm, Robyn, J. Downie, J. Nisker. "Dr. Cézanne and the art of re(peat)search: Competing interests and obligations in clinical research." *Accountability in Research* 17.2 (2010): 85-95.

5.3.3 Annual Report FY 2010

Bloom, Robyn. "Evidence-based medicine and patient autonomy." *International Journal of Feminist Approaches to Bioethics* 2.2, (2009): 134-151.

Godden, David M. "The importance of belief in argumentation: Belief, commitment and the effective resolution of a difference of opinion." *Synthese* 172 (2010): 397-414.

Miller, Dale E. "Brown on Mill's Moral Theory: A Critical Response." *Politics, Philosophy and Economics* 9.1, (2010): 47-66.

Political Science & Geography

Webster, Gerald, **Thomas Chapman** and **Jonathan Leib.** "Sustaining the 'Societal and Scriptural Fence,' Cultural, Social, and Political Topographies of Same-Sex Marriage in Alabama." *The Professional Geographer* 62:2 (2010): 211-229.

Steinberg, Philip E. and **Thomas Chapman.** "Key West's conch republic: building sovereignties of connection." *Political Geography* 28 (2009): 283-295.

Chen, Jie. "Generalized vs. Particularized Social Capital: Social Capital and Political Change in China." *Journal of Contemporary China* 19.66 (2010).

Chen, Jie, and Chunlong Lu. "Social Trust and Community Governance in Urban China." *Sociological Studies* 144.6 (2009): 87-104.

Chen, Jie. "Sources of Social Trust and Public Goods Provision in China." *Chinese Social Science Digest* 4 (2010): 113-135.

Earnest, David C. "Growing a Virtual Insurgency: Using Massively Parallel Gaming to Simulate Insurgent Behavior." *Journal of Defense Modeling and Simulation* 6.2 (2009): 55-67.

Karp, Aaron. "The changing ownership of war: states, insurgencies and technology." *Contemporary Security Policy* 2 (2009).

Liu, H. and Q. Weng. "An examination of the effect of landscape pattern, land surface temperature, and socioeconomic conditions on WNV dissemination in Chicago." *Environmental Monitoring and Assessment* 159 (2009): 143-161.

Weng, Q., S. Hu and **H. Liu.** "Estimating impervious surfaces using linear spectral mixture analysis with multi-temporal ASTER images." *International Journal of Remote Sensing* 30.18 (2009): 4807-4830.

Richman, Jesse, and Andrew Pate. "Can The College Vote Turn Out?: Evidence from the U.S. States, 2000-08," *State Politics and Policy Quarterly* 10.1 (2010): 51-68.

Richman, Jesse. "The Logic of Legislative Leadership Preferences, Challenges, and the Speaker's Powers." *Legislative Studies Quarterly* 35.2 (2010): 211-234.

Serfaty, Simon. "The Limits of Audacity." *The Washington Quarterly* (January 2010): 99-110.

Sociology & Criminal Justice

Carmody, Dianne Cyr, Jessica Ekhomu and Brian K. Payne. "Needs of Sexual Assault Advocates in Campus-Based Sexual Assault Centers." *College Student Journal* 43.2 (2009): 507-513.

Chappell, Allison T. "The Philosophical versus Actual Adoption of Community Policing: A Case Study." *Criminal Justice Review* 34.1 (2009): 5-28.

Chappell, Allison T., and Sarah Gibson. "Community Policing and Homeland Security: Friend or foe?" *Criminal Justice Policy Review* 20 (2009): 326-343.

Gainey, Randy R. and Brian K. Payne. "Gender, Victimization, Perceived Risk and Perceptions of Police Performance in Disadvantaged Neighborhoods." *International Journal of Police Science and Management* 11 (2009): 306-323.

Mason, Ashley and **E. Monk-Turner.** "Factors Shaping the Decision of College Students to Walk or Drive Under the Influence of Alcohol: A test of rational choice theory." *Drugs: education, prevention and policy* (2009).

Sumter, Melvina, E. Monk-Turner and C. Turner. "Meditation Effects in Corrections." *Journal of Correctional Health Care* (2009).

Light, David and **E. Monk-Turner.** "Male Sexual Assault and Rape: Findings from the NVAW." *Journal of Interpersonal Violence* 24 (2009).

Rothe, D., Ronald Kramer and Christopher W. Mullins. "Torture, Impunity, and Open Legal Spaces: Abu Ghraib and International Controls." *Contemporary Justice Review* 12.1 (2009): 27-43.

Rothe, D., Jeffrey Ian Ross, Christopher W. Mullins, David Friedrichs, Gregg Barak, Ronald C. Kramer, Dave Kauzlarich, and Raymond Michalowski. "That Was Then, This is Now, What About Tomorrow? Future Directions in State Crime Studies." *Critical Criminology: An International Journal* 17.1 (2009): 3-13.

Rothe, D. "Beyond the Law: The Reagan Administration's Dirty War on Nicaragua." *Critical Criminology: An International Journal* 17.1 (2009): 49-67.

5.3.3 Annual Report FY 2010

Rothe, Dawn L., Christopher W. Mullins and Kent Sandstrom. "The Rwandan Genocide: International Finance Policies and Human Rights." *Social Justice* 35.3 (2009): 66-86.

Rothe, D. and Christopher W. Mullins. "Building Justice After War: The Use of Multiple Post-Conflict Justice Mechanisms." *Social Justice* 35.3 (2009): 87-106.

Rothe, D. and Christopher W. Mullins. "Toward a Criminology for International Criminal Law: An Integrated Theory of International Criminal Violations." *International Journal of Comparative and Applied Criminal Justice* 3.1(2009): 97-118.

Rothe, D. and Jeffrey Ian Ross. "Private Military Contractors, Crime, and the Terrain of Unaccountability." *Justice Quarterly*. 26.4 (2009): 1-25.

Wu, Yuning, Ivan Sun and **Ruth Triplett**. "Race, Class or Neighborhood Context: Which Matters More in Measuring Satisfaction with Police?" *Justice Quarterly* 1 (2009): 125-156.

Payne, Brian and **Ruth Triplett**. "Assessing the Domestic Violence Training Needs of Benefits Workers." *Journal of Family Violence* 24 (2009): 243-253.

Yang, Xiushi, Guomei Xia, Xiaoming Li, Carl Latkin, and David Celentano. "Social Influence and Individual Risk Factors of HIV Unsafe Sex among Female Entertainment Workers in China." *AIDS Education and Prevention* 22.1 (2010): 69-86.

Yang, Xiushi and Guomei Xia. "The Causes and Consequences of Increasing Club Drug Abuse in China: A Descriptive Assessment." *Substance Use and Misuse* 45.1-2 (2010): 224-239.

Yang, Xiushi and Huasong Luo. "Migration, Urbanization, and Drug Use and Casual Sex in China: A Multilevel Analysis." *Environment and Planning A* 41 (2009): 581-597.

Xia, Guomei, **Xiushi Yang**, Jun Li, and Jia Miao. "Causes and Consequences of the Abuse of New Drugs." *Shehui Kexue* 3 (2009): 73-81.

College of Business and Public Administration

Accounting

Amoah, Nana and Arundhati Rao, "Receivables Management: A Case Study." *Journal of the International Academy for Case Studies* 15.5 (2009).

Amoah, Nana and Abdul Aziz. "The Relationship of Perceptions of the First Course in Accounting and GPA with Intention to Major in Accounting among African American Students." *Journal of the Academy of Business Education* 10 (2009): 108-117.

Henry, Laurie, Mike Bitter and **Terry Kubichan**. "The Violet Bay School District Deficit of 2005: Evaluating Internal Control and Identifying Risks." *Issues in Accounting Education* 25.1 (Spring 2010).

Pinsker, Robert, **William Q. Judge**, and **Shaomin Li**. 2010. "National Adoption of International Accounting Standards: An Institutional Perspective." *Corporate Governance: An International Review* 18.3 (2010): 161-174.

Stein, Michael. see Shaomin Li, Management, College of Business and Public Administration.

Ziegenfuss, Douglas, M. Dittenhofer, S. Ramamoorti, and R. Evans. "Behavioral Dimensions of Internal Auditing: A Practical Guide to Professional Relationships in Internal Auditing." *The Institute of Internal Auditors Research Foundation* (2010).

Economics

Demiralp, Berna. "Occupational Self-Selection in a Labor Market with Moral Hazard." *European Economic Review*, (2009).

Demiralp, Berna. "The Impact of Information on Migration Outcomes." *Labour Economics* (2009).

Selover, David D. see Shaomin Li, Management, College of Business and Public Administration.

Talley, Wayne. "Determinants of the Probability of Ship Injuries." *The Asian Journal of Shipping and Logistics* 25.2 (2009): 171-188.

Zhou, Haiwen. "Oligopolistic competition, firm heterogeneity, and the impact of international trade." *Eastern Economic Journal* 36 (2010): 107-119.

Zhou, Haiwen. "Globalization and the size distribution of firms." *Economic Record* 86 (2010): 84-94.

Finance, Insurance or Real Estate

John A. Doukas and Meng Li. "Asymmetric Asset Price Reaction to News and Arbitrage Risk." *Review of Behavioral Finance* 1.1-2 (2009): 23-43.

Griffith, John M. and Carolyn Carroll. "Toeholds, rejected offers, and bidder gains: Do rebuffed bidders put targets in play to profit from their toeholds?" *Quarterly Review of Economics and Finance* 50 (2010): 214-221.

5.3.3 Annual Report FY 2010

McShane, Michael and L. Cox. "Issuance Decisions and Strategic Focus: The Case of Long-Term Care Insurance." *The Journal of Risk and Insurance* 76 (2009): 87-108.

Wells, B., K. Epermanis, L. Cox, and **Michael McShane**. "Risky Asset Substitution in the Insurance Industry: A Historical Example." *Journal of Insurance Regulation* 27 (2009): 67-90.

McShane, Michael, L. Cox, and R. Butler. "Regulatory Competition and Forbearance: Evidence from the Life Insurance Industry." *Journal of Banking and Finance* 34 (2010): 522-532.

Najand, Mohammad and Abdullah Alsubaie. "Abnormal Trading Volume and Autoregressive Behavior in Weekly Stock Return in the Saudi Stock Market." *Emerging Markets Review* 10 (2009): 207-225.

Seiler, Michael J., Aaron D. Arndt, Vicky L. Seiler, Graeme Newell, and James R. Webb. "Measuring Service Quality with Instrument Variation in an SEM Framework." *Journal of Housing Research* 19.1 (2010): 47-63.

Seiler, Michael J., Vicky L. Seiler, David M. Harrison, and Kimberly F. Luchtenberg. "The Role of Profit, Law, and Ethics in Residential Real Estate Investments." *Journal of Real Estate Practice and Education* 12:2 (2009): 157-171.

Seiler, Michael J. and V.L. Seiler. "ETF Short Shares: The Next Stage in the Evolution of REIT Ownership." *Journal of Real Estate Portfolio Management* 15:1 (2009): 21-31.

Sun, Licheng, Chris Stivers and Yong Sun. "The Other January Effect: International, Style, and Subperiod Evidence." *Journal of Financial Markets* 12:3 (2009): 521-546.

Lin, Crystal, Hamid Rahman, and **Kenneth Yung**. "Investor Sentiment and REIT Returns." *Journal of Real Estate Finance and Economics* 39.4 (2009 Winter): 450-471.

Lin, Crystal, Hamid Rahman, and **Kenneth Yung**. "Investor Overconfidence in REIT Stock Trading." *Journal of Real Estate Portfolio Management* 16.1 (2010): 39-57.

Qian Sun, **Kenneth Yung**, and Hamid Rahman. "Investor Recognition and REIT Returns." *Journal of Real Estate Portfolio Management* 16.2 (2010): 141-157.

Zugelder, Michael T. and Paul J. Champagne. "The ADA Amendments Act of 2008: Evolution of the Law and Implications for Management." *Leadership and*

Organizational Management Journal 2009.4 (2009): 18-28.

Zugelder, Michael T. and Paul J. Champagne. "The Evolution of Workplace Discrimination Based on Sexual Orientation and Gender Identity." *Perspectives in Business* 7.1 (March 2010).

Zugelder, Michael, Myron Glassman, Aaron Glassman, and Paul J. Champagne. "Evaluating Pay for Performance Systems: Critical Issues for Implementation." *Compensation and Benefits Review* (July/August 2010).

Information Technology & Decision Sciences

Cao, Lan. "Dynamic Capability for Trustworthy Software Development." *Journal of Software Maintenance and Evolution: Research and Practice* (2010): DOI 10.1002/smr.511.

Wu, H. and **Lan Cao**. "Community Collaboration for ERP Implementations." *IEEE Software* 26.6 (2009).

Cao, Lan, K. Mohan, P. Xu, and B. Ramesh. "A Framework for Adapting Agile Methodologies." *European Journal of Information Systems* 18.4 (2009).

Cao, Lan, B. Ramesh, and M. Rossi. "Are Domain-Specific Models Easier to Maintain Than UML Models?" *IEEE Software* 26.4 (2009).

Cao, Lan. "Dynamic Capability for Trustworthy Software Development." *Journal of Software Maintenance and Evolution: Research and Practice* (2010): DOI 10.1002/smr.511.

Li, Ling, J. Qi, Y. Li, and H. Shu. "An Extension of Technology Acceptance Model: Analysis of the Adoption of Mobile Data Services in China." *Systems Research and Behavioral Science* 26 (2009): 391-407.

Li, Ling and Z. Zhou. "A solution for cyclic scheduling of multi-hoists without overlapping." *Annals of Operations Research* 168 (2009): 5-21.

Li, Ling, Q. Su, and Y.W. Cui. "Analyzing Relational Benefits in e-Business Environment from Behavioural Perspective." *Systems Research and Behavioral Science* 26 (2009): 129 -142.

Li, Ling, J. Qi, and H. Ai. "A System Dynamics Approach to Competitive Strategy in Mobile Telecommunication Industry." *Systems Research and Behavioral Science* 26 (2009): 155-168.

Li, Ling, Jiayin Qi, Li Zhang, Yanping Liu, Yongpin Zhou, Yao Shen, Liang Liang, and Huaizu Li. "ADTrees Logit model for customer churn prediction." *Annals of Operations Research* 168 (2009): 247-265.

5.3.3 Annual Report FY 2010

Li, Ling and G. Huang. "A mathematical model of infectious diseases." *Annals of Operations Research* 168 (2009): 41-80.

Li, Ling, Q. Su, and X. Chen. "Ensuring Supply Chain Quality Performance through Applying SCOR Model." *International Journal of Production Research* (2010).

Russell, Sara E. "Protecting Workers and Infrastructures in Hazardous Cargo Trades." *The CIP Report, Center for Infrastructure Protection* 7.10 (2009): 4-5, 12.

Wilson, Darryl, James A. Hill, Stephanie Eckerd, and Bertie Greer. "The effect of unethical behavior on trust in a buyer-supplier relationship: The mediating role of psychological contract violation." *Journal of Operations Management* 27.4 (2009): 281-293.

Wu, Harris and Lan Cao. "Harnessing Web 2.0 for ERP Implementations." *IEEE Software* 26.6 (2009).

Wu, Harris and Michael Gordon. "From social tagging to social hierarchies - sharing deeper structural knowledge." *Communications of AIS* 24 (2009): Article 45.

Wu, Harris, B. Liu, Y. Xia, M. Fu and M. Wang. "Active Decoupling for Double-loop Delayed Systems with ADRC Techniques." *International Journal of Innovative Computing, Information and Control* 5.10 (2009).

Tan W., Y. Xu, W. Xu, Li Xu, X. Zhao, L. Wang, and L. Fu. "A Methodology toward Manufacturing Grid-based Virtual Enterprise Operation Platform." *Enterprise Information Systems* 4.3 (2010): 283-309.

Wang P., L. Xu, S. Zhou, Z. Fan, Y. Li, and S. Feng. "A Novel Bayesian Learning Method for Information Aggregation in Modular Neural Networks." *Expert Systems with Applications* 37.2 (2010): 1071-1074.

Xu, L., H. Liu, S. Wang, and K. Wang. "Modeling and Analysis Techniques for Cross-Organizational Workflow Systems." *Systems Research and Behavioral Science* 26.3 (2009): 367-389.

Xu, L., G. Swanson, and K. Samuelson. "Systems Science and Enterprise Integration, Technological Economics and the Theory of Material Flow." *Systems Research and Behavioral Science* 26.2 (2009): 123-127.

Wu, S., L. Xu, and W. He. "Industry-oriented Enterprise Resource Planning." *Enterprise Information Systems* 3.4 (2009): 409-424.

Wang, L., L. Xu, X. Wang, W. You, and W. Tan. "Knowledge Portal Construction and Resources Integration for a Large Scale Hydropower Dam." *Systems Research and Behavioral Science* 26.3 (2009): 357-366.

Jiang, Y., L. Xu, H. Wang, and H. Wang. "Influencing Factors for Predicting Financial Performance based on Genetic Algorithms." *Systems Research and Behavioral Science* 26.6 (2009): 661-673.

He, W., L. Xu, T. Means, and P. Wang. "Integrating web 2.0 with the case-based reasoning cycle: A systems approach." *Systems Research and Behavioral Science* 26.6 (2009): 717-728.

Yuan, R., Z. Li, X. Guan, and L. Xu. "An SVM-based machine learning method for accurate Internet traffic classification." *Information Systems Frontiers* 12.2 (2010): 149-156.

Wang, L., L. Xu, R. Liu, and H. Wang. "An approach for moving object recognition based on BPR and CI." *Information Systems Frontiers* 12.2 (2010): 141-148.

Zhu, Hongwei, and S.E. Madnick. "Finding New Uses for Information." *MIT Sloan Management Review* 50.4 (2009): 18-21.

Zhu, Hongwei, S.E. Madnick, R. Wang, and Y. Lee. "Overview and Framework for Data and Information Quality Research." *ACM Journal of Data and Information Quality* 1.1 (2009).

Zhu, Hongwei, and S.E. Madnick. "One Size does not Fit All: Legal Protection for Non-copyrightable Data." *Communications of the ACM* 52.9 (2009): 123-128.

Zhu, Hongwei, and S.E. Madnick. "Reconciliation of Temporal Semantic Heterogeneity in Evolving Information Systems." *Ingénierie des Systèmes d'Information (Networking and Information Systems)* 14.6 (2009): 59-74.

Management

Champagne, Paul J. see Michael T. Zugelder, Finance, College of Business and Public Administration.

Deadrick, Diane and P.A. Gibson. "Public administration research and practice: Are academician and professional interests that different?" *Public Administration Quarterly* 34 (2010): 145-168.

Deadrick, Diane and P.A. Gibson. "Revisiting the Research-Practice Gap in HR: A Longitudinal Analysis." *Human Resource Management Review* 19 (2009): 144-153.

Deadrick, Diane and D.L. Stone. "Emerging Trends in Human Resource Management Theory and Research." *Human Resource Management Review* 19 (2009): 51-53.

Judge, William Q., A. Gaur, and M. Muller. "Corporate Governance and Shareholder Activism: An International Perspective." *Corporate Governance: An International Review* 18.4 (2010): 258-273.

5.3.3 Annual Report FY 2010

Judge, William Q., and T. Douglas. "The Evolution of the Organizational Capacity for Change Construct." *Journal of Organizational Change Management* 22 (2009): 635-649.

Judge, William Q., and **Deepak Sethi**. "Reappraising liabilities of foreignness within an integrated perspective on the costs and benefits of doing business abroad." *International Business Review* 18 (2009): 404-416.

Judge, William Q., I. Naoumova, T. Douglas, and N. Kouzevol. "Organizational Capacity for Change and Firm Performance in Russia." *International Journal of Human Resource Management* 20.8 (2009): 1737-1752.

Judge, William Q. see Robert Pinsker, Accounting, College of Business and Public Administration.

Zhao, Y., Y. Li, **Soo-Hoon Lee**, and L.B. Chen. "Entrepreneurial Orientation, Organizational Learning, and Performance: Evidence from China." *Entrepreneurship Theory & Practice*, in press (2010).

Li, Y., **Soo-Hoon Lee**, X. Li, and Y. Liu. "Knowledge Codification, Exploitation, and Innovation: Moderating Influence from Organizational Controls in Chinese Firms." *Management & Organization Review* 6.2 (2010): 219-241.

Lee, Soo-Hoon, P.H. Phan, and T. Yoshikawa. "The Role of the Board and its Interaction with the Successor's Human Capital in the Asian Family Enterprise." *Multinational Business Review*, 16.2 (2009): 1-24.

Li, Shaomin. see Robert Pinsker, Accounting, College of Business and Public Administration.

Li, Shaomin, **David Selover**, **Michael Stein**, and Liu Wang. "'Keep silent, make money': Can Chinese firms' financial data be trusted?" (in Chinese) *Hong Kong Economic Journal Monthly* (May 2010): 88-90.

Li, Shaomin, Marc Fetscherin, Ilan Alon, Christoph Lattemann, and Kuang Yeh. "Corporate social responsibility in emerging markets: The importance of the governance environment." *Management International Review - A Financial Times Top-40 journal*, (2010).

Li, Shaomin and Judy J. Wu. "Why some countries thrive despite corruption? The role of trust in corruption-efficiency relationship." *Review of International Political Economy* 17.1 (2010): 129-154.

Li, Shaomin, Ilan Alon, Christoph Lattemann, Marc Fetscherin, and Anna Maria Schneider. "Usage of public corporate communications of social responsibility within Brazil, Russia, India and China (BRIC)." *International Journal of Emerging Markets* 5.1 (2010): 6-22.

Li, Shaomin, **Kiran Karande**, and Dongsheng Zhou. "Conducting market exchange in different governance environments: the case of the diamond market in the U.S. and China." *Journal of Business Ethics - A Financial Times Top-40 journal*, 88 (2010): 453-471. (ORIGINAL)

Li, Shaomin, Jun Xia, and Cheryl Long. "Ownership transformation and profitability of collectively owned enterprises: An agency theory perspective." *World Development* 37.10 (2010): 1651-1662.

Li, Shaomin and **Anil Nair**. "Asian Corporate Governance or Corporate Governance in Asia?" *Corporate Governance: An International Review* 17.4 (2009): 407-410.

Li, Shaomin, Christoph Lattemann, Marc Fetscherin, Ilan Alon, and Anna Maria Schneider. "CSR Communication Intensity in Chinese and Indian Multinational Corporations." *Corporate Governance: An International Review* 17.4 (2009): 426-442.

Li, Shaomin and Darryl Samsell. "Why some countries trade more than others: The effects of the governance environment on trade flows." *Corporate Governance: An International Review* 17.1 (2009): 47-61.

Singhapakdi, Anusorn, Phattarawan Tantong, **Kiran Karande**, and **Anil Nair**. "The Effect of Product Adaptation and Market Orientation on Export Performance: A Survey of Thai Managers." *Journal of Marketing Theory and Practice* 18.2 (2010): 155-169.

Sethi, Deepa. "Are Multinational Enterprises from the Emerging Economies Global or Regional?" *European Management Journal* 27.5 (2009): 356-365.

Sethi, Deepak. "Climate change - International business competitiveness and geopolitical implications." *Governance for Climate Security, Business Innovation, Social Change and National Security* 1.1 (2009): 268-271.

Sethi, Deepak and **William Q. Judge**. "Reappraising Liabilities of Foreignness within an Integrated Perspective of the Costs and Benefits of Doing Business Abroad." *International Business Review* 18.4 (2009): 404-416.

Marketing

Arndt, Aaron D. see Michael J. Seiler, Finance, College of Business and Public Administration.

Merchant, Altaf, **John B. Ford** and Adrian Sargeant. "Don't Forget to say Thank You: The Effect of an Acknowledgement on Donor Relationships." *Journal of Marketing Management (UK)*, 26.7-8 (2010): 593-611.

Honeycutt, Jr., Earl D., Shawn T. Thelen and **John B. Ford**. "Evaluating and Motivating Faculty

5.3.3 Annual Report FY 2010

Performance: Challenges for Marketing Chairs.” *Marketing Education Review* 20.3 (2010): 205-217.

Honeycutt, Earl D., **John B. Ford** and Shawn T. Thelen. “An Empirical Examination of the Three Dichotomies of Marketing Academic Model.” *Marketing Education Review* 20.2 (2010): 131-142.

Merchant, Altaf, **John B. Ford** and Adrian Sargeant. “Charitable Organizations’ Storytelling Influence on Donors’ Emotions and Intentions.” *Journal of Business Research* 63 (2010): 754-762.

Glassman, Myron. see Michael T. Zugelder, Finance, College of Business and Public Administration.

Karande, Kiran. see Shaomin Li, Management, College of Business and Public Administration.

Karande, Kiran and Vince Magnini. “Consumer Reference Price Formation in Multiple-Purchase Mode.” *Journal of Hospitality and Tourism Research* (2010).

Karande, Kiran and Vincent Magnini. “Understanding Consumer Services Buyers Based upon Their Purchase Channel.” *Journal of Business Research* (2010).

Karande, Kiran and Vincent Magnini. “An Experimental Investigation into the Use of Written Smell References in Ecotourism Advertisements.” *Journal of Hospitality and Tourism Research* (2010).

Liu, Yuping and L. J. Shrum. “A Dual-Process Model of Interactivity Effects.” *Journal of Advertising* 38.2 (2009): 53-68.

Liu, Yuping and Rong Yang. “Assessing Loyalty Program Effects in a Competitive Setting: Impact of Market Saturation, Market Share, and Category Expandability.” *Journal of Marketing* 73.1 (2009): 109-121.

Singhapakdi, Anusorn, Phattarawan Tantong, **Kiran Karande**, and Anil Nair. “The Effect of Product Adaptation and Market Orientation on Export Performance: A Survey of Thai Manager.” *Journal of Marketing Theory and Practice* 18.2 (2010): 155-169.

Singhapakdi, Anusorn, Kalayane Koonmee, Busaya Virakul, and Dong-Jin Lee. “Ethics Institutionalization, Quality of Work Life, and Employee Job-related Outcomes: A Survey of Human Resource Managers in Thailand.” *Journal of Business Research* 63.1 (2010): 20-26.

Singhapakdi, Anusorn, M. Joseph Sirgy, Dong-Jin Lee, and Scott J. Vitell. “The Effects of Ethics Institutionalization on Marketing Managers: The Mediating Role of Implicit Institutionalization and the Moderating Role of Socialization.” *Journal of Macromarketing* 30.1 (2010): 77-92.

Singhapakdi, Anusorn, Dong-Jin Lee, and M. Joseph Sirgy. “Is Small Business Better than Big Business for Marketing Managers?” *Journal of Business Research* 63.4 (2010): 418-423.

Singhapakdi, Anusorn, Phattarawan Tantong, **Kiran Karande**, and **Anil Nair**. “The Effect of Product Adaptation and Market Orientation on Export Performance: A Survey of Thai Manager,” *Journal of Marketing Theory and Practice* 18.2 (2010): 155-169.

Tam, Leona, Richard P. Bagozzi, and Jelena Spanjol. “When Planning is not Enough: The Self-Regulatory Effect of Implementation Intentions on Changing Snacking Habits,” *Health Psychology*, 29.3 (2010): 284-292.

Tam, Leona, **Myron Glassman**, and Mark Vandenwauver. “Psychology of Password Management Behavior,” *Behavior and Information Technology*, 29.2 (2010): 233-244.

Tam, W.Y. Vivian, **Leona Tam**, and Khoa N. Le. “Cross-cultural Comparison of Concrete Recycling Decision-Making and Implementation in Construction Industry,” *Waste Management*, 30.2 (2010): 291-297.

Shen, Li Yin, **W.Y. Vivian Tam**, **Leona Tam**, and Ying Bo Ji. “Project Feasibility Study: the Key to Successful Implementation of Sustainable and Socially Responsible Construction Management Practice,” *Journal of Cleaner Production*, 18.3 (2010): 254-259.

Tam, W.Y. Vivian, **Leona Tam**, and S.X. Zeng. “Cost effectiveness and tradeoff on the use of rainwater tanks: an empirical study in Australian residential decision-making,” *Resources, Conservation and Recycling*, 54.3 (2010): 178-186.

Le, Khoa N., **W.Y. Vivian Tam**, and **Leona Tam**. “On Assessment Schemes in Engineering Courses Using Spectral Techniques,” *International Journal of Engineering Education*, 25.3 (2009): 547-556.

Urban Studies & Public Administration

Alkadry, Mohamad, and L. Tower. “The Effect of Rurality and Gender on Stroke Awareness of Adults in West Virginia.” *Journal of Health and Human Services Administration* 33.1 (2010).

Alkadry, Mohamad, and M. Witt. “Abu Ghraib and the Normalization of Torture and Hate.” *Public Integrity* 11.2 (2009): 135-155.

McNamara, Madeleine W., **William M. Leavitt**, and **John C. Morris**. “Multiple-Sector Partnerships and the Engagement of Citizens in Social Marketing Campaigns.” *Virginia Social Science Journal* 45 (2010): 1-20.

5.3.3 Annual Report FY 2010

Morris, John C., and John R. Lombard. "Competing and Cooperating Across State Borders in Economic Development: A Call for 'Cooperation.'" *State and Local Government Review* 42.1 (2010): 73-81.

Morris, John C., Madeleine W. McNamara and William M. Leavitt. "Multiple Sector Partnerships and the Engagement of Citizens in Social Marketing Campaigns." *Virginia Social Science Journal* 45 (2010): 1-20.

Morris, John C. and Amy Probsdorger Kelley. "Keeping the Vision Alive: The Role of Networks in National Memorial Building." *Public Voices* 11.1 (2010): 89-109.

Yusuf, Juita-Elena. (2009). "Meeting Entrepreneurs' Support Needs: Are Assistance Programs Effective?" *Journal of Small Business and Enterprise Development* 17.2 (2009): 294-307.

Darden College of Education

Communication Disorders and Special Education

Gable, R.A., P.P. Hester, and J.M. Hendrickson. "Forty years later: The efficacy of rules, praise, and ignoring students with emotional/behavioral disorders." *Education and Treatment of Children* (2009).

Manning, M.L., L.M. Bullock, and R.A. Gable. "Perceptual differences in quality of standards among teachers and related personnel who work with students with emotional/behavioral disorders." *Journal of the American Association of Special Education Professionals* (2009).

Manning, M.L., L.M. Bullock, and R.A. Gable. "Personnel preparation in the area of emotional and behavioral disorders: A reexamination based on teacher perceptions." *Preventing School Failure* 53.4 (2009): 219-226.

Couvillon, M.A., L.A. Bullock, and R.A. Gable. "Tracking behavior assessment methodology and support strategies: a national survey of how schools utilize functional behavioral assessments and behavior intervention plans." *Emotional and Behavioural Difficulties* 14.3 (2009): 215-228.

Hester, P.P., J.M. Hendrickson, and R.A. Gable. "Forty years later—The value of praise, ignoring, and rules for preschoolers at risk for behavior disorder." *Education and Treatment of Children* 32.4 (2009): 513-536.

Judge, S., K. Floyd, and C. Wood-Fields. "Creating a technology-rich learning environment for infants and toddlers with disabilities." *Infants and Young Children* 23.2 (2010): 84-92.

Raver-Lampman, S., A. Michalek, and M. Valenta. "Comparison of quality of life perceptions of caregivers of individuals with intellectual disabilities in the United States and the Czech Republic." *The Journal of the International Association of Special Education* 11.1 (2010): 22-30.

Raymer, A., J. Strobel, K.-L. Reff, T. Prokup, and B. Thomason. "Comparison of errorless and errorful spelling training in acquired dysgraphia." *Neuropsychological Rehabilitation* 20 (2010): 1-15.

Sander, A., A. Raymer, J. Wertheimer, D. Paul, and S. Brown. "Perceived roles of neuropsychologists and speech-language pathologists in rehabilitation." *The Clinical Neuropsychologist* 23.7 (2009): 1196-1212.

Counseling and Human Services

Brown, N.W. "Peer Sexual Harassment in Schools." *Journal for Effective Schools* 8.2 (2010).

Jurgens, J.C. "The Evolution of Community Colleges." *The College Student Affairs Journal* 28.2 (2010): 251-261.

Schellenberg, R., T.J.P. Grothaus. "Promoting Cultural Responsiveness and Closing the Achievement Gap." *Professional School Counseling* 12.6 (2009): 440-449.

McLeod, A.L., D. Hays, and C.Y. Chang. "Female intimate partner violence survivors' experiences with accessing resources." *Journal of Counseling and Development* 88.3 (2010): 303-310.

Hays, D., P. Arredondo, S. Gladding, and R. Toporek. "Integrating social justice group work in the next decade." *Journal of Specialists in Group Work [Special Issue]* 35 (2010): 177-206.

Singh, A.A., D. Hays, L. Watson, and Y.B. Chung. "South Asian immigrant women who have survived child sexual abuse: Resilience and healing." *Violence against Women* (2010).

Chang, C.Y., D. Hays, and T.F. Milliken. "Addressing social justice issues in supervision." *The Clinical Supervisor Journal* 28 (2009): 20-35.

Hays, D., A.L. McLeod, and E.A. Prosek. "Diagnostic variance among counselors and counselor trainees." *Measurement and Evaluation in Counseling and Development* 42 (2009): 3-14.

McAuliffe, G.J. "Reflective visual journaling during art therapy and counseling internships: a qualitative study." *Reflective Practice* 10.5 (2009): 615-632.

5.3.3 Annual Report FY 2010

Educational Foundations & Leadership

Korey, S.C. and D.E. Gregory. "Student protests in America: The sixties and today - Viewing the past to predict the future." *College Student Affairs Journal* 28.2 (2010): 184-206.

Dickinson, G.K., K. Gavigan, and S.L. Pribesh. "Open and Accessible: The Relationship between Closures and Circulation in School Library Media Centers." *School Library Media Research* 11. <http://www.ala.org/ala/mgrps/divs/aasl/aaslpubsandjournals/slmrb/slmrcontents/volume11/dickinson.cfm>

Williams, M.R., and T. Southers. "Blurring the Lines between High School and College: Early Colleges and the Effect on Adult Learners." *Adult Learning* 21.1-2 (2010): 26-30.

Williams, M.R., L. Leatherwood, L. Byrd, M.S. Shuford, and K. Pennington. "Alumni Programs and Student Recruitment at Southern Appalachian Community Colleges." *Community College Enterprise* 16.1 (2010): 23-35.

Sain, B., and M.R. Williams. "An Examination of Portfolios for Faculty Evaluation at Community Colleges." *Journal of Applied Research in the Community College* 17.1 (2009): 56-59.

Orr, R., and M.R. Williams. "Institutional Efforts to Support Faculty in Online Learning." *Innovative Higher Education* 34.4 (2009): 257-268.

Liu, S., J. Gomez, and C.-J. Yen. "Community college online course retention and final grade: Predictability of social presence." *The Journal of Interactive Online Learning* 8.2 (2009).

Human Movement Sciences

Case, R. "An examination of sporting event direct spending patterns at three competitive levels." *Journal of Convention and Event Tourism* 11.2 (2010): 119-137.

Case, R. "A Study to Examine the Nature and Scope of School Athletic Administrator Positions in the State of Virginia." *VAHPERD* 31.1 (2010): 4-8.

Colberg-Ochs, S.R., L.C. Hill, H.K. Parson, K.S. Thomas, and A.I. Vinik. "Six months of moderate aerobic training alters the effects of nitric oxide and prostaglandins, but not EDHF, on skin perfusion in type 2 diabetes." *Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy* 3 (2010): 275-280.

Morrison, S., S.R. Colberg-Ochs, H.K. Parson, and A.I. Vinik. "Impact of balance training on falls risk in older

individuals with type 2 diabetes." *Diabetes Care* 33.4 (2010): 748-750.

Redmond, M.L., L.L. Ridinger, and F.L. Battenfield. "Website coverage of NCAA basketball: Are women getting equal playing time?" *Women in Sport and Physical Activity Journal* 18.1 (2009): 78-89.

Ross, S.R., L.L. Ridinger, and J. Cuneen. "Drivers to divas: Advertising images of women in motorsports." *International Journal of Sports Marketing and Sponsorship* 10.3 (2009): 204-214.

Jeon, J.-H., and L.L. Ridinger. "An examination of sport commitment of windsurfers." *Journal of Sport Behavior* 32.3 (2009): 325-338.

Shapiro, S. "Does Service Matter? An Examination of Donor Perceptions of Service Quality in College Athletics." *Sport Marketing Quarterly* 19.3 (2010): 154-165.

Shapiro, S., C. Giannoulakis, J. Drayer, and J. Wang. "An examination of athletic alumni giving behavior: Development of the Former Student-Athlete Donor Constraint Scale." *Sport Management Review* 13.3 (2010): 183-295.

Drayer, J., S. Shapiro, B. Dwyer, A. Morse, and J. White. "The effects of fantasy football participation on NFL consumption: A qualitative analysis." *Sport Management Review* 13.2 (2010): 129-141.

Shapiro, S., J. Drayer, B. Dwyer, and A.L. Morse. "Punching a Ticket to the Big Dance: A Critical Analysis of At-Large Selection Into the NCAA Division I Men's Basketball Tournament." *Journal of Issues in Intercollegiate Athletics* 2 (2009): 46-63.

Swain, D.P. "Exercise equipment: Assessing the advertised claims." *ACSM's Health & Fitness Journal* 13.5 (2009): 8-11.

Van Lunen, B.L. see M.L. Walker, School of Physical Therapy, College of Health Sciences.

Zhu, X. "Situational interest, cognitive engagement, and achievement in physical education." *Contemporary Educational Psychology* 34.3 (2009): 221-229.

Zhu, X., A. Chen, H. Sun, C.D. Ennis. "Content specificity and expectancy-value contribution to student learning." *Research Quarterly for Exercise and Sport* 81 (2010): A79-80.

Zhu, X. and A. Palla-Kane. "Examining student teacher's reflection practice during practicum." *Research Quarterly for Exercise and Sport* 81 (2010): A79.

5.3.3 Annual Report FY 2010

Zhu, X. "Measurement invariance of expectancy-value questionnaire in physical education." *Research Quarterly for Exercise and Sport* 80 (2009): A25.

Zhu, X. "Students' motivation and learning in physical education and outside activity." *Research Quarterly for Exercise and Sport* 80 (2009): A77-78.

STEM Education and Professional Studies

Davis, S.R., and D.L. Netherton. "Teaching Fashion Merchandising Students to Consider Consumers Unlike Themselves." *Iota Lambda Sigma Journal for Workforce Development* 1.1 (2008): 25-29.

Stewart, C.O., D.L. Dickerson, and R. Hotchkiss. "Beliefs about science and news frames in audience evaluations of embryonic and adult stem cell research." *Science Communication* 30.4 (2009): 427-452.

Katsioloudis, P. "Understanding Materials." *The Technology Teacher* 69.8 (2010): 5-11.

Katsioloudis, P. "Green Ships: Keeping the Oceans Blue." *The Technology Teacher Journal* 69.5 (2009): 5-9.

Katsioloudis, P. "Transportation of the Future: Understanding Port Logistics." *The Technology Teacher* 69.1 (2009): 7-10.

Kosloski, Jr., M.F., and P.A. Reed. "Determining return on investment for professional development in public education: A model." *The Online Journal for Workforce Education and Development* IV.1 (2010). journalforworkforceeducation.org/.

Kosloski, Jr., M.F. "Tough Choices for Tough Times: The Report of the New Commission on the Skills of the American Workforce." *Iota Lambda Sigma Journal for Workforce Education*, 1.3 (2009): 12-15.

Machado, T., D.L. Netherton. "The Relationship Between Dress and Perceptions of Socio-Economic Status." *Iota Lambda Sigma Journal for Workforce Education*, 1.3 (2009). www.lions.odu.edu/~dnethert/ils/JWEd.htm

McKinney, S.E., S. Chappell, R.Q. Berry, and H. Bythella. "An examination of the instructional practices of elementary mathematics teachers in urban schools." *Preventing School Failure* 53.4 (2009): 278-284.

Ross, S.M., G.R. Morrison, D.L. Lowther. "Educational technology research past and present: Balancing rigor and relevance to impact school learning." *Contemporary Educational Journal* 1.1 (2010). <http://www.cedtech.net/>.

Machado, T., D.L. Netherton. "The Relationship Between Dress and Perceptions of Socio-Economic Status." *Iota Lambda Sigma Journal for Workforce Education* 1.3 (2009). www.lions.odu.edu/~dnethert/ils/JWEd.htm.

Hsiung, S.C., J.E. Eiland, J.R. Hackworth, and J. Ritz. "Designing a Microcontroller Training Platform for Active Distance Learning Engineering and Technology Students." *Journal of Engineering Technology* 26.2 (2009): 34-44.

Ritz, John. see Steve Hsiung, Engineering Technology, College of Engineering.

Frillman, S., K. Wilde, J. Kochert, S. Homan, and C. Tomovic. "Entry-level engineering professionals and product lifecycle management: A competency model." *International Journal of Manufacturing Technology and Management* 19.3-4 (2010): 306-311.

Tomovic, C., L.B. Ncube, A.A. Walson, and M.M. Grieves. "Development of product lifecycle metrics: Measuring the impact of PLM." *International Journal of Manufacturing Technology and Management* 19.3-4 (2010): 167-179.

Barreto, V., H. Anderson, A. Anglin, and C. Tomovic. "Product lifecycle management in support of green manufacturing: Addressing the challenges of global climate change." *International Journal of Manufacturing Technology and Management* 19.3-4 (2010): 294-305.

Lech, M.B., T.J. Georgiades, J.E. Sukup, and C. Tomovic. "The impact of product lifecycle management on virtual team creation: A Concept Change Model for Heightened Productivity." *International Journal of Manufacturing Technology and Management* 19.3-4 (2010): 279-293.

Teaching and Learning

Al-Hazza, T.C., and K. Bucher. "Crossing the cultural divide: Promoting understanding." *Middle School Journal* 41.3 (2010): 4-11.

Boltz, R., A. Church, R.E. Franklin, G. Dickinson, and C.A. Doll. "Voices from the Ivory Tower." *Knowledge Quest* 38.5 (2010): 34-39.

Dickinson, G.K., and M.A. Mardis. "Far Away, So Close: Preservice School Library Media Specialists' Perceptions of AASL's Standards for the 21st Century Learner." *School Library Media Research* 12 (2010). <http://www.ala.org/ala/mgrps/divs/aasl/aaslpubsandjournals/slmrb/slmrcontents/volume12/contents.cfm>

Oboler, E., A. Gupta. "Emerging Theoretical Models of Reading through Authentic Assessments among Preservice Teachers: Two Case Studies." *Reading Matrix* 10.1 (2010): 79-95.

5.3.3 Annual Report FY 2010

Gupta, A. "I don't know nothing about teaching students who use double negatives: The big grammar use questions for teachers." *Labyrinth: The literary journal of post modernism* 1.1 (2010): 81-88.

Lee, G.-L., D. Myers, and K.J. Kim. "Kindergarten Teachers' Professional Training and Their Social Status in Korea." *Journal of Early Childhood Teacher Education* 30.3 (2009): 263-271.

Lucking, R., and E. Christmann. "New technological boundaries rooted in telephony." *Science Scope* 34.2 (2010): 4.

Lucking, R., E. Christmann. "Podcasts and blogs." *Science Scope* 33.3 (2009): 4.

Lucking, R., and S. Xiao. "The Impact of Two Types of Peer Assessment on Students' Performance and Satisfaction within a Wiki Environment." *The Internet and Higher Education*, 11 (2009): 186-193.

Manning, M.L. see R.A. Gable, Communication Disorders and Special Education, College of Education.

Lu, R., and R.C. Overbaugh. "School environment and technology implementation." *Computers in the Schools* 26.3 (2009): 89-106.

Overbaugh, R.C., and R. Lu. "The impact of a federally funded grant on a professional development program: Teacher's stages of concern toward technology integration." *Journal of Computing in Teacher Education* 25.2 (2009): 45-55.

Suh, Y., M. Yurita, and S. Metzger. "What do we want students to remember about the 'Forgotten War'? A comparative study of Japan, Korea, and U.S high school history textbook accounts on the Korean War." *International Journal of Social Education* 23.1 (2010): 51-75.

Frank Batten College of Engineering and Technology

Applied Research Center

Cao, Wei and Hani E. Elsayed-Ali. "Stability of Ag nanoparticles fabricated by electron beam lithography." *Materials Letters* 63 (2009): 2263-2266.

Hafez, M.A. and H.E. Elsayed-Ali. "Low-temperature growth of InN on Si(100) by femtosecond pulsed laser deposition." *Journal of Vacuum Science & Technology A: Vacuum, Surfaces and Films* 27.4 (2009): 696-699.

Hafez, M.A. and H.E. Elsayed-Ali. "Low-temperature growth of InN on Si(100) by femtosecond pulsed laser deposition." *Virtual Journal of Ultrafast Science* 8.7 (2009).

Y. Song, P. Nallathamby, T. Huang, H. Elsayed-Ali, and X. Xu. "Correlation and Characterization of three-dimensional morphologically dependent localized surface plasmon resonance spectra of single silver nanoparticles using dark-field optical microscopy and spectroscopy and atomic force microscopy." *Journal of Physical Chemistry C* 114 (2010): 74-81.

Gu, Diefeng, Helmut Baumgart, Tarek M. Abdel-Fattah, and Gon Namkoong. "Synthesis of Nested Coaxial Multiple Walled Nanotubes by Atomic Layer Deposition." *ACS Nano* 4.2 (2010): 753-758.

Gu, Diefeng, Helmut Baumgart, Konstantin K. Bourdelle, George K. Celler, and A.A. Elmustafa. "Nanomechanical Response of the Si Lattice to Hydrogen Implantation and Annealing for Layer Splitting." *Japanese Journal of Applied Physics* 48 (2009): 101202.

Aerospace Engineering

Zuckerwar, A.J. and R.L. Ash. "Volume Viscosity in Fluids with Multiple Dissipative Processes." *Physics of Fluids* 21 (March 2009).

Yalcin, S.E., S.Y. Lee, S.W. Joo, O. Baysal, and S. Qian. "Electrodiffusiophoretic motion of a charged spherical particle in a nanopore." *Journal of Physical Chemistry B* 114 (2010): 4082-4093.

Lee, S.Y., S.E. Yalcin, S.W. Joo, O. Baysal, and S. Qian. "Diffusiophoretic motion of a charged spherical particle in a nanopore." *Journal of Physical Chemistry B* 114 (2010): 6437-6446.

Lee, S.Y., S.E. Yalcin, S.W. Joo, A. Sharma, O. Baysal, and S. Qian. "The effect of axial concentration gradient on electrophoretic motion of a charged spherical particle in a nanopore." *Microgravity-Science and Technology* 22.3 (2010): 329-338.

Pehlivanoglu, V. and O. Baysal. "Vibrational Genetic Algorithm Enhanced With Fuzzy Logic and Neural Networks." *Aerospace Science and Technology* 14.1 (2010): 56-64.

Koklu, M. and O. Baysal. "Performance Evaluation of a Micro-Synthetic Jet via its Generated Vortices." *Micro and Nanosystems* 1.2 (2009): 147-162.

Beskok, A. see Michael W. Stacey, Frank Reidy Research Center for Bioelectrics.

Beskok, A. see R.P. Joshi, Electrical and Computer Engineering, College of Engineering.

Ai, Y., A. Beskok, D.T. Gauthier, S.W. Joo, and S. Qian. "DC Electrokinetic Transport of Cylindrical Cells in Straight Microchannels." *Biomicrofluidics* 3 (2009): 044110.

5.3.3 Annual Report FY 2010

- Ai, Y., **A. Beskok**, D.T. Gauthier, S.W. Joo and **S. Qian**. "DC Electrokinetic Transport of Cylindrical Cells in Straight Microchannels." *Virtual Journal of Biological Physics Research* 8.11 (2009): 2303-2310.
- Kim, H.J. and **A. Beskok**. "Numerical Modeling of Chaotic Mixing in Electroosmotically Stirred Continuous Flow Mixers." *ASME Journal of Heat Transfer* 131.9 (2009): 092403.
- Park S., M. Koklu and **A. Beskok**. "Particle Trapping in High Conductivity Media with Electrothermally Enhanced Negative Dielectrophoresis." *Analytical Chemistry* 81.6 (2009): 2303-2310.
- Celik, B. and **A. Beskok**. "Mixing Induced by a Transversely Oscillating Circular Cylinder in a Straight Channel." *Physics of Fluids* 21 (2009): 073601.
- Kim, B. and **A. Beskok**, and T. Cagin. "Viscous Heating in Nanoscale Shear Driven Liquid Flows." *Microfluidics and Nanofluidics* 9.2 (2009): 31-40.
- Kim, B.H. and **A. Beskok**. "Viscous Heating in Nanoscale Shear Driven Flows." *Bulletin of American Physical Society Division of Fluid Dynamics* 54.19 (2009): 235.
- Barisik, M., B.H. Kim and **A. Beskok**. "Molecular Dynamics Simulations of Nanoscale Gas Flows." *Bulletin of American Physical Society Division of Fluid Dynamics* 54.19 (2009): 190.
- Lui, X., **A. Beskok**, and G.E. Karniadakis. "Modeling Electrophoresis of Microtubules in Microchannels." *Bulletin of American Physical Society Division of Fluid Dynamics* 54.19 (2009): 150.
- Ai, Y., A. Park, J. Zhu, X. Xuan, **A. Beskok**, and **S. Qian**. "DC electrokinetic particle transport in an L-shaped Microchannel." *Langmuir* 26 (2010): 2937-2944.
- Celik, B., M. Raisee, and **A. Beskok**. "Heat transfer enhancement in a slot channel via a transversely oscillating adiabatic circular cylinder." *International Journal of Heat and Mass Transfer* 53 (2010): 626-634.
- Barisik, M., B. Kim, and **A. Beskok**. "Smart Wall Model for Molecular Dynamics Simulations of Nanoscale Gas Flows." *Communications in Computational Physics* 7.5 (2010): 977-993.
- Mokhtar, W. and **C.P. Britcher**. "Boundary Interference of High Blockage Models in Open-Jet Test Sections." *SAE International Journal of Passenger Cars - Mechanical Systems* (April 2009): 883-895.
- Hill G., **O. Kandil** and A. Hahn. "Aerodynamic Investigations of an Advanced Over-the-Wing Nacelle Transport Aircraft Configuration." *AIAA Journal of Aircraft* 46.1 (2009): 25-35.
- Patrick Boland, **Keejoo Lee**, and **Gon Namkoong**. "Device Optimization in PCPDTBT:PCBM Plastic Solar Cells." *Solar Energy Materials and Solar Cells* 84 (2010): 915-920.
- Newman, B.** and A. Omran. "Piecewise Global Volterra Nonlinear Modeling and Characterization for Aircraft Dynamics." *Journal of Guidance, Control, and Dynamics* 32.3 (May/June 2009): 749-759.
- Qian, S.** see Michael W. Stacey, Frank Reidy Research Center for Bioelectrics.
- Sabuncu, Ahmet C., Bhargava S. Kalluri, **Shizhi Qian**, **Michael W. Stacey**, and **Ali Beskok**. "Dispersion state and toxicity of mwCNTs in cell culture medium with different T80 concentrations." *Colloids and Surfaces B: Biointerfaces* 78 (2010): 36-43.
- Choi, W.S., A. Sharma, **S. Qian**, G. Lim, and S.W. Joo. "Are free surfaces free in micro-scale electrokinetic flows?" *Journal of Colloid and Interface Science* 347 (2010): 153-155.
- Bandyopadhyay, D., A. Sharma, S.W. Joo, and **S. Qian**. "Self-organized micropatterning of thin viscous bilayers under microgravity." *Microgravity-Science and Technology* 22.3 (2010): 273-282.
- Subuncu, A.C., B.S. Kalluri, **S. Qian**, M.W. Stacey, and A. Beskok. "Dispersion state and toxicity of mwCNTs in cell culture medium with different T80 concentrations." *Colloids and Surfaces B: Biointerfaces* 78 (2010): 36-43.
- Ai, Y., M. Zhang, S.W. Joo, M.A. Cheney, and **S. Qian**. "Effects of electroosmotic flow on ionic current rectification in conical Nanopores." *Journal of Physical Chemistry C* 114 (2010): 3883-3890.
- Duval, J.F.L. and **S. Qian**. "Metal Speciation Dynamics in Dispersion of Soft Colloidal Ligand Particles under Steady-state Laminar Flow Condition." *Journal of Physical Chemistry A* 113 (2009): 12791-12804.
- Hou, W.S., X.Y. Wu, J. Zheng, L. Ma, X.L. Zheng, Y.T. Jiang, D.D. Yang, **S. Qian** and C.L. Peng. "Characterization of Finger Isometric Force Production with Maximum Power of Surface Electromyography." *Biomedical Engineering-Applications Basis Communications* 21 (2009): 193-199.
- Ai, Y., S.W. Joo, Y. Jiang, X. Xuan and **S. Qian**. "Transient Electrophoretic Motion of a Charged Particle through a Converging-diverging Microchannel: Effect of Direct Current-dielectrophoretic Force." *Electrophoresis* 30 (2009): 2499-2506.
- Cheney, M.A., R. Jose, A. Banerjee, P.K. Bhowmil, **S. Qian** and J.M. Okoh. "Synthesis and Characterization of Birnessite and Cryptomelane Nanostructures in

5.3.3 Annual Report FY 2010

Presence of Hoffmeister Anions.” *Journal of Nanomaterials* (2009).

Ai, Y., S.W. Joo, Y. Jiang, X. Xuan and S. Qian. “Pressure-driven Transport of Particles through a Converging-diverging Microchannel.” *BioMicrofluidics* 3 (2009): 022404.

Ai, Y., S.W. Joo, Y. Jiang, X. Xuan and S. Qian. “Pressure-driven Transport of Particles through a Converging-diverging Microchannel,” *Virtual Journal of Biological Physics Research* 17.9 (2009).

Panta, Y.M., J. Liu, M.A. Cheney, S.W. Joo and S. Qian. “Ultra-sensitive Detection of Mercury (II) Ions using Electrochemical Surface Plasmon Resonance with Magnetohydrodynamic Convection.” *Journal of Colloid and Interface Science* 333 (2009): 485-490.

Qian, S., S.W. Joo, Y. Ai, M.A. Cheney and W. Hou. “The Effect of Linear Surface-charge Non-uniformities on the Ionic-current Rectification in Conical Nanopores.” *Journal of Colloid and Interface Science* 329 (2009): 376-383.

Cheney, M.A., S. Qian, A. Amei, X. Zhao and S.W. Joo. “A Comparative Study on the Uptake of Polycyclic Aromatic Hydrocarbons by Anodonta Californiensis.” *Environmental Pollution* 157 (2009): 601-608.

Qian, S., S.W. Joo, Y. Jiang and M.A. Cheney. “Free-surface Problems in Electrokinetic Micro- and Nanofluidics.” *Mechanics Research Communications* 36 (2009): 82-91.

Qian, S. and H.H. Bau. “Magnetohydrodynamics-based Microfluidics.” *Mechanics Research Communications* 36 (2009): 10-21.

Ai, Y., S. Qian, S. Liu, and S.W. Joo. “Dielectrophoretic choking phenomenon in a converging-diverging Microchannel.” *Biomicrofluidics* 4 (2010): 013201.

Ai, Y., S. Qian, S. Liu, and S.W. Joo. “Dielectrophoretic choking phenomenon in a converging-diverging Microchannel.” *Virtual Journal of Biological Physics Research* 19.2 (2010).

Panta, Y.M., D.E. Farmer, P. Johnson, M.A. Cheney, and S. Qian. “Preparation of alpha sources using magnetohydrodynamic electrodeposition for radionuclide metrology.” *Journal of Colloid and Interface Science* 342 (2010): 128-134.

Civil & Environmental Engineering

Akan, A.O. “Design Aid for Water Quality Detention Basins.” *Journal of Hydrologic Engineering*, ASCE 15.1 (2010): 39-48.

Holguín-Veras, J. and M. Cetin. “Optimal Tolls for Multi-Class Traffic: Analytical Formulations and Policy Implications,” *Transportation Research Part A. Policy and Practice* Vol. 43, No 4, 445-467, 2009.

Comert, G. and M. Cetin. “Queue Length Estimation from Probe Vehicle Location and the Impacts of Sample Size.” *European Journal of Operational Research* 197 (2009): 196-202.

Cetin, M. and A.P. Nichols. “Improving the Accuracy of Vehicle Reidentification Algorithms by Solving the Assignment Problem.” *Transportation Research Record* 2129 (2010): 1-8.

Fan, Y. and A. Khattak. “Does urban form matter in solo and joint activity engagement?” *Landscape and Urban Planning* 92.3-4 (2009): 199-209.

Cho, G., D. Rodriguez, and A. Khattak. “What is the role of the built environment in explaining relationships between perceived and actual pedestrian safety?” *Accident Analysis & Prevention* 41.4 (2009): 692-702.

Khattak, A., X. Wang, and H. Zhang. “Are incident durations and secondary incident occurrence interdependent?” *Transportation Research Record: Journal of the Transportation Research Board* 2099 (2009): 39-49.

Wang, X., A. Khattak, Y. Fan. “The role of dynamic information in supporting travel behavior changes: Two-stage process of travel decision,” *Transportation Research Record: Journal of the Transportation Research Board* 2138, Washington, D.C., (2009): 85-93.

Hu, H., W. Williams, N. Rouphail, A. Khattak, and X. Zhou. “Modeling the role of transportation information in mitigating major capacity reductions in a regional network,” *Forthcoming in Transportation Research Record: Journal of the Transportation Research Board* 2138, Washington, D.C., (2009): 75-84.

Al-Deek, H., S. Venkata, J. Flick, and A. Khattak. “Dynamic message sign deployment and diversion behavior of travelers on Central Florida toll roads.” *Transportation Research Record: Journal of the Transportation Research Board* 2129 (2009): 24-34.

Razzaq, Z., M.B. Sirjani, and R. Prabhakaran. “LRFD Approach for FRP Channel Section Columns.” *Journal of Reinforced Plastics and Composites* 28.12 (2009): 1409-1415.

Razzaq, Z., M.A.E. Dabbagh, M.B. Sirjani, and R. Prabhakaran. “Concrete Slabs Reinforced with FRP or Steel Reinforcement.” *Journal of Reinforced Plastics and Composites* 28.9 (2009): 1111-1121.

5.3.3 Annual Report FY 2010

Haddock, R.C. and **Z. Razzaq**. "Calculating Bending Stresses in an Unsymmetrical Hybrid Beam." *Practice Periodical and Structural Design and Construction* 14.4 (2009): 214-218.

Razzaq, Z., H. Coskun, X. Li, R. Beach, and **R. Prabhakaran**. "LRFD Approach for FRP- Reinforced Thermoplastic Beams." *Journal of Reinforced Plastics and Composites* 28.22 (2009): 2749-2759.

Electrical & Computer Engineering

Namkoong, Gon, Sa Huang, Michael Moseley, and W. Alan Doolittle. "In-plane anisotropic strain of elastically and plastically deformed III-nitrides on lithium gallate." *Thin Solid Films* 517 (2009): 6508-6511.

Namkoong, Gon, Elaissa Trybus, Maurice C-K. Cheung, W. Alan Doolittle, Alexander N. Cartwright, Will Fenwick, Ian Ferguson, Tae-Yeon Seong, and Jeff Nause. "Dual Color Emission in Hybrid III-Nitride/ZnO Light Emitting Diodes." *Applied Physics Express* 3 (2010): 022101.

Hameed, Faheed, Octavia A. Dobre, and **Dimitrie C. Popescu**. "On the Likelihood-Based Approach to Modulation Classification." *IEEE Transactions on Wireless Communications* 8.12 (2009): 5884-5892.

Song, M. and **F. Cuckov**. "A Mobility-Aware General-Purpose Vehicular Ad-Hoc Network Clustering Scheme." *Journal of Information Science and Engineering* 26.3 (2010): 897-911.

Wadhwa, M., C. Xin, **M. Song**, and E.K. Park. "Throughput Analysis for a Contention Based Dynamic Spectrum Sharing Model." *IEEE Transactions on Wireless Communications* 9.4 (2010): 1426-1433.

Zhu, W. and **M. Song**. "Performance Analysis of Large Multicast Packet Switches with Multiple Input Queues and Gathered Trac." *Computer Communications* 33.7 (2010): 803-815.

Shetty, S., **M. Song**, H. Yang, and M. Mathews. "Learning Bayesian Network over Distributed Databases Using Majority-based Method." *Journal of Computational Methods in Science and Engineering* 9 (2009): S53-S68.

Yepez, J., G. Vahala, **L. Vahala** and M. Soe. "Twisting of filamentary vortex solitons demarcated by fast Poincare recursion." *SPIE, Quantum Information and Computation VIII* 7432 (2009): 7432M.

Vahala, G., J. Yepez, **L. Vahala**, M. Soe and S. Ziegeler. "Poincare recurrence and intermittent destruction of the quantum Kelvin wave cascade in quantum turbulence." *SPIE, Quantum Information and Computation VIII* 7702 (2010): 77028.

Yepez, J., G. Vahala, **L. Vahala** and M. Soe. "Superfluid Turbulence from Quantum Kelvin Wave to Classical Kolmogorov Cascades." *Physical Review Letters* 103 (2009): 084501.

Preinhaelter, J., H.P. Laqua, J. Urban, **L. Vahala** and G. Vahala. "EBW power deposition and current drive in WEGA - comparison of simulation with experiment." *Plasma Physics and Controlled Fusion* 51 (2009): 125008.

Xiao, S., **R.P. Joshi**, **J.F. Kolb**, and **K.H. Schoenbach**. "Nanosecond, Electrical Triggering of Water Switches." *IEEE Transactions on Dielectrics and Electrical Insulation* 16.4 (2009): 1066-1075.

Xiao, Shu, Serhat Altunc, Prashanth Kumar, Carl E. Baum, and **Karl H. Schoenbach**. "A reflector antenna for focusing in the near field." *IEEE Antennas and Wireless Propagation Letters* 9 (2010): 12-15.

Engineering Management & Systems Engineering

Bowling, S.R., M.T. Khasawneh, S. Kaewkuekool, and B.R. Cho. "A Logistic Approximation to the Cumulative Normal Distribution." *International Journal of Industrial Engineering and Management* 2.1 (2009): 114-127.

Shamseldin, R.A., and **S.R. Bowling**. "Statistical Network Optimization of Dynamically Complex Systems." *International Journal Experimental Design and Process Optimisation* 1.1(2009): 79-103.

Deller, Sean T., Michael I. Bell, **Shannon R. Bowling**, **Ghaith A. Rabadi**, and **Andreas Tolk**. "Applying the Information Age Combat Model: Quantitative Analysis of Network Centric Operations." *International Journal Command and Control* 3.1 (2009).

Gheorghe, Adrian, and Dan Vamanu. "Urban Vulnerabilities: Think Simple." *International Journal Critical Infrastructures* 6.3 (2010).

Gheorghe, Adrian and Marcelo Masera. "Infranomics." *International Journal Critical Infrastructures*, vol 6, issue 4, 2010

Brewer, Van and **Adrian Gheorghe**. "Forensic Complexity." *International Journal System of Systems Engineering* 2.1 (2010).

Gheorghe, Adrian et al. "Evidential Reasoning Models for Environmental Risk Assessment." *Buletinul Universitatea Politehnica Bucuresti* (2010).

Hester, Patrick T. and **Andreas Tolk**. "Using Lanchester Equations for Sequential Battle Prediction Enabling Better Military Decision Support."

5.3.3 Annual Report FY 2010

International Journal of Intelligent Defense Support Systems 2.2 (2009): 76-90.

Hester, P., K. Adams, K., and S. Mahadevan. "Examining metrics and methods for determining critical facility system effectiveness." *International Journal of Critical Infrastructures* 6.3 (2009): 211-224.

Kady, R., S. Gwynne, and J. Davis. "The incorporation and validation of empirical crawling data into the building EXODUS model." *Safety Science* 47 (2009): 97-104.

Kady, R. and J. Davis. "The effect of occupant characteristics on crawling speed in evacuation." *Fire Safety Journal* 44 (2009): 451-457.

Kady, R. and J. Davis. "The impact of exit route designs on evacuation time for crawling occupants." *Journal of Fire Sciences*, 27.5 (2009): 481-493.

Keating, C., G. Rabadi, R. Landeata, and S.R. Bowling. "System of Systems Engineering for Border Security and Immigration: Methodologies, Processes, & Tools." *International Journal of System of Systems Engineering* 1.4 (2009): 414-444.

Landaeta, Rafael, C. Ariel Pinto, and Timothy Kotnour. "Assessing faulty knowledge management systems in project-based organizations." *The International Journal of Knowledge and Learning* 5.2. (2009): 122-143.

Pinto, C. Ariel and Ipek Bozkurt. "Rapid Sensor Technology: A Risk and System Complexity Analyses of Early Detection of Influenza-Like-Illnesses." *Journal of Homeland Security and Emergency Management*: 6.1 (2009): Article 86.

Deller, S.T., M.I. Bell, G.A. Rabadi, A. Tolk, and S.R. Bowling. "Applying the Information Age Combat Model." *The International C2 Journal* 3.1 (2009): 1-25.

Tolk, Andreas, and Robert D. Aaron. "Data Engineering for Data-Rich Integration Projects: Case Studies Addressing the Challenges of Knowledge Transfer." *Engineering Management Journal* 22.2 (2010).

Numrich, Susan K. and Andreas Tolk. "Challenges for Human, Social, Cultural, and Behavioral Modeling." *SCS M&S Magazine* 1.1 (2010).

Kewley, Robert H. and Andreas Tolk. "A Systems Engineering Process for Development of Federated Simulations." *M&S Journal* (December 2009): 18-26.

Engineering Technology

Polychronopoulos, E., J.C. Morris, S.B. Bondi, A. Polychronopoulou, and C. Nicholas. "An evaluation design for the smoke-free class competition program in Greece." *Athens Institute for Education and Research* 11 (2009): 337-348.

Hsuung, S. and A. Dean. "The Design and Implementation of Multiple Processors in Control of Multiple High Power DC Motors." *International Journal of Engineering Research and Innovation* 1.1 (2009).

Hsiung, Steve, John Ritz, Richard Jones and James Eiland. "Design and Evaluation of a Microcontroller Training System for Hands-on Distance and Campus-Based Classes." *Journal of Industrial Technology* 26.1 (2010): 2-8.

Hsiung, Steve, John Hackworth, John Ritz, and James Eiland. "Designing a Microcontroller Training Platform for Active Distance Learning Engineering and Technology Students." *Journal of Engineering Technology* 26.2 (2009): 34-44.

Lin, C., G. Hou, Y. Shen, and H. Garcia. "System Integration between Three-Dimensional -Motion Software and Hydraulic Stewart Simulator." *Journal of Engineering Technology* 54 (2009): 46-54.

Lin, C. and A. Verma. "Machine Design Using Spreadsheet Programs." *International Journal of Advanced Manufacturing Systems* 11.2 (2009): 17-21.

Ringleb, Stacie. see M. Walker, School of Physical Therapy, College of Health Sciences.

Lin, C. and A. Verma. "Agile Modeling and Optimization of End Milling." *The Journal of Advanced Manufacturing Systems* 11.2 (2009): 17-21.

Lin, C., and A. Verma. "Machine Design Using Spreadsheet Programs," *International Journal of Advanced Manufacturing Systems*, 11.2 (2009): 17-21.

Verma, A., M. Talaiver, S. McKinney, D. Dickerson, and D. Chen. "MarineTech Project - Attracting Students towards Math and Science Careers in Shipbuilding and Repair Industry." *Journal of Ship Production* 26.1 (2010).

Erande, A. and A. Verma. "Comprehensive Agility Measurement Tool." *The Journal of Advanced Manufacturing Systems* 11.2 (2009): 37-42.

Raj, Hans, R.S. Sharma, V. Upadhya, and A. Verma. "Agile Modeling and Optimization of End Milling." *The Journal of Advanced Manufacturing Systems* 8.1 (2009): 71-80.

5.3.3 Annual Report FY 2010

Zhou, G. and Ming Xie. "GIS-based Three-dimensional Morphologic Analysis of Assateague Island National Seashore from LIDAR Series Datasets." *Journal of Coastal Research* 25.2 (2009): 435-447.

Wang, H., W. Zhang, G. Zhou, G. Yan and N. Clinton. "Image-based 3D Corn Reconstruction for Retrieval of Geometrical Structural Parameters." *International Journal of Remote Sensing* 30.20 (2009): 5505-5513.

Ren, Z., M. Cen, and G. Zhou. "Building Extraction from LIDAR Data Based on Shape Analysis of Contours." *Journal Of Southwest Jiaotong University* 1 (2009): 222-229.

Ren, Z., M. Cen, and G. Zhou. "Filtering method of LIDAR data based on contours." *Journal of Remote Sensing* 13.1 (2009): 55-62.

Zhang, Q., M. Cen, and Guoqing Zhou. "Extraction of trees in urban from LIDAR." *Journal of Surveying and Mapping (Acta, Geodaetica et Cartographica Sinica)* 38.4 (2009): 330-335.

Mechanical Engineering

Kalmegh, M., S. Bawab, and S. Ringleb. "Development of a Portable Hardware to Measure Material Stiffness Characteristics." *International Journal of Advanced Manufacturing Systems* 11.2 (2009).

Demuren, A. and H. Grotjans. "Buoyancy-Driven Flows—Beyond the Boussinesq Approximation." *Numerical Heat Transfer Part B* 56 (2009): 1-22.

Elmustafa, A.A. see H. Baumgart, Civil and Environmental Engineering, College of Engineering.

Hou, G. see C. Lin, Engineering Technology, College of Engineering.

Floersheim, R.B., G. Hou, and K. Firestone. "CFPC Material Characteristics and SLS Prototyping Process." *Rapid Prototyping Journal* 15.5 (2009): 339-345.

Dolinskaya, I.S., M. Kotinis, M.G. Parsons, and R.L. Smith. "Optimal Short-Range Routing of Vessels in a Seaway." *Journal of Ship Research* 53.3 (2009): 121-129.

Ringleb, S.I., T. Armstrong, L. Berglund, H. Kitaoka and K.R. Kaufman. "Stiffness of the Arizona Ankle Foot Orthosis Before and After Modification for Gait Analysis." *Journal of Prosthetics and Orthotics* 21.4 (2009): 204-207.

Walker M.L., S.I. Ringleb, G.C. Maihafer, R. Walker, J.R. Crouch, B. Van Lunen, and S. Morrison. "Virtual reality-enhanced partial body weight-supported treadmill training poststroke: feasibility and effectiveness in 6 subjects." *Archives of Physical Medicine and Rehabilitation* 91.1 (2010): 115-22.

College of Health Sciences

School of Community and Environmental Health

Peek-Asa, C., C. Casteel, V. Allareddy, M. Nocera, S. Goldmacher, E. Ohagan, J. Blando, D. Valiante, M. Gillen, and R. Harrison. "Workplace violence prevention programs in psychiatric units and facilities." *Archives of Psychiatric Nursing* 23.2 (2009): 166-176.

Casteel, C., C. Peek-Asa, M. Nocera, J.B. Smith, J. Blando, S. Goldmacher, E. O'Hagan, D. Valiante, R. Harrison. "Hospital employee assault rates before and after enactment of the California Hospital Safety and Security Act." *Annals of Epidemiology* 19.2 (2009): 125-133.

Heller, R., B.A. Boone, K.U. Ugen, S.I. Gografe, J.D. Burgos, M.K. Baldwin, Y. Cruz, M.J. Jaroszeski, and W.G. Marshall Jr. "Electrically mediated plasmid delivery to the porcine heart." *Molecular Therapy* 17 S1, S306 (2009): 798.

Jeng, J.A. "Chemical composition of ambient particulate matter and redox activity." *Environmental Monitoring and Assessment* (2009). DOI 10.1007/S10661-009.

Kim, Y. and J.A. Neff. "Direct and Indirect Effects of Parental Influence upon Adolescent Alcohol Use: A Structural Equation Modeling Analysis." *Journal of Child and Adolescent Substance Abuse* 19 (2010): 244-260.

Rudatsikira, E., A.S. Muula, and S. Siziya. "Current use of smokeless tobacco among adolescents in the Republic of Congo." *BMC Public Health* (2010): 10-16.

Rachotis, G., S. Siziya, A.S. Muula, E. Rudatsikira, P. Papastergiou, C. Hadjichristodoulou. "Determinants of exposure to environmental tobacco smoke (ETS) among nonsmoking adolescents (aged 11-17 years old) in Greece: Results from the 2004-2005 GYTS Study." *International Journal of Environmental Research and Public Health* 7 (2010): 284-290.

Zulu, R., S. Siziya, A.S. Muula, and E. Rudatsikira. "Associations of advertisement-promotion-sponsorship-related factors with current cigarette smoking among in-school adolescents in Zambia." *Annals of African Medicine* 8 (2009): 229-235.

Muula, A.S., P. Herring, S. Siziya, and E. Rudatsikira. "Bullying victimization and physical fighting among Venezuelan adolescents in Barinas: results from the Global School-Based Survey 2003." *Italian Journal of Pediatrics* (2009): 35-38.

Rudatsikira, E., A.S. Muula, and S. Siziya. "Exposure to environmental tobacco smoke among adolescents in Kampala-Uganda, 2002." *East African Journal of Public Health* 6.2 (2009) 197.

5.3.3 Annual Report FY 2010

Rudatsikira, E., A.S. Muula, and S. Siziya. "Prevalence, correlates of and perceptions toward cigarette smoking among in-school adolescents in South Korea." *Indian Journal of Pediatrics* 76.5 (2009): 505-10.

Job, J., A.S. Muula, S. Siziya, and **E. Rudatsikira.** "Adolescent tobacco use in Himachal Pradesh, India." *International Public Health Journal* 1 (2009): 59-65.

Rudatsikira, E., D. Maposa, Z. Mukandavire, A.S. Muula, and S. Siziya. "Prevalence and predictors of illicit drug use among school-going adolescents in Harare." *Annals of African Medicine* 8 (2009): 215-220.

Ntaganira, J., A.S. Muula, S. Siziya, C. Stoskopf, and **E. Rudatsikira.** "Factors associated with intimate partner violence among pregnant women in Rwanda." *Rural Remote Health* 9 (2009): 1153.

Szklo-Coxe, M., T. Young, P.E. Peppard, L. Finn, and R. Benca. "Prospective Associations of Insomnia Markers and Symptoms with Depression." *American Journal of Epidemiology* 171.6 (2010): 709-720.

Goldberg, R.J., F. Spencer, **M. Szklo-Coxe, M.** Tisminetzky, J. Yarzebski, D. Lessard, J.M. Gore, and W. Gaasch. "Symptom presentation in patients with acute heart failure: A community-wide perspective." *Clinical Cardiology* 33.6 (2010): E73-80.

Szklo-Coxe, M., L.A. Finn, P.E. Peppard, and T. Young. "Longitudinal Relationship of Insomnia To Subsequent Trait-Anxiety in the Wisconsin Sleep Cohort." *Sleep* 33 (2010): A202.

Teodorescu, M. and **M. Szklo-Coxe.** "Sleep well to stay safe: Ready for primetime? Commentary on Kling et al. Sleep problems and workplace injuries in Canada." *Sleep* 33.5 (2010): 577-578.

Whelan, Chad T., Peter Kaboli, **Qi Zhang,** Juned Siddique, Siqin Ye, and David O. Meltzer. "Upper Gastrointestinal Hemorrhage: Have New Therapeutics Made a Difference?" *Journal of Hospital Medicine* 4 (2009): E6-10.

Zhang, Qi, Youfa Wang, and Elbert S. Huang. "Trends in Racial and Socioeconomic Disparity in Type 2 Diabetes by Body Mass Index among U.S. Adults." *Ethnicity & Health* 14.5 (2009): 439-457.

Zhang, Qi, Diane Lauderdale, Shanshan Mou, William I. Parish, Edward O. Laumann, and John A. Schneider. "Socioeconomic Disparity in Health-Care Seeking Behavior among Chinese Women with Geritourinary Symptoms." *Journal of Women's Health* 18.11 (2009): 1833-1839.

Zhang, Qi. "Maternal Employment and Childhood Obesity among Immigrant Families." *North American Journal of Medicine and Science* 3.2 (2010): 89-93.

School of Dental Hygiene

Downs, J.Z., D. Shuman, R. Ratzlaff, and S. Stull. "Bisphenol A blood and saliva levels prior to and after dental sealant placement in adults. *Journal of Dental Hygiene* 84.3 (2010): 145-150.

Downs, J.Z., N.D. Lutins, D.W. Tybor. "Common eye disorders encountered in the dental office." *Dimensions of Dental Hygiene* 8.3 (2010): 48-51.

Johns, R.C. "Managing dentin hypersensitivity." *Dimensions of Dental Hygiene* 8.6 (2010): 56, 58, 60, 62.

McCombs, G.B., and M.L. Darby. "New discoveries and directions for medical, dental and dental hygiene research: low temperature atmospheric plasma." *International Journal of Dental Hygiene* 8.1 (2010): 10-15.

Neff, J.A., C. Lynch, and J. Downs. "Alcohol use, predisposing, enabling, and oral health need variables as predictors of preventive and emergency dental service use." *Substance Use & Misuse* 45.12 (2010): 1930-1947.

Tolle, S.L., and E.K. Simmons. "Maximizing protection." *Dimensions of Dental Hygiene* 8.3 (2010): 26-31.

Turner, L., **G.B. McCombs, W.L. Hynes, and S.L. Tolle.** "A novel approach to controlling bacterial contamination on toothbrushes: chlorhexidine coating." *International Journal of Dental Hygiene* 7.4 (2009): 241-245.

School of Medical Laboratory and Radiation Sciences

De Leo, G., C. Gonzales, P. Battagiri, and G. Leroy. "A Smart-Phone Application and a Companion Website for the Improvement of the Communication Skills of Children with Autism: Clinical Rationale, Technical Development and Preliminary Results." *Journal of Medical Systems* (2010).

Heller, L. see R. Heller, Center for Bioelectrics, Office of Research.

Heller, R. see Center for Bioelectrics, Office of Research.

Marshall, Jr., W.G., B.A. Boone, J.D. Burgos, S.I. Gografe, M.K. Baldwin, M.L. Danielson, M.J. Larson, D.R. Caretto, Y. Cruz, B. Ferraro, **L.C. Heller, K.E.**

5.3.3 Annual Report FY 2010

Ugen, M.J. Jaroszeski, and R. Heller. "Electroporation Mediated Delivery of a Naked DNA Plasmid Expressing VEGF to the Porcine Heart Enhances Protein Expression." *Gene Therapy* 17 (2010): 419-423.

Ferraro, B., Y.L. Cruz, D. Coppola, and R. Heller. "Intradermal Delivery of Plasmid VEGF₁₆₅ by Electroporation Promotes Wound Healing." *Molecular Therapy* 17.4 (2009): 651-657.

Mason, E., S.K. Thompson. "A Brief Overview of Crystalline Silica." *Chemical Health and Safety* 17.2 (2009).

Thompson, S.K., P. Hentosh, S. Thomas, K. Hill, and D.M. Peffley. "Chromatin-associated Protein Networks as Potential Biomarkers for Lung Adenocarcinoma." *Cancer Cytopathology* (2009).

Somma, C.T. see S.R. Colberg-Ochs, Human Movement Science, College of Education.

Sechrist, S.R. see S.R. Colberg-Ochs, Human Movement Science, College of Education

School of Nursing

Sharp, P., J. Salyer, and A. Best. "Self-efficacy and barriers to health-promoting behaviors in cardiac rehabilitation participants and non-participants." *Circulation* 120 (2009): S494.

Bennington, L.K. "Can complementary alternative medicine be used to treat infertility?" *Maternal Child Nursing* (2010): 140-147.

Hawkins, J.E. "Reflections of My Most Memorable Patient." *Nursing for Women's Health*, 14.2 (2010): 167-168.

Karlowicz, K.A. "Development and testing of a portfolio evaluation scoring tool." *Journal of Nursing Education* 49.2 (2010): 78-86.

Kratzke, C., L. Garzon, J. Lombard, K. Karlowicz. "Training community health workers: Factors that influence mammography use." *Journal of Community Health* (Prepublished online April 22, 2010): DOI:10.1007/s10900-010-9272-3.

Poston, R.D., and C.R. Buescher. "The essential role of the clinical research nurse (CRN)." *Urologic Nursing* 30.1 (2010): 55-63.

Bluestein, D.A., C.M. Rutledge, and A. Healey. "Psychosocial correlates of insomnia severity in primary care." *Journal of the American Board of Family Medicine* 23.2 (2010): 204-211.

Tufts, K.A., J.A. Wessell, and T. Kearney. "Self-care Choices of African American Women Living with HIV: A

Qualitative Perspective." *Journal of the Association of Nurses in AIDS Care* 21.1 (2010): 36-52.

Tufts, K.A., P.T. Clements, and J. Wessell. "When Intimate Partner Violence Against Women and HIV Collide: Challenges for Healthcare Assessment and Intervention." *Journal of Forensic Nursing* 6 (2010): 66-73.

School of Physical Therapy

Kott, K., K. Leshner, G. DeLeo. "Combining a virtual reality system with treadmill training for children with cerebral palsy." *Journal of Cybertherapy and Rehabilitation* 2.1 (2009): 35-42.

Morrison, S., S.R. Colberg, M. Mariano, H.K. Parson, and A.I. Vinik. "Balance Training Reduces Falls Risk in Older Individuals with Type 2 Diabetes." *Diabetes Care* 33.4 (2010): 748-750.

Keogh, J., S. Morrison, and R.S. Barrett. "Strength- and coordination-training are both effective in reducing the postural tremor amplitude of older adults." *Journal of Aging and Physical Activity* 18.1 (2010): 43-60.

Morrison, S. and J. Sosnoff. "Age-related Changes in the Adaptability of Neuromuscular Output." *Journal of Motor Behavior* 41 (2009): 274-283.

Morrison S., G. Kerr, K.M. Newell, and P.A.S. Silburn. "Differential Time- and Frequency-Dependent Structure of Postural Sway and Finger Tremor in Parkinson's disease." *Neuroscience Letters* 443 (2009): 123-128.

Morrison, S., L. Hong, and K.M. Newell. "Upper frequency limits of bilateral coordination patterns." *Neuroscience Letters* 454 (2009): 233-238.

Walker M.L., S.I. Ringleb, G.M. Maihafer, R. Walker, J.R. Crouch, B. Van Lunen, and S. Morrison. "Virtual reality-enhanced partial body weight-supported treadmill training post stroke: feasibility and effectiveness in 6 subjects." *Archives of Physical Medicine Rehabilitation* 91 (2010): 115-22.

College of Sciences

Biological Sciences

Bartol, I. K., P.S. Krueger, W.J. Stewart, and J.T. Thompson. "Hydrodynamics of pulsed jetting in juvenile and adult brief squid *Lolliguncula brevis*: evidence of multiple jet 'modes' and their implications for propulsive efficiency." *Journal of Experimental Biology* 212 (2009): 1889-1903.

Bartol, I. K., P.S. Krueger, W.J. Stewart, and J.T. Thompson. "Pulsed jet dynamics of squid hatchlings at intermediate Reynolds numbers." *Journal of Experimental Biology* 212 (2009): 1506-1518.

5.3.3 Annual Report FY 2010

- Stewart, W.J., **I.K. Bartol**, and P.S. Krueger. "Hydrodynamic fin function of brief squid *Lolliguncula brevis*." *Journal of Experimental Biology* 213 (2010): 2009-2024.
- Thompson, J.T., **I.K. Bartol**, A.E. Baksi, K.Y. Li, and P.S. Krueger. "The ontogeny of muscle structure and locomotory function in the long-finned squid *Doryteuthis pealeii*." *Journal of Experimental Biology* 213 (2010): 1079-1091.
- Behringer, D.C. and **M.J. Butler IV**. 2010. "Disease Avoidance and its Role in Shelter Competition and Predation in Caribbean Spiny Lobster." *Behavioral Ecology and Sociobiology* 64:747-755.
- Goldstein, J. and **M.J. Butler IV**. "Not all those who wander are lost: Phyllosoma behavior may help unravel connectivity in the Caribbean spiny lobster, *Panulirus argus*." *The Lobster Newsletter* 22.1 (2009): 9-12.
- Robertson, D.R. and **M.J. Butler IV**. 2009. Variable reproductive success in isolated populations of lobster. *Journal of Experimental Marine Biology and Ecology* 377: 84-92.
- Goldstein, J.S. and **M.J. Butler IV**. "Behavioral enhancement of onshore transport by postlarval Caribbean spiny lobster (*Panulirus argus*)." *Limnology and Oceanography* 54 (2009): 1669-1678.
- Butler IV, M.J.**, and J.A. Lear. "Habitat-based intraguild predation by Caribbean reef octopus (*Octopus briareus*) on juvenile Caribbean spiny lobster (*Panulirus argus*)." *Marine Ecology Progress Series* 386 (2009): 115-122.
- Steneck, R.S., M.C. Ablan, A. Alcala, S. Arnold, **M.J. Butler IV**, L. McCook, C. Paris, G. Russ and P.F. Sale. "Managing outside the box: coalescing connectivity networks to build resilience in coral reef ecosystems." *Coral Reefs* 28 (2009): 367-378
- Behringer, D.C., **M.J. Butler IV**, W.F. Herrnkind, J.H. Hunt, C.A. Acosta, and W.C. Sharp. "Is seagrass an important nursery habitat for the Caribbean spiny lobster, *Panulirus argus*, in Florida?" *New Zealand Journal of Marine and Freshwater Research* 43 (2009): 327-337.
- Bertelsen, R.D., **M.J. Butler IV**, W.F. Herrnkind, and J.H. Hunt. "Regional Characterization of Hard-bottom Nursery Habitat for Juvenile Caribbean Spiny Lobster Using Rapid Assessment Techniques." *New Zealand Journal of Marine and Freshwater Research* 43 (2009): 299-312.
- Polidoro, B.A., **K.E. Carpenter**, L. Collins, N.C. Duke, A.M. Ellison, J.C. Ellison, E.J. Farnsworth, E.S. Fernando, K.Kathiresan, N.E. Koedam, S.R. Livingstone, T. Miyagi, G.E. Moore, V.N. Nam, J.E. Ong, J.H. Primavera, S.G. Salmo III, J.C. Sanciangco, S. Sukardjo, Y. Wang, and J.W. Hong Yong. "The Loss of Species: Mangrove Extinction Risk and Geographic Areas of Global Concern." *PLoS One*. 5.4 (2010): 1-10.
- Butchart, S.H.M., M. Walpole, B. Collen, A. van Strien, J.P.W. Scharlemann, R.E.A. Almond, J.E.M. Baillie, B. Bomhard, C. Brown, J. Bruno, **K.E. Carpenter**, G.M. Carr, J. Chanson, A.M. Chenery, J. Csirke, N.C. Davidson, F. Dentener, M. Foster, A. Galli, J.N. Galloway, P. Genovesi, R.D. Gregory, M. Hockings, V. Kapos, J.-F. Lamarque, F. Leverington, J. Loh, M.A. McGeoch, L. McRae, A. Minasyan, M.H. Morcillo, T.E.E. Oldfield, D. Pauly, S. Quader, C. Revenga, J.R. Sauer, B. Skolnik, D. Spear, D. Stanwell-Smith, S.N. Stuart, A. Symes, M. Tierney, T.D. Tyrrell, J.-C. Vié, and R. Watson. "Global Biodiversity: Indicators of Recent Declines." *Science*. 328 (2010): 1164-1168.
- Hoetjes, P.C. and **K.E. Carpenter**. "Saving Saba Bank: Policy Implications of Biodiversity Studies." *PLoS One*. 5.5 (2010): e10676.
- Williams, J.T., **K.E. Carpenter**, J.L. Van Tassell, P. Hoetjes, W. Toller, P. Etnoyer and M. Smith. "Biodiversity Assessment of the Fishes of Saba Bank Atoll, Netherlands Antilles." *PLoS One* 5.5 (2010): e10769.
- Stover D.B., **F.P. Day**, B.G. Drake, and C.R. Hinkle. "The effects of elevated atmospheric CO₂ on fine root productivity, mortality, and survivorship in a scrub-oak ecosystem at Kennedy Space Center, Florida." *Environmental and Experimental Botany* 69 (2010): 214-222.
- Lyons, M.M., J.E. Ward, **H. Gaff**, R. Hicks, J. Drake, and F.C. Dobbs. "Theory of island biogeography on a microscopic scale: organic aggregates as islands for aquatic pathogens." *Aquatic Microbial Ecology* 60.1 (2010): doi:10.3354/ame01417.
- Gaff, H.**, E. Schaefer. "Optimal control applied to vaccination and treatment strategies for various epidemiological models." *Mathematical Biosciences and Engineering* 6 (2009): 469-492.
- Culver, D.C., **J.R. Holsinger**, M.C. Christman, and T. Pipan. "Morphological differences among eyeless amphipods in the genus *Stygobromus* dwelling in different subterranean habitats," *Journal of Crustacean Biology*, 30(1): 68-74, 2010.
- Sidorov, D.A., **J.R. Holsinger**, and V. Takhteev. "Two new species of the subterranean amphipod genus *Stygobromus* (Amphipoda: Crangonyctidae) from Siberia, with new data on *Stygobromus pusillus* (Martynov) and remarks on morphology and biogeographic relationships." *Zootaxa* 2478 (2010): 41-58.

5.3.3 Annual Report FY 2010

Niemiller, M.L., M.S. Osbourn, D.B. Fenolio, J.K. Pauley, B.T. Miller, and J.R. Holsinger. "Conservation status and habitat use of the West Virginia Spring Salamander (*Gyrinophilus subterraneus*) in General Davis Cave, Greenbrier Co., West Virginia." *Herpetological Conservation and Biology* 5.1 (2010): 32-43.

Hynes, W.L. see G.B. McCombs, School of Dental Hygiene, College of Health Sciences.

Hynes, W., C. Johnson and M. Stokes. "A single nucleotide mutation results in loss of enzymatic activity in the hyaluronate lyase gene of *Streptococcus pyogenes*." *Microbial Path.* 47 (2009): 308-313.

Marshall, H.G. and T.A. Egerton. "Phytoplankton blooms: Their occurrence and composition within Virginia's tidal tributaries." *Virginia Journal of Science* 60 (2009): 149-164.

Liu, F., Y.Y. Liao, W. Li, J.M. Chen, Q.F. Wang, and **T.J. Motley**. "The effect of pollination on resource allocation among sexual reproduction, clonal reproduction, and vegetative growth in *Sagittaria potamogetifolia* (Alismataceae)." *Ecological Research* 25.3 (2010): 495-499.

Zhang, X.-M., J. Wen, Z.-L. Dao, **T.J. Motley**, and C.-L. Long. "Genetic variation and conservation assessment of Chinese populations of *Magnolia cathcartii* (Magnoliaceae), a rare evergreen tree from the South-Central China Hotspot in the Eastern Himalayas." *Journal of Plant Research* 123.3 (2010): 321-331.

Sánchez-del Pino, I. and **T.J. Motley**. "Evolution of *Tidestromia* (Amaranthaceae) in the Deserts of the Southwestern United States and Mexico." *Taxon* 59 (2010): 38-48.

Wang, Y-H, J-M. Chen, C. Xu, X. Liu, Q-F. Wang, and **T.J. Motley**. "Population genetic structure of an aquatic herb *Batrachium bungei* (Ranunculaceae) in the Hengduan Mountains of China." *Aquatic Botany* 92 (2010): 221-225.

Neupane, S., S. Dessein, and **T.J. Motley**. "The *Hedyotis-Oldenlandia-Kohautia* complex (Rubiaceae) in Nepal: a study of fruit, seed and pollen characters and their taxonomic significance." *Edinburgh Journal of Botany* 66 (2009): 1-20.

Sánchez-del Pino, I., T. Borsch, and **T.J. Motley**. "*rpl16* and *trnL-F* sequence data reveal three major clades within the monophyletic Gomphrenoideae (Amaranthaceae)." *Systematic Botany* 34 (2009): 57-67.

Cortés-B, R., P.G. Delprete, and **T.J. Motley**. "Phylogenetic placement of the tribe Retiniophylleae

among the Subfamily Ixoroideae (Rubiaceae)." *Annals of the Missouri Botanical Garden* 96 (2009): 61-67.

Musselman, L.J. and M.S. Al Zein. "Isoetes *duriei* in Lebanon." *American Fern Journal* 99.4 (2010): 333-334.

Bolin, J.F, K.U. Tennakoon, E. Maass, and **L.J. Musselman**. "Host specific germination of the root holoparasite *Hydnora triceps* (Hydnoraceae)" *Botany* 87.12 (2010): 1250-1254

Bolin, J.F., E. Maass, and **L.J. Musselman**. "Pollination Biology of *Hydnora africana* Thunb. (Hydnoraceae) in Namibia: Brood-site Mimicry with Insect Imprisonment." *International Journal of Plant Science* 170 (2009): 157-163.

Osgood, C. see A. Pakhomov, Frank Reidy Center for Bioelectrics, Office of Research.

Pappas, J., A.D. Wolfson, W.-J. Jung, E.L. Oleszak, C.W. Helm, R.S. Freedman, A.Y. Tsygankov, and **C.D. Platsoucas**. "Differential Expression of CD3-Zeta Message and Protein in Tumor Infiltrating Lymphocytes (TIL) from Solid Tumor Specimens and Malignant Ascites from Patients with Ovarian Carcinoma." *Anticancer Research* 29 (2009): 4673-4682.

Ratzlaff, R.E. see D. Shuman, School of Dental Hygiene, College of Health Sciences.

Green, H.A. and **R.K. Rose**. "Growth and survival in a northern population of hispid cotton rats." *Journal of Mammalogy* 90 (2009): 851-858.

Swanson, R.J. see A. Pakhomov, Frank Reidy Center for Bioelectrics, Office of Research.

Swanson, R.J. see J.F. Kolb, Frank Reidy Center for Bioelectrics, Office of Research.

Chen, Xinhua, **R. James Swanson**, **Juergen F. Kolb**, Richard Nuccitelli, and **Karl H. Schoenbach**. "Histopathology of Normal Skin and Melanomas after Nanosecond Pulsed Electric Field Treatment." *Melanoma Research* 19 (2009): 361-371.

Simsek-Duran, F., F. Li, W. Ford, **R.J. Swanson**, H.W. Jones Jr., and F.J. Castora. "The effect of aging on the metabolic function and structure of mitochondria in Hamster oocytes." *FASEB Journal* 855 (2009): 10-16.

Vaamonde, D., M.E. Da Silva-Grigoletto, J.M.G. Manso, R.V. Lemos, **R.J. Swanson**, and S.C. Oehninger. "Response of Semen Parameters to Three Training Modalities." *Fertility and Sterility* 92.6 (2009): 1941-1946.

Anderson J.M., **D.E. Sonenshine** and J.G. Valenzuela. "Exploring the mialome of ticks: an annotated

5.3.3 Annual Report FY 2010

catalogue of midgut transcripts from the hard tick *Dermacentor variabilis* (Acari: Ixodidae)." *BMC Genomics* 9 (2009): 552.

Donohue, K.V., R.M. Roe, **D.E. Sonenshine**, E. Ross and R.D. Mitchell. "Male Engorgement factor: Role in stimulating engorgement to repletion in the ixodid tick, *Dermacentor variabilis*." *Journal of Insect Physiology* 55.10 (2009): 909-918.

Donohue, K.V., S.M. Khalil, E. Ross, C.M. Grozinger, **D.E. Sonenshine**, and R.M. Roe. "Gene expression of neuropeptides identified by pyrosequencing of the American Dog tick synganglion transcriptome during blood-feeding and reproduction." *Insect Biochemistry and Molecular Biology* 40.1 (2009): 79-90.

Donohue, K.V., S.M. Khalil, **D.E. Sonenshine** and R.M. Roe. "Heme-binding storage proteins in the Chelicerata." *Journal of Insect Physiology* 55 (2009): 287-296.

Cabrera, A.R., K.V. Donohue, S.M. Khalil, **D.E. Sonenshine** and R.M. Roe. "Characterization of vitellin protein in the twospotted spider mite, *Tetranychus urticae* (Acari: Tetranychidae)." *Journal of Insect Physiology* 55.7 (2009): 655-661.

Chemistry & Biochemistry

Bayse, C.A. "Model mechanisms of sulfhydryl oxidation by methyl- and benzeneseleninic acids, inhibitors of zinc-finger transcription factors." *Journal of Inorganic Biochemistry* 104 (2010): 1-8.

Antony, S. and **C.A. Bayse**. "Theoretical studies of active site models of the tungstoenzyme acetylene hydratase." *Organometallics* 28 (2009): 4938-4944.

Bayse, C.A. and S. Antony. "Theoretical studies of [2,3]-sigmatropic rearrangements of selenoxides and selenimides." *Molecules* 14 (2009): 3229-3236.

Bayse, C.A. and S. Antony. "Modeling the oxidation of ebselen and other organoselenium compounds using explicit solvent networks." *Journal of Physical Chemistry A* 113 (2009): 5780-5785.

Bayse, C.A. "Density-functional theory models of xanthine oxidoreductase activity: comparison of substrate tautomerization and protonation." *Dalton Transactions* (2009): 2306-2314.

Bayse, C.A., T.P. Brewster and R.D. Pike. "Photoluminescence of 1-D copper(I) cyanide chains: A theoretical description." *Inorganic Chemistry* 48 (2009) 174-182.

Jeffers, R.B. and **J.B. Cooper**. "FT-Surface-Enhanced Raman Scattering of Phenylalanine Using Silver-Coated Glass Fiber Filters." *Spectroscopy Letters* 43.3 (2010): 220-225.

E. Karakas, A. Munyanyi, **L. Greene** and M. Laroussi. "Destruction of α -synuclein based amyloid fibrils by a low temperature plasma jet." *Applied Physics Letters* 97 (2010): 143702.

Li, H. and **L.H. Greene**. "Sequence and structural analysis of the chitinase insertion domain reveals two conserved motifs involved in chitin-binding." *PLoS ONE* 13 (2010): e8654.

Higman, V.A., H.I. Rosner, R. Ugolini, **L.H. Greene**, C. Redfield and L.J. Smith. "Probing the urea dependence of nonrandom interactions in denatured human α -lactalbumin." *Journal of Biomolecular NMR* 45 (2009): 121-131.

Li, H., J. Wojtaszek and **L.H. Greene**. "Analysis of conservation in the Fas-associated death domain protein and the importance of conserved tryptophans in structure, stability and folding." *Biochimica et Biophysica Acta - Proteins & Proteomics* 1794 (2009): 583-593.

Hatcher, P.G. see Margaret Mulholland, Chemistry and Biochemistry, College of Sciences.

Hockaday, W.C., J.M. Purcell, A.G. Marshall, J.A. Baldock, and **P.G. Hatcher**. "Electrospray and photoionization mass spectrometry for the characterization of organic matter in natural waters: a qualitative assessment." *Limnology and Oceanography: Methods* 7 (2009): 81-95.

Salmon, E., F. Behar, F. Lorant, **P.G. Hatcher**, and P.-M. Marquaire. "Early maturation processes in coal. Part 1: Pyrolysis mass balance and structural evolution of coalified wood from the Morwell Brown Coal seam." *Organic Geochemistry* 40 (2009): 500-509.

Salmon, E., F. Behar, F. Lorant, **P.G. Hatcher**, and P.-M. Marquaire. "Thermal decomposition processes in algaenan of *Botryococcus braunii* race L. Part 1: Experimental data and structural evolution." *Organic Geochemistry* 40 (2009): 400-415.

Sleighter, R.L., G.A. McKee, and **P.G. Hatcher**. "Direct Fourier transform mass spectral analysis of natural waters with low dissolved organic matter." *Organic Geochemistry* 40 (2009): 119-125.

Heaton, K., R.L. Sleighter, **P.G. Hatcher**, W. Hall IV, and M. Johnston. "Composition Domains in Monoterpene Secondary Organic Aerosol." *Environmental Science & Technology* 43 (2009): 7797-7802

Koenig, A.B., R.L. Sleighter, E. Salmon, and **P.G. Hatcher**. "NMR Structural Characterization of *Quercus alba* (White Oak) Degraded by the Brown Rot Fungus, *Laetiporus sulphureus*." *Journal of Wood Chemistry and Technology* 30 (2010): 61-85.

5.3.3 Annual Report FY 2010

Abdulla, H.A.N., E.C. Minor, R.F. Dias, and **P.G. Hatcher**. "Changes in the compound classes of dissolved organic matter along and estuarine transect: a study using FTIR and ^{13}C NMR." *Geochimica et Cosmochimica Acta* 74 (2010): 3815-3838.

Stubbins, A., R. Spencer, H. Chen, **P.G. Hatcher**, **K. Mopper**, P. Hernes, V. Mwamba, A. Mangangu, and J. Wabakanghanzi. "Illuminated darkness: Molecular signatures of Congo River dissolved organic matter and its photochemical alteration as revealed by ultrahigh precision mass spectrometry." *Limnology and Oceanography* 55.4 (2010): 1467-1477.

Liu, Z., **J. Mao**, M.L. Peterson, C. Lee, S.G. Wakeham, and **P.G. Hatcher**. "Characterization of sinking particles from the northwest Mediterranean Sea using advanced solid-state NMR." *Geochim. Cosmochim. Acta* 73 (2009): 1014-1026.

Mao, J.-D., A. Schimmelmann, M. Mastalerz, **P.G. Hatcher**, and Y. Li. "Structural Features of a Bituminous Coal and Their Changes during Low-Temperature Oxidation and Loss of Volatiles Investigated by Advanced Solid-State NMR Spectroscopy." *Energy & Fuels* 24.4 (2010): 2536-2544.

Tian, X., X. Gao, F. Yang, Y. Lan, **J.-D. Mao**, and L. Zhou. "Catalytic role of soils in the transformation of Cr(VI) to Cr(III) in the presence of organic acids containing a-OH groups." *Geoderma* 159 (2010): 270-275.

Holtman, K.M., N. Chen, M.A. Chappell, J.F. Kadla, Ling Xu, and **J.-D. Mao**. "Chemical structure and heterogeneity differences of two lignins from loblolly pine as investigated by advanced solid-state NMR spectroscopy." *Journal of Agricultural and Food Chemistry* 58 (2010): 9882-9892.

Sun, H., X. Shi, **J.-D. Mao**, and D. Zhu. "Tetracycline sorption to coal and soil humic acids: An examination of humic structural heterogeneity." *Environmental Toxicology and Chemistry* 29 (2010): 1934-1942.

Edgington, A., A.P. Roberts, M. Alloy, J. Reppert, A. Rao, **J.-D. Mao**, and S.J. Klaine. "The influence of natural organic matter on the toxicity of multiwalled carbon nanotubes." *Environmental Toxicology and Chemistry* 29 (2010): 2511-2518.

Mao J.-D., A.J. Palazzo, D.C. Olk, C.E. Clapp, and N. Senesi, T.L. Bashore, and X. Cao. "Chemical structure of soil organic matter in slickspots as investigated by advanced solid-state NMR." *Soil Science* 175 (2010): 329-338.

Wu, C.L., Q.R. Shen, **J.-D. Mao**, and Y.C. Xu. "Fate of ^{15}N -labelled organic and inorganic fertilizers in rice soil and plants as affected by different fertilization treatments." *Biology and Fertility of Soils* 46 (2010): 127-137.

Mao, J.-D., X. Fang, Y. Lan, A. Schimmelmann, M. Mastalerz, L. Xu and K. Schmidt-Rohr. "Chemical and nanometer-scale structures of kerogen and their changes during thermal maturation investigated by advanced solid-state NMR spectroscopy." *Geochimica et Cosmochimica Acta* 74 (2010): 2110-2127.

Sun, J., **J.-D. Mao**, H. Gong, and Y. Lan. "Fe(III) photocatalytic reduction of Cr(VI) by low-molecular weight organic acids with α -OH." *Journal of Hazardous Materials* 168 (2009): 1569-1574.

He, Z., **J.-D. Mao**, W. Honeycutt, T. Ohno, J.F. Hunt, and B.J. Cade-Menun. "Characterization of plant-derived dissolved organic matter by multi-spectroscopic techniques." *Biology and Fertility of Soils* 45 (2009): 609-616.

Dai, R., J. Liu, C. Yu, R. Sun, Y. Lan, and **J.-D. Mao**. 2009. "A comparative study of oxidation of Cr(III) in aqueous ions, complex ions and insoluble compounds by manganese-bearing compounds (birnessite)." *Chemosphere* 76 (2009): 536-541.

Fang, X.-W., **J.-D. Mao**, E.M. Levin, and K. Schmidt-Rohr. 2009. "Nonaromatic core-shell structure of nanodiamond from solid-state NMR." *Journal of the American Chemical Society*. 131 (2009): 1426-1435.

Fu, Y., H. Fu, F. Ye, **J.-D. Mao**, and X. Wen. 2009. "Facile one-pot method for the synthesis of novel N-dichloroacetyl-1, 3-oxazolines." *Synthetic Communications*. 39 (2009): 2454-2463.

Liu, Z., **J.-D. Mao**, M.L. Peterson, C. Lee, S.G. Wakeham, **P.G. Hatcher**. Characterization of sinking particles from the Northwest Mediterranean Sea using advanced solid-state NMR. *Geochimica et Cosmochimica Acta*. 73 (2009): 1014-1026.

White, E.M., D.J. Kieber, J. Sherrard, W.L. Miller and **K. Mopper**. "Carbon dioxide and carbon monoxide photoproduction quantum yields in the Delaware Estuary." *Marine Chemistry* 118 (2010): 11-21.

Spencer, R.G.M., A. Stubbins, P.J. Hernes, A. Baker, **K. Mopper**, A.K. Aufdenkampe, R.Y. Dyda, V.L. Mwamba, A.M. Mangangu, J.N. Wabakanghanzi and J. Six. "Photochemical degradation of dissolved organic matter and dissolved lignin phenols from the Congo River." *Journal of Geophysical Research* 114 (2009): G03010.

Dalzell, B., J.E.C. Minor and **K. Mopper**. "Photodegradation of estuarine dissolved organic matter: a multi-method assessment of DOM transformations." *Organic Geochemistry* 40 (2009): 243-257.

Tedetti, M., F. Joux, B. Charrière, **K. Mopper**, and R. Sempéré. "Contrasting effects of solar radiation and nitrates on the bioavailability of DOM to marine

5.3.3 Annual Report FY 2010

bacteria.” *Journal of Photochemistry and Photobiology A: Chemistry* 201 (2009): 243-247.

Ramjee, B., Z.M. Kalaitzis, and W. Cao. “Solvent dependent morphologies in thiol-ene photopolymerization: A facile route to the synthesis of resorcinarene nanocapsules.” *Journal of Material Chemistry* 20 (2010): 6539 - 6543.

J.-P. Choi, C.A. Fields-Zinna, R.L. Stiles, **Ramjee, B.**, A.D. Douglas, M.C. Crowe, and R.W. Murray. “Reactivity of $[\text{Au}_{25}(\text{SCH}_2\text{CH}_2\text{Ph})_{18}]^+$ Nanoparticles with Metal Ions.” *Journal of Physical Chemistry C* 114 (2010): 15890 -15896.

Xu, X. see H. Elsayed-Ali, Applied Research Center, College of Engineering.

Lee, K.J., L. Browning, T. Huang, F. Ding, P. Nallathamby, **X. Xu**. “Probing multidrug ABC membrane transporters of single living cells using single nanoparticle plasmonic optical probes.” *Analytical and Bioanalytical Chemistry* 397 (2010): 3317.

Nallathamby, P., K. Lee, T. Desai, **X. Xu**. “Study of multidrug membrane transporters of single living *Pseudomonas aeruginosa* cells using size-dependent plasmonic nanoparticle optical probes.” *Biochemistry* 49 (2010): 5942-5953.

Browning, L., T. Huang, **X. Xu**. “Electric pulses to prepare feeder cells for sustaining and culturing of undifferentiated embryonic stem cells.” *Biotechnology Journal* 5 (2010): 588-592.

Nallathamby, P., T. Huang, **X. Xu**. “Design and characterization of optical nano rulers of single nanoparticles using optical microscopy and spectroscopy.” *Nanoscale* 2 (2010): 1715.

Nallathamby, P. and **X. Xu**. “Study of cytotoxic and therapeutic effects of stable and purified silver nanoparticles on tumor cells.” *Nanoscale* 2 (2010): 942-952.

Xu, H., P.D. Nallathamby, and **X. Xu**. “Real-time imaging and tuning subcellular structures and membrane transport kinetics of single live cells at nanosecond regime.” *Journal of Physical Chemistry B* 113.43 (2009): 14393-14404.

Browning, L., K.J. Lee, T. Huang, P.D. Nallathamby, J. Lowman, and **X. Xu**. “Random walk of single gold nanoparticles in zebrafish embryos leading to stochastic toxic effects on embryonic developments.” *Nanoscale* 1 (2009): 138-152.

Computer Science

Tejada-Martinez, A.E., **C.E. Grosch**, A.E. Gargett, J.A. Polton, J.A. Smith, and J.A. MacKinnon, “A hybrid

spectral/finite-difference large-eddy simulator of turbulent processes in the upper ocean.” *Ocean Modeling* 30 (2009): 115-142.

Gargett, A.E., A.E. Tejada-Martinez, and **C.E. Grosch**. “Measuring turbulent large-eddy structures with an ADCP. 2. Horizontal velocity variance.” *Journal of Marine Research* 67.5 (2009): 569-595.

Al Nasr, K. and **J. He**. “An Effective Convergence Independent Loop Closure Method using Forward-backed Cyclic Coordinate Descent.” *International Journal of Data Mining in Bioinformatics* 3.3 (2009): 346-361.

Sun, W. and **J. He**. “Native Secondary Structure Topology has Near Minimum Contact Energy among All Possible Geometrically Constrained Topologies.” *Proteins: Structure, Function and Bioinformatics* 77.1 (2009): 159-173.

Sun, W. and **J. He**. “Reduction of the secondary structure topological space through direct estimation of the contact energy formed by the secondary structure.” *MC Bioinformatics* 10.1 (2009).

Ji, S., Y-X. Li, Z-H. Zhou, S. Kumar, and J. Ye. “A Bag-of-words Approach for Drosophila Gene Expression Pattern Annotation.” *BMC Informatics* 10 (2009): 119, 2009.

Rata, I., **Y. Li**, and E. Jakobsson. “Backbone Statistical Potential from Local Sequence-Structure Interactions in Protein Loops.” *Journal of Physical Chemistry B* 114.5 (2010): 1859-1869.

Lombard, J.R. and **J. Morris**. “Cooperating Across State Borders in Economic Development: A Call for Cooperation.” *State and Local Government Review* 421 (2010): 73-81.

Weigle, M.C., L. Cheng, J. Kaur, and V. Kulkarni. “Generalized Stochastic Performance,” *Computers* 33.4 (2010): 513-525.

Mathematics & Statistics

Diawara, N. and M. Carpenter. “Mixture of Bivariate Exponential Distributions.” *Communications in Statistics-Theory and Methods* 39.15 (2010): 2711-2720.

Indika, S.H. and **N. Diawara**. “Linear Dependency for the Difference in Exponential Regression.” *Involve* 3.2 (2010): 215-222.

Liao, W., **Y. Peng**, and **L.-S. Luo**. “Gas-kinetic schemes for direct numerical simulations of compressible homogeneous turbulence.” *Physical Review E* 80.4 (2009): 046702.

5.3.3 Annual Report FY 2010

Liao, W., Y. Peng, and L.-S. Luo. "Effects of multitemperature nonequilibrium on compressible homogeneous turbulence." *Physical Review E* 80.4 (2010): 046704.

Cheng, M., J. Lou, and L.-S. Luo. "Numerical study of a vortex ring impacting a flat wall." *Journal of Fluid Mechanics* 660 (2010): 430-455.

Panayotova, I.N. "Nonlinear effects in the extended Eady model: nonzero beta but zero mean potential vorticity gradient." *Dynamics of Atmospheres and Oceans* 50 (2010): 93-111.d

Peng, Y., W. Liao, L.-S. Luo, and L.-P. Wang. "Comparison of the lattice Boltzmann and pseudo-spectral methods for decaying turbulence: Low-order statistics." *Computers & Fluids* 39.4 (2010): 568-591.

Forest, Gregory M., Sebastian Heidenreich, Siegfried Hess, Xiaofeng Yang, and Ruhai Zhou. "Dynamic texture scaling of sheared nematic polymers in the large Ericksen number limit." *Journal of Non-Newtonian Fluid Mechanics* 165.13-14 (2010): 687-697.

Choate, Eric P., M. Gregory Forest, Lingxing Yao, Xiaoyu Zheng, and Ruhai Zhou. "A Simple Model for Non-Topological Defects in Sheared Nematic Polymer Monodomains." *Journal of Computational and Theoretical Nanoscience* 7.4 (2010): 787-794.

Ocean, Earth & Atmospheric Sciences

Nagata, T., C. Tamburini, J. Aristegui, F. Baltar, A. Bochdanský, S. Fonda-Umani, H. Fukuda, A. Gogou, D.A. Hansell, R.L. Hansman, G.J. Herndl, C. Panagiotopoulos, T. Reinthaler, and D.H. Bartlett. "Emerging concepts on microbial processes in the bathypelagic ocean - ecology, biochemistry and genomics." *Deep-Sea Research II* (2010).

Bochdanský, A.B., H.M. van Aken, and G.J. Herndl. "Role of macroscopic particles in deep-sea oxygen consumption." *Proceedings of the National Academy of Sciences of the United States of America* 107 (2010): 8287-8291.

Bochdanský, A.B. and L. Huang. "Re-evaluation of the EUK516 probe for the domain Eukarya results in a suitable probe for the detection of kinetoplastids, an important group of parasitic and free-living flagellates." *Journal of Eukaryotic Microbiology* 57 (2010): 229-235.

Bochdanský A.B., S.M. Bollens, G.C. Rollwagen-Bollens, and A.H. Gibson. "Effect of the heterotrophic dinoflagellate *Oxyrrhis marina* and the copepod *Acartia tonsa* on vertical carbon fluxes in and around thin layers of the phytoflagellate *Isochrysis galbana*." *Marine Ecology Progress Series* 402 (2010): 179-196.

Bochdanský, A.B. and S.M. Bollens. "Thin layer formation during runaway stratification in the tidally dynamic San Francisco Estuary." *Journal of Plankton Research* 31 (2010): 1385-1390.

Burdige, D.J. "A modeling study of organic matter remineralization in deeply-buried marine sediments." *Geochimica et Cosmochimica Acta* 74.12S (2010): A127.

Chevis D., K. Johannesson, D. Burdige, J. Cable, J. Martin, and M. Roy. "Submarine groundwater flux of Nd to coastal waters." *Geochimica et Cosmochimica Acta* 74.12S (2010): A174.

Corbett, J.E., J.P. Chanton, D. Burdige, P.H. Glaser, W.T. Cooper, D.I. Siegel, S.S. Dasgupta, and M.M. Tfaily. "Partitioning peatland gas production: Determining the fraction of CO₂ produced from methanogenesis." *Geochimica et Cosmochimica Acta* 74.12S (2010): A190.

Pitts, A.K., D.J. Burdige, D.C. Cook, and E.A. Canuel. "Effect of physical reworking and bioturbation on sedimentary reactive iron within a microtidal estuary." *Geochimica et Cosmochimica Acta* 74.12S (2010): A818.

Ranville, M.A., G.A. Cutter, C.S. Buck, W.M. Landing, L.S. Cutter, J.A. Resing, and A.R. Flegal. "Aeolian contamination of Se and Ag in the North Pacific from Asian fossil fuel combustion." *Environmental Science and Technology* 44 (2010): 1587-1593.

Polyak, L., R.B. Alley, J.T. Andrews, J. Brigham-Grette, T.M. Cronin, D.A. Darby, A. Dyke, J.J. Fitzpatrick, S. Funder, M. Holland, A.E. Jennings, G.H. Miller, M.A. O'Regan, J. Saville, M. Serreze, K. St. John, J.W.C. White, and E. Wolff. "History of sea ice in the Arctic." *Quaternary Science Reviews* 29 (2010): 1757-1778.

Darby, D.A., L. Polyak, and M. Jakobsson. "The 2005 HOTRAX Expedition to the Arctic Ocean." *Global and Planetary Change* 68.1-2 (2009): 1-4.

Darby, D.A., J. Ortiz, L. Polyak, S. Lund, M. Jakobsson, and R.A. Woodgate. "The role of currents and sea ice in both slowly deposited central Arctic and rapidly deposited Chukchi-Alaskan margin sediments." *Global and Planetary Change* 68 (2009): 58-72.

Ortiz, J.D., L. Polyak, J.M. Grebmeier, D.A. Darby, and D.D. Eberl. "Provenance of Holocene clay minerals on the Chukchi Shelf, Alaska, based on combined diffuse spectral reflectance and quantitative X-ray diffraction." *Global and Planetary Change* 68 (2009): 73-84.

5.3.3 Annual Report FY 2010

Brachfeld, S., F. Barletta, G. St-Onge, L. Polyak, J.D. Ortiz, and **D.A. Darby**. "Impact of diagenesis on the environmental magnetic record from a Holocene sedimentary sequence from the Chukchi-Alaskan margin, Arctic Ocean." *Global and Planetary Change* 68 (2009): 100-114.

Lisé-Pronovost, A., G. St-Onge, S. Brachfeld, F. Barletta, and **D. Darby**. "Paleomagnetic constraints on the Holocene stratigraphy of the Arctic Alaskan margin." *Global and Planetary Change* 68 (2009): 85-99.

Polyak, L., J. Bischof, J.D. Ortiz, **D.A. Darby**, J.E.T. Channell, C. Xuan, D.S. Kaufman, R. Løvlie, D. Schneider, R. Adler, and E. Council. "Late Quaternary stratigraphy and sedimentation patterns in the western Arctic Ocean." *Global and Planetary Change* 68 (2009): 5-17.

Andrews, J.T., **D.A. Darby**, D. Eberl, A.E. Jennings, M. Moros, and A. Ogilvie. "A robust, multi-site Holocene history of drift-ice off northern Iceland: Implications for North Atlantic climate." *The Holocene* 19 (2009): 71-77.

Ezer, T. and L.-Y. Oey. "The role of the Alaskan Stream in modulating the Bering Sea climate." *Journal of Geophysical Research* (2010): C04025.

Chen, H., F. Qiao, **T. Ezer**, Y. Yuan and F. Hua. "Multi-core structure of the Kuroshio in the East China Sea from long-term transect observations." *Ocean Dynamics* 59 (2009): 1616-7228.

Ezer, T. and H. Liu. "Combining remote sensing data and an inundation model to map tidal mudflat regions and improve flood predictions: A proof of concept demonstration in Cook Inlet, Alaska." *Geophysical Research Letters* 36 (2009): L04605.

Legg, S., Y. Chang, E.P. Chassignet, G. Danabasoglu, **T. Ezer**, A.L. Gordon, S. Griffies, R. Hallberg, L. Jackson, W. Large, T. Ozgokmen, H. Peters, J. Price, U. Riemenschneider, W. Wu, X. Xu, and J. Yang. "Improving oceanic overflow representation in climate models: the Gravity Current Entrainment Climate Process Team." *Bulletin of the American Meteorological Society* 90.5 (2009): 657-670. .

Lyons, M.M., J.E. Ward, **H. Gaff**, R. Hicks, J. Drake, and **F.C. Dobbs**. "Theory of island biogeography on a microscopic scale: Are organic aggregates islands for aquatic pathogens?" *Aquatic Microbial Ecology* 60 (2010): 1-13 .

Tejada-Martinez, A.E., **C.E. Grosch**, A.E. Gargett, J.A. Polton, J.A. Smith and J.A. MacKinnon. "A hybrid spectral/finite-difference large-eddy simulator of turbulent processes in the upper ocean." *Ocean Modeling* 30 (2009): 115-142.

Loeb, V.J, **E.E. Hofmann**, **J.M. Klinck**, O. Holm-Hansen, and W.B. White, "ENSO and variability of the Antarctic Peninsula pelagic marine ecosystem." *Antarctic Science* 21 (2009): 135-148.

Loeb, V., **E.E. Hofmann**, **J.M. Klinck**, and O. Holm-Hansen. "Hydrographic control of the marine ecosystem in the south Shetland-Elephant Island and Bransfield Strait region." *Deep Sea Research* 57.7-8 (2010): 519-542.

Hofmann, E.E. "Plankton functional group models - An assessment." *Progress in Oceanography*, 84.1-2 (2010): 16-19.

Hofmann, E.E. "Southern Ocean GLOBEC Research and the Future, Guest Editorial." *Antarctic Science* 21 (2009): 411.

Hofmann, E.E., D. Bushek, S. Ford, X. Guo, D. Haidvogel, D. Hedgcock, **J. Klinck**, C. Mulbury, D. Narvaez, E. Powell, Y. Wang, Z. Wang, J. Wilkin, and L. Zhang. "Understanding how disease and environment combine to structure resistance in estuarine bivalve populations." *Oceanography* 22 (2009): 212-231.

Hannigan, R., E. Dorval, and **C.M. Jones**. "Rare Earth Element Chemistry of Estuarine Surface Sediments In the Chesapeake Bay." *Chemical Geology* 272 (2010): 20-30.

Ashford, J.R, **C.M. Jones**, and L. Fegley. "A license registry improves sampling efficiency for a marine recreational survey." *Transactions of the American Fisheries Society* 138.5 (2009).

Schaffler, J.J., C.S. Reiss, and **C.M. Jones**. "Spatial variation in otolith chemistry of Atlantic croaker larvae in the Mid-Atlantic Bight." *Marine Ecology Progress Series* 382 (2009): 185-195.

Schaffler, J.J., **C.M. Jones**, and C.S. Reiss. "Patterns of larval Atlantic croaker ingress to Chesapeake Bay." *Marine Ecology Progress Series* 378 (2009): 187-197.

Robillard, E., C. Reiss, and **C.M. Jones**. "Age-validation and growth of bluefish (*Pomatomus saltatrix*) along the East Coast of the United States." *Fisheries Research* 95.1 (2009): 65-75.

Twining, B.S., D. Nuñez-Milland, S. Vogt, R.S. Johnson, and **P.N. Sedwick**. "Variations in *Synechococcus* cell quotas of phosphorus, sulfur, manganese, iron, nickel, and zinc within mesoscale eddies in the Sargasso Sea." *Limnology and Oceanography* 55 (2010): 492-506.

Klinck, J.M. and M.S. Dinniman. "Exchange across the shelf break at high southern latitudes." *Ocean Science* 6 (2010): 513-524.

5.3.3 Annual Report FY 2010

Powell, E.N., J.M. Klinck, K.A. Ashton-Alcox, and J.N. Kraeuter. "Multiple stable reference points in oyster populations: implications for reference point-based management." *Fish Bulletin* 107 (2009): 133-147.

Najjar, R., C.R. Pyke, M.B. Adams, D. Breitburg, C. Hershner, M.W. Kemp, R. Howarth, M.R. Mulholland, M. Paolisso, D. Secor, K. Sellner, D. Wardrop, and R. Wood. "Potential climate-change impacts on the Chesapeake Bay." *Estuarine, Coastal and Shelf Science* 86 (2010): 1-20.

Liu, Z., M.E. Kobiela, G.A. McKee, T. Tang, C. Lee, M.R. Mulholland, and P.G. Hatcher. "The effect of chemical structure on the hydrolysis of tetrapeptides along a river-to-ocean transect: AVFA and SWGA." *Marine Chemistry* 119.1-4 (2010): 108-120

Hutchins, D. A., M.R. Mulholland, and F. Fu. "Nutrient cycles and marine microbes in a CO₂-enriched ocean." *Oceanography* 22 (2009): 88-105.

Mulholland, M.R., R.E. Morse, George E. Boneillo, P.W. Bernhardt, K.C. Filippino, L.A. Procise, J.L. Blanco-Garcia, H.G. Marshall, T.A. Egerton, W.S. Hunley, K.A. Moore, D.L. Berry, and C.J. Gobler. "Understanding causes and impacts of the dinoflagellate, *Cochlodinium polykrikoides*, blooms in the Chesapeake Bay." *Estuaries and Coasts* 32 (2009): 734-747.

Mulholland, M.R. and C. Lee. "Peptide hydrolysis and dipeptide uptake in cultures and natural communities dominated by phytoplankton mixotrophs." *Limnology and Oceanography* 54 (2009): 856-868.

Filippino, K.C., P.W. Bernhardt, M.R. Mulholland. "Nutrient dynamics and primary productivity in the Chesapeake Bay outflow plume during 2005 and 2006." *Estuaries and Coasts* 32 (2009): 410-424.

Mulholland, M.R., G.E. Boneillo, P.W. Bernhardt, and E.C. Minor. "Comparison of nutrient and microbial dynamics over a seasonal cycle in a mid-Atlantic coastal lagoon prone to *Aureococcus anophagefferens* (brown tide) blooms." *Estuaries and Coasts* 32 (2009): 1176-1194.

Cady, S. and N. Noffke. "Geobiology: Evidence for Early Life on Earth and the Search for Life on other Planets." *GSA Today* 19 (2009): 4-10.

Noffke, N. "The criteria for biogenicity of microbially induced sedimentary structures (MISS) in Archean, sandy deposits." *Earth Science Reviews* 96 (2009): 173-180.

Scully, M.E. "The importance of climate variability to wind-driven modulation of hypoxia in Chesapeake Bay." *Journal of Physical Oceanography* 40 (2010): 1435-1440.

Scully, M.E., W.R. Geyer and J.A. Lerczack. "The influence of lateral advection on the residual circulation: A numerical modeling study of the Hudson River estuary." *Journal of Physical Oceanography* 39 (2010): 107-124.

Garcia, N.S., P.N. Sedwick, and G.R. DiTullio. "Influence of irradiance and iron on the growth of colonial *Phaeocystis antarctica*: implications for seasonal bloom dynamics in the Ross Sea, Antarctica." *Aquatic Microbial Ecology* 57 (2009): 203-220.

Chen, C., P.N. Sedwick, and M. Sharma. "Anthropogenic osmium in rain and snow reveals global-scale atmospheric contamination." *Proceedings of the National Academy of Sciences of the United States of America* 106 (2009): 7724-7728.

E.R. Sholkovitz, P.N. Sedwick, and T.M. Church. "Influence of anthropogenic combustion emissions on the deposition of soluble aerosol iron to the ocean: Empirical estimates for island sites in the North Atlantic." *Geochimica et Cosmochimica Acta* 73 (2009): 3981-4003.

Scott, T.W., D.J.P. Swift, G.R. Whittecar, and G.A. Brook. "Glacioisostatic Influences on Virginia's Late Pleistocene Coastal Plain Deposits." *Geomorphology* 16 (2010): 175-188.

Bachmann, C.M., M.J. Montes, R.A. Fusina, C. Parrish, J. Sellars, A. Weidemann, W. Goode, C.R. Nichols, P. Woodward, K. McIlhany, V. Hill, R. Zimmerman, D. Korwan, B. Truitt, and A. Schwarzschild. "Bathymetry Retrieval from Hyperspectral Imagery in the Very Shallow Water Limit: A Case Study from the 2007 Virginia Coast Reserve (VCR'07) Multi-Sensor Campaign." *Marine Geodesy* 33.1 (2010): 53-75.

Physics

Williams, M., K.P. Adhikari, S.L. Careccia, Dodge G.E., N. Guler, M.R. Niroula, C.S. Nepali, S. Tkachenko, and J. Zhang. "Partial wave analysis of the reaction $yp \rightarrow p\omega$ and the search for nucleon resonances." *Physical Review C* 80 (2009): 065209.

Osipenko M., K.P. Adhikari, M.J. Amaryan, S.L. Careccia, S.E. Kuhn, M. Mayer, H. Seraydaryan, S. Tkachenko, and J. Zhang. "Measurement of the nucleon structure function F_2 in the nuclear medium and evaluation of its moments." *Nuclear Physics A* 845 (2010): 1-32.

Anefalos, S., K.P. Adhikari, S.L. Careccia, G. Gavalian, N. Guler, M. Mayer, H. Seraydaryan, S. Tkachenko, J. Zhang. "Differential cross section of $\gamma n \rightarrow K^+ \Sigma^-$ on bound neutrons with incident photons from 1.1 to 3.6 GeV." *Physics Letters B* 688 (2010): 289-293.

5.3.3 Annual Report FY 2010

- McCracken, M.E., K.P. Adhikari, S.L. Careccia, M. Mayer, H. Seraydaryan, S. Tkachenko, and L.B. Weinstein. "Differential cross section and recoil polarization measurements for the $\gamma p \rightarrow K^+ \Lambda$ reaction using CLAS at Jefferson Lab." *Physical Review C* 81 (2010): 025201.
- Williams, M., K.P. Adhikari, S.L. Careccia, G.E. Dodge, N. Guler, M. Mayer, C.S. Nepali, M.R. Niroula, S. Tkachenko, L.B. Weinstein, and J. Zhang. "Differential cross sections for the reactions $\gamma p \rightarrow p \eta$ and $\gamma p \rightarrow p \eta'$." *Physical Review C* 80 (2009): 045213.
- Williams, M., K.P. Adhikari, H. Baghdasaryan, S.L. Careccia, G.E. Dodge, M. Mayer, C.S. Nepali, M.R. Niroula, H. Seraydaryan, S. Tkachenko, L.B. Weinstein, and J. Zhang. "Differential cross sections and spin density matrix elements for the reaction $\gamma p \rightarrow p \omega$." *Physical Review C* 80 (2009): 065208.
- Battaglieri, M., K.P. Adhikari, M.J. Amarian, S.L. Careccia, G.E. Dodge, C.E. Hyde, M. Mayer, C.S. Nepali, M.R. Niroula, H. Seraydaryan, S. Tkachenko, L.B. Weinstein, and J. Zhang. "Photoproduction of $\pi^+ \pi^-$ meson pairs on the proton." *Physical Review D* 80 (2009): 072005.
- Qian X., K.P. Adhikari, M. Amarian, S.L. Careccia, G.E. Dodge, C.E. Hyde, M. Mayer, C.S. Nepali, M.R. Niroula, H. Seraydaryan, S. Tkachenko, L.B. Weinstein, J. Zhang. "The extraction of ϕ -N total cross section from $d(\gamma, p K^+ K^-)n$." *Physics Letters B* 680 (2009): 417-422.
- Nasseripour, R., K.P. Adhikari, M.J. Amarian, S.L. Careccia, G.E. Dodge, C.E. Hyde, S.E. Khun, M. Mayer, C.S. Nepali, M.R. Niroula, H. Seraydaryan, S. Tkachenko, L.B. Weinstein, and J. Zhang. "Photodisintegration of ^4He into $p + t$." *Physical Review C* 80 (2009): 044603.
- Chen, W., M.J. Amarian, H. Bagdasaryan, S.L. Careccia, G.E. Dodge, C.E. Hyde, S.E. Khun, M.R. Niroula, S. Tkachenko, L.B. Weinstein, and J. Zhang. "Measurement of the differential cross section for the reaction $\gamma n \rightarrow \pi p$ from deuterium." *Physical Review Letters* 103 (2009): 012301.
- Osipenko, M., M.J. Amarian, S. Büeltmann, S.L. Careccia, G.E. Dodge, G. Gavalian, C.E. Hyde-Wright, S.E. Kuhn, M.R. Niroula, S. Tkachenko, L.B. Weinstein, and J. Zhang. "Measurement of semi-inclusive π^+ electroproduction off the proton." *Physical Review D* 80 (2009): 032004.
- Aznauryan, I.G.; K.P. Adhikari, S.L. Careccia, C.E. Hyde, S.E. Khun, M. Mayer, C.S. Nepali, M.R. Niroula, H. Seraydaryan, S. Tkachenko, L.B. Weinstein, and J. Zhang. "Electroexcitation of nucleon resonances from CLAS data on single pion electroproduction," *Physical Review C* 80 (2009): 055203.
- Ilieva, Y., M. Amarian, S. Büeltmann, S.L. Careccia, G.E. Dodge, G. Gavalian, N. Guler, C.E. Hyde-Wright, S.E. Kuhn, M.R. Niroula, S. Tkachenko, L.B. Weinstein, J. Zhang. "Evidence for a backward peak in the $\gamma d \rightarrow \pi^0 p$ cross section near the η threshold." *European Physical Journal A* 43 (2010): 261-267.
- Balik, S., A.L. Win, and M.D. Havey. "Imaging-based parametric resonance in an optical dipole atom trap." *Physical Review A* 80 (2009): 023404.
- Balitsky, I. and G.A. Chirilli. "High-energy amplitudes in $N = 4$ SYM in the next-to-leading order." *Physics Letters B* 687 (2010): 204-213.
- Balitsky, I. and G.A. Chirilli. "NLO evolution of color dipoles in $N = 4$ SYM." *Nuclear Physics B* 822 (2009): 45-87.
- Abelev, B.I. and S. Büeltmann. "Beam-energy and system-size dependence of dynamical net charge fluctuations." *Physical Review C* 79 (2009): 024906.
- Abelev, B.I. and S. Büeltmann. "Systematic measurements of identified particle spectra in pp, d + Au, and Au + collisions at the STAR detector." *Physical Review C* 79 (2009): 034909.
- Abelev, B.I. and S. Büeltmann. "Measurements of ϕ meson production in relativistic heavy-ion collisions at the BNL relativistic heavy ion collider (RHIC)." *Physical Review C* 79 (2009): 064903.
- Abelev, B.I. and S. Büeltmann. "Indications of conical emission of charged hadrons at the BNL relativistic heavy ion collider." *Physical Review Letters* 102 (2009): 052302.
- Abelev, B.I. and S. Büeltmann. "Observation of two-source interference in the photoproduction reaction $\text{AuAu} \rightarrow \text{AuAu } \rho^0$." *Physical Review Letters* 102 (2009): 112301.
- Abelev, B.I. and S. Büeltmann. "K/ π Fluctuations at relativistic energies" *Physical Review Letters* 103 (2009): 092301.
- Abelev, B.I. and S. Büeltmann. "Measurement of D' Mesons in jets from p + p collisions at $\sqrt{s} = 200$ GeV." *Physical Review D* 79 (2009): 112006.
- Abelev, B.I. and S. Büeltmann. "Energy and system size dependence of ϕ meson production in Cu + Cu and Au + Au collisions." *Physics Letters B* 673 (2009): 183-191.
- Abelev, B.I. and S. Büeltmann. "Pion interferometry in Au + Au and Cu + Cu collisions at $\sqrt{s_{NN}} = 62.4$ and 200 GeV." *Physical Review C* 80 (2009): 024905.
- Abelev, B.I., S. Büeltmann, and D. Plyku. "J/ ψ production at high transverse momenta in p + p and

5.3.3 Annual Report FY 2010

Cu + Cu collisions at $\sqrt{s_{NN}} = 200$ GeV.” *Physical Review C* 80 (2009): 041902.

Abelev, B.I. and S. Buehlmann. “Growth of long range forward-backward multiplicity correlations with centrality in Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV.” *Physical Review Letters* 108 (2009): 172301.

Abelev, B.I., S. Buehlmann, I. Koralt, and D. Plyku. “Neutral pion production in Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV.” *Physical Review C* 80 (2009): 044905.

Abelev, B.I., S. Buehlmann, I. Koralt, and D. Plyku. “Long range rapidity correlations and jet production in high energy nuclear collisions.” *Physical Review C* 80 (2009): 064912.

Abelev, B.I., S. Buehlmann, I. Koralt, D. Plyku. “Azimuthal charged-particle correlations and possible local strong parity violation.” *Physical Review Letters* 103 (2009): 251601.

Abelev, B.I., S. Buehlmann, I. Koralt, and D. Plyku. “Longitudinal spin transfer to Λ and $\bar{\Lambda}$ hyperons in polarized proton-proton collisions at $\sqrt{s} = 200$ GeV.” *Physical Review D* 80 (2009): 111102.

Abelev, B.I., S. Buehlmann, I. Koralt, and D. Plyku. “Longitudinal double-spin asymmetry and cross section for inclusive neutral pion production at midrapidity in polarized proton collisions at $\sqrt{s} = 200$ GeV.” *Physical Review D* 80 (2009): 111108.

Abelev, B.I. and S. Buehlmann. “System size dependence of associated yields in hadron-triggered jets.” *Physics Letters B* 683 (2010): 123-128.

Abelev, B.I., S. Buehlmann, I. Koralt, and D. Plyku. “Center of mass energy and system-size dependency of photon production at forward rapidity at RHIC.” *Nuclear Physics A* 832 (2010): 134-147.

Abelev, B.I., S. Buehlmann, I. Koralt, and D. Plyku. “Identified particle production, azimuthal anisotropy, and interferometry measurements in Au + Au collisions at $\sqrt{s_{NN}} = 9.2$ GeV.” *Physical Review C* 81 (2010): 024911.

Abelev, B.I., S. Buehlmann, I. Koralt, and D. Plyku. “Observation of charge-dependent azimuthal correlations and possible local strong parity violation in heavy-ion collisions.” *Physical Review C* 81 (2010): 054908.

Abelev, B.I., S. Buehlmann, I. Koralt, and D. Plyku. “Spectra of identified high- p_T π^+ and p (\bar{p}) in Cu + Cu collisions at $\sqrt{s_{NN}} = 200$ GeV.” *Physical Review C* 81 (2010): 054907.

Abelev, B.I., S. Buehlmann, I. Koralt, and D. Plyku. “Observation of $\pi^+\pi^-\pi^+\pi^-$ photoproduction in

ultraperipheral heavy-ion collisions at $\sqrt{s_{NN}} = 200$ GeV at the STAR detector.” *Physical Review C* 81 (2010): 044901.

Abelev B.I., S. Buehlmann, I. Koralt, and D. Plyku. “Inclusive π^0 , η , and direct photon production at high transverse momentum in p + p and d + Au collisions at $\sqrt{s_{NN}} = 200$ GeV.” *Physical Review C* 81 (2010): 064904.

Abelev, B.I., S. Buehlmann, I. Koralt, and D. Plyku. “Charged and strange hadron elliptic flow in Cu + Cu collisions at $\sqrt{s_{NN}} = 62.4$ and 200 GeV.” *Physical Review C* 81 (2010): 044902.

Whitmeyer, S.J., J. Nicoletti, and D.G. De Paor. “The digital revolution in geologic mapping and presentation.” *GSA Today* 20.4-5 (2010): 4-10.

Whitmeyer, S.J., M. Feely, D.G. DePaor, R. Hennessy, S. Whitmeyer, J. Nicoletti, B. Santangelo, M. Rivera, and J. Daniels. “Visualization techniques in field geology education.” GSA special paper, 461 (2009): 105-116.

Simpson, C. and D.G. De Paor. “Restoring maps and memoirs to four-dimensional space using virtual globe technology.” *Geological Society, London, Special Publications* 335 (2010): 429-441.

De Paor, D.G. and S.J. Whitmeyer. “Innovations and redundancies in geoscience field courses: Past experiences and proposals for the future.” GSA special paper, 461 (2009): 45-46.

Drake, D.J., S. Popovi, L. Vušković, and T. Dinh. “Kinetic description of martian atmospheric entry plasma.” *IEEE Transactions on Plasma Science* 37 (2009): 1646-1655.

Drake, D.J., S. Popovi, and L. Vušković. “Characterization of a $\text{CO}_2/\text{N}_2/\text{Ar}$ supersonic flowing discharge.” *Journal of Applied Physics* 106 (2009): 083305.

Peardon, M.J., J. Bulava, J. Foley, C. Morningstar, J.J. Dudek, R.G. Edwards, B. Joo, H-W. Lin, D.G. Richards, and K.J. Juge. “A novel quark-field creation operator construction for hadronic physics in lattice QCD.” *Physical Review D* 80 (2009): 054506.

Dudek J.J., R.G. Edwards, D.G. Richards, C.E. Thomas, and M.J. Peardon. “Highly excited and exotic meson spectrum from dynamical lattice QCD,” *Physical Review Letters* 103 (2009): 262001.

Richards, D.G., S.D. Cohen, H.-W. Lin, J.J. Dudek, and R.G. Edwards. “Exploring the spectrum of QCD using the lattice.” *Journal of Physics Conference Series* 180 (2009): 012067.

5.3.3 Annual Report FY 2010

Gavalian, G., M.J. Amarian, S. Büeltmann, S.L. Careccia, G.E. Dodge, N. Guler, C.E. Hyde, S.E. Kuhn, M.R. Niroula, S. Tkachenko, L.B. Weinstein, and J. Zhang. "Beam spin asymmetries in deeply virtual Compton scattering (DVCS) with CLAS at 4.8 GeV." *Physical Review C* 80 (2009): 035206.

Mikhaelov, E., I. Novikova, M.D. Havey, and F.A. Narducci. "Magnetic field imaging with atomic Rb vapor." *Optics Letters* 34 (2009): 3529.

Havey, M.D. "Freezing Light with Cold Atoms." *Contemporary Physics* 50 (2009): 587.

Nikolić, M., A. Samolov, J. Upadhyay, A. Godunov, S. Popović, L. Vušković, A.-M. Valente-Feliciano, and L. Phillips. "Tomographic analysis of SRF cavities as asymmetric plasma reactors." *Proceedings of IPAC* (2010): 3072-3074.

Girlanda, L., S. Pastore, R. Schiavilla, and M. Vivian. "Relativity Constraints on the Two-Nucleon contact Interaction." *Physical Review Phys Rev C* 81 (2010): 034005.

Pastore, S., L. Girlanda, R. Schiavilla, M. Viviani, and R.B. Wiringa. "Electromagnetic currents and magnetic moments in chiral effective field theory (χ EFT)." *Physical Review C* 80 (2009): 034004.

Popović, S., M. Rašković, J. Upadhyay, L. Vušković, H.L. Phillips, and A.-M. Valente-Feliciano. "Plasma treatment of niobium SRF cavity surfaces." *Proceedings of IPAC* (2010): 3058-3060.

Williams, S., S. Popović, and M. Gupta. "Microwave plasma generation and filtered transport of O_2 ($a^1\Delta_g$)." *Plasma sources science and technology* 18 (2009): 035014.

Kuo, S.P., O. Tarasenko, J. Chang, S. Popović, C.Y. Chen, H.W. Fan, A. Scott, M. Lahiani, P. Alusta, J.D. Drake, and M. Nikolić. "Contribution of a portable air plasma torch to rapid blood coagulation as a method of preventing bleeding." *New Journal of Physics* 11 (2009): 115016.

Markhotok, A. and S. Popović. "Refractive phenomena in the shock wave dispersion with variable gradients." *Journal of Applied Physics* 107 (2010): 123302.

Radyushkin, A. "Quark counting rules: Old and new approaches." Special issue of *International Journal of Modern Physics A* 25 (2010): 502-512.

Radyushkin, A.V. "Shape of pion distribution amplitude." *Physical Review D* 80 (2009): 094009.

Rašković, M., L. Vušković, and S. Popović. "Preparation of high-quality factor cavities made of niobium by plasma treatment." *Physica Scripta T* 135 (2009): 014018.

Schulz, M., A.C. Laforge, K.N. Egodapitiya, J.S. Alexander, A. Hasan, M.F. Ciappiana, Samolov A. and A. Godunov. "Computational modeling of muons passing through gas pressured RF cavities." *Proceedings of IPAC* (2010): 3070-3071.

Roy, A.C., R. Dey, A. Samolov, and A.L. Godunov. "Doubly differential spectra of scattered protons in ionization of atomic hydrogen." *Physics Review A* 81 (2010): 052705.

Girlanda, L., R. Schiavilla, M. Viviani, A. Kievsky, L.E. Marcucci. "Hadronic Parity Violation in Few-Body Systems." *Journal of Physics: Conference Series* 168 (2009): 012003.

Jeschonnek, S. and J.W. Van Orden. "Ejectile polarization for $^2H(e, e' \bar{n})n$ at GeV energies." *Physical Review C* 81 (2010): 014008.

Jeschonnek, S. and J.W. Van Orden. "Target polarization for $^2H(e, ep)n$ at GeV energies." *Physical Review C* 80 (2009): 054001.

McGovern, M., D. Assafrão, J.R. Mohallem, C. Whelan, and H.R.J. Walters. "Coincidence studies with antiprotons." *Journal of Physics: Conference Series* 212 (2010): 012029.

McGovern M., D. Assafrão, J.R. Mohallem, C. Whelan, and H.R.J. Walters. "Fully differential cross sections for heavy particle impact ionization." *Journal of Physics: Conference Series* 194 (2009): 012042.

McGovern, M., D. Assafrão, J.R. Mohallem, C. Whelan, and H.R.J. Walters. "Coincidence studies of He ionized by C^{6+} , Au^{24+} , and Au^{53+} ." *Physics Review A* 81 (2010): 042704.

McGovern, M., D. Assafrão, J.R. Mohallem, C. Whelan, H.R.J. Walters. "Pseudostate methods and differential cross sections for antiproton-ionization of atomic hydrogen and helium." *Physics Review A* 81 (2010): 032708.

McGovern, M., D. Assafrão, J.R. Mohallem, C. Whelan, and H.R.J. Walters. "Differential and total cross sections for antiproton impact ionization of atomic hydrogen and helium." *Physical Review A* 79 (2009): 042707.

Psychology

Ash, I.K. "Surprise, memory, and retrospective judgment making: Testing cognitive reconstruction theories of the hindsight bias effect." *Journal of Experimental Psychology: Learning, Memory, and Cognition* 35.4 (2009): 916-933.

Ash, I.K., P.J. Cushen, and J. Wiley. "Obstacles in investigating the role of restructuring in insightful problem solving." *Journal of Problem Solving* 2.2 (2009): Article 3 .

5.3.3 Annual Report FY 2010

Wiley, J., S. Goldman, A. Graesser, C. Sanchez, I.K. Ash, and J. Hemmerich. "Source evaluation, comprehension, and learning in Internet science inquiry tasks." *American Educational Research Journal* 46 (2009): 1060-1106.

Newlin, E.T., E.A. Bustamante, and J.P. Bliss. "Alarm relevance and reliability: Factors affecting commercial aviation pilots' alarm responses." *International Journal of Applied Aviation Studies* 8.2 (2009): 337-358.

Davis, D.D. and L. Kohn. "Dao at the beach: Searching for the Dao in daily life." *The Empty Vessel: The Journal of Daoist Philosophy and Practice* 20 (2009): 10-13.

Carey, K.B., J.M. Henson, M.P. Carey, and S.A. Maisto. "Computer Versus In-Person Intervention for Students Violating Campus Alcohol Policy." *Journal of Consulting and Clinical Psychology* 77 (2009): 74-87.

Tucker, M. and M.L. Kelley. "Social Support and life stress as related to the psychological distress of single enlisted Navy mothers." *Military Psychology* 21 (2009): 82-97.

Braitman, A.L., M.L. Kelley, J. Ladage, V. Schroeder, L.A. Gumienny, J.A. Morrow, and K. Klostermann. "Alcohol and drug use among college student adult children of alcoholics." *Journal of Alcohol and Drug Education* 53 (2009): 69-88.

Schroeder, V., and M.L. Kelley. "Family environment and parent-child relationships as related to executive functioning in children." *Early Child Development and Care* 18 (2009): 227-235.

Klostermann, K., M.L. Kelley, T. Mignone, L. Pusateri, and W. Fals-Stewart. "Partner Violence and Substance Abuse: Treatment Interventions," *Aggression and Violent Behavior* 15 (2010): 162-166.

Kelley, M.L., K. Klostermann, A. Doane, T. Mignone, W.K.K. Lam, and W. Fals-Stewart. "The case for examining and treating the combined effects of parental drug use and interparental violence on children in their homes." *Aggression and Violent Behavior* 15 (2010): 76-82.

Landers, R.N. "A quantitative examination of trends in I/O psychology 2001-2005." *The Industrial-Organizational Psychologist* 46.4 (2009): 15-23.

Zapata-Sola, A., T. Kreuch, R.N. Landers, T. Hoyt, and J.N. Butcher. "Clinical personality assessment in personnel selection using the MMPI-2: A cross-cultural comparison." *International Journal of Clinical and Health Psychology* 9 (2009): 287-298.

Simons, J.S., R.D. Dvorak, and C. Lau-Barraco. "Behavioral inhibition and activation systems: Differences in substance use expectancy organization and activation in memory." *Psychology of Addictive Behaviors* 23 (2009): 315-328.

Read, J.P., C. Lau-Barraco, M.E. Dunn, and B. Borsari. "Projected alcohol dose influences on the activation of alcohol expectancies in college drinkers." *Alcoholism: Clinical and Experimental Research* 33 (2009): 265-1277.

Lau-Barraco, C. and M.E. Dunn. "Environmental context effects on alcohol cognitions and immediate alcohol consumption." *Addiction Research & Theory* 17 (2009): 306-314.

Lau-Barraco, C., M.D. Skewes, and P.R. Stasiewicz. "Gender differences in high-risk situations for drinking: Are they mediated by depressive symptoms?" *Addictive Behaviors* 34 (2009): 68-74.

Lewis, R.J., V.J. Derlega, D. Brown, S. Rose, and J.M. Henson. "Sexual minority stress, depressive symptoms, and sexual orientation conflict: Focus on the experiences of bisexuals." *Journal of Social and Clinical Psychology* 8 (2009): 971-992.

Morganson, V.J., D.A. Major, and K.N. Bauer. "Work and family job analysis: Applying a classic tool to address a contemporary issue." *The Psychologist-Manager Journal* 12 (2009): 252.

Major, D.A. and H.M. Lauzun. "Equipping managers to assist employees in addressing work-family conflict: Applying the research literature toward innovative practice." *The Psychologist-Manager Journal* 13 (2009): 69-85.

Orvis, K.A., J.C. Moore, J. Belanich, J.S. Murphy, and D.B. Horn. "Are soldiers gamers? Videogame usage among soldiers and implications for the effective use of serious videogames for military training." *Military Psychology* 22.2 (2010): 143-157.

Orvis, K.A., D.B. Horn, and J. Belanich. "An examination of the role individual differences play in videogame-based training." *Military Psychology* 21.4 (2009): 461-481.

Orvis, K.A., S.L. Fisher, and M.E. Wasserman. "Power to the people: Using learner control to improve trainee reactions and learning in web-based instructional environments." *Journal of Applied Psychology* 94.4 (2009): 960-971.

Padilla, M.A., J. Divers, L.K. Vaughan, D.B. Allison, and H.K. Tiwari. "Multiple Imputation to Correct for Measurement Error in Genetic Structured Association Testing." *Human Heredity* 68 (2009): 65-72.

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Kelley, J.M., L.B. Hughes, J.D. Faggard, M.I. Danila, M.H. Crawford, Y. Edberg, **M.A. Padilla**, H.K. Tiwari, A.O. Westfall, G.S. Alarcón, D.L. Conn, B.L. Jonas, L.F. Callahan, E.A. Smith, R.D. Brasington, D.B. Allison, R.P. Kimberly, L.W. Moreland, J.C. Edberg, and S.L. Bridges. "An African Ancestry Specific Allele of Cytotoxic T-Lymphocyte Associated Protein 4 (CTLA4) Confers Protection against Rheumatoid Arthritis in African-Americans." *Plos Genetics* 5 (2009): 1-8.

Vaughan, L.K., J. Divers, **M.A. Padilla**, D.T. Redden, H.K. Tiwari, D. Pomp, and D.B. Allison. "The use of plasmodes as a supplement to simulations: A simple example evaluating individual admixture estimation methodologies." *Computational Statistics and Data Analysis* 53 (2009): 1755-1766.

Sanchez-Hucles, J.V. and **D.D. Davis**. "Women and Women of Color in Leadership: Complexity, Identity and Intersectionality." *American Psychologist* 65 (2010): 171-181.

Baydogan, E., L.A. Belfore, **M.W. Scerbo**, M. Saurav. "Virtual operating room team training via computer-based agents." *International Journal of Intelligent Control and Systems* 14 (2010): 115-122.

Mielke, R.R., **M.W. Scerbo**, K.T. Gaubatz, and G.S. Watson. "A multidisciplinary model for M&S graduate education." *International Journal of Simulation and Process Modeling* 5 (2009): 3-13.

Office of Research

Frank Reidy Research Center for Bioelectrics

Marshall, Jr., W.G., B.A. Boone, J.D. Burgos, S.I. Gografe, M.K. Baldwin, M.L. Danielson, M.J. Larson, D.R. Caretto, Y. Cruz, B. Ferraro, **L.C. Heller**, K.E. Ugen, M.J. Jaroszeski, and **R. Heller**. "Electroporation Mediated Delivery of a Naked DNA Plasmid Expressing VEGF to the Porcine Heart Enhances Protein Expression." *Gene Therapy* 17 (2010): 419-423.

Heller, L.C. and **R. Heller**. "Electroporation Gene Therapy Preclinical and Clinical Trials for Melanoma." *Current Gene Therapy* 10 (2010): 312-317.

Heller, R., Y. Cruz, **L.C. Heller**, R. Gilbert, and M. Jaroszeski. "Electrically mediated delivery of plasmid DNA to the skin using a multi-electrode array." *Human Gene Therapy* 21 (2010): 1-6.

Ferraro, B., Y.L. Cruz, D. Coppola, and **R. Heller**. "Intradermal Delivery of Plasmid VEGF₁₆₅ by Electroporation Promotes Wound Healing." *Molecular Therapy* 17.4 (2009): 651-657.

Ferraro, B., Y.L. Cruz, M. Baldwin, D. Coppola, and **R. Heller**. "Increased perfusion and angiogenesis in a

hindlimb ischemia model with plasmid FGF-2 delivered by non-invasive electroporation." *Gene Therapy* 17 (2010): 763-769.

Kolb, J.F. see R.P. Joshi, Electrical and Computer Engineering, College of Engineering.

Kolb, J.F. see R. James Swanson, Biological Science, College of Sciences.

Chen, X., **J.F. Kolb**, **R.J. Swanson**, **K.H. Schoenbach**, and **S.J. Beebe**. "Apoptosis Initiation and Angiogenesis Inhibition: Melanoma Targets for Nanosecond Pulsed Electric Fields." *Pigment Cell and Melanoma Research* 23 (2010): 554.

Pakhomov, A. see R.P. Joshi, Electrical and Computer Engineering, College of Engineering.

Pakhomov, A.G., A.M. Bowman, B.L. Ibey, F.M. Andre, **O.N. Pakhomova**, and **K.H. Schoenbach**. "Lipidic nanopores form a stable, ion channel-like conduction pathway in cell membrane." *Biochemical and Biophysical Research Communications* 385.2 (2009): 181-186.

Nuccitelli, R., X. Chen, **A. Pakhomov**, W. Baldwin, S. Sheikh, J. Pomicter, W. Ren, **C. Osgood**, **R.J. Swanson**, **J. Kolb**, **S. Beebe**, and **K. Schoenbach**. "A New Pulsed Electric Field Therapy for Melanoma Disrupts the Tumor's Blood Supply and Causes Complete Remission without Recurrence." *International Journal of Cancer* 125 (2009): 438-445.

Ibey, B.L., J.A. Payne, D. Mixon, A.M. Bowman, K.A. Sickendick, G.J. Wilmsink, W.P. Roach, and **A.G. Pakhomov**. "Plasma membrane permeabilization by trains of ultra-short electric pulses." *Bioelectrochemistry* 79.1 (2010): 114-21.

Andre, F.M., M.A. Rassokhin, A.M. Bowman, and **A.G. Pakhomov**. "Gd³⁺ blocks membrane permeabilization by nanoelectropulses and reduces cell death." *Bioelectrochemistry* 79.1 (2010): 95-100.

Ibey, B.L., **A.G. Pakhomov**, B.W. Gregory, V.A. Khorokhorina, C.C. Roth, M.A. Rassokhin, J.A. Bernhard, G.J. Wilmsink, and **O.N. Pakhomova**. "Selective cytotoxicity of intense nanosecond-duration electric pulses in mammalian cells." *Biochimica et Biophysica Acta* 1800.11 (2010): 1210-1219.

Pakhomova, O.N., A.B. Taylor, S.P. Holloway, T.R. Kannan, J.B. Baseman, and P.J. Hart. "Crystallization and preliminary X-ray analysis of community acquired respiratory distress syndrome toxin from *Mycoplasma pneumoniae*." *Acta Crystallographica F* 66 (2010): 294-296.

Bowman, A.M., O.N. Nesin, **O.N. Pakhomova**, and **A.G. Pakhomov**. "Analysis of plasma membrane

5.3.3 Annual Report FY 2010

integrity by fluorescent detection of Ti^+ uptake.” *Journal of Membrane Biology* 236.1 (2010): 15-26.

Schoenbach, K.H. see R.P. Joshi, Electrical and Computer Engineering, College of Engineering.

Schoenbach, K.H. see R. James Swanson, Biological Sciences, College of Sciences.

Schoenbach, K.H. see Shiu Xiao, Electrical and Computer Engineering, College of Engineering.

Baum, Carl E., Serhat Altunc, **K.H. Schoenbach**, and **S. Xiao**. “Bioelectric Pulses and Electromagnetic Pulse Standards.” *Bioelectric Notes* 5, March 15, 2010.

Baum, Carl E., Serhat Altunc, **K.H. Schoenbach**, and **S. Xiao**. “Modified Subnanosecond Sample Holder.” *Bioelectric Notes* 6, March 15, 2010.

Schoenbach, K.H., Carl E. Baum, **Ravindra P. Joshi**, and **Stephen J. Beebe**. “A Scaling Law for Membrane Permeabilization with Nanopulses.” Special issue on “Bioelectrics.” *IEEE Transactions on Dielectrics and Electrical Insulation* 16 (2009): 1224-1235.

Ford, W.E., P.F. Blackmore, **K.H. Schoenbach**, and **S.J. Beebe**. “Nanosecond pulsed electric fields stimulate apoptosis without release of pro-apoptotic factors from mitochondria in B16f10 melanoma.” *Archives of Biochemistry and Biophysics* 497.1-2 (2010): 82-89.

Schoenbach, K.H., C.E. Baum, **R.P. Joshi**, and **S.J. Beebe**. “A Scaling Law for Membrane Permeabilization with Nanopulses.” *IEEE Transactions on Dielectrics and Electrical Insulation* 16 (2009): 1224-1235.

Uwe F. Pliquet and **Karl H. Schoenbach**. “Changes in Electrical Impedance of Biological Matter Due to the Application of Ultrashort High Voltage Pulses.” Special issue on “Bioelectrics” in *IEEE Transactions on Dielectrics and Electrical Insulation* 16 (2009): 1273-1279.

Scarlett, Shaka S., Jody A. White, Peter F. Blackmore, **Karl H. Schoenbach**, and **Juergen Kolb**. “Regulation of Intracellular Calcium Concentration by Nanosecond Pulsed Electric Fields.” *Biochimica et Biophysica Acta - Biomembranes* 1788 (2009): 1168-1175.

Stacey, Michael W. see Shizhi Qian, Aerospace Engineering, College of Engineering.

Virginia Modeling, Analysis and Simulation Center

Banks, C.M. and **J.A. Sokolowski**. “Modeling the Niger Delta Insurgency.” *The Social Science Journal* 47.2 (2010): 271-293.

Diaz, R. and A. Ardalán. “An Analysis of Dual-Kanban Just-In-Time Systems in a Non-repetitive Environment.” *Production and Operations Management* 19.2 (2010): 233-245.

Ezell, Barry, Steven P. Bennett, Detlof von Winterfeldt, **John Sokolowski**, and **Andrew Collins**. “Probabilistic Risk Analysis and Terrorism Risk.” *Risk Analysis* 30.4 (2010): 575-589.

Shen, Y. see C. Lin, Engineering Technology, College of Engineering.

Shen, Yuzhong, **Jiang Li**, Vamsi Mantena, and Srinivas Jakkula. “Seasonal Adaptation of Vegetation Color in Satellite Images for Flight Simulations.” *Journal of Intelligent Learning Systems and Applications* 1.1 (2009): 42-51.

Sokolowski, J.A. and **C.M. Banks**. “A Methodology to Explore the Impact of Policy Changes on Insurgencies.” *International Journal of System of Systems Engineering* 1.3 (2009): 314-328.

Sokolowski, J.A. and **C.M. Banks**. “Unequal Protagonists: Modeling the Irish Insurgency 1916-1921.” *International Journal of System of Systems Engineering* 1.4 (2009): 445-471.

Patricia W. and J. Douglas Perry Library

Yaco, S. and **T. Graves**. “Mapping the Desegregation of Education in Virginia: Where Are the Records?” *Virginia Libraries* 55.4 (2009): 9-10.

Social Science Research Center

Vandecar-Burdin, Tancy and Brian Payne. “Risk Factors for Victimization of Younger and Older Persons: Assessing Differences in Isolation, Intra-individual Characteristics, and Health Factors.” *Journal of Criminal Justice* 38.2 (2010): 160-165.



Conference Publications

Center for Learning Technologies

Abdous, M. "Operationalizing Quality Assurance in E-learning." *New Media Consortium (NMC) Annual Conference*, Monterey, CA, June 9-13, 2009.

Abdous, M. "Using Text Mining to Support Learning in Live Video Streaming." *New Media Consortium Annual Conference*, Monterey, CA, June 9-13, 2009.

Abdous, M. "Operationalizing Quality Assurance in E-learning." *The 15th SLOAN-C International Conference on Asynchronous Learning Networks*, Orlando, FL, October 28-30, 2009.

Abdous, M. "Foundational Strategies of Effective Online Teaching." *Second International Conference & Exhibition for ZAIN e-Learning Center*, Manama, Bahrain, April 6-8, 2010.

Abdous, M. "Operationalizing Quality Assurance in E-learning: A Process-Oriented Lifecycle Model." *Global Learn Asia Pacific 2010 Global Conference on Learning and Technology*, Penang, Malaysia, May 17-20, 2010.

College of Arts and Letters

Art

Fitzgerald, Kenneth. "Designing Designing: Examining how we do what we do." Paper: "First Class." *National UCDA Design Education Summit*, University of Kansas, Lawrence, KS, 2010.

Fitzgerald, Kenneth. "Design, Community and the Rhetoric of Authenticity." Panel: "New Kids, Sell Outs, and Celebrity Suicides." *North Carolina State Master of Graphic Design 2010 Symposium*, College of Design at North Carolina State University, Raleigh, NC, 2010.

Lichi, Anthony. "Savonarola, Portraiture and Prophecy." *American Comparative Literature*

Association 2010 Annual Meeting, New Orleans, LA, April 2010.

Lichi, Anthony. "Michelangelo and the Art of Time." *American Comparative Literature Association 2009 Annual Meeting*, Harvard University, MA, March 2009.

Lichi, Anthony. "'Spectacles of Death': Savonarola and the Senses." *Fifteenth Annual Arizona Center for Medieval and Renaissance Studies Conference*, Arizona State University, AZ, February 2009.

Communication & Theatre Arts

Anderson, Tim. "Not So Easy Listening: The Critical Employment of Popular Music Recordings in *Mad Men*." *Society for Cinema Studies Annual Conference*, Los Angeles, CA, March 2010.

Anderson, Tim. "Questioning the 20-Minute Paper Format for a 21st Century Paradigm." *Society for Cinema Studies Annual Conference*, Los Angeles, CA, March 2010.

Arnett, Robert. "Teaching the Hollywood Formula Versus an Organic Method of Screenwriting." *University Film and Video Association Annual Conference*, New Orleans, LA, August 2009.

Chen, Yi-Fan. "The Mobile Music Device Uses and Gratifications: The Interactions of Mobile Music Device Dependency and Motivations." *International Communication Association Annual Conference*, Singapore, June 2010.

Hammond, Katherine and Konrad Winters. "Breaking the Mold of How We Were Taught." *United States Institute of Technical Theatre Annual Conference*, Kansas City, MO, March 2010.

Edgerton, Gary R. "A Generational Reappraisal of Ric Burns's *The Way West* and Stephen Ives and Ken Burns's *The West*." *American Culture Association Annual Conference*, St. Louis, MO, April 2010.

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Hassencahl, Fran. "Framing Women's Issues in *The Fountain Magazine*," East and West Encounters: The Gülen Movement, Gulen Conference, Los Angeles, CA, March 2010.

Hassencahl, Fran. "Blame it on the Pigs: Cartoon Coverage of Swine Flu." *Popular Culture Association Annual Conference*, St. Louis, MO, April 2010.

Hassencahl, Fran. "Press Coverage of Swine Flu/H1N1." *8th International Symposium on Communication and the Millennium*, Eskisehir, Turkey, June 2010.

Hassencahl, Fran. "Looking Beyond the Treaty of Sèvres: Pamuk's Reconciliation of the Bitter and the Sweet." *7th Literature & History Middle Eastern Perspectives Conference*, Beer-Sheba, Israel, June 2010.

Jones, Jeffrey P. "A Dialogue on Satire News and the Crisis of Truth in Postmodern Political TV." *Society for Cinema Studies Annual Conference*, Los Angeles, CA, March 2010.

Lee, Jinsun. "The Rise of Netizens: New Agents of Social Movements in the New Media Age." *International Communication Association Annual Conference*, Singapore, June 2010.

Lee, Jinsun. "Cultural Production as Political Participation: Reconsidering Social Movements in the New Media Age." *International Communication Association Annual Conference*, Singapore, June 2010.

Lee, Jinsun. "A Cross-National Collaborative Wikipedia Project by U.S. and Korean College Students." *American Association of Teachers of Korean Annual Conference*, St. Louis, MO, June 2010.

Pitts, Margaret and Burton St. John III. "Disconnects Between News Framing and Parental Discourse Concerning the State-Mandated HPV Vaccine: Implications for Dialogic Health Communication and Health Literacy." *National Communication Association Annual Conference*, Chicago, IL, November 2009.

Pitts, Margaret. "Positive Communication: New Directions in the Practice of Health Communication and Wellness." *International Conference on Language and Social Psychology*, Brisbane, Australia, June 2010.

Pitts, Margaret. "Gossip and Other Types of Everyday Talk in Identity Development in Intergroup Settings." *International Conference on Language and Social Psychology*, Brisbane, Australia, June 2010.

Pullen, Stephen. "Writing for the Independent Market." *Los Angeles Film Festival*, Los Angeles, CA, June 2010.

St. John III, Burton and Ana Timofte. "Restoring the Primacy of Industry: Psychological Action Propaganda and Advertising during the Depression Era." *Association for Education in Journalism and Mass Communication Annual Conference*, Boston, MA, August 2009.

St. John III, Burton. "A View that's Fit to Print: The National Association of Manufacturers' Free Enterprise Rhetoric as Integration Propaganda in *The New York Times*, 1937-1939." *Association for Education in Journalism and Mass Communication Annual Conference*, Boston, MA, August 2009.

St. John III, Burton. "Citizen Journalism and Propaganda of the Deed." *Association for Education in Journalism and Mass Communication Annual Conference*, Boston, MA, August 2009.

Santo, Avi. "Selling the Silver Bullet: Licensing the Lone Ranger in Postwar America." *Society for Cinema Studies Annual Conference*, Los Angeles, CA, March 2010.

Santo, Avi. "Digital Scholarship and New Platforms." *The Digital University Conference*, New York, NY, April 2010.

Socha, Thomas J. "Family Communication and the Development of Children's Character Strengths: Towards a Conceptual Model." *National Communication Association Annual Conference*, Chicago, IL, November 2009.

Socha, Thomas J. "Children and Communication Development: Missing Links Between Family and Group Communication." *National Communication Association Annual Conference*, Chicago, IL, November 2009.

Socha, Thomas J. "Positive Communication in Human Relating Course: Course Design and Assignments." *Southern States Communication Association Annual Conference*, Memphis, TN, April 2010.

English

Appleton, Sarah. "Corp(Se)ocracy: The Body as Commodity in Margaret Atwood's *Oryx and Crake* and *The Year of the Flood*." *MLA*, Philadelphia, PA, 009.

Igloria, Luisa. "Poets as Legislators: Bearing Visions in Private and in Public." *2010 AWP Annual Conference*, Denver, CO, April 7-10, 2010.

Igloria, Luisa. "Memory, Identity, and Poetry." *2010 AWP Annual Conference*, Denver, CO, April 7-10, 2010.

Phillips, Delores B. "More Bitter than Sweet: Caribbean Gastrocartographies and Bodies in Exile." *Going Caribbean: New Perspectives in Caribbean Art and Literature*, Portugal, November 3, 2009.

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Phillips, Delores B. "And There's Only My Imagination Where Our History Should Be: Memoir Cookbooks, Childhood Memory, and Migratory Trauma." *Modern Language Association Annual Convention*, Philadelphia, PA, December 29, 2009.

Phillips, Delores B. "Echoes on the Tongue: Graceland's Culinary Perversity." *Modern Language Association Annual Convention*, Philadelphia, PA, December 29, 2009.

Potts, Liza. "Re-Writing Labels: Identifying how the LOFNOTC use social media to support AFP." *Popular Culture and American Culture Associations Annual Conference: Communication and Digital Culture Area*, St. Louis, MO, 2010.

Potts, Liza, Vincent Rhodes, and Kathie Gossett. "Tweetagogy: Building Community in 140 Characters or Less." *Association of Teachers of Technical Writing Annual Conference*, Louisville, KY, 2010.

Potts, Liza. "Tweeting Disaster: How Twitter Can Support Victims, Survivors, and the Rest of Us." *10th Annual Conference of the Association of Internet Researchers*, Milwaukee, WI, 2010.

Potts, Liza, Bartocci, Gerianne. "<Method>Experience Design</Method>." *The 27th Association of Computing Machinery's International Conference on Design of Communication*, Bloomington, IN, 2009.

Potts, Liza. "Experience Design for Participation." *The Sociotech Workshop at Interact '09 Conference*, Uppsala, Sweden, 2009.

Potts, Liza. "Peering into Disaster: Social Software Use from the Indian Ocean Earthquake to the Mumbai Bombings." *The International Professional Communication Conference*. Honolulu, HI, 2009.

Roh, David. "Distributed Communications and The Californian Ideology in The Crying of Lot 49." *American Literature Association Conference*, San Francisco, CA, May 2010.

Roh, David. "Younghill Kang and Taylorism." *American Literature Association Conference*, San Francisco, CA, May 2010.

Roh, David. "The Japanese and American Construction of Korean Labor in East Goes West." *Association of Asian American Studies Convention*, Austin, TX, April 10, 2010.

Foreign Languages & Literatures

Huizar, Angelica J. "Transliteration and Transnational Crossings: Sound and Visual Poetics." Seventh International Symposium: *Mother Tongues and Other Cultures: Creative Writing, Translation and Multi-Cultural Transformation*, Norfolk, VA, September 10-13, 2009.

Huizar, Angelica J. "Cultural Politics of the Image: Digital Snapshots of/from Latin America." *Cultural Studies Association Conference*, Berkeley, CA, March 18-20, 2010.

Huizar, Angelica J. "Deciphering, Decoding and Appreciating Digital Media of and from Latin America." *2010 Association of History, Literature, Science and Technology Conference: Deciphering*, Madrid, Spain, June 23-25, 2010.

Lubich, F.A. "Why Study German? Wie überzeugt man amerikanische Bildungspolitiker in Zeiten drastischer Haushaltskürzungen vom Nutzen und Vorteil deutscher Sprach- und Kulturprogramme." *Spring Workshop, National Identities, American Association of Teachers in German*, April 2010, p. 1-17, Fredericksburg, VA, March 2010.

History

Frank, Jr., Willard C. "Transatlantic Influences: James Martineau and American Religious Thought." *Martineau Society Annual Conference*, Boston, MA, July 15, 2009.

Frank, Jr., Willard C. "Success and Failure of Soviet Naval Personnel Serving the Spanish Republican Fleet in War, 1936-1939." *Society for Military History Conference*, Lexington, VA, May 22, 2010.

Hametz, Maura. "Mare Nostrum and Holy Land: Depicting the Italian Mediterranean in *Sul Mare*, 1926-1936." *SIS Interim Conference*, Venice, Italy, April 18, 2010.

Hametz, Maura. "Choosing Italy's Citizens in the Eastern Borderlands." *American Historical Association*, San Diego, CA, January 9, 2010.

Heidbrink, Ingo. "Experiences with interdisciplinary academic PhD-programs on maritime history." *International Congress of Maritime Museums*, Esbjerg, Germany, October 8, 2009.

Heidbrink, Ingo. "The import, production and use of natural ice in Germany - Regional histories in an international comparative perspective." *Workshop Natural Ice Trade*, Oslo, February 11, 2009.

Heidbrink, Ingo. "Academic teaching in the arctic periphery versus teaching in the centers of the western world." *American Historical Association*, San Diego, CA, January 6, 2010.

Heidbrink, Ingo. "U.S. Influences on Danish Colonial Greenland - the material culture." *European Social Science History Conference*, Ghent, Belgium, April 16, 2010.

Heidbrink, Ingo. "American Sailors in Greenlandic Waters - a socio-economic perspective." *North*

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American Society for Oceanic History, Mystic, CT, May 12, 2010.

Holden, Robert H. "Beyond War: Variations in State Formation as Seen from Central America and Elsewhere in Latin America." *Center for Business and Politics, Copenhagen Business School*, Copenhagen, Denmark, October 3, 2009.

Music

Treviño, Alexander. "The effect of the use of an aural model during score study on undergraduate music majors' conducting gesture." *International Society of Music Education Asia-Pacific Regional Conference—7th Asia Pacific Symposium on Music Education Research*, p. 479-481, Shanghai, China, June 24-28, 2009.

Philosophy

Bluhm, Robyn. "Beyond neurosexism: Is it possible to defend the female brain?" *Hypatia 25th Anniversary Conference*, Seattle, WA, October 2009.

Bluhm, Robyn. "Why Evidence-based Medicine is Bad for Biological Psychiatry." *22nd Annual Meeting of the Association for the Advancement of Philosophy and Psychiatry*, New Orleans, LA, May 2010.

Bluhm, Robyn. "The influence of social and methodological values on functional neuroimaging research on sex differences." *The International Association of Woman Philosophers Conference*, London, ON, June 2010.

Godden, David M. "The epistemic utility of Toulmin's argument fields." Ed. J. Ritola. *Argument Cultures: The 2009 Ontario Society for the Study of Argumentation Conference*. Windsor, ON, June 3-6, 2009.

Godden, David M. "Corroborative evidence." *Wake Forest University 13th Biennial Conference on Argumentation*, Winston-Salem, NC, March 19-21, 2010.

Hatab, Lawrence. "Talking Ourselves Into Selfhood: Consciousness and Language in GS 354." *Friedrich Nietzsche Society Annual Meeting*, Oxford, England, Sept. 11-13, 2009.

Hatab, Lawrence. "Subject and Object: Heideggerian Reflections on the Strange History of Two Modern Words." *Annual SPEP meeting*, Washington, DC, October 29-31, 2009.

Hatab, Lawrence. "Nietzsche on Nature and Life Affirmation." *International Nietzsche Conference*, Santiago, Chile, November 2-4, 2009.

Political Science & Geography

Adams, Francis. "Bilateral Economic Assistance to Latin America." *Global Studies Association*, Champaign, IL, May 7-9, 2009.

Adams, Francis. "Multilateral Support for Latin American Development." *Middle Atlantic Council of Latin American Studies*, Baltimore, MD, March 26-27, 2010.

Chapman, Thomas and Robert Yarbrough. "Mapping New Terrain: An Initial Assessment of Community Geography Project Outcomes." *Association of American Geographers Annual Meeting*, Washington, DC, April 2010.

Chen, Jie. "Generalized and Particularized Social Capital in Urban China." *2009 Annual Meeting of the American Political Science Association*, Toronto, Canada, September 2-3, 2009.

Clemons, Michael L. "Racial Manifestations in Presidential Politics: The Case of Barack Obama." *Annual Meeting of the Midwest Political Science Association*, Chicago, IL, April 22-25, 2010.

Clemons, Michael L. "Societal Factors Influencing Foreign Policy Success: The Case of the Congressional Black Caucus." *Annual Meeting of the National Council for Black Studies*, New Orleans, LA, March 17-20, 2010.

Earnest, David C. "From Man, the State, and War to Vertices, Networks and Change: Relational Ontologies to Understand Complexity in Politics." *Annual Meeting of the American Political Science Association*, Toronto, Canada, September 4, 2009.

Leib, Jonathan. "Using License Plates to Teach Political Geography Concepts." *National Council for Geographic Education Annual Meeting* San Juan, Puerto Rico, 2009.

Leib, Jonathan. "'I Believe'?: Religion, Popular Iconography, and the Politics of Identity in the American South." *Association of American Geographers Annual Meeting*. Las Vegas, NV.

Nicholas Quinton and **Jonathan Leib.** "Recent Trends in Electoral Geography." *Association of American Geographers Political Geography Special Group Conference*. Las Vegas, NV.

Sussman, Glen and Byron W. Daynes. "Binational Ecopolitics: Comparing U.S.-Canadian Environmental Policymaking." *American Political Science Association*, Toronto, Ontario, Canada September 2009.

Zeigler, Donald. "Pole Banners and the Creation of Social Space." *Association of American Geographers*, Washington, DC, April, 2010.

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Zeigler, Donald. “Central Places: Theory and Application.” *National Conference on Geography Education*, San Juan, Puerto Rico, September 25, 2009.

Zeigler, Donald. “Persuasive Maps: Their Application to Concepts in AP Human Geography.” *National Conference on Geography Education*, San Juan, Puerto Rico, September 25, 2009.

Zeigler, Donald. “The World Political Map: Behind and Beyond the Nation-State.” *Advanced Placement Annual Conference*, San Antonio, TX, July 17, 2009.

Women’s Studies

Fish, Jennifer. “Global Trade-Local Maids. Exploited, Undervalued-and Essential: The Plight of Domestic Workers.” *Social Law Project*, p. 21-38, Cape Town, South Africa, May 7-8, 2010.

College of Business and Public Administration

Accounting

Amoah, Nana and A. Tang. “Is the Outcome of a Securities Class Action a Reliable Signal of Accounting Irregularity?” *American Accounting Association Public Interest Section Conference*, Arlington, VA, April 16-17, 2010.

Amoah, Nana and A. Tang. “Does Accounting Misstatement Period Influence Securities Class Action Penalties?” *American Accounting Association Public Interest Section Conference*, Arlington, VA, April 16-17, 2010.

Seese, Larry and James Kohlmeyerm III. “The Legitimacy of Online Accounting Degrees: Perceptions of non-CPA Firms.” *2010 American Accounting Association Annual Meeting*, San Francisco, CA, July 31-August 4, 2010.

Xu, Yin. “Revenue Recognition in Long-Term Construction.” *IAAER Mini-Conference*, Palm Springs, CA, January 2010.

Economics

Talley, Wayne. “The Security Incident Cycle of Ports.” *Developing Effective and Efficient Maritime Security Measures: Proceedings for the International Forum on Maritime Security 2010*, p. 23-33. Keelung, Taiwan, April 2010.

Finance, Insurance or Real Estate

Doukas, John A. “Family Control and Financing Decisions.” *European Financial Management*

Symposium, CIRANO, Montreal, Canada, April 2010.

Doukas, John A. “Family Control and Financing Decisions.” *European Financial Management Association*, Aarhus, Denmark, June 23-26, 2010.

Seifert, Bruce and Halit Gonenc. “Shareholder and Creditor Rights and R&D Expenditures.” *Special Conference on Emerging Markets*, Beijing, China, August 23-25, 2009.

Seifert, Bruce and Halit Gonenc. “Creditor Rights and R&D Expenditures.” *FMA European Conference*, Hamburg, Germany, June 10-11, 2010.

Seifert, Bruce and Halit Gonenc. “Issuing and Repurchasing: The Influence of Mispricing, Corporate Lifecycle and Financing Waves.” *European Financial Management Association*, Aarhus, Denmark, June 23-26, 2010.

Seiler, Michael, Marshall Gangel and Andrew Collins. “The Creation of an Agent-Based Mortgage Contagion Simulation Model.” *American Real Estate Society*, Naples, FL, April 2010.

Seiler, Michael, Vicky L. Seiler, David M. Harrison, and Mark Lane. “Familiarity Bias and Perceived Future Home Price Movements.” *American Real Estate Society*, Naples, FL, April 2010.

Michael Seiler, David M. Harrison and Kimberly F. Luchtenberg. “Lines of Credit (LOC) and the Capital Structure of REITs.” *American Real Estate Society*, Naples, FL, April 2010.

Yung, Kenneth and Qian Sun. “Earnings Quality and Corporate Cash Holdings.” *Eastern Finance Association Annual Conference*, Washington DC, 2009.

Yung, Kenneth and Liu Wang. “Earnings Management among Chinese State-owned Enterprises.” *Southern Finance Association Conference*, Captiva, FL, 2009.

Yung, Kenneth, Yan Lin and Hamid Rahmid. “Overconfidence in REIT Stock Trading.” *2010 Eastern Finance Association Meetings*, Miami, FL, 2010.

Yung, Kenneth, Yan Lin and Hamid Rahman. “Is Overconfidence also an Industry Phenomenon: The Case of REITs.” *2010 MidWest Finance Association Meeting*, Las Vegas, NV, 2010.

Information Technology & Decision Sciences

Chatfield, Dean. “The impact of cascading failures on the bullwhip effect.” *2009 Meeting of the Decision Sciences Institute*, New Orleans, LA, November 14-17, 2009.

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Cook, David P., Dean C. Chatfield, and J.C. Hayya. "The impact of cascading failures on the bullwhip effect." *2009 Meeting of the Decision Sciences Institute*, New Orleans, LA, November, 2009.

Li, Ling and Li Xu. "The Role of TQM in ERP Implementation." *The International Federation for Information Processing International Conference on Research and Practical Issues of Enterprise Information Systems*, Rio Grande do Norte, Brazil, 2010.

Li, Ling and Li Xu. "Shipper's voice: Assessing the perceived benefits of logistics service in global supply chain." *IAME Annual Conference*, Copenhagen, Denmark, 2009.

Li, Ling and Marek Wermus. "Managing dental clinic inventory." *The 40th Annual Meeting of Decision Sciences Institute*, New Orleans, LA, 2009.

Mann, Joan and Himanshu Keskar. "Bridge Personnel in the Twenty First Century: Organizational Attempts to Bridge the IT-User Gap." *International Academy of Business and Public Administration Conference*, 2009.

Markowski, Edward. "Simulation Experiments to Evaluate an Alternative to One Factor ANOVA." *2010 Annual Meeting of the Western Chapter of the Decision Sciences Institute*, San Diego, CA, 2010.

Wilson, Darryl, T. King, A. O'Leary-Kelly, N. Brooks, and V. McKinney. "An Exploration of the Antecedents to Cynicism About The Information Technology Profession." *Academy of Management Conference*, August 2009.

Wu, Harris and Hongwei Zhu. "Sloppy Tags and Metacrap? Quality of User Contributed Tags in Collaborative Social Tagging Systems." *15th Americas Conference on Information Systems*, San Francisco, CA, August 6-9, 2009.

Xu, Li, James D. Jones, and Susanna Badiola. "Things to Think About, When Thinking About Enterprise-Wide Information: Knowledge Representation Issue." *IFIP Third International Conference on Research and Practical Issues of Enterprise Information Systems*, Győr, Hungary, October 2009.

Xu, Li. "Modeling and Simulation in Enterprise Computing." *IASTED International Conference on Modelling, Simulation, and Identification*, Beijing, October 2009.

Zhu, Hongwei and Liuliu Fu. "Towards Quality of Data Standards: Empirical Findings from XBRL." *The 30th International Conference on Information Systems*, Phoenix, AZ, December 15-18, 2009.

Zhu, Hongwei, X. Li, S.E. Madnick, and Y. Fan. "Reconciling Semantic Heterogeneity in Web Services

Composition." *The 30th International Conference on Information System*, Phoenix, AZ, December 15-18, 2009.

Management

Deadrick, Diana, R.A. Thacker, and R.B. Dunham. "Challenges and opportunities in teaching online and from remote locations." *Pre-Conference Session, Annual Meeting of the Academy of Management*, Chicago, IL, August 2009.

Judge, William Q., A. Stafsudd, and C. Ahmadjian. "The 2008 Financial Crisis in the United States: Lessons Learned from Sweden and Japan." *Global Financial Crisis conference co-sponsored by CGIR and the Wharton Graduate School of Business*, Philadelphia, PA, 2010.

Judge, William Q. and H. Zhang. "The Application of Transaction Cost Economics to Corporate Governance under the Recent Financial Crisis." *Global Financial Crisis conference co-sponsored by CGIR and the Wharton School of Business*, Philadelphia, PA, 2010.

Judge, William Q., G. Bell, T. Tilaulicar, and A. Zattoni. "International Corporate Governance Database Project II. IMD professional development workshop." *Academy of Management Meetings*, Montreal, Canada, 2010.

Judge, William Q. and Yuping Liu. "Antecedents of corporate innovation: The case of Second Life." *Strategic Management Society Meetings*, Washington, DC, 2009.

Ding, H.B., Soo-Hoon Lee and P.H. Phan. "A Social Identity Theory of the Family Enterprise." *Theories of Family Enterprise Conference*, Edmonton, Canada, May, 2010.

Morris, Sara and W.T. Proffitt, Jr. "Shareholder resolutions: A closer look at how investor activists select their targets." Annual meeting of the *International Association for Business and Society*, Banff, Canada, 2010.

Morris, Sara and Barbara Bartkus. "Shareholder proposals: Hoping better governance will improve corporate social performance?" *Annual meeting of the Academy of Management*, Chicago, IL, August 7-11, 2009.

Morris, Sara. "Corporate targets of shareholder resolutions: What do green resolutions and poor employee relations mean?" *Annual meeting of the International Association for Business and Society*, Snowmass, CO, 2009.

Sethi, Deepak, Moghadam Kaveh and Judy Wu. "Towards a More Comprehensive Taxonomy for Analyzing the Strategic Motivations of MNEs from the

5.3.3 Annual Report FY 2010

Developed and Emerging Economies.” *Academy of International Business Conference*, Rio de Janeiro, Brazil, June 2010.

Marketing

Glassman, Myron, Mahesh Gopinath, and Prashanth Nyer. “Targeting Effect of Multilingual Product Packaging.” *Society for Consumer Psychology Conference*, Toronto, Ontario, August 6-9, 2009.

Kirchner, Theresa A. and **John B. Ford**. “Nonprofit Arts and Cultural Alliances: Qualitative and Quantitative Assessment of an Emerging Phenomenon.” *The Tenth International Conference on Arts and Cultural Management*, Dallas, TX, July 2009.

Mottner, Sandra, John B. Ford, and **Theresa A. Kirchner**. “Internal Competition in Nonprofit Cultural Arts Organizations: A Force for Good or “Evil”? *The Tenth International Conference on Arts and Cultural Management*, Dallas, TX, July 2009.

Bruegelmans, E. and **Yuping Liu-Thompkins**. “The Effects of a Liability-Reducing Loyalty Program Policy Change on Consumer Purchase Behavior.” *European Marketing Academy 2010 Annual Conference*, Copenhagen, Denmark, 2010.

Liu, Yuping and **Els Bruegelmans**. “Loyalty Program Time Horizon: Effects of Policy Change on Consumer Behavior.” *INFORMS 2009 Marketing Science Conference*, Ann Arbor, MI, 2009.

Urban Studies & Public Administration

Alkadry, Mohamad, B. Blessett, and **T. Chapman**. “‘Naturally Negro’: Public Housing Site Selection and the Re-segregation of Baltimore.” *National Association of Public Administration Social Equity Conference*, June 16-18, 2010.

Alkadry, Mohamad. “Unlimited & Unchecked Power: The Use of Secret Evidence Law.” *Public Administration Theory Network*, May 19-22, 2010.

Alkadry, Mohamad and **B. Blessett**. “Moral Silence & Imperial Functionaries in American Inner Cities.” *Public Administration Theory Network*, Omaha, NE, May 19-22, 2010.

Alkadry, Mohamad and **B. Blessett**. “Administrative Culpability in the Making of the Second Ghetto.” *American Society of Public Administration*, San Jose, TX, April 2010.

Alkadry, Mohamad and **M. Brown**. “Social Networking and its Relationship to Individual Performance in Organizations.” *American Society of Public Administration*, San Jose, TX, April 2010.

Alkadry, Mohamad and **M. Brown**. “Effective Networks: Examining the relationship between social media and individual performance in organizations.” *Hampton Roads Chapter of the American Society of Public Administration*, Norfolk, VA, March 2010.

Alkadry, Mohamad and **B. Blessett**. “Misappropriated Power: An analysis of administrative discretion and its impact on African American communities.” *Hampton Roads Chapter of the American Society of Public Administration*, Norfolk, VA, March 2010.

Morris, John C., William M. Leavitt, and **Madeleine W. McNamara**. “Multiple-Sector Partnerships and the Engagement of Citizens in Social Marketing Campaigns.” *Annual Symposium of the Hampton Roads Chapter of the American Society for Public Administration*, Norfolk, VA, March 2010.

Mengistu, Berhanu and **Seid Hassan**. “State Capture: An Empirical Assessment of the Ethiopian Case.” *Social Equity Leadership Conference*, Baltimore, MD, June 2010.

Mengistu, Berhanu, Tom Poulin, and **Sebawit Genete**. “The Science of Public Administration: Revisiting the 1947 Dahl-Simon Debate.” *Public Administration Theory Network 23rd Annual Conference*, Omaha, NE, May 2010.

Mengistu, Berhanu, T. Musumeci, and **Juita Yusuf**. “Budgeting in Good Times: Where Did All the Money Go?” *Association for Budgeting and Financial Management Annual Conference*, Washington, DC, 2009.

Merriman, Connie. “Adjunct faculty organizational sense of belonging: Connecting from the fringes of the fabric of academe.” *Annual conference of the AAUP Conference on the Future of Higher Education*, June 2010.

Morris, John C. and **John R. Lombard**. “Cooperating Across State Borders in Economic Development: A Call for Cooperation.” *Annual Meetings of the American Society for Public Administration*, San Jose, CA, April 2010.

Morris, John C., David A. Breaux, Vivian W. Greentree, and **Rick Travis**. “Determinants of Broad-Spectrum Abortion Rights in Southern States: A Comparative Analysis.” *Citadel Symposium on Southern Politics*, Charleston, SC, March 2010.

Morris, John C., Vivian W. Greentree, and **Danica Hays**. “A Case Study Analysis of the Impact of Parental Involvement Laws on Minors’ Abortion Experiences.” *Annual Meetings of the Southern Political Science Association*, Atlanta, GA, January 2010.

Morris, John C. and **Benjamin Inman**. “The Case of the ‘TWICing’ Time Bomb: Privatization in the

5.3.3 Annual Report FY 2010

Transportation Worker Identification Card Program.” *Annual Meetings of the Southeastern Conference for Public Administration*, Louisville, KY, September 2009.

Murphy Greene, Celeste. “Environmental Justice and Florida Farm Workers.” *2010 conference of the Hampton Roads Chapter of the American Society for Public Administration*, Norfolk, VA, March 2010.

Yusuf, Juita-Elena, L. O’Connell and S. Abutabenjeh. “An Unfunded Mandate by Any Other Name? State-Local Ownership and Financing of Roads.” *Western Social Sciences Association Conference*, Albuquerque, NM, 2009.

Liu, G., J. Fowles and Juita-Elena Yusuf. “New York State Fiscal Institutions and Municipal Borrowing: Do Debt and Taxation Limits Really Impact Capital Costs?” *Association for Budgeting and Financial Management Annual Conference*, Washington, DC, 2009.

Yusuf, Juita-Elena, S. Abutabenjeh and L. O’Connell. “The State of Transportation Finance Since ISTEA: A 15-year Analysis.” *Association for Budgeting and Financial Management Annual Conference*, Washington, DC, 2009.

Yusuf, Juita-Elena and T. Musumeci. “The Effects of Municipalities and Their Employees of GASB 45: A Tale of One City.” *Western Social Sciences Association Conference*, Albuquerque, NM, 2009.

Yusuf, Juita-Elena and S. Abutabenjeh. “Evaluation of Entrepreneurial Assistance Programs: The State of the Research.” *Mason Entrepreneurship Research Conference*, Fairfax, VA, 2009.

Darden College of Education

STEM Education and Professional Studies

Dickerson, D.L., J.J. Steckroth, L.L. Butler. “Professional development in science education via podcasting.” <http://theaste.org/cgi-bin/2009conference/2009proceedings.pl>, 2009.

Katsioloudis, P. “Identification of Quality Indicators for Visual-based Learning Material in Technology Education Programs for Grades 7-12.” *American Society of Engineering Education Conference Proceedings*, Budapest, Hungary, 2009.

Tomovic, C. “Young ‘Edventures’ in STEM Education: Leadership and team development for a creative, inclusive, sustainable world.” *Knowledge Globalization Conference Proceedings*, Boston, MA, 2009.

Frank Batten College of Engineering and Technology

Aerospace Engineering

Ash, R.L., W.L. Dowler and G. Varsi. “A Fixed Mars ISRU Base for Accelerated Exploration.” *AIAA Space Conference and Exposition*, Pasadena, CA, September 14-17, 2009.

Blass, E., B. McJunkin, S. Potter and R.L. Ash. “Mars CO₂ Powered ISRU Propulsion System.” *AIAA Space Conference and Exposition*, Pasadena, CA, September 14-17, 2009.

Baysal, O. see Diefeng Gu, Applied Research Center, College of Engineering.

Gecgel, M. and O. Baysal. “Modeling and Simulation of Coaxial-Rotor Helicopter Aerodynamics in Hover and Forward Flight.” *The 40th Fluid Dynamics Conference*, AIAA Paper No. 2010-4479, Chicago, IL, June 2010.

Baysal, O. and G. Zhou. “UAV-based Multi-sensor Data Fusion for Time-critical Disaster Response.” *International Symposium on Geo-spatial Solutions for Emergency Management (GSEM2009)*, Beijing, China, September 14-16, 2009.

Beskok, Ali. see Diefeng Gu, Applied Research Center, College of Engineering.

Celik, B., A. Beskok and M. Raisee. “Heat Transfer Enhancement in a Straight Channel Via Transversely Oscillating Adiabatic Circular Cylinder.” *First International Conference on Computational Methods for Thermal Problems*, Naples, Italy, September 8-10, 2009.

Ai, Y., S. Park, J. Zhu, X. Xuan, A. Beskok and S. Qian. “Transient Electrophoretic Motion of Charged Particles through an L-shaped Microchannel.” *IMECE 2009*, Lake Buena Vista, FL, November 13-19, 2009.

Ai, Y., S.W. Joo, A. Beskok and S. Qian. “Dielectrophoretic Choking Phenomenon in a Converging-diverging Channel.” *The 13th International Conference on Surface & Colloid Science and the 83rd ACS Colloid & Surface Science Symposium*, New York, NY, June 14-19, 2009.

Ai, Y., A. Beskok, S. Qian and S.W. Joo. “DC Electrokinetic Transport of a Cylindrical Particle in a Straight Microchannel.” *62nd Annual Meeting of the APS Division of Fluid Dynamics*, Minneapolis, MN, November 22-24, 2009.

Ai, Y., S.W. Joo, A. Beskok and S. Qian. “Electrophoretic Motion of Charged Particles in Microfluidic Devices with Non-uniform Electric Fields.” *Gordon Research Conferences on the Physics and*

5.3.3 Annual Report FY 2010

Chemistry of Microfluidics, Lucca, Italy, June 28-July 3, 2009.

Mokhtar, W. and **C.P. Britcher**. "Further Analysis of Pickup Trucks Aerodynamics." *SAE World Congress and Exhibition*, April 2009.

Ozcer, I. and **O. Kandil**. "Design Optimization of Nose Geometry of F-5E Aircraft for Sonic Boom Mitigation." *47th AIAA Aerospace Sciences Meeting*, Orlando, FL, January 5-8, 2009.

Yagiz, B. and **O. Kandil**. "Optimization of Active Flow Control for Transonic Aerodynamics." *27th AIAA Applied Aerodynamics Conference*, San Antonio, TX, June 22-25, 2009.

D. Landman, et al., "Understanding Practical Limits to Heavy Truck Drag Reduction." *2009 SAE Commercial Vehicle Congress*, Rosemont, IL, October 6-7, 2009.

Johnson, T., **D. Landman**, et al. "A Multi-Component Force Transducer Design from an Existing Rocket Payload Attachment Fitting." *AIAA USAF T and E Days*, Albuquerque, NM, February 10-12, 2009.

Omran, A., **D. Landman** and B. Newman. "Global Stability and Control Derivative Modeling Using Design of Experiments." *AIAA Atmospheric Flight Mechanics Conference*, Chicago, IL, August 10-13, 2009.

Newman, B. and S.D. Vtipil. "Constrained Optimal Orbit Design for Earth Observation Satellites Based on User Requirements." *AAS/AIAA Astrodynamics Specialist Conference*, Pittsburgh, PA, August 2009.

Newman, B. and M. Ghazy. "Keeping a Spacecraft on a Vertical Circular Orbit Around an Earth-Moon Lagrange Point." *AAS/AIAA Astrodynamics Specialist Conference*, Pittsburgh, PA, August 2009.

Newman, B. and M. Ghazy. "Vertical Correction of an Approximate Planar Periodic Orbit about the Larger Primary." *AAS/AIAA Astrodynamics Specialist Conference*, Pittsburgh, PA, August 2009.

Newman, B. and M. Okasha. "Switching Algorithm to Avoid Attitude Representation Singularity." *AIAA Atmospheric Flight Mechanics Conference*, Chicago, IL, August 2009.

Newman, B. and A. Omran. "On Dynamical Assembly of Nonlinear Uniaxial Atmospheric Flight Mechanics." *AIAA Atmospheric Flight Mechanics Conference*, Chicago, IL, August 2009.

Newman, B. and S.D. Vtipil. "Repeat Ground Track Methods for Earth Observation Satellites: For Use in Optimization Algorithms." *AAS/AIAA Spaceflight Mechanics Meeting*, Savannah, GA, February 2009.

Newman, B. and M. Ghazy. "Analytical Construction of Periodic Orbits in the Circular Restricted Three Body Problem with Small Mass Parameter." *AAS/AIAA Spaceflight Mechanics Meeting*, Savannah, GA, February 2009.

Qian, Shizhi. see Diefeng Gu, Applied Research Center, College of Engineering.

Ai, Y., S.W. Joo, S. Liu and **S. Qian**. "Direct Numerical Simulation of Particle Separation by Direct Current Dielectrophoresis." *ASME 2009 Micro/Nanoscale Heat and Mass Transfer International Conference*, Shanghai, China, December 18-21, 2009.

Sabuncu A.C., B.S. Kalluri, W. Cao, M.W. Stacey, **S. Qian, A. Beskok** and T.M. Abdel-Fattah. "Electrokinetic Properties of Colloidal Carbon Nanotubes." *The 13th International Conference on Surface & Colloid Science and the 83rd ACS Colloid & Surface Science Symposium*, June 14-19, 2009, New York, USA, 2009.

Wells, J. and **C.P. Britcher**. "An Aerodynamic Study of an Urban Maglev." *48th AIAA Aerospace Sciences Meeting*, Orlando, FL, January 4-7 2010, AIAA-2010-1419

Applied Research Center

Tapily, K., D. Stegall, **D. Gu, H. Baumgart, G. Namkoong**, and A.A. Elmustafa. "Physical Characterization of Zinc Oxide Thin Films Grown by ALD." *216th ECS Meeting*, Vienna, Austria, October 4-9, 2009.

Gu, Diefeng, Sinan Eren Yalcin, **Helmut Baumgart, Shizhi Qian, Oktay Baysal**, and **Ali Beskok**. "Zeta Potentials of ALD Metal Oxide Films for Microfluidic Applications." *American Vacuum Society 9th International Conference on Atomic Layer Deposition*, Monterey, CA, July 2009.

Valente-Feliciano, A-M., H.L. Phillips, C.E. Reece, X. Zhao, **D. Gu, H. Baumgart**, R.A. Lukaszew, B. Xiao, and K. Seo. "RF and Structural Characterization of SRF Films." *The 14th International Conference on RF Superconductivity*, Berlin, Germany, September 2009, and *Proceedings of SRF 2009*, Berlin, Germany, 2009.

Ndoye, C., T. Liu, M. Orlowski, **D. Gu**, N.H. Tran and **H. Baumgart**. "Si Nanowire MOSFET with Gate-All-Around Electrode." *IEEE International Semiconductor Device Research Symposium*, College Park, MD, December 9-11, 2009.

Gu, D., K. Tapily, P. Shrestha, and **H. Baumgart**. "Nanotube/Nanorods Fabrication of ZnO Using Atomic Layer Deposition and the Template Replication Method." *IEEE International Semiconductor Device*

5.3.3 Annual Report FY 2010

Research Symposium, College Park, MD, December 9-11, 2009,

Zhu, X., Qiliang Li, D.E. Ioannou, **D. Gu, H. Baumgart**, J.E. Bonevich, J.S. Suehle, and C.A. Richter. "Silicon Nanowire Nonvolatile-Memory with Varying HfO₂ Charge Trapping Layer Thickness." *IEEE International Semiconductor Device Research Symposium*, College Park, MD, December 9-11, 2009.

Wu, A.T., **D. Gu**, and **H. Baumgart**. "TEM Study of Niobium Surfaces Treated by Different Polishing Techniques." *14th International Conference on RF Superconductivity*, Berlin, Germany, September 2009, and *SRF 2009*, Berlin, Germany, 2009.

Bajpai, R, M. Zaghloul, **D. Gu, H. Baumgart** and T.M. Abdel-Fattah. "Synthesis and Assembly of ZnO Nanorods Grown by ALD for Biosensor Application." *IEEE International Semiconductor Device Research Symposium*, College Park, MD, December 9-11, 2009.

Gu, D., F. Naumann, M. Petzold, M. Zhu, and **H. Baumgart**. "Investigation of Strain Relaxation in Patterned Strained Silicon-on-Insulator Structures by Raman Spectroscopy and Computer Simulation." *IEEE International Semiconductor Device Research Symposium*, College Park, MD, December 9-11, 2009.

Yu, Liya, George Rozgonyi, Pragma Shrestha, **Diefeng Gu**, and **Helmut Baumgart**. "C-V and Deep Level Transient Spectroscopy (DLTS) of ALD HfO₂ on s-Si/SiGe/Si: Effects of strained-Si Thickness and Surface Nitridation." *High Dielectric Constant Materials and Gate Stacks 7 Symposium, Electrochemical Society Fall Meeting*, Vienna, Austria, October 2009.

Abdel-Fattah, Tarek M., **Diefeng Gu, Helmut Baumgart**, Ritu Bajpai, and Mona Zaghloul. "Modeling and Characterization of ALD grown ZnO Nanotubes and their Integration into Sub-Micron MEMS Devices." *5th International Symposium on Atomic Layer Deposition Applications, The Electrochemical Society Fall Meeting*, Vienna, Austria, October 2009.

Tapily, Kanda, **Diefeng Gu, Helmut Baumgart, Gon Namkoong**, and **Abdelmageed Elmustafa**. "Physical Characterization of Zinc Oxide Thin Films Grown by ALD." *5th International Symposium on Atomic Layer Deposition Applications, The Electrochemical Society Fall Meeting*, Vienna, Austria, October 2009.

Zhu, Xiaoxiao, **Diefeng Gu**, Qiliang Li, **Helmut Baumgart**, D.E. Ioannou, J.S. Suehle, and C.A. Richter. "Application of ALD high-k Dielectric Films as Charge Storage Layer and Blocking Oxide in Nonvolatile Memories." *High Dielectric Constant Materials and Gate Stacks 7 Symposium, Electrochemical Society Fall Meeting*, Vienna, Austria, October 2009.

Abdel-Fattah, Tarek M., **Diefeng Gu, Helmut Baumgart**, and **Gon Namkoong**. "Optimizing the Release of ALD Transition Metal Oxide Nanotubes from Anodic Aluminum Oxide Templates." *5th International Symposium on Atomic Layer Deposition Applications, The Electrochemical Society Fall Meeting*, Vienna, Austria, October 2009.

Gu, Diefeng, Pragma Shrestha, **Helmut Baumgart**, Tarek M. Abdel-Fattah, and **Gon Namkoong**. "ALD Synthesis of Tube-in-Tube Nanostructures of Transition Metal Oxides by Template Replication." *5th International Symposium on Atomic Layer Deposition Applications, The Electrochemical Society Fall Meeting*, Vienna, Austria, October 2009.

Zhu, Xiaoxiao, **Diefeng Gu**, Qiliang Li, D.E. Ioannou, **H. Baumgart**, J.S. Suehle, and C.A. Richter. "Silicon Nanowire NVM with High-k Gate Dielectric Stack." *Insulating Films on Semiconductors*, Cambridge, UK, 2009.

Gu, Diefeng, Mingyao Zhu, F. Nauman, M. Petzold, and **Helmut Baumgart**. "Experimental Raman Study and Finite Element Modeling of Strain Distribution in Patterned Device Islands on Strained Silicon-on-Insulator (sSOI) Substrates." *51st Electronic Materials Conference*, TMS, University Park, PA, June 2009.

Gu, Diefeng, Sinan Eren Yalcin, **Helmut Baumgart**, Shizhi Qian, Oktay Baysal, and Ali Beskok. "Zeta Potentials of ALD Metal Oxide Films for Microfluidic Applications." *American Vacuum Society 9th International Conference on Atomic Layer Deposition*, Monterey, CA, July 2009.

Tapily, K., D. Stegall, **D. Gu, H. Baumgart, G. Namkoong** and **A.A. Elmustafa**. "Structural and Nanomechanical Characterization of ALD ZnO." *American Vacuum Society 9th International Conference on Atomic Layer Deposition*, Monterey, CA, July 2009.

Civil & Environmental Engineering

Abuelela, M., S. Olariu, **M. Cetin**, and D. Rawat. "Enhancing Automatic Incident Detection Using Vehicular Communications." *The 70th IEEE Vehicular Technology Conference*, Anchorage, Alaska, September 20-23, 2009.

Cetin, M. and A.P. Nichols. "Improving the Accuracy of Vehicle Reidentification Algorithms by Solving the Assignment Problem." *The 88th Annual Meeting of the Transportation Research Board*, Washington, DC, January 11-15, 2009.

Comert, G., **M. Cetin**, A. P. Nichols. "Incorporating Queue Length Measurements into Actuated Signal Control: Evaluation of Efficiency Benefits at an Intersection." *The 88th Annual Meeting of the Transportation Research Board*, Washington, DC, January 11-15, 2009.

5.3.3 Annual Report FY 2010

Caper, O.F. and I. Ishibashi. "Recovery of Elastic Parameters for Cross-Anisotropic Sandy Soil via Elastic Wave Measurements." *The Fifth International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics*, San Diego, CA, May 2010.

Shay, E., and A. Khattak. "How does residential environment relate to auto ownership and travel choices?" *Transportation Research Board of the National Academies*, Washington, DC, 2009.

Robinson, M., A. Khattak, J. Sokolowski, P. Foytik, and X. Wang. "What is the role of traffic incidents in Hampton Roads hurricane evacuation?" *Transportation Research Board of the National Academies*, Washington, DC, 2009.

Cho, G., D. Rodriguez, and A. Khattak. "What is the role of the built environment in explaining relationships between perceived and actual pedestrian safety?" *Transportation Research Board of the National Academies*, Washington, DC, 2009.

Fan, Y. and A. Khattak. "Impact of the built environment on travel distance and time costs: A trip-level analysis." *Transportation Research Board of the National Academies*, Washington, DC, 2009.

Fan, Y. and A. Khattak. "Does urban form matter in solo and joint activity engagement decisions?" *Transportation Research Board of the National Academies*, Washington, DC, 2009.

Zhang, H. and A. Khattak. "What is the role of large-scale events in traffic operations?" *Transportation Research Board of the National Academies*, Washington, DC, 2009.

Wang, X., A. Khattak, and Y. Fan. "Travel information acquisition and travel decisions." *Transportation Research Board of the National Academies*, Washington, DC, 2009.

Al-Deek, H., S. Venkata, J. Flick, and A. Khattak. "Dynamic message sign deployment and diversion behavior of travelers on Central Florida toll roads." *Transportation Research Board of the National Academies*, Washington, DC, 2009.

Hu, H., W. Williams, N. Rouphail, A. Khattak, and X. Zhou. "Modeling the role of transportation information in mitigating major capacity reductions in a regional network." *Transportation Research Board of the National Academies*, Washington, DC, 2009.

Nguyen, D.T., S. Tungkhotara, E.N.D. Nguyen, D.N. Nguyen, and A.L. Ninh. "Parallel Computation For Large-Scale Biological Sequence Analysis." *Bio-Informatics Conference*, Las Vegas, NV, July 13-16, 2009.

Nguyen, D.T., A. Mohamed-Ali, and S. Kadiam. "A Chess-Like Game For Teaching Engineering Students To Solve Large-Scale of SLE." *MODSIM World Conference Proceedings*, Virginia Beach, VA, October 14-16, 2009.

Nguyen, D.T., Y. Shen, A. Mohamed-Ali, and S. Kadiam. "Simple Head-Tail Matching Game For Teaching Linear Programming Simplex Algorithms With Real-World Applications." *MODSIM World Conference Proceedings*, Virginia Beach, VA, October 14-16, 2009.

Nguyen, D.T., A.A. Mohammed, S. Kadiam, and Y. Shen. "Internet Chess-Like Game and Simultaneous Linear Equations." *Global Conference on Learning and Technology*, Penang, Malaysia, May 17-20, 2010.

Nguyen, D.T., Y. Shen, A.A. Mohammed, and S. Kadiam. "Tossing Coin Game and Linear Programming Big_M Simplex Algorithms." *Global Conference on Learning and Technology*, Penang, Malaysia, May 17-20, 2010.

Engebrigtsen, P., G.C. Schafran, G.J. Prelewicz, and M. Carlson. "Hypolimnetic surface circulation: A solution for lake oxygenation?" *Water JAM - Joint Annual Conference of the VA Section AWWA and VWEA*, Richmond, VA, September 2009.

Regmi, P., G.C. Schafran, W.A. Thomas, C.B. Bott, R. Rutherford, D. Waltrip, and R. Baumler. "Relationships between operational conditions and nitrogen removal and media biofilm accumulation in an IFAS process demonstration study." *The Water Environment Federation Technical Exhibition and Conference*, Orlando, FL, October 12-15, 2009.

Thomas, W.A., C.B. Bott, P. Regmi, G. Schafran, A. Pinto, N.G. Love, J. McQuarrie, B. Rutherford, R. Baumler, and D. Waltrip. "Evaluation of nitrification kinetics for a 2.0 MGD IFAS Process Demonstration." *The Water Environment Federation Technical Exhibition and Conference*, Orlando, FL, October 12-15, 2009.

Engebrigtsen, P. and G.C. Schafran. "Hypolimnetic surface circulation: A solution for lake oxygenation?" *AWWA Water Quality Technology Conference*, Seattle, WA, November 15-19, 2009.

Engebrigtsen, P. and G.C. Schafran. "Hypolimnetic surface circulation: The solution for poor lake oxygen conditions?" *AWWA Annual Conference and Exhibition*, Chicago, IL, June 20-24, 2010.

Regmi, P., J. Whitelaw, and J. Yoon. "Modeling total nitrogen concentration in surface water runoff using SWMM from the Eastern Short of the Elizabeth River from Lambert's Point to the Navy Station Norfolk Sewage Treatment Plant." *Water Conference 2010*, Richmond, VA, March 7-10, 2010.

5.3.3 Annual Report FY 2010

Coles, K., A. Shahvari, R. Damalie, and J. Yoon. "Modeling a dissolved oxygen-total dissolved nitrogen relationship in the lower reach of the Elizabeth River using finite segment method." *Water Conference 2010*, Richmond, VA, March 7-10, 2010.

Luitel, A., K. Joshi, and J. Yoon. "Finite segment approach of determining longitudinal dispersion coefficients for total phosphorus loading characterization in the Phewa Lake, Pokhara, Nepal." *Water Conference 2010*, Richmond, VA, March 7-10, 2010.

Walker, R.N. Price, and J. Yoon. "Probabilistic analysis of dispersive estuarine *E. Enterococcus* transport and fate along Banks Channel in Wrightsville Beach, NC." *Water Conference 2010*, Richmond, VA, March 7-10, 2010.

Electrical & Computer Engineering

Baumgart, Helmut. see Diefeng Gu, Applied Research Center, College of Engineering.

Boland Jr., Patrick M., Tarek Abdel-Fattah, **Helmut Baumgart**, and **Gon Namkoong**. "Optimization of Active Layer Thickness in Planar Organic Solar Cells via Optical Simulation Methods." *IEEE International Semiconductor Device Research Symposium*, College Park, Maryland, December 9-11, 2009.

Balki, Oguzhan and **Hani E. Elsayed-Ali**. "Fabrication of Passive Wireless Sensor by Pulsed Laser Scribing of Indium Tin Oxide." *Second International Workshop on Wireless Sensor Networks: Theory and Practice*, in conjunction with the *3rd International Conference on New Technologies, Mobility, and Security*, Cairo, Egypt, December 20-23, 2009.

Song, Yujun, Tao Zhang, **Hani Elasyed-Ali**, Zongsuo Zhang, Ququan Wang, Haining Wang, and Shengli, Zou. "Identification of Single Nanoparticle and Nanoparticle Arrays and their Local Localized Surface Plasmon Resonance." *The 16th International Symposium on Metastable, Amorphous and Nanostructured Materials*, Beijing, China, July 5-9, 2009.

Er, Ali Oguz and **Hani E. Elsayed-Ali**. "Nonthermal laser assisted Ge quantum dot formation on Si(100)-2x1 by pulsed laser deposition." *The 76th Annual Meeting of the APS Southeastern Section*, Atlanta, Georgia, November 11-14, 2009.

Kolb, J.F., X. Chen, J. Zhuang, W. Ren, N. Scully, **R.J. Swanson**, **S.J. Beebe**, and **K.H. Schoenbach**. "Tumor treatment with nanosecond pulsed electric fields," *17th IEEE International Pulsed Power Conference*, Washington, DC, June 29-July 2, 2009.

Greene, L., **M. Laroussi**, A. Munyanyi, and E. Karakas. "Destruction of Amyloid Fibrils by the Plasma Pencil." *The 37th IEEE International Conference on Plasma Science*, Norfolk, VA, June 20-24, 2010.

Karakas, E., **M. Laroussi**, and M. Koklu. "Experimental and Modelling Studies of the Plasma Bullet Lifetime." *The 37th IEEE International Conference on Plasma Science*, Norfolk, VA, June 20-24, 2010.

Begum, A., E. Karakas, and **M. Laroussi**. "Investigations of the Plasma Bullet Velocity by Electrical and Optical Techniques." *The 37th IEEE International Conference on Plasma Science*, June 20-24, 2010.

Jarrige, J., E. Karakas, A. Begum, and **M. Laroussi**. "Investigations of Plasma Bullets Formed in a Non-thermal Plasma Jet in Air." *The 62nd Gaseous Electronics Conference*, p. 33, Saratoga Springs, NY, October 2009.

Y. Sakiyama, D.B. Graves, J. Jarrige, and **M. Laroussi**. "Modeling and Experiment of Ring Shaped Emission Profile in Plasma Bullet." *The 62nd Gaseous Electronics Conference*, p. 82, Saratoga Springs, NY, October 2009.

Li, **Jiang**, Ayyappa Vadlamudi, Shao-Hui Chuang, Xiaoyan Sun, Bo Sun, Frederic McKenzie, Lisa Cazares, Julius Nyalwidhe, Dean Troyer and O. John Semmes. "Combining Prostate Cancer Region Predictions from MALDI Spectra Processing and Texture Analysis." *BIBE*, Philadelphia, PA, 2010.

Kugu, Emin, Frederic McKenzie, **Jiang Li** and Ozgur Koray Sahingoz. "Multi-agent Design and Implementation of Crowd Injury Model." *SpringSim'10*, Orlando, FL, April 11-15, 2010.

Zhang, Guangfan, John Leddo, Roger Xu, Carl Richey, Tom Schnell, Frederic McKenzie and **Jiang Li**. "A System Approach for Engagement Analysis under Multitasking Environment." *MODSIM 2010*, Virginia Beach, VA, 2010

Joshi, Deepak, **Jiang Li**, **Dimitrie Popescu** and Jihong Wang. "Brain Tumor Growth Prediction Using a Dimensionality Reduction Method." *Capstone Conference*, VMASC, Suffolk, VA, 2010.

Vadlamudi, Ayyappa, Shao-Hui Chuang, **Jiang Li** and Frederic McKenzie. "Prostate Cancer Region Prediction using MALDI Mass Spectra." *SPIE Medical Imaging*, San Diego, CA, February 2010.

Yufei Shen, **Jiang Li**, Adam Chandler, Yuzhong Shen, Frederic D. McKenzie, and Jihong Wang. "Prediction of Brain Tumor Progression using a Machine Learning Technique." *SPIE Medical Imaging*, San Diego, CA, February 2010.

5.3.3 Annual Report FY 2010

Chuang, Shao-Hui, Xiaoyan Sun, **Jiang Li**, and Frederic D. McKenzie. "Adjacent Slice Prostate Cancer Prediction to Inform MALDI Imaging Biomarker Analyses." *SPIE Medical Imaging*, San Diego, CA, February 2010.

Li, Jiang, Yufei Shen, Yuzhong Shen, Rick McKenzie, Nandita Guha-Thakurta, Matthew Debnam, Ashok Kumar and Jihong Wang. "Brain Tumor Progression Assessment Using Multiple MRI Volumes." *Radiological Society of North America 95th Scientific Assembly and Annual Meeting*, Chicago, IL, December 2009.

Foe, Kurniawan, Pat Boland Jr., **Gon Namkoong**, **Diefeng Gu**, **Helmut Baumgart**, and Tarek Abdel-Fattah. "Self-organized Crystal Growth of Nanostructured ZnO Morphologies by Hydrothermal Synthesis." *The Electrochemical Society Fall Meeting*, Vienna, Austria, October 2009.

Rawat, Danda B., and **Dimitrie C. Popescu**. "Joint Precoder and Power Adaptation for Cognitive Radios in Interference Systems." *The 28th IEEE International Performance, Computing, and Communications Conference*, pp. 425-430, Phoenix, AZ, December 2009.

Treeumnuk, Dusadee, **Dimitrie C. Popescu**, and Stephan Olariu. "Requirements of the Physical Layer of the NOTICE System for Vehicular Communications." *2009 IEEE Global Telecommunications Conference*, p. 3-7, Honolulu, HI, December 2009.

Joshi, Deepak R., **Dimitrie C. Popescu**, and Octavia A. Dobre. "Dynamic Spectral Shaping in Cognitive Radios with Quality of Service Constraints." *The 43rd Annual Asilomar Conference on Signals, Systems, and Computers*, Pacific Grove, CA, November 2009.

Rawat, Danda B., Gongjun Yan, **Dimitrie C. Popescu**, Michele C. Weigle, and Stephan Olariu. "Dynamic Adaptation of Joint Transmission Power and Contention Window in VANET." *The 70th IEEE Vehicular Technologies Conference*, Anchorage, AK, September 2009.

Zhuang, J., W.H. Baldwin, **K.H. Schoenbach**, **J.F. Kolb**. "Pulsed electric field induced changes in dielectric properties of biological cells." *The 17th IEEE International Pulsed Power Conference*, Washington, DC, June 29-July 2, 2009.

Zhao, Y., **M. Song**, J. Wang, and E. K. Park. "Throughput Measurement-based Access Point Selection for Multi-rate Wireless LANs." *International Conference on Wireless Algorithms, Systems, and Applications*, August 2009. Springer, 2009.

Backens, J., and **M. Song**. "Throughput Potential of Overlay Cognitive Wireless Mesh Networks." *International Conference on Wireless Algorithms, Systems, and Applications*, August 2009. Springer, 2009.

Zhang, N., **M. Song**, X. Fu, and W. Yu. "Discovery and Protection of Sensitive Linkage Information for Online Social Networks Services." *Workshop on Social Networks, Applications, and Systems*, August 2009.

Yepez, J., G. Vahala, **L. Vahala** and M. Soe, "Superfluid turbulence from quantum Kelvin wave to classical Kolmogorov cascades." *SPIE, Quantum Information and Computation VIII 7702* (2010): 770209.

Vahala, G., B. Keating, M. Soe, J. Yepez, **L. Vahala** and S. Ziegeler. "Entropic, LES and boundary conditions in lattice Boltzmann simulations of turbulence." *European Physical Journal Special Topics* 171 (2009): 167-171.

Yepez, J., G. Vahala and **L. Vahala**. "Vortex-antivortex pair in a Bose-Einstein condensate." *European Physical Journal Special Topics* 171 (2009): 9-14.

Xiao, S. see Frank Reidy Center for Bioelectrics, Office of Research.

Engineering Management & Systems Engineering

Arnaout, G.M., M.T. Khasawneh, J. Zhang, and **S.R. Bowling**. "An IntelliDrive Application for Reducing Traffic Congestion using an Agent-Based Approach." *The 2010 IEEE Systems and Information Engineering Design Symposium*, Charlottesville, VA.

Deller, S., G. Rabadi, B.I. Bell, **S.R. Bowling**, and **A. Tolk**. "Modeling the Information Age Combat Model: An Agent-Based Simulation of Network Centric Operations." *ModSim 2009 Conference*, Virginia Beach, VA, October 2009.

Arnaout, G., and **S.R. Bowling**. "Improving Customer Waiting Time at a DMV Center Using Discrete-Event Simulation." *ModSim 2009 Conference*, Virginia Beach, VA, October 2009.

Arnaout, G., and **S.R. Bowling**. "An Agent -based Model for Reducing Illegal Immigration on the U.S. - Mexican Borders." *Virginia Council of Graduate Schools, Fourth Annual Graduate Student Research Forum*, p. 24, Richmond, VA. February 2009.

Arnaout, G., and **S.R. Bowling**. "An Validating a Social Science Theory using Agent-based Approach." *Modeling, Simulation and Gaming Student Capstone Conference VMASC*, Suffolk, VA, April 9, 2009.

Khasawneh, M.T., J. Zhang, and **S.R. Bowling**. "An Exploratory Study of the Butterfly Effect using Agent-Based Modeling." *ModSim 2009 Conference*, Virginia Beach, VA, October 2009.

Shamseldin, R.A., and **S.R. Bowling**. "Using Agent Base Models to Optimize Large Scale Network for a Large System Inventories." *ModSim 2009 Conference*, Virginia Beach, VA, October 2009.

5.3.3 Annual Report FY 2010

Khasawneh, M.T., N.E.N. Shearer, J. Zhang, R.M. Jaradat, E. Rodriguez-Velasquez, and **S.R. Bowling**. "The Butterfly Effect in Chaotic Complex Systems: An ABM Approach." *Industrial Engineering Research Conference*, Miami, FL, May 30-June 3, 2009.

Shearer, N.E.N., M.T. Khasawneh, J. and **S.R. Bowling**. "Can One Gene Change the World? - An ABM Approach." *Industrial Engineering Research Conference*, Miami, FL, May 30-June 3, 2009.

Shearer, N., **P.T. Hester**, **R. Unal**, and R.A. Lepsch. "Expert judgment elicitation of aerodynamic uncertainties for the Ares I." *The 30th American Society for Engineering Management Conference*, Springfield, MO, October 14-17, 2009.

Hester, P.T. and J. Bachman. "Analytical hierarchy process as a tool for engineering managers." *The 30th American Society for Engineering Management Conference*, Springfield, MO, October 14-17, 2009.

Bachman, J. and **P.T. Hester**. "Simulation training transfer analysis." *Fall 2009 Simulation Interoperability Workshop Conference*, Orlando, FL, September 21-25, 2009.

Duran, F. and **P.T. Hester**. "A systems-based approach to insider security." *50th Institute of Nuclear Materials Management Conference*, Tucson, AZ, July 12-16, 2009.

Kady, R. and **A. Tolk**. "Emergency evacuation modeling: A novel approach to layout designs and evacuation procedures." *The 5th International Conference on Pedestrian and Evacuation Dynamics*, Gaithersburg, MD, March 8-10, 2010.

Papelis, Y., L.J. Bair, S. Manepalli, P. Madhavan, **R. Kady**, and E. Weisel. "Practical modeling of crowd behavior using a cognitive feedback model." *The 5th International Conference on Pedestrian and Evacuation Dynamics*, Gaithersburg, MD, March 8-10, 2010.

Kady, R., S.Gwynne, and J. Davis. "A review of the sources of occupant performance data used in building evacuation models." *The 4th International Symposium on Human Behaviour in Fire*. Cambridge, UK, July 13-15, 2009.

Kady, R., and K. Allen. "School bus evacuation: Research to practice." *The 4th International Symposium on Human Behaviour in Fire*. Robinson College, Cambridge, UK, July 13-15, 2009.

Madhavan, P., Y. Papelis, **R. Kady**, and L. Moya. "An agent-based model of crowd cognition." *The 18th Conference on Behavior Representation in Modeling and Simulation*, Sundance, UT, March 31-April 2, 2009.

Keating, C., **P.T. Hester**, **R. Kady**, and B. Calida. "R&D Governance: An Emerging Systems-based paradigm for public sector R&D." *The 30th Annual Conference of the American Society for Engineering Management*, Springfield/Branson, MO, October 14-17, 2009.

Alali, Baqer M. and **C. Ariel Pinto**. "Project, Systems, and Risk Management Processes & Interaction." *PICMET '09 Portland International Center for Management of Engineering and Technology*, Portland, OR, August 2-6, 2009.

Pinto, C. Ariel, Paul R. Garvey, Behnido Calida, and **Luna Magpili**. "FDNA Approach to Assessing Mission-Risk in Governing Research and Development." *The 30th National Conference of the American Society for Engineering Management*, Springfield, MO, October 13-16, 2009.

Pinto, C. Ariel, Paul R. Garvey, **Charles B. Keating**, and **Resit Unal**. "FDNA Approach to Risk-Informed Conceptualization and Design of System Dependencies." *The 30th National Conference of the American Society for Engineering Management*, Springfield, MO, October 13-16, 2009.

Hester, P.T. and **A. Tolk**. "Applying Methods of the M&S Spectrum for Complex Systems Engineering. Emerging Applications of M&S in Industry and Academia." *Spring Simulation Multiconference*, p. 17-24, Orlando, FL, April 11-15, 2010.

Turnitsa, C.D., **A. Tolk**, and R.H. Kewley. "Further Exploration in Primitives of Meaning. Military Modeling and Simulation (MMS)." *Spring Simulation Multiconference*, p. 205-212, Orlando, FL, April 11-15, 2010.

Kady, R.A. and **A. Tolk**. "Emergency Evacuation Modeling: A Novel Approach to Layout Designs and Evacuation Procedures." *Fifth International Conference on Pedestrian and Evacuation Dynamics*, Gaithersburg, MD, March 8-10, 2010.

Garrett, R.B., **A. Tolk**, and T.J. Bacon. "Exploring Effective Methods for Modeling a Comprehensive Approach to Political, Military, Economic, Social, Information, and Infrastructure/Human, Cultural, Social, Behavior Community of Interest." *Winter Simulation Conference*, p. 2860-2866, Austin, TX, December 13-16, 2009.

Tolk, A. "New M&S Challenges derived from the NATO Research & Technology Organization Systems Analysis Studies Task Group on Analytical Tools for Irregular Warfare." *Winter Simulation Conference*, p. 2844-2851, Austin, TX, December 13-16, 2009.

Bacon, T.J., P. Jones, R.B. Garrett, and **A. Tolk**. "Integration of Psycho-Social Models and Methods in NATO's Approach to Operations; A Review of NATO

5.3.3 Annual Report FY 2010

Research and Technology Organization Systems Analysis Studies.” *Winter Simulation Conference*, p. 2852-2859, Austin, TX, December 13-16, 2009.

Tolk, Andreas. “Technical Evaluation Report.” *The Conference on Use of M&S in Support to Operations, Irregular Warfare, Defense against Terrorism, and Coalition Tactical Force Integration*, NATO Publication RTO-MP-MSG-069, Brussels, Belgium, October 2009.

Turnitsa, C.D., **A. Tolk**, and R.H. Kewley. “Exploring Primitives of Meaning in Support of Interoperability.” *Fall Simulation Interoperability Workshop*, Orlando, FL, September 2009.

Tolk, A. “Emerging M&S Challenges for Human, Social, Cultural, and Behavioral Modeling.” *The Summer Computer Simulation Conference*, p. 462-469, Istanbul, Turkey, July 13-16, 2009.

Engineering Technology

Bondi, S.B. and D.A. Ekker. “Impact of Net Revenue versus Reliability for Maintaining Critical Equipment.” *The 4th International Symposium on Economic Theory, Policy and Applications*, Athens, Greece, August 2009.

Dean, A. and H. Bao. “Creating the Next Generation Shipbuilding and Repair Workforce: Combating the challenges of non-traditional competition, retention, and aging to maintain a vital strategic asset.” *American Society of Naval Engineers - Fleet Maintenance and Modernization Symposium*, San Diego, CA, 2009.

Fergen, P., J.Grimley, **G. Hou, H. Bao and A. Dean.** “Selection of Pressure equation for Preliminary Planing Hull Design Using Analytical Hierarchy Process.” *ASNE - High Performance Marine Vehicles Symposium*, Linthicum, MD, 2009.

Hou, G., S. Hsiung, and James Too. “Capstone Design Project Experience on Autonomous Surface Vehicles.” *International Forum on Systems and Mechatronics Annual conference*, Singapore, September 6-9, 2010.

Hsiung, S. “Design a Microcontroller Trainer for Hands-on Distance and on-Campus Classes.” *The 2009 Association of Technology, Management, and Applied Engineering Annual Conference*. p. 37-46, Louisville, KY, November 2009.

Lin, C. “Design of a Pneumatic Valve for an Automatic Seat Lifting or Door Opening Mechanism.” *ASEE Annual Conference*, Louisville, KY, June 2010.

Verma, A. “Marine Kits - Hands-on Activities to Engage Students.” *The VAST Conference*, Washington, DC, November 5-7, 2009.

Dickerson, D., P. Horne, R. Hotchkiss, S. McKinney, and **A. Verma.** “MarineTech - Density, Buoyancy, and Boats.” *The VAST Conference*, Washington, DC, November 5-7, 2009.

Verma, A., M. Talaiver, S. McKinney, D. Dickerson, and D. Chen. “MarineTech Project - Attracting Students towards Math and Science Careers in Shipbuilding and Repair Industry.” *The SNAME Annual Conference*, Providence, RI, October 20-24, 2009.

Walk, S.R. and R.W. Lawrence. “Development of an Intelligent Remedial Tutorial Learning System for Non-traditional and Advanced Placement Students.” *ASEE Annual Conference and Exposition*, Louisville, KY, June 2010.

Walk, S.R. “Student Surveys of Course Knowledge and Skills: Improving Continuous Improvement.” *ASEE Annual Conference and Exposition*, Louisville, KY, June 2010.

Walk, S.R. “Increasing Technological Literacy through Improved Understanding of Technology Emergence and Diffusion.” *ASEE Annual Conference and Exposition*, Louisville, KY, June 2010.

Mechanical Engineering

Bao, H.P. see A. Dean, Engineering Technology, College of Engineering.

Bao, H.P. see G. Hou, Engineering Technology, College of Engineering.

Wang, F., and **H.P. Bao.** “Vessel Power Prediction and its Impact on Emission Inventory.” *The ASME 2009 International Manufacturing Science and Engineering*, West Lafayette, IN, October 4-7, 2009.

Chaturvedi, S. “Learning and Doing in Virtual Environments - A Hierarchical Approach to Learning Engineering Concepts.” *The 9th ASEE Global Colloquium*, Budapest, Hungary, October, 2009.

Elmustafa, A.A. see Diefeng Gu, Applied Research Center, College of Engineering.

Rice, J., S.Mandal, and **A.A. Elmusta**. “Investigation of a Donor Material in Friction Stir Welding.” *Metals, Minerals, and Materials Society*, San Francisco, CA, 2009.

BastaniNejad, M., **A.A. Elmusta**, K. Yonehara, M. Chung, A. Jansson, M. Hu, A. Moretti, M. Popovic, M. Alsharo’a, M. Neubauer, R. Sah, and R.P. Johnson. “RF Breakdown of Metallic Surfaces in Hydrogen.” *PAC09, WE5FPF008 1-3*, Vancouver, Canada, 2009.

Sah, R., R.P. Johnson, M. Neubauer, M. Conde, W. Gai, A. Moretti, M. Popovic, K. Yonehara, J. Byrd, D. Li, M.

5.3.3 Annual Report FY 2010

BastaniNejad, and A.A. Elmustafa. "RF Breakdown Studies using a 1.3-GHz Test Cell." *PAC09*, WE5PFP009 1-3, Vancouver, Canada, 2009.

Davis, M., Y.S. Mohammed, P.F. Martin, C. Ritinski, and A.A. Elmustafa. "Designing for Static and Dynamic Loading of a Gear Reducer Housing with FEA." *AGMA*, Indianapolis, IN, 2009.

Xu, Y., S.K. Durgam, S. Sarangan, T. Dallas, and Z. Hao. "Investigation of Energy Loss Mechanisms in Surface-Micromachined Resonators." *2009 ASME International Mechanical Engineering Congress and Exposition*, Lake Buena Vista, FL, November 13-19, 2009.

Wang, R., S.K. Durgam, L. Vahala, and Z. Hao. "A Multiple-Beam Tuning-Fork Gyroscope with High Quality Factors." *2009 ASME International Mechanical Engineering Congress and Exposition*, Lake Buena Vista, FL, November 13-19, 2009.

College of Health Sciences

School of Community and Environmental Health

Szklo-Coxe, M., L.A. Finn, P.E. Peppard, and T. Young. "Longitudinal relationship of insomnia to subsequent trait-anxiety in the Wisconsin Sleep Cohort." *Associated Professional Sleep Societies 25th Annual Meeting*, A20, San Antonio, TX, June 7, 2010.

Vorona, R.D., Y. Zhao, M. Szklo-Coxe, A. Wu, M. Dubik, and J.C. Ware. "Adjacent Southeastern Virginia Cities with dissimilar high school start times manifest different teenage car crash rates." *Associated Professional Sleep Disorders 25th Annual Meeting*, A184, San Antonio, TX, June 9, 2010.

Neff, J.A., T.H. Brickhouse, J.C. Gunsolley, S.K. Lanning, C. Lynch and J.M. Downs. "Use of "5A" Preventive Practices for tobacco and alcohol risk reduction in dental practice settings among dentists and dental hygienists: Implications for screening and brief interventions for alcohol abuse in dental practice." *American Public Health Association Annual Meeting*, Philadelphia, PA, November 2009.

Neff, J.A., T.H. Brickhouse, J.C. Gunsolley, S.K. Lanning, C. Lynch and J.M. Downs. "An SEM Analysis Predicting Current Use of Alcohol Screening and Brief Intervention Techniques in Dental Practice." *Annual Meeting of the American Academy of Health Behavior*, Clearwater Beach, FL, February 2010.

Finn, L.A., P.E. Peppard, M. Szklo-Coxe, and T. Young. "Chronic Insomnia and All Cause Mortality in the Wisconsin Sleep Cohort Study." *Associated Professional Sleep Societies 25th Annual Meeting*, A204, San Antonio, TX, June 7, 2010.

School of Medical Laboratory and Radiation Sciences

Heller, L., Y. Cruz, H. Yang, and R. Heller. "Plasmid injection and application of electric pulses alters inflammatory mRNA and protein expression in B16.F10 mouse melanomas." *International Symposium on Bioelectrochemistry and Bioenergetics*, Sibiu, Romania, 8.PP.11, May 10-14, 2009.

Heller, R., A. Donate, S. Guo, and L. Heller. "Intradermal Delivery of DNA Vaccines with Electroporation." *DNA Vaccines 2010*, New Orleans, LA, 2010.

J.A. Llewellyn, J. Rey, R.J. Connolly, Y. Cruz, L. Heller, R. Gilbert, and A.M. Hoff. "Impedance Spectroscopic Characterization of Tissue for Electrically Mediated Gene Delivery." *The 217th Electrochemical Society Symposium*, Vancouver, Canada, April 25-30, 2010.

Kolb, J.F., L.C. Heller, T. Singh, A.M. Bowman, R.J. Swanson, and K.Schoenbach. "Treatment of skin infections with DC operated afterglow air plasma jet." *IEEE International Conference on Plasma Science*, Norfolk, VA, June 20-24, 2010.

Llewellyn, J.A., L. Heller, and R. Gilbert. "Effectiveness of Impedance Spectroscopy To Monitor Impact of an Electroporation Protocol on Tissue." *American Society of Gene and Cell Therapy*, Washington,DC, May 19-22, 2010.

Heller, R., B. Ferraro, A. Donate and M.J. Jaroszeski. "Electrically Mediated Gene Delivery to the Skin." *World Congress on Medical Physics and Biomedical Engineering*, Munich, Germany, September 7-12, 2009.

Heller, R., B. Marrero, A. Daud, S. Shirley, and K. Ugen. "Delivery of plasmid DNA encoding cytokines for the potential treatment of malignant melanoma." *NCI Translates 2009*, Vienna, VA, November 5-7, 2009.

Donate, A. and R. Heller. "Non-Invasive Electrically Induced DNA Vaccine against *Bacillus anthracis*." *The 8th Annual ASM Biodefense Meeting*, Baltimore, MD, February 21-24, 2010.

School of Nursing

Benjamin R.S., C. Rutledge, K. Palmer, P. Barham, P. Eaton, and L. Wiles. "Using Simulation to Impact Global Health." *The 20th International Sigma Theta Tau Research Congress*, Vancouver, Canada, July 2009.

Campbell, A. "Born too soon: Neonatal Nursing." *The 5th Jornada Binacional de Enfermeria*, Barinas, Venezuela, July 2009.

5.3.3 Annual Report FY 2010

Campbell, A. "Breathe Easy: Asthma and Children." *The 5th Jornada Binacional de Enfermeria*, Barinas, Venezuela, July 2009.

Palmer, K. "Rehabilitation: Who, What and Why." *The 5th Jornada Binacional de Enfermeria*, College of Nursing of the State of Barinas, Barinas, Venezuela, July 2009.

Palmer, K. "Rehabilitation: CVA." *The 5th Jornada Binacional de Enfermeria*, Barinas, Venezuela, July 2009.

Rutledge, C.M., L. Garzon, M. Renaud, K. Putnam, and M. Scott. "Addressing the Health Care Crisis with an Innovative DNP Program." *NONPF 36th Annual Meeting*, Washington DC, April 15-17, 2010.

Rutledge, C.M., L. Garzon, M. Renaud, and K. Putnam. "Addressing the Needs of Vulnerable Populations with DNP Capstone Projects." *AACN Annual Doctoral Conference*. Captiva Island, FL, January 27-29, 2010.

Scott, M.A., J. Forst, and W.H. Biddle. "Ethnicity as a Predictor of Post Deployment Family Adaptation." *Virginia Council of Nurse Practitioner Annual Conference*, Reston, VA, March 2010.

Scott, M., K. Karlowicz, and K. Curry-Lourenco. "Leveraging the Care of Vulnerable Populations through DNP Generated Educational Programs." *National Organization of Nurse Practitioner Faculties Annual Conference*, Washington, DC, April 2010.

Wiles, L. "Assessing basic knowledge in critical care: A comparison of newly graduated and experienced nurses." *Eastern Nursing Research Society*, Providence, RI, March 2010.

Gittner, L. K. Adams Tufts, and A. Tulenson. "Secrets": Education Theatre for HIV Prevention." *APHA 137th Annual Meeting*, Philadelphia, PA, November 2009.

Adams Tufts, K. and J. Wessell. "Self-care Behaviors of African-American Women Living with HIV: A Qualitative Perspective." *Association of Nurses in AIDS Care 22nd Annual Conference*, Jacksonville, FL, November 2009.

Saint John, B., M. Pitts, and K. Adams Tufts. "Disconnects between Media Framing and Parental Discourse Concerning the State-Mandated HPV Vaccine: Implications for a Dialogic Health Communication." *National Communication Association 95th Annual Convention*, Chicago, IL, November 2009.

College of Sciences

Biological Sciences

Schroeder, R.E., F.P. Day, D.B. Stover, A.L.P. Brown, J.R. Butnor, and B.G. Drake. "The long-term effects of elevated atmospheric CO₂ on root biomass in a Florida scrub-oak ecosystem." *Ecological Society of America Meeting*, Albuquerque, NM, August 2009.

Megonigal, J.P., B.G. Drake, F.P. Day, P. Dijkstra, L.C. Hayek, C.R. Hinkle, B.A. Hungate, D.P. Johnson, J.H. Li, G. Peresta, T. Seiler, and D.B. Stover. "The response of ecosystem processes to 10 years of elevated atmospheric CO₂ in a scrub oak forest and 22 years in a tidal wetland." *Ecological Society of America Meeting*, Albuquerque, NM, August 2009.

Shafer, J.K. and F.P. Day. "Interisland variability of dune plant community structure on Virginia's barrier islands." *Long-Term Ecological Research All Scientists Meeting*, Estes Park, CO, September 2009.

Schroeder, R.E., F.P. Day, D.B. Stover, A.L.P. Brown, J.R. Butnor, C.R. Hinkle and B.G. Drake. "Root biomass in a Florida scrub-oak ecosystem after 11 years of CO₂ enrichment." *Association of Southeastern Biologists Meeting*, Asheville, NC, April 2010.

Day, F.P., R. Schroeder, D.B. Stover, A.L. Pagel Brown, J.J. Dilustro, J.R. Butnor, B. Duval, B. Hungate, P. Dijkstra, T. Siler, R. Hinkle, and B. Drake. "Effects of 11 years of elevated atmospheric CO₂ enrichment on roots." *Symposium on the Responses of a Chesapeake Bay Tidal Marsh and Florida Scrub Oak to Long Term Exposure to Elevated CO₂*, Edgewater, MD, May 2010.

Johnson, E.A., C.L. Wingreen, Z. Liu, A.S. Gordon, and P.G. Hatcher. "Comparison of Lipid Analysis Techniques on the Colonial Green Algae *Scenedesmus* spp." *Gordon Research Conference on Chemical Oceanography*, Tilton School, NH, August 2-7, 2009.

Egerton T., M. Semcheski, H.G. Marshall, R. Hubbard, A. Gordon, and P. Hatcher. "Algal biomass to biodiesel: year two; seasonal characterization of phytoplankton composition in an open raceway and related studies." *Association of Southeastern Biologists Meeting*, Asheville, NC, 2010.

Egerton, T.A., M.R. Semcheski, H.G. Marshall, A.S. Gordon, and P.G. Hatcher. "Seasonal fluctuations in phytoplankton composition of an open raceway constructed for the production of biofuels." *Virginia Academy of Science Meeting*. Harrisonburg, VA, 2010.

Longley, G. and J.R. Holsinger. "Relict anchialine faunas of the Edwards Aquifer, Balcones fault zone and associated areas in south-central Texas and northern Mexico." *Anchialine Ecosystems: Reflection and Prospects*, Palma de Mallorca, Spain, November 2010.

5.3.3 Annual Report FY 2010

Marshall, H.G., T.A. Egerton, M. Semcheski, M. Muller, and C. Clark. "Phytoplankton bloom development during 2009 in the tidal rivers and streams of Chesapeake Bay." *Harmful Algae Task Force*, Annapolis, MD, February 2010.

Marshall, H.G. and T.A. Egerton. "Increasing occurrence and development of potentially harmful algal blooms in Virginia tidal rivers." *Water Resources in Changing Climates. Virginia Tech Water Research Center*, p 89-101, Richmond, VA, 2009.

Semcheski, M., **H.G. Marshall**, and K.K. Nesius. "Seasonal patterns of microphytobenthic potential primary production in the lower Chesapeake Bay and its associated tributaries." *Association of Southeastern Biologists Annual Meeting*, Asheville, NC, April 2010.

Marshall, H.G. "Bio-pollution: Harmful algal blooms in Virginia waters." *Virginia Water Monitoring Council 2010 Conference*, Henrico, VA, May 2010.

Clark, C. and **H.G. Marshall**. "Selective foraging of diatoms by the marsh periwinkle (*Littorina irrorata*) in the Chesapeake Bay." *Virginia Academy of Science Annual Meeting*, Harrisonburg, VA, May 2010.

Semcheski, M., K. Nesius, M. Muller, C. Clark, T.A. Egerton, and **H.G. Marshall**. "Seasonal patterns of microphytobenthic potential primary production in marsh fringes of the lower Chesapeake Bay." *Virginia Academy of Science Annual Meeting*, Harrisonburg, VA, May 2010.

Nwaneshiudu, Adaobi I., Weon-ju Jung, Alexander Y. Tsygankov, Marina Rayevskaya, **Emilia Oleszak**, Allen Myers, and **Chris D. Platsoucas**. "Gamma-delta TCR+ T-cells in Systemic Sclerosis." *American College of Rheumatology Annual Scientific Meeting*, Philadelphia, PA, October 2009.

Nikolaos, Zacharakis, **Emilia L. Oleszak**, Nicholas A. Klaiber, Allen R. Myers, and **Chris D. Platsoucas**. "Clonally expanded α -chain TCR transcripts are present in skin biopsies of patients with SSc." *2010 Annual Meeting of the American Association of Immunology*, Abstract 135.37, Baltimore, MD, 2010.

Nwaneshiudu, Adaobi I., Weon-ju Jung, Alexander Y. Tsygankov, Marina Rayevskaya, **Emilia Oleszak**, Allen Myers, and **Chris D. Platsoucas**. "Gamma-delta TCR+ T-cells in systemic sclerosis." *2010 Annual Meeting of the American Association of Immunology*, Abstract 135.33, Baltimore, MD, 2010.

Swanson, R.J. see J. Kolb, Center for Bioelectrics, Office of Research.

Jia, H., P. Tan, S. Xiao, A. Pakhomov, and **R.J. Swanson**. "High-Voltage Nanosecond Pulsed Electric

Fields Induce Muscular Facilitation and Inhibition." *Bioelectrics 2010, 7th International Bioelectrics Symposium*, Norfolk, VA, June 24-26, 2010.

Chen, Y., K. Al-Arid K, and **R.J. Swanson**. "Nanosecond Pulsed Mouse Melanoma Cells: Morphology and Survival." *Bioelectrics 2010, 7th International Bioelectrics Symposium*, Norfolk, VA, June 24-26, 2010.

Ford, W., R. Li, F. Castora, H. Jones, and **R.J. Swanson**. "Age-related morphologic and microscopic variations in Syrian hamster ovaries and oocytes." *42nd Annual Meeting of the Society for the Study of Reproduction*, Pittsburgh, PA, July 18-22, 2009.

Swanson, R.J., A. Bowman, S. Xiao, P. Tan, A. Pakhomov, and K. Schoenbach. "High-Voltage (HV) Nanosecond Pulsed Electric Fields (nsPEFs) Induce Muscular Facilitation and Inhibition in Rats." *Joint Meeting of the Bioelectromagnetics Society and the European BioElectromagnetics Association*, Davos, Switzerland, June 18, 2009.

Motley, T.J. "Your paper is published; do you know who owns your DNA?" *Botanical Society of America*, Providence, RI, 2010.

Ingersoll, D. and **T.J. Motley**. "Establishing a phenology monitoring network in southeastern Virginia." *Botanical Society of America*, Providence, RI, July 31-August 4, 2010.

Paudyal, S.K., P.G. Delprete, and **T.J. Motley**. "Phylogenetic relationships within the Catesbaeeae-Chiococceae Complex (Rubiaceae)." *Botanical Society of America*, Providence, RI, July 31-August 4, 2010.

Jabaily, R.S., M.H.G. Gustafsson, and **T.J. Motley**. "Molecular phylogeny of the Goodeniaceae-implications for taxonomy, morphology and biogeography." *Botanical Society of America*, Providence, RI, July 31-August 4, 2010.

Neupane, S. and **T.J. Motley**. "Searching for "true *Hedyotis*" (Rubiaceae) in Asia and its biogeographic implications." *Botanical Society of America*, Providence, RI, July 31-August 4, 2010.

Bolin, J.F., **T.J. Motley**, K. Wurdack, E. Maass, and **L. Musselman**. "A molecular phylogeny and revised taxonomy of the holoparasitic family Hydnoraceae." *Botanical Society of America*, Providence, RI, July 31-August 4, 2010.

Ma, C., A. Kavalier, B. Jiang, **T.J. Motley**, and E.J. Kennelly. "Metabolic Profiling of black cohosh and related Actaea species extracts by LC-TOF-MS spectrometry." *American Society of Pharmacognosy*, St. Petersburg Beach, FL, 2010.

5.3.3 Annual Report FY 2010

Ingersoll, D.C. and T.J. Motley. "Establishing a Regional Phenology Network in Southeastern Virginia." *Association of Southeastern Biologists*, Asheville, NC, 2010.

Sabastian, P.M., R. Lira, H.B. Cross, I.R. Telford, T.J. Motley, and S.S. Renner. "Biogeography of the *Sicyos* clade (Cucurbitaceae) - from the New World to Australia, New Zealand and Hawaii." *Botanical Society of America*, Snowbird, Utah, 2009.

Motley, T.J., Q.-F. Wang, B. Jiang, and E.J. Kennelly. "DNA Fingerprints of black cohosh and DNA barcoding of 15 species of *Actaea*." *The 50th Anniversary of American Society of Pharmacognosy*, Honolulu, HI, 2009.

Jiang, B., T.J. Motley, F. Kronenberg, and E.J. Kennelly. "Phytochemical fingerprints of 15 *Actaea* species." *The 50th Anniversary of American Society of Pharmacognosy*, Honolulu, HI, 2009.

Chemistry & Biochemistry

Xu, X., P.D. Nallathamby, T. Huang, Kerry J. Lee, and Lauren M. Browning. "Design of Multifunctional Nanoparticle Probes for Molecular Imaging and Sensing in Single Living Organisms." *FACSS*, Raleigh, NC, October 2010.

Xu, X., T. Huang, M. Browning, and P.D. Nallathamby. "Design of Photostable Single Molecule Nanoparticle Biosensors for Real Time Probing single Living Cells." *The 204th ACS National Meeting 2010*, Boston, MA, August 2010.

Xu, X., P.D. Nallathamby, T. Huang, Kerry J. Lee, and Lauren M. Browning. "Photostable Nanophotonics Probes for Molecular Imaging in Real-time: from Single Living Cells to Single Embryos." *FACSS 2009*, Louisville, KY, October 2009.

Xu, X., T. Huang, and P.D. Nallathamby. "Photostable single molecule nanoparticle optical biosensors for sensing and imaging of single protein molecules and their binding kinetics." *The 204th ACS National Meeting 2010*, Boston, MA, August 2010.

Browning, L., K. Lee, T. Huang, P. Nallathamby, J. Lowman, and X. Xu. "Real-time imaging of transport and diffusion of single gold nanoparticles in vivo." *Pittcon'2010*, Orlando, FL, February 28-March 5, 2010.

Browning, L., K. Lee, T. Huang, P. Nallathamby, J. Lowman, and X. Xu. "Developing in vivo assays for probing biocompatibility of single gold nanoparticles." *Pittcon'2010*, Orlando, FL, February 28-March 5, 2010.

Lee, K., L. Browning, T. Huang, P. Nallathamby, and X. Xu. "Real-time probing of efflux mechanisms of

single living cells using photostable single nanoparticle optics." *Pittcon'2010*, Orlando, FL, February 28-March 5, 2010.

Lee, K., T. Desai, P. Nallathamby, L. Browning, and X. Xu. "In vivo study of size dependent transport and biocompatibility of single silver nanoparticles in zebrafish embryos in real-time." *Pittcon'2010*, Orlando, FL, February 28-March 5, 2010.

Huang, T., P. Nallathamby, and X. Xu. "Single molecule detection and sensing of individual receptor molecules on single living cells using single nanoparticle plasmonic optical biosensors." *Pittcon'2010*, Orlando, FL, February 28-March 5, 2010.

Huang, T., P. Nallathamby, and X. Xu. "Real-time sensing and detection of single cytokine molecules using photostable single-molecule nanoparticle optical biosensors." *Pittcon'2010*, Orlando, FL, February 28-March 5, 2010.

Nallathamby, P., Tao Huang, K. Lee, Lauren M. Browning, and X. Xu. "Photostable nanophotonic probes and biosensors for molecular imaging and diagnosis." *NIH-Workshop-SPIE'2009*, Bethesda, MD, October 1-2, 2009.

Computer Science

Sun, W. and J. He. "The Effect of Side-Chain Anisotropy on Residue Contact Determination." *Computational Structural Bioinformatics Workshop, IEEE International Conference on Bioinformatics and Biomedicine*, 2009.

Chrisochoides, N., Y. Liu, A. Fedorov, and R. Kikinis. "Real-time Non-rigid Registration of Medical Images on a Cooperative Parallel Architecture." *IEEE International Conference on Bioinformatics and Biomedicine*, Washington, DC, November 2009.

Chrisochoides, N., A. Chernikov, A. Fedorov, A. Kot, L. Linardakis, and P. Foteinos. "Towards Exascale Parallel Delaunay Mesh Generation." *The 18th International Meshing Roundtable*, Salt Lake City, UT, October 2009.

Al Nasr, K., W. Sun, and J. He. "Structure prediction for the helical skeletons detected from the low resolution protein density map." *The 8th Asia Pacific Bioinformatics Conference*, 11:S44, Bangalore, India, January 2010.

Sun, L., S. Ji, and J. Ye. "A Least Squares Formulation for a Class of Generalized Eigenvalue Problems in Machine Learning." *The 26th International Conference on Machine Learning*, p. 977-984, Montreal, Canada, 2009.

5.3.3 Annual Report FY 2010

Ji, S. and J. Ye. "An Accelerated Gradient Method for Trace Norm Minimalization." *The 26th International Conference on Machine Learning*, p. 457-464, Montreal, Canada, 2009.

Li, Y.-X., S. Ji, S. Kumar, J. Ye, and Z.-H. Zhou. "Drosophila Gene Expression Pattern Annotation through Multi-instance Multi-label Learning." *The 21st International Joint Conference on Artificial Intelligence*, p. 1445-1450, Pasadena, CA, July 1-17, 2009.

Ji, S. and J. Ye. "Linear Dimensionality Reduction for Multi-label Classification." *The 21st International Joint Conference on Artificial Intelligence*, Pasadena, CA, p. 1077-1082, July 1-17, 2009.

Sun, L., S. Ji, S. Yu, and J. Ye. "On the Equivalence between Canonical Correlation Analysis and Orthonormalized Partial Least Squares." *The 21st International Joint Conference on Artificial Intelligence*, Pasadena, CA, p. 1230-1235, July 1-17, 2009.

Zhu, W. and Y. Li., "GPU-Accelerated Differential Evolutionary Markov Chain Monte Carlo Method for Multi-Objective Optimization over Continuous Space." *The 2nd Workshop on Bio-inspired Algorithms for Distributed Systems*, Washington, DC, June 7- 11, 2010.

Li, Y. and W. Zhu. "GPU-Accelerated Multi-scoring Functions Protein Loop Structure Modeling." *The 9th IEEE International Workshop on High Performance Computational Biology*, Atlanta, GA, April 19, 2010.

Li, Y., I. Rata, and E. Jakobsson. "Integrating Multiple Scoring Functions to Improve Protein Loop Structure Conformation Space Sampling." *IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology*, Montreal, Canada, 2010.

Waddell, I., N. Jones, C. Steed, X. Yuan, and Y. Li. "Using the Workflow Technology in Secure Software Engineering Education." *The 14th Colloquium for Information Systems Security Education*, Baltimore, MD, 2010.

Li, Y. "A Population-based Approach for Diversified Protein Loop Structure Sampling." *International Conference on Computational Science*, Baton Rouge, LA, 2009.

Li, Y., D. Wardell, and V. Freeh. "A Resource-Efficient Computing Paradigm for Computational Protein Modeling Applications." *The 8th IEEE International Workshop on High Performance Computational Biology*, Rome, Italy, May 25, 2009.

Zhang, X., S. Watts, Y. Li, D. Tortorelli, "Minkowski Functions Study of Random Number Sequences."

International Conference on Computational Science, Baton Rouge, LA, 2009.

Mukkamala, R., V. Kamisetty, and P. Yedugani. "Detecting and resolving misconfigurations in role based access control." *Fifth International Conference Information Systems Security*, Kolkata, India, 2009.

Srinivasan, S.A, **R. Mukkamala**, and K. Venkataramanaiah. "Key scheduling in an SPN cryptosystem using musical notes." *2009 International Conference Information Security and Privacy*, p. 123-130, Orlando, FL, July 13-16, 2009.

Mukkamala, R. and J. Creedon. "Measuring the effect of modeling assumptions on estimating origin-destination airport passenger traffic." *2009 International Conference Modeling, Simulation, and Visualization Methods*, p. 106-110, Las Vegas, NV, July 13-16, 2009.

Srinivasan, S.R., **R. Mukkamala**, and K. Venkataramanaiah. "Design and analysis of cryptographically strong s-boxes: A novel approach." *2009 International Conference Security and Management*, p. 117-123, Las Vegas, July 13-16, 2009.

Yan, G., **S. Olariu**, and **M.C. Weigle**. "Cross-Layer Location Verification Enhancement in Vehicular Networks." *IEEE Intelligent Vehicles Symposium*, San Diego, CA, June 2010.

Simon, B., C. Sengupta-Gopalan, P. Yelavarthi, and **D. Ranjan**. "Computational and Biological Approach to Understand the 3'UTR-mediated Posttranscriptional Regulation of Alfalfa Cytosolic Glutamine Synthetase Genes." *The 2nd International Conference on Bioinformatics and Computational Biology*, Honolulu, HI, March 2010.

Yelavarthi, P. and **D. Ranjan**. "Sequential and Parallel Methods for finding un-extendable motifs in biological sequences." *Asia Pacific Bioinformatics Conference*, Bangalore, India, January 2010.

Cloteaux, B. and **D. Ranjan**. "Lower Bounds for Accessing Information on Pure Pointer Machines." *FCS '09: Proceedings of the International Conference on Foundations of Computer Science*, p. 103-107, Las Vegas, NV, July 13-16, 2009.

Vasudevan-Simon, B., P. Yelavarthi, C. Sengupta-Gopalan, and **D. Ranjan**. "Computational analysis using CisFind of the 3'UTR of the Cytoplasmic Glutamine synthetase involved in posttranscriptional regulation." *IEEE International Conference on Bioinformatics and Biomedicine*, Washington, DC, November 2009.

5.3.3 Annual Report FY 2010

Weigle, M.C. "Cooperative Collision Warning Through Mobility and Probability Prediction." *IEEE Intelligent Vehicles Networks*, San Diego, CA, June 2010.

Arbabi, H. and **M.C. Weigle**. "Using Vehicular Networks to Collect Common Traffic Data." *ACM International Workshop on Vehicular Internet Networking (VANET)*, p. 11-18, Beijing, China, September 2009.

Rawat, D.B., G. Yan, D. Popescu, **M.C. Weigle**, and **S. Olariu**. "Dynamic Adaptation of Joint Transmission Power and Contention Window in VANET." *The 70th IEEE Vehicular Technologies Conference - VTC 2009 Fall*, Anchorage, AK, September 2009.

Yan, G., **M.C. Weigle**, and **S. Olariu**. "A Novel Parking Service Using Wireless Networks." *IEEE International Conference on Service Operations*, Chicago, IL, July 2009.

Mathematics & Statistics

Diawara, N. "Notes on Bivariate Exponential Mixture for Heterogeneous Survival Data." *The 12th North American Meeting of New Researchers in Statistics and Probability*, p. 12-15, Baltimore, MD, 2009.

Diawara, N. "Bivariate Exponential Mixture Models." *Proceedings Joint Statistical Meetings*, p. 865-869, Washington, DC, 2009.

Indika, S.H., **N. Diawara**, and R. King. "Efficient Semi-parametric Estimation for Marginal Correlated small sample data." *International Neural, Parallel, and Scientific Computations Conference*, p. 161-168, Atlanta, GA, 2010.

Ocean, Earth & Atmospheric Sciences

Bochdansky, A.B. "Increased respiration due to feeding activity in *Dioithona oculata*, a small swarm forming copepod." *Ocean Sciences Meeting of the American Society of Limnology and Oceanography*, Portland, OR, February 22-26, 2010.

Crispo, S.M., L. Johnson, T. Komada, and **D.J. Burdige**. "Isotopic signatures of porewater DIC in Santa Monica Basin sediments: A method for determining DIC sources." *2010 Ocean Sciences Meeting*, Portland, OR, February 2010.

Burdige, D.J. and T. Komada. "Anaerobic oxidation of methane and the stoichiometry of remineralization processes in continental margin sediments." *2010 Ocean Sciences Meeting*, Portland, OR, February 2010.

Burdige, D.J. "A modeling study of organic matter remineralization in deeply-buried marine sediments." *2010 VM Goldschmidt Conference*, Knoxville, TN, June 13-18, 2010.

Chevis D., K. Johannesson, **D. Burdige**, J. Cable, J. Martin, and M. Roy. "Submarine groundwater flux of Nd to coastal waters." *2010 VM Goldschmidt Conference*, Knoxville, TN, June 13-18, 2010.

Corbett J.E., J.P. Chanton, **D. Burdige**, P.H. Glaser, W.T. Cooper, D.I. Siegel, S.S. Dasgupta, and M.M. Tfaily. "Partitioning peatland gas production: Determining the fraction of CO₂ produced from methanogenesis." *2010 VM Goldschmidt Conference*, Knoxville, TN, June 13-18, 2010.

Pitts, A.K., **D.J. Burdige**, D.C. Cook, and E.A. Canuel. "Effect of physical reworking and bioturbation on sedimentary reactive iron within a microtidal estuary." *2010 VM Goldschmidt Conference*, Knoxville, TN, June 13-18, 2010.

Ezer, T. and L.-Y. Oey. "Numerical simulations reveal the role of the Alaskan Stream in modulating the Bering Sea climate." *The 2nd International Workshop on Modeling the Ocean*, Norfolk, VA, May 24-26, 2010.

Liu, H. and **T. Ezer**. "Integration of Landsat imagery and an inundation model in flood assessment and predictions: A case study in Cook Inlet, Alaska." *The 17th International Conference on Geoinformatics 2009*, paper #209, p. 1-5, Fairfax, VA, August 12-24, 2009.

Saramul, S. and **T. Ezer**. "Tidal-driven dynamics and mixing processes in a coastal ocean model with wetting and drying." *The 2nd International Workshop on Modeling the Ocean*, Norfolk, VA, May 24-26, 2010.

Liu, H. and **T. Ezer**. "Integrating inundation models, Landsat satellite imagery, and GIS to assess tidal movements in Cook Inlet, Alaska." *The 2nd International Workshop on Modeling the Ocean*, Norfolk, VA, May 24-26, 2010.

Ezer, T. "Inundation modeling and remote sensing in Cook Inlet with applications for morphology change and Beluga whales movements." *Cook Inlet Modelers Workshop*, Anchorage, AK, March 29-30, 2010.

Ezer, T. and L.-Y. Oey. "The Bering Sea climate and the Alaskan Stream: A numerical modeling study." *2010 Ocean Sciences Meeting*, Portland, OR, February 22-26, 2010.

Liu, H., **Ezer, T.** and L.-Y. Oey. "Numerical simulations reveal the role of the Alaskan Stream in modulating the Bering Sea climate." *The 2nd International Workshop on Modeling the Ocean*, Norfolk, VA, May 24-26, 2010.

Ezer, T. "Inundation modeling and remote sensing in Cook Inlet with applications for morphology change and Beluga whales movements." *Cook Inlet Modelers Workshop*, Anchorage, AK, March 29-30, 2010.

5.3.3 Annual Report FY 2010

Ezer, T. and L.-Y. Oey. "The Bering Sea climate and the Alaskan Stream: A numerical modeling study." *2010 Ocean Sciences Meeting*, Portland, OR, February 22-26, 2010.

Liu, H. and **T. Ezer.** "Monitoring tidal movements in Cook Inlet, Alaska, using the integration of remote sensing data, GIS and inundation models." *2010 Ocean Sciences Meeting*, Portland, OR, February 22-26, 2010.

Liu, H. and **T. Ezer.** "Integration of Landsat imagery and an inundation model in flood assessment and predictions." *The 17th International Conference on Geoinformatics 2009*, August 12-14, 2009.

Hofmann, E.E. "Understanding and monitoring climate change in the Southern Ocean mesopleagic environment." *Workshop on Monitoring Climate Change Impacts: Establishing a Southern Ocean Sentinel Program*, Hobart, Tasmania, 2009.

Hofmann, E.E. "Synthesis of Southern Ocean food webs." *GLOBEC Seminar Series, National Oceanic and Atmospheric Administration*, Silver Spring, MD, 2009.

Mulholland, M.R. "Dinitrogen fixation in the coastal mid-Atlantic Ocean." *Meeting of the American Geophysical Union and the American Society of Limnology and Oceanography*, Portland, OR, February 21-26, 2010.

Mulholland, M.R. "Bioavailability of Effluent Organic Nitrogen in the Environment." *WERF, Nutrient Removal Stakeholder Conference*, Washington, DC, July, 1-2, 2009.

Noffke, N. "A Modern Perspective on Ancient Life: The Question of the Rise of Cyanobacteria in Earth History." *First International Conference on Geobiology*, Wuhan, China, 2010.

Noffke, N. "Microbially Induced Sedimentary Structures - Signs of Life in Archean to Modern Sandy Settings." *The 5th International Archean Symposium*, Perth, Australia, 2010.

Noffke, N. "Turbulent Lifestyle: Benthic Cyanobacteria on Earth's Sandy Beaches - 3 Billion Years ago to Today." *SLIC Latin-American Symposium on Ichnology*, Sao Leopoldo, Brazil, 2010.

Noffke, N. "Turbulent Lifestyle: Benthic Cyanobacteria on Earth's Sandy Beaches - 3 Billion Years ago to Today." *International Symposium on Paleoproterozoic Earth*, Calcutta, India, 2009.

Noffke, N. "Turbulent Life Style: Benthic Cyanobacteria on Earth's Sandy Beaches from the Archean to Today." *The 3rd International Paleontological Congress*, London, UK, 2010.

Noffke, N. "Biofilm-Catenae in Siliciclastic Tidal Flats and Their Biostabilization Properties." *The 3rd International Paleontological Congress*, London, UK, 2010.

Noffke, N. "A new Geosite 'Earth's Oldest Cyanobacteria' in the White Mfolozi Inlier Geopark, South Africa." *The 3rd International Paleontological Congress*, London, 2010.

Noffke, N. "The search for life in the aquatic sandy deposits of Mars: The criteria for biogenicity of microbially induced sedimentary structures." *NASA Astrobiology Conference AbSciCon 2010*, Houston, TX, 2010.

Noffke, N. "Sediment-stabilizing biofilm-catenae in sandy tidal flats." *NASA Astrobiology Conference AbSciCon 2010*, Houston, TX, 2010.

Noffke, N. "Biofilm-Catenae in sandy tidal flats and their influence on physical sediment dynamics." *First International Field Conference on Martian Sedimentology*, Utah, 2010.

Scully, M.E. "Wind modulation of hypoxia in Chesapeake Bay." *Chesapeake Modeling Symposium*, Annapolis, MD, May 10-11, 2010.

Scully, M.E. and W.R. Geyer. "Length scale dependence of mixing efficiency in a stratified estuary." *Ocean Sciences Meeting*, Portland, OR, February 22-26, 2010.

Engle, P.A. W.R. Geyer, and **M.E. Scully.** "Frictional hydraulics generate along-channel variability of tidal pumping in a partially mixed estuary." *Ocean Sciences Meeting*, Portland, OR, February 22-26, 2010.

Scully, M.E. "The importance of decadal-scale climate variability to wind-driven modulation of hypoxia in Chesapeake Bay." *Coastal and Estuarine Research Federation 20th Biennial International Conference*, Portland, OR, November 1-5, 2009.

Daniels, W.L., A. Wick, A. Haus, G.R. Whittecar, C. Carter, III. "Criteria for beneficial utilization of dredge sediments in Virginia, USA." *The 3rd AMIREG International Conference*, Athens, Greece, September 2009.

Whittecar, G. R., T.L. Thornton, John McLeod, and J.C. Smith. "Effective Monthly Recharge (Wem) Model Simulates Historic Groundwater Input at Mitigation Wetland Sites." *Geological Society of America Annual Meeting*, Portland, OR, October 18-21, 2009.

Whittecar, G. Richard, Tracy L. Thornton, John McLeod, and John C. Smith. "Simulate Historical Groundwater Fluctuations at Potential Mitigation

5.3.3 Annual Report FY 2010

Wetland Sites.” *Geological Society of America, Northeastern/Southeastern sections*, Baltimore, MD, March 15, 2010.

Whittecarr, G.R., Tracy L. Thornton, John McLeod, and John C. Smith. “Effective Monthly Recharge (Wem) Model Simulates Historic Groundwater Input at Mitigation Wetland Sites.” *Virginia Association of Wetland Professionals*, Williamsburg, VA, May 14, 2010.

Physics

DeSilva, S.U. and **J.R. Delayen**. “Higher order mode properties of superconducting parallel-bar cavities.” *IPAC 2010*, Kyoto, Japan, May 23-28, 2010.

DeSilva, S.U. and **J.R. Delayen**. “Design Optimization of superconducting parallel-bar cavities.” *2009 SRF Conference*, Berlin, Germany, September 20-25, 2009.

Drake, D.J., **S. Popovi**, **L. Vuškovi**, and T. Dinh. “Effects of water vapor presence in martian atmospheric entry plasma.” *The 48th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition*, AIAA-2010-1536, Orlando, FL, January 4-7, 2010.

Popovi, S., M. Nikolić, **J. Upadhyay**, and **L. Vuškovi**. “On the efficient production of metastable oxygen from electrical discharges.” *The 41st Plasmadynamics and Lasers Conference*, AIAA-2010-5042, Chicago, IL, June 28-July 1, 2010.

Efremov, A. and **A. Radyushkin**. “Perturbative QCD of hard and soft processes.” *International Workshop “Recent Advances in Perturbative QCD and Hadronic Physics,” Modern Physics Letters A 24*: 2803-2824 Trento, Italy, July 20-25, 2009.

Psychology

Edwards, A.L. and **I.K. Ash**. “Human preference for delay: Health and non-health decision domains.” *The 22nd Annual Convention of the Association for Psychological Science*, Boston, MA, May 2010.

May, R., and **I.K. Ash**. “Influence of gender, defensive processing, and stereotype threat on creative problem solving.” *The 22nd Annual Convention of the Association for Psychological Science*, Boston, MA, May 2010.

Tidikyte-Day, V. and **I.K. Ash**. “Effects of group gender composition on cognitive insight problem solving performance.” *The 22nd Annual Convention of the Association for Psychological Science*, Boston, MA, May 2010.

Edwards, A.L. and **I.K. Ash**. “We all delay: An examination of delay preference across certainty and decision domain.” *The Annual Spring Meeting of the Virginia Psychological Association*, Norfolk, VA, April 2010.

May, R. and **I.K. Ash**. “Stereotype threat in creative problem solving.” *The Annual Spring Meeting of the Virginia Psychological Association*, Norfolk, VA, April 2010.

Smith-Rodden, M. and **I.K. Ash**. “Memory distortions linked with hindsight bias during judgments of trust.” *The Annual Spring Meeting of the Virginia Psychological Association*, Norfolk, VA, April 2010.

Tidikyte-Day, V. and **I.K. Ash**. “Is one head better than two? Effects of working in groups on cognitive insight problem-solving performance.” *The Annual Spring Meeting of the Virginia Psychological Association*, Norfolk, VA, April 2010.

Ash, I.K. and S.A. Miles. “The role of working memory capacity in attentional filtering.” *The 50th Annual Meeting of the Psychonomic Society*, Boston, MA, November 2009.

Bliss, J.P. “Research Activities at the REACTS Lab.” *Colloquium presented to the Department of Psychology*, Orlando, FL, September 24, 2009.

Newlin, E.T., E.A. Bustamante, and **J.P. Bliss**. “Alarm relevance and reliability: Factors affecting pilots’ trust and alarm responses.” *International Symposium on Aviation Psychology*, 2009.

Jones, P., **J.P. Bliss**, J. Wilkinson, and T. Mastaglio. “Results of a comparative cognitive task analysis between dedicated after action review (AAR) practitioners and ad hoc practitioners.” *Interservice/Industry Training, Simulation and Education Conference*. Orlando, FL, November 30-December 3, 2009.

Lampton, D.R., **J.P. Bliss**, J. Kring, G. Martin, J. Saffold, and P. Garrity. “Training applications of online distributed multiplayer gaming systems.” *2009 Washington Interactive Technologies Conference*, Arlington, VA, August 19-21, 2009.

Bliss, J.P. “Faith versus trust: The influence of situational experience on perceived signal credibility and a distinction between constructs.” *The 53rd Annual Human Factors and Ergonomics Society Conference*, San Antonio, TX, October 19-23, 2009.

Spain, R.D. and **J.P. Bliss**. “The effects of automation expertise and system confidence on trust behaviors.” *The 53rd Annual Human Factors and Ergonomics Society Conference*, San Antonio, TX, October 19-23, 2009.

5.3.3 Annual Report FY 2010

Lampton, D., J.P. Bliss, K.A. Orvis, J. Kring, and G. Martin. "Distributed Game-Based Simulation Training Research Testbed." *Leveraging VR and computer-based games for training, Symposium conducted at the Annual Conference of the Human Factors and Ergonomics Society*, San Antonio, TX, 2009.

Heyne, J. Meyer, J.P. Bliss, J.D. Lee, D. Keller, and S. Rice. "Current concepts and trends in human-automation interaction." *The 53rd Annual Meeting of the Human Factors and Ergonomics Society*, Santa Monica, CA, October 2009.

Brill, J.C., M. Mouloua, S.D. Hendricks. "Compensatory strategies for managing the workload demands of a multimodal reserve capacity task." *The 53rd Annual Meeting of the Human Factors and Ergonomics Society*, San Antonio, TX, 2009.

Brill, J.C., M. Mouloua, and E. Shirkey. "Predictive validity of the Aggressive Driver Behavior Questionnaire (ADBQ) in a simulated environment." *The 53rd Annual Meeting of the Human Factors and Ergonomics Society*, San Antonio, TX, 2009.

Brill, J.C. "The Applied Sensory Psychology Laboratory at Old Dominion University." *The 53rd Annual Meeting of the Human Factors and Ergonomics Society*, San Antonio, TX, 2009.

Brill, J.C., M. Mouloua, and S.D. Hendricks. "Compensatory strategies for managing the workload demands of a multimodal reserve capacity task." *The 53rd Annual Meeting of the Human Factors and Ergonomics Society*, San Antonio, TX, 2009.

Brill, J.C., M. Mouloua, and E. Shirkey. "Predictive validity of the Aggressive Driver Behavior Questionnaire (ADBQ) in a simulated environment." *The 53rd Annual Meeting of the Human Factors and Ergonomics Society*, San Antonio, TX, 2009.

Davis, D.D., M.P. Jones, K.L. Oborn, D.A. Major, J.V. Sanchez-Hucles, and S.J. DeLoatch. "Impact of Classroom Climate on Retention Antecedents in STEM Disciplines." *Annual Meeting of the Society for Industrial and Organizational Psychology*, Atlanta, GA, April 2010.

Liang, K.G., D.D. Davis, J.M. Sun, and Y. Liu. "I/O Psychology Practices in China: East meets West." *Annual Meeting of the Society for Industrial and Organizational Psychology*, Atlanta, GA, April 2010.

Jones, M.P., J.M. Holland, and D.D. Davis. "Effect of Classroom Climate on Capitalization for Women and Minorities." *The Annual Meeting of the Society for Industrial and Organizational Psychology*, Atlanta, GA, April 2010.

Davis, D.D. "Daoism and positive psychology: Healing self, healing society." "Daoist Psychology." *Sixth International Conference on Daoist Studies: Daoism Today: Science, Health and Ecology*, Los Angeles, CA, June 2-6, 2010.

Davis, D.D. "Daoism and leadership development." *Sixth International Conference on Daoist Studies: Daoism Today: Science, Health and Ecology*, Los Angeles, CA, June 2-6, 2010.

Klostermann, K., R. Chen, M.L. Kelley, V.M. Schroeder, A.L. Braitman, and T. Mignone. "Coping Behavior and Depressive Symptoms in Adult Children of Alcoholics." *American Psychological Association*, Toronto, Canada, August 2009.

Lam, K.K., M.L. Kelley, and W. Fals-Stewart. "Children's Exposure to Violence: Moderating Role of Parenting." *American Psychological Association*, Toronto, Canada, August 2009.

Doane, A.N. and M.L. Kelley. "Development and Piloting of the Identification of Harassers and Victims of Cyber Harassment Questionnaire." *Conference on Human Development*, New York, NY, April 2010.

D'Lima, G. and M.L. Kelley. "For whom the bell tolls: Academic Behavior, Self-Regulation, & Paced Drinking in ACOA and non-ACOA's." *Virginia Academy of Sciences*, Harrisonburg, VA, May 2010.

Landers, R.N. "On the meta-analysis of non-random, quasi-experimental data." *The 25th Annual Conference of the Society for Industrial and Organizational Psychology*, Atlanta, GA, April 2010.

Johnson, R.C. and R.N. Landers. "Anonymity and agency in discussion." *Annual Conference of the Virginia Social Science Association*, Petersburg, VA, March 2010.

Landers, R.N. "Using social networking and learner-centered measurement in automated social mentoring system." *The 14th Annual World Conference on E-Learning in Corporate, Government, Healthcare and Higher Education*, Vancouver, Canada, October 2009.

Lau-Barraco, C. and R.L. Collins. "Gender differences in the use of drinking control strategies in a community-based sample of heavy drinkers." *Annual Meeting of the Research Society on Alcoholism*, San Antonio, TX, June 2010.

Lau-Barraco, C. and J.P. Read. "College and noncollege emerging adults: Differences in drinking motivations and alcohol involvement." *Annual Meeting of the Association for Behavioral and Cognitive Therapies*, New York, NY, November 2009.

5.3.3 Annual Report FY 2010

Lau-Barraco, C. and **J. Gokee-LaRose.** "Social networks and alcohol use among nonstudent emerging adults: A preliminary study." *Biennial meeting of the Society for the Study of Emerging Adults*, Atlanta, GA, October 2009.

Madhavan, P. "Interacting with single and multiple automated aids." *The 53rd Annual Meeting of the Human Factors and Ergonomics Society*, San Antonio, TX, 2009.

Madhavan, P. "Current concepts and trends in human-automation interaction." *The 53rd Annual Meeting of the Human Factors and Ergonomics Society*, San Antonio, TX, 2009.

Madhavan, P. and **R.R. Phillips.** "A study of automation trust under multiple dual-task conditions." *The 117th Annual Meeting of the American Psychological Association*, Toronto, Canada, August 2009.

Brennan, P.C., P. Madhavan, C. Gonzalez, and F.C. Lacson. "The impact of performance incentives during training on transfer of learning." *The 53rd Annual Meeting of the Human Factors and Ergonomics Society*, Santa Monica, CA, October 2009.

Bustamante, E.A., P. Madhavan, C.D. Wickens, R. Parasuraman, D. Manzey, J.E. Bahner-Heyne, J. Meyer, J.P. Bliss, J.D. Lee, D. Keller, and S. Rice. "Current concepts and trends in human-automation interaction." *The 53rd Annual Meeting of the Human Factors and Ergonomics Society*, Santa Monica, CA 2009.

Madhavan, P. "Trust in single and multiple automated aids." *The 53rd Annual Meeting of the Human Factors and Ergonomics Society*, Santa Monica, CA, October 2009.

Madhavan, P., Y. Papelis, R. Kady, and L. Moya. "An agent-based model of crowd cognition." *The 18th Behavior Representation in Modeling & Simulation Conference*, p.139-140, Sundance Resort, UT, 2009.

Phillips, R.R. and P. Madhavan. "Effects of secondary task processing codes on human-automation interaction in a cross-modal experimental paradigm." *The 53rd Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA, October 2009.

Portnoy, F. and P. Madhavan. "Using persistence display to increase change detection in process control graphical gauges." *The 53rd Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA, October 2009.

Portnoy, F. and P. Madhavan. "Current trends in Human Factors and Ergonomics employment." *The 53rd Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA, October 2009.

Spain, R.D. and P. Madhavan. "The role of etiquette and pedigree in automation trust and dependence." *The 53rd Annual Meeting of the Human Factors and Ergonomics Society*. Santa Monica, CA, October 2009.

Brown, J. and P. Madhavan. "Applying discrete event simulation to facilitate the development of passenger flow models within airports." *The Modeling, Simulation and Gaming Student Capstone Conference*, Suffolk, VA, 2009.

Madhavan, P. "Understanding the decision making components of trust in the cyber domain." *Working Meeting on "The Many Facets of Trust in the Cyber Domain: Cognitive, Social and Cultural Factors for Active Trust Management."* Pensacola, FL, 2009.

Phillips, R.R. and P. Madhavan. "An empirical comparison of verbal versus spatial distractions on human-automation integrated performance." *The Modeling, Simulation and Gaming Student Capstone Conference*, Suffolk, VA, 2009.

Brennan, P.C., P. Madhavan. "An investigation of the dual-process theory of decision making in simulated airport luggage screening." *The Modeling, Simulation and Gaming Student Capstone Conference*. Suffolk, VA, May 2010.

Brown, J.R. and P. Madhavan. "Using discrete event simulation to identify choke points in passenger flow through airport checkpoints." *The Modeling, Simulation and Gaming Student Capstone Conference*, Suffolk, VA, May 2010.

Major, D.A. and H.M. Lauzun. "The influence of LMX on stress and work-family outcomes: Implications and recommendations for leader development." *American Psychological Association's 8th International Conference on Occupational Stress and Health*, San Juan, Puerto Rico, November 2009.

Major, D.A. and H.M. Lauzun. "The influence of LMX on stress and work-family outcomes: Implications and recommendations for leader development." *American Psychological Association's 8th International Conference on Occupational Stress and Health*, San Juan, Puerto Rico, November 2009.

Davis, D.D., M.P. Jones, K.L. Oborn, D.A. Major, J.V. Sanchez-Hucles, and S.J. DeLoatch. "Impact of classroom climate on retention antecedents in STEM disciplines." *The 25th Annual Conference of the Society for Industrial and Organizational Psychology*, Atlanta, GA, April 2010.

Holland, J.M., D.A. Major, V.J. Morganson, and K.A. Orvis. "Increasing diversity in STEM through professional development activities." *The 25th Annual Conference of the Society for Industrial and Organizational Psychology*, Atlanta, GA, April 2010.

5.3.3 Annual Report FY 2010

Major, D.A. and V.J. Morganson. "Attitudes toward information technology careers: Competing theories for understanding gender issues." *The 27th International Congress of Applied Psychology*, Melbourne, Australia, July 2010.

Holland, J.M., **D.A. Major**, V.J. Morganson, and **K.A. Orvis**. "Increasing diversity in STEM through professional development activities." *The 25th Annual Conference of the Society for Industrial/Organizational Psychology*, Atlanta, GA, April, 2010.

Morganson, V.J., H.M. Lauzun, and **D.A. Major**. "Customer sexual harassment: Expanding the nomological network and examining support." *The 25th Annual Conference of the Society for Industrial and Organizational Psychology*, Atlanta, GA, April 2010.

Orvis, K.A., R.C. Brusso, M.E. Wasserman, and S.L. Fisher. "The moderating role of personality in determining the optimal degree of learner control in e-learning environments." *The Annual Conference of the Academy of Management*, Chicago, IL, August 2009.

Brusso, R.C., **K.A. Orvis**, K.N. Bauer, and A.G. Tekleab. "The impact of initial unrealistic goal setting on subsequent performance in videogame-based training." *The 25th Annual Conference of the Society for Industrial/Organizational Psychology*, Atlanta, GA, April 2010.

Mogan, T. and **K.A. Orvis**. "A theoretical model specifying individual and contextual factors that pique high-quality employee self-development." *31st Annual Industrial Organizational Organizational Behavior Conference*, Houston, TX, 2010.

Waples, J.A., S.E. Finley, and **K.A. Orvis**. "Videogame-based training motivation, goal-setting, and performance: Role of trainee affect." *Annual Convention of the Southeastern Psychological Association*, Chattanooga, TN, March 2010.

Orvis, K.A., R.C. Brusso, M.E. Wasserman, and S.L. Fisher. "The moderating role of personality in determining the optimal degree of learner control in e-learning environments." *Annual Conference of the Academy of Management*, Chicago, IL, August 2009.

Brusso, R.C. and **K.A. Orvis**. "Learner control and learning: A theoretical review of the moderating role of personality in e-learning environments." *31st Annual Industrial Organizational Behavior Conference, 30th Annual Industrial Organizational/Organizational Behavior Conference*, Chicago, IL, August 2009.

Porter, B. "Safety belt research in Virginia." Four regional conferences hosted by the *Highway Safety Office, Department of Motor Vehicles*, Richmond, Harrisonburg, Roanoke, and Suffolk, VA, 2009.

Porter, B. "Safety belt research and the importance of seat belt tickets." *Annual judicial conference for judges*, Virginia Beach, VA, August 2009.

Porter, B. "Safety belt research in Virginia." *Military/Civilian Transportation Safety Workshop*, Fort Eustis, VA, September 2009.

Scerbo, M.W., T.R. Turner, D.A. Meglan, R. Waddington. "Evaluating visual and haptic feedback on a virtual reality simulator for orthopedic bone pinning." *The Human Factors & Ergonomics Society 53rd Annual Meeting*, p. 1116-1120, Santa Monica, CA, 2009.

Anderson, B.L., **M.W. Scerbo**, L.A. Belfore, and A. Abuhamad. "Detecting critical patterns in maternal-fetal heart rate tracings over time." *The Human Factors & Ergonomics Society 53rd Annual Meeting*, p. 1121-1125, Santa Monica, CA, 2009.

Liu, M., L.A. Belfore, Y. Shen, and **M.W. Scerbo**. "Uterine contraction modeling and simulation." *MODSIM WORLD*, Virginia Beach, VA, October 2009.

Anderson, B.L., **M.W. Scerbo**, L.A. Belfore, and A. Abuhamad. "When is a deceleration perceived as a late deceleration?" *The 10th International Meeting on Simulation in Healthcare*, Phoenix, AZ, January 2010.

Newlin-Canzone, E.T., **M.W. Scerbo**, G. Gliva-McConvey, and A.M. Wallace. "Inside the standardized patient's mind: Understanding the cognitive challenges." *The 10th International Meeting on Simulation in Healthcare*, Phoenix, AZ, January 2010.

Scerbo, M.W. "Simulation: Fidelity, realism and surrealism." *The 10th International Meeting on Simulation in Healthcare*, Phoenix, AZ, January 2010.

Stefanidis, D. and **M.W. Scerbo**. "Proving the importance of secondary task metrics for performance assessment on surgical simulators." *The 2010 Annual ACS Educational Institute Consortium Meeting*, Chicago, IL, May 2010.

Scerbo, M.W. "Medical simulator training systems for maternal-fetal health and surgery." *Southeastern Virginia Biomedical Technology Partnership Forum*, Newport News, VA, June 2010.

Newlin-Canzone, E.T., **M.W. Scerbo**, G. Gliva-McConvey, and A.M. Wallace. "The Role of Human Factors in SP Training." *The 9th Annual Association of Standardized Patient Educators Conference*, Baltimore, MD, June 2010.

Winstead, B. "Clearing the Diversity Hurdle: Accreditors' Views of Diversity." *Annual Conference of Chairs of Graduate Departments of Psychology*, Sarasota, FL, January 2009.

Office of Research

Ahmed, Trisha, Mohammad Nazrul Islam, K. Vijayan Asari, and **Mohammad A. Karim**. "Long range face recognition using shifted phase joint transform correlation technique." *SPIE Symposium on Optical Engineering + Applications: Optics and Photonics for Information Processing III* 7442 (2009): 74420R-74420R-12, San Diego, CA, August 2-6, 2009.

Magpili, Luna. see C. Ariel Pinto, Engineering Management and Systems Engineering, College of Engineering.

Frank Reidy Research Center for Bioelectrics

Beebe, S.J., W.E. Ford, W. Ren, X. Chen, and **K.H. Schoenbach**. "Non-Ionizing Nanosecond Pulsed Electric Fields as a Cancer Treatment: *In Vitro* Studies." Conference Proceedings IEEE Engineering in Medicine and Biology Society 1 (2009): 6509-6512.

Heller, R., B. Ferraro, A. Donate, and M.J. Jaroszeski. "Electrically mediated gene delivery to the skin." *Medical Physics and Biomedical Engineering, World Congress 2009*, 25.XIII, Munich, Germany, September 7-12, 2009.

Kolb, J.F., N. Scully, B. Gregory, and **K.H. Schoenbach**. "Spark Discharges For Surgical Applications." *IEEE International High Voltage and Power Modulator Conference*, Atlanta, GA, May 23-27, 2010.

Kolb, J.F., X. Chen, J. Zhuang, W. Ren, N. Scully, **R.J. Swanson**, **S.J. Beebe**, and **K.H. Schoenbach**. "Tumor treatment with nanosecond pulsed electric fields." *The 17th IEEE International Pulsed Power Conference*, Washington, D.C., June 29-July 2, 2009.

Kolb, J.F., **L.C. Heller**, T. Singh, A.M. Bowman, **R.J. Swanson**, and **K.H. Schoenbach**. "Treatment of skin infections with DC-operated afterglow air plasma jet." *The 37th IEEE International Conference on Plasma Science*, Norfolk, VA, June 20-24, 2010.

Kolb, J.F., **S. Xiao**, J.T. Camp, M. Migliaccio, C. Bajracharya, and **K.H. Schoenbach**. "Sub-Nanosecond Electrical Pulses for Medical Therapies and Imaging." *The 4th European Conference on Antennas and Propagation*, Barcelon, Spain, April 12-16, 2010.

Kolb, J.F., **R.P. Joshi**, **S. Xiao**, **K.H. Schoenbach**. "Streamer Breakdown and Propagation in Water." *The International Workshop on Plasmas with Liquids*, Matsuyama, Ehime, Japan, March 22-24, 2010.

Kolb, J.F., X. Chen, J. Zhuang, W. Ren, N. Scully, **R.J. Swanson**, **S.J. Beebe**, **K.H. Schoenbach**. "Tumor treatment with nanosecond pulsed electric fields."

The 17th IEEE International Pulsed Power Conference, Washington, DC, June 29-July 2, 2009.

Pakhomov, A. see R.J. Swanson, Biological Sciences, College of Sciences.

Pakhomov, A.G., B.L. Ibey, A.M. Bowman, F.M. Andre, and **O.N. Pakhomova**. "Nanosecond-Duration Electric Pulses Open Nanometer-Size Pores in Cell Plasma Membrane." *Medical Physics and Biomedical Engineering, World Congress 2009*, 25.XIII, p. 17-20, Munich, Germany, September 7-12, 2009.

Schoenbach, K. see R.J. Swanson, Biological Sciences, College of Sciences.

Schoenbach, K.H., **S. Xiao**, J.T. Camp, M. Migliaccio, **S.J. Beebe**, and C.E. Baum. "Wideband, High-Amplitude, Pulsed Antennas for Medical Therapies and Medical Imaging." *2009 International Conference on Electromagnetics and Advanced Applications*, Torino, Italy, September 14-18, 2009.

Zhuang, J., W.H. Baldwin, **K.H. Schoenbach**, and **J.F. Kolb**. "Pulsed Electric Field Induced Changes in Dielectric Properties of Biological Cells." *IEEE International High Voltage and Power Modulator Conference*, Atlanta, GA, May 23-27, 2010.

Zhuang, Z., W.H. Baldwin, and **K.H. Schoenbach**. "Pulsed electric field induced changes in dielectric properties of biological cells." *The 17th IEEE International Pulsed Power Conference*, Washington, DC, June 29-July 2, 2009.

Xiao, S. "Ultra Wideband Antennas for Medical Diagnostic and Therapy." *The 2009 DEIS Conference*, Virginia Beach, VA, October 2009.

Xiao, S. and **K.H. Schoenbach**. "Modifying cell functions with ultrashort pulses." *URSI National Radio Science Meeting*, Boulder, CO, January 2010.

Xiao, S., T. Camp, V. Nesin, **A. Pakhomov**, **R. Heller**, and **K.H. Schoenbach**. "Biological Cell Response to High Power Electromagnetic Pulses." *IEEE International Power Modulator and High Voltage Conference* in Atlanta, GA, May 27, 2010.

Bajracharya, C., **S. Xiao**, J. Li and **K.H. Schoenbach**. "Target Detection with Focused Pulsed Electromagnetic Radiation." *IEEE International Power Modulator and High Voltage Conference*, Atlanta, GA, May 27, 2010.

Xiao, S., C. Bajracharya, M. Migliaccio, C.E. Baum, and **K.H. Schoenbach**, "Subnanosecond Pulsed Antennas for Biomedical Applications." *IEEE International Power Modulator and High Voltage Conference*, Atlanta, GA, May 27, 2010.

5.3.3 Annual Report FY 2010

Camp, J., S. Xiao, W. Baldwin, and K.H. Schoenbach. "Effects of the Rate of Temperature Increase on Liver Cancer Cells in Vitro." *IEEE International Power Modulator and High Voltage Conference*, Atlanta, GA, May 27, 2010.

Xiao, S. "Biological Cells Response to High Power Electromagnetic Pulses." *2010 International Bioelectrics Conference*, Norfolk, VA, June 25-26, 2010.

Virginia Modeling, Analysis and Simulation Center

Banks, C.M. and J.A. Sokolowski. "Advancing Cognitive Agent-Based Modeling: Personifying the Agents." *2009 Summer Simulation Multiconference*, Istanbul, Turkey, July 13-16, 2009.

Banks, C.M. and J.A. Sokolowski. "Meeting the Challenges of STEM Education: Teaching Modeling and Simulation with Real-World Applications." *The 2010 Spring Simulation Conference*, Orlando, FL, April 11-15, 2010.

Behr, J. and R. Diaz. "A System Dynamic Approach to Modeling the Sensitivity of Inappropriate Emergency Department Utilization." *INFORMS Annual Meeting 2009*, San Diego, CA, October 2009.

Behr, Joshua and R. Diaz. "A System Dynamics Approach to Modeling the Sensitivity of Inappropriate Emergency Department Utilization." *2010 International Conference on Social Computing, Behavioral Modeling, & Prediction*, NIH, March 29, 2010.

Gangel, Marshall, Michael J. Seiler, and Andrew Collins. "Exploring the Foreclosure Contagion Effect Using Agent-Based Modeling." *American Real Estate Society Annual Meeting*, Naples, FL, April 2010.

Ustun, A., S.Y. Diallo, and A. Tolk. "Applying Model-based Data Engineering to Evaluate the Alignment of Information Modeled within JC3IEDM, MSDL, and MATRIX-FOM." *Fall Simulation Interoperability Workshop*, Orlando, FL, September 2009.

Ardalan, A. and R. Diaz. "Comparing Customer Line Just-In-Time and CONWIP performance via simulation." *Industrial Simulation Conference*, June 7-9, 2010.

Diaz, R. "Using Optimization coupled with simulation to construct layout solutions." *2010 SpringSIM*, April 11-15, 2010.

Bruzzzone, Agostino, Antonio Cimino, Rafael Diaz, and Longo Francesco. "Inventory control with products

returns: A state of the art overview." *SpringSIM*, April 11-15, 2010.

Cimino, A., R. Diaz, Longo Francesco, and Mirabelli Giovanni. "Empty containers repositioning: a state of the art overview." *SpringSIM*, April 11-15, 2010.

Diaz, R. "An Application of Simulation-based Optimization in Emergency Departments Resource Allocation." *INFORMS Annual Meeting 2009*, San Diego, CA, October 2009.

Diaz, R. and W. Talley. "The economic impact of transportation infrastructure projects in urban and suburban regions: A System Dynamics Evaluation." *ModSim World 2009*, October 2009.

Papelis, Y., G. Watson, P. Katsioloudis, and P. Reed. "Development of a Container Handling Simulation for Demonstrating Port Careers." *Spring Simulation Conference*, Orlando, FL, 2010.

Papelis, Y., L. Bair, S. Manepalli, P. Madhavan, R. Kady, and E. Weisel. "Modeling of Human Behavior in Crowds Using a Cognitive Feedback Approach." *5th International Conference on Pedestrian and Evacuation Dynamics*, Gaithersburg, MD, March 8-10, 2010.

Sokolowski, J.A. and C.M. Banks. "Developing an Interdisciplinary, Complex-Systems Predictive Model for Characterizing the Effects of Climate Change." *The Huntsville Simulation Conference HSC 2009*, Huntsville, AL, October 27-29, 2009.

Sokolowski, J.A. and C.M. Banks. "Modeling Complex Social Behavior: A System Dynamics Approach." *The 19th Conference on Behavior Representation in Modeling and Simulation*, Charleston, SC, March 22-25, 2010.

Tolk, A., C.L. Blais, S.Y. Diallo, and C.D. Turnitsa. "Conceptual Requirements for Command and Control Languages." *Fall Simulation Interoperability Workshop*, Orlando, FL, September 2009.

Tolk, Andreas, C.D. Turnitsa, S.Y. Diallo, and Rafael E. Landaeta. "Engineering Management for Complex Systems." *Industrial Engineering Research Conference*, Miami, FL, 2009.

Tolk, A. and C.D. Turnitsa. "An Extended Interoperability Framework for Joint Composability." *Fall Simulation Interoperability Workshop*, Orlando, FL, September 2009.

Turnitsa, C.D., A. Tolk, and R.H. Kewley. "Exploring Primitives of Meaning in Support of Interoperability." *Fall Simulation Interoperability Workshop*, Orlando, FL, September 2009.

Perry Library

Fry, M., Robert Fenning and Rusty Waterfield.
“Reinvigorating the University Library - Incorporating
the Learning Commons / Student Success Center
Concept.” *Society of College and University Planners
National Conference*, Portland, OR, June 2010.

Yaco, S., “Documenting the Struggle for Integrated
Virginia Schools: A Case Study.” *Conferência da SUV e
IV Encontro de Arquivos Científicos: A Natureza dos
Arquivos Universidades e Instituições de Pesquisa
Perspectiva Internacional*, p. 22-28, Rio de Janeiro,
Brazil, 2009.





Book Reviews

College of Arts and Letters Art

Wojtowicz, Robert. Review of *Wrestling with Moses: How Jane Jacobs Took on New York's Master Builder and Transformed the American City*, by Anthony Flint. *Virginian-Pilot*, February 14, 2010: 7.

Wojtowicz, Robert. Review of *Genius of Common Sense: Jane Jacobs and the Story of The Death and Life of Great American Cities*, by Glenna Lang and Marjory Wunsch. *Virginian-Pilot*, February 14, 2010: 10.

Wojtowicz, Robert. Review of *Leopold Eidlitz: Architecture and Idealism in the Gilded Age*, by Kathryn E. Holliday. *Southeastern College Art Conference Review* 15 (2009): 493-495.

English

Richards, J.H. Review of *The Muse of the Revolution: The Secret Pen of Mercy Otis Warren and the Founding of a Nation*, by Nancy Rubin Stuart. *Resources for American Literary Study* 33 (2010): 288-90.

Scheibman, Joanne. Review of *The semantic field of modal certainty: A corpus-based study of English adverbs*, by Anne-Marie Simon-Vandenberg and Karin Aijmer. *Functions of Language* (2010): 126-133.

Foreign Languages and Literatures

Lubich, F.A. Review of *German Artists and Hitler's Mind. Avant-Garde in a Turbulent Era*, by Wayne Andersen. *German Studies Review* XXXIII.2 (2010): 462-464.

Lubich, F.A. Review of *Visualizing the Holocaust - Documents, Aesthetics, Memory*, by Eds. David Bathrick, Brad Prager, and Michael D. Richardson. *German Studies Review* XXXIII.1 (February 2010): 239-240.

Lubich, F.A. Review of *Rebirth of a Culture. Jewish Identity and Jewish Writing in Germany and Austria Today*, by Eds. Hillary Hope Herzog, Todd Herzog, and Benjamin Lapp. *German Studies Review* XXXII.3 (2009): 717-718.

History

Heidbrink, Ingo. Review of *An Environmental History of North Sea Ling and Cod Fisheries, 1840-1914*, by Rene Taudal Poulsen. *Vierteljahresschrift für Sozial- und Wirtschaftsgeschichte*, 95, Heft 3 (2009): 381-382.

Heidbrink, Ingo. Review of *Lands that Hold One Spellbound: A Story of East Greenland*, by Spencer Appolonio. *International Journal of Maritime History* XXI.1 (2009): 442-443.

Heidbrink, Ingo. Review of *Anarchie und Weltrecht. Das Deutsche Reich und die Institutionen der Weltwirtschaft 1890-1930*, by Niels P. Petersson. *Vierteljahresschrift für Sozial- und Wirtschaftsgeschichte*, 96, Heft 3 (2009): 442-443.

Holden, Robert H. Review of *Remembering a Massacre in El Salvador: The Insurrection of 1932, Roque Dalton and the Politics of Historical Memory*, by Hector Lindo-Fuentes, Erik Ching, and Rafael A. Lara-Martinez. *The Americas* 66.1 (2009): 139-141.

Sweeney, James R. Review of *Roanoke, Virginia: 1882-1912: Magic City of the New South*, by Rand Dotson. *The Historian* (Winter 2009): 841-843.

5.3.3 Annual Report FY 2010

Sweeney, James R. Review of *Grassroots Garveyism: The Universal Negro Improvement Association in the Rural South*, by Mary G. Rolinson. *The Georgia Historical Quarterly* (Winter 2009): 469-472.

Sweeney, James R. Review of *All The Way With LBJ: The 1964 Presidential Election*, by Robert David Johnson. *The Journal of American History* (December 2009): 914.

Philosophy And Religious Studies

Bluhm, Robyn. Review of *Practical Autonomy and Bioethics*, by James Stacey Taylor. *Metapsychology* online reviews, 2010.

Bluhm, Robyn. Review of *An Introductory Philosophy of Medicine: Humanizing Modern Medicine*, by James A. Marcum. *Theoretical Medicine and Bioethics*, August 2009. Online.

Political Science

Adams, Francis. Review of *Shaping the Humanitarian World*, by Peter Walker and Daniel Maxwell. *Political Studies Review* (May 2010): 243-244.

Adams, Francis. Review of Richard Jolly, Louis Emmerij and Thomas Weiss' "UNIdeas that Changed the World," *Perspectives on Political Science*, Vol. 39, No.2, (April 2010): 120-121.

Aaron Karp. Review of *The Tradition of Non-Use of Nuclear Weapons*, by T.V. Paul. *Contemporary Security Policy* 30.3 (April 2010): 196-202.

Aaron Karp. Review of *The Nuclear Taboo: The United States and the Non-Use of Nuclear Weapons since 1945*, by Nina Tannenwald. *Contemporary Security Policy* 30.3 (April 2010): 196-202.

College of Business and Public Administration

Economics

Koch, James V. Review of *The First Day of the Blitz: September 7, 1940*, by Peter Stansky. *H-German, H-Net Reviews*, October 2009.

Koch, James V., Review of *The Great Crusade: A New Complete History of the Second World War*, by H.P. Willmott. *H-German, H-Net Reviews*, January 2010.

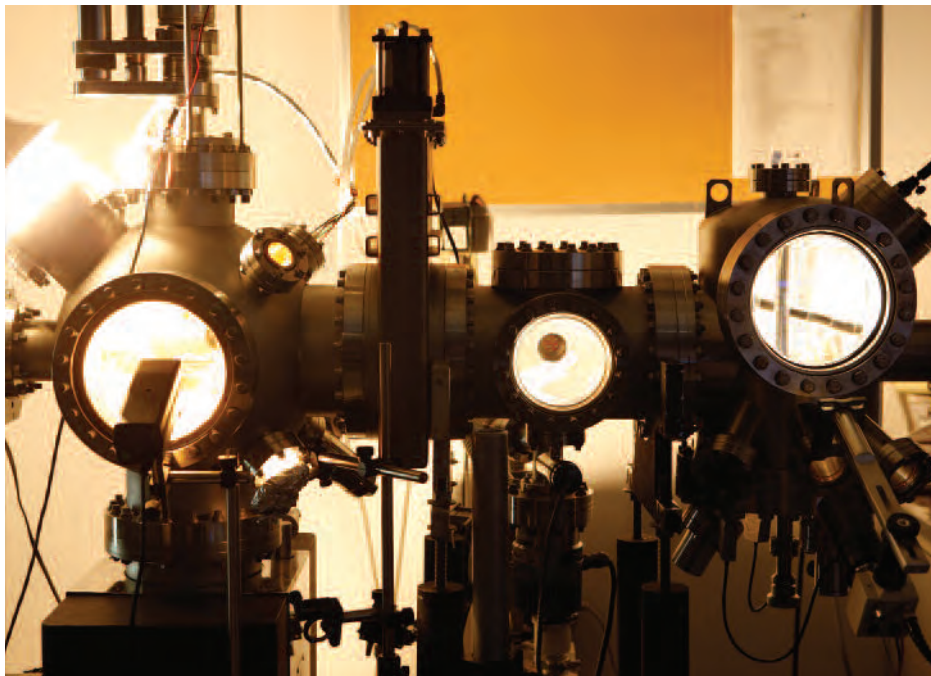
College of Sciences

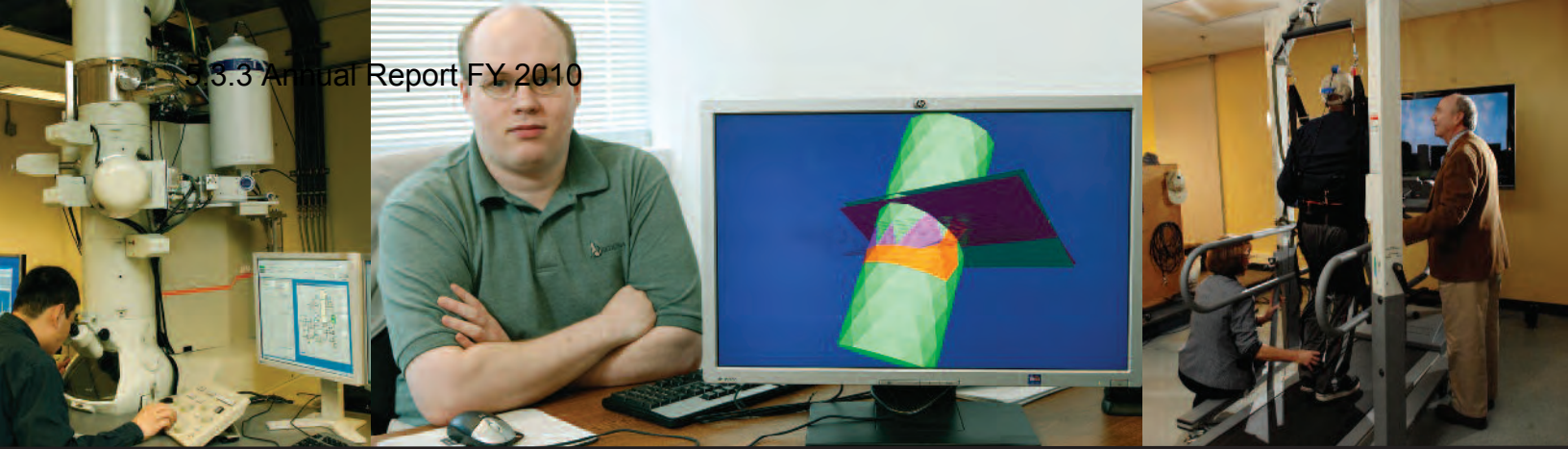
Ocean, Earth and Atmospheric Sciences

Dobbs, F.C. Review of *Animal, Vegetable, Miracle: A year of food life*, by Barbara Kingsolver. *The Larchmont Light* 29.3 (2010): 15-17.

Perry Library

Ritchie, Jessica. Review of *The Beautiful Cigar Girl: Mary Rogers, Edgar Allen Poe and the Invention of Murder*, by David Stashower. *Virginia Libraries* (March 2010): 42-43.





Keynote/Plenary Speakers

College of Arts & Letters

de Silva, Chandra R. "The Role of Law in Society in Developing Nations." The 2010 Advocate Daniel Jacobson Lecture, Hebrew University of Jerusalem, May 16, 2010.

Goldin, Farideh. "Iranian Literature in the last 50 years." *HBI conversations*. Westchester, NY, May 12, 2010.

Goldin, Farideh. "Jewish Life in Iran." Jewish United Fund. Chicago, IL, November 18, 2009.

Goldin, Farideh. "The Perils of Writing Memoirs." *Hadassah Brandeis Conversations*. Columbia/Bethesda, MD, November 3-4, 2009.

Heller, Dana. "Calling Out Around the World": The Global Appeal of Interactive Reality Dance Formats." *Conference on New Trends in Brazilian Television*. Rio De Janeiro, Brazil, August 24-25, 2009.

Heidbrink, Ingo. "USS MONITOR versus CSS Virginia - The Battle of Hampton Roads." Aktuelle Themen der Schiffahrtsgeschichte, Deutsches schiffahrtsmuseum, Bremerhaven, Germany, November 11, 2009.

Carhart, Michael C. "Networks of Travel and Science: Blumenbach's Caucasian Skull, 1793." Albert-Ludwigs-Universität, Freiburg im Breisgau, Germany, December 14, 2009.

Hatab, Lawrence. "Nietzsche on Nature and Life Affirmation." *International Nietzsche Conference*, Universidad Diego Portales, Santiago Chile, November 2-4, 2009.

Hatab, Lawrence. "Nietzsche, Will to Power, and Politics." *The 11th Graduate Student Conference*, Boston College, Boston, MA, March 19-20, 2010.

Hatab, Lawrence. "Nietzsche on Consciousness and Language." *Graduate Student Conference*, Concordia University, Montreal, Canada, March 29-31, 2010.

Hatab, Lawrence. "Dasein: The Early Years." *Launches and Re-Launches, Phenomenology Conference*, University of Sussex, May 19-20, 2010; University of Beirut, May 24, 2010.

Chen, Jie. "Attitudinal and Behavioral Orientations of China's Middle Class Toward Democracy and Democratization." Brookings Institution, Washington, DC, September 22, 2009.

Chen, Jie. "The Middle Class and Political Change in China." Shanghai Jiaotong University, Shanghai, China, June 31, 2009.

Chen, Jie. "The State of Survey Research on Chinese Politics: Contributions and Challenges." Fudan University, Shanghai, China, June 2, 2009.

Chen, Jie. "Social Capital and Local Governance in China." Shanghai Normal University, June 28, 2009.

Karp, Aaron. "Reinventing Disarmament for a Globalized World." *Rajiv Gandhi's Disarmament Initiatives: Global and South Asian Contexts*, Pondicherry University, India, March 9, 2010.

Serfaty, Simon. "Europe at a Crossroads." *Twenty-Ninth Annual World Affairs Institute*, Pittsburgh, PA, 2010.

College of Health Sciences

Rutledge, C.M. and D. Rimer. "Subculture Awareness-Goth." *Annual School Health and Education Partnership Conference*. Longwood University, July 13-15, 2009. Keynote Speaker.

College of Sciences

Gregory, Richard V. "Quantum Dots for Coloration and Sensor Technology on 'Smart Textiles.'" *Techtextil*, North America, Atlanta, GA, May 2010.

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Hatcher, Patrick G. "Advances in the Non-invasive Molecular Characterization of Humic Substances by NMR and Fourier Transform Ion Cyclotron Resonance Mass Spectrometry: A Revolution in Molecular Understanding." *XV Meeting of the International Humic Substances Society*, Puerto de la Cruz, Tenerife, Canary Islands, June 27-July 2, 2010.

Nelson, Michael. "The Open Archives Initiative Object Reuse and Exchange Project." RIBDA 2009, Lima, Peru, October 29, 2009.

Nelson, Michael. "The Open Archives Initiative Object Reuse and Exchange Project." WCI 2009, Berlin, Germany, October 15, 2009. Keynote Speaker.

Butler IV, Mark J. 2009. "Multiplicative Effects of Exploitation on Caribbean Spiny Lobster," The Crustacean Society Annual Conference, Tokyo, Japan.

Savitzky, Alan. "Undergraduate Research and Other Opportunities in Biology through the National Science Foundation." *First Annual Undergraduate Research Conference for Faculty, Staff and Administrators*, Oklahoma City, OK, March 26, 2010.

Jones, C.M. "Exploring the value of life-history patterns revealed by otolith ageing." *4th International Otolith Symposium*, Monterey, CA, August 2009.

Davis, D.D. "Organization development in Chinese organizations." *Organization Development in Rapidly Changing Environments, Chinese Leadership Consortium*, Shanghai, China, July 2009.

Impett, E.A. and J.M. Henson. "Femininity ideology and the development of adolescent sexuality." *Annual Meeting of the International Academy of Sex Research*, San Juan, Puerto Rico, August 2009.

Kelley, M.L. "Behavioral Couples Therapy for Drug-Abusing Parents: Effects on Children and Their Parents." *9th Annual Hampton University Research Forum*, Hampton, VA, April 2010. Keynote Speaker.

Landers, R.N. "Social media is coming to psychology: What should we do now?!" *Virginia Psychological Association*, Norfolk, VA, April, 2010.

Major, D.A. and H.M. Lauzun. "An I-deals approach to coping with work-family conflict: Antecedents and consequences." *III International Conference of Work and Family*, Barcelona, Spain, July 2009.

Scerbo, M.W. "The Scholarship of Quality and Patient Safety." *Eighth National Quality Colloquium*, Harvard University, Boston, MA, August 2009.

Scerbo, M.W. "A human factors perspective on medical simulation and standardized patients. Plenary Presentation" *The 9th Annual Association of Standardized Patient Educators Conference*, Baltimore, MD, June 2010.

Office of Research

Frank Reidy Research Center for Bioelectrics

Beebe, S. "Non-ionizing radiation using nanosecond pulsed electric fields induces apoptosis in melanoma and squamous cell carcinoma." *Annual International Conference of IEEE Engineering in Medicine and Biology Society (EMBC'09)*, Minneapolis, MN, September 2009.

Pahomov, A. "Nanoelectropores of the cell plasma membrane." *Bioelectromagnetics Society Winter Workshop*, San Antonio, TX, February 5-6, 2010.

Pahomov, A. "Nanosecond-Duration Electric Pulses Open Nanometer-Size Pores in Cell Plasma Membrane." *World Congress on Medical Physics and Biomedical Engineering*, Sept. 7-12, 2009, Munich, Germany.

Heller, R. "Therapeutic Potential of Gene Delivery with Pulsed Electric Fields." *Kumamoto University Global COE Program, International COE Forum on Pulsed Power Engineering & Young Researcher Training Camp*, Kumamoto, Japan, September 2009.

Heller, R. "Gene Transfer using Electroporation: Translation to the Clinic." *6th Conference on Experimental and Translational Oncology*, Kranjska Gora, Slovenia, March 2010.

Heller, R. "Electrically mediated gene delivery to the skin." *World Congress on Medical Physics and Biomedical Engineering*, Munich, Germany, September 7-12, 2009.

Virginia Modeling, Analysis and Simulation Center

Sokolowski, John. "Modeling and Simulation, A Discipline, A Technology, An Opportunity." *ModSimWorld Canada*, Montreal, Canada, June 2010.

Ezell, Barry. "Hampton Roads Investment Justification Methodology." *National Urban Areas Security Initiative Conference*, New Orleans, LA, June 21-24, 2010.

Papelis, Yiannis. "Manned/Unmanned Systems Interoperability Session." *Hampton Roads Sensors and Unmanned Systems Technology Cluster Partnership Workshop on Port Security*, Portsmouth, VA, Jan 25-26, 2010.

Papelis, Yiannis. "Recent Advances in Psychology-based Crowd Modeling." *National Center of Scientific Research Demokritos Summer School* 2009, Athens, Greece, July 2009.



Creative Research/ Exhibitions

College of Arts and Letters

Art

Bryant, Heather. *Portfolio for Bolivia, "Simple Comunicacion Visual."* Kiosko Galeria, Santa Cruz de la Sierra, Bolivia, 2010.

Bryant, Heather. *Home Sweet Home Portfolio.* Memorial Union, Madison, WI, 2010.

Bryant, Heather. *Let Me Introduce Myself Portfolio.* Madison Municipal Building ARTspace, Madison, WI, 2010.

Bryant, Heather. *Covert Operations Portfolio.* Morningside College, Sioux City, IA, 2010.

Bryant, Heather. *The Anatomy of... A Group of International Printmakers.* Purdue University, West Lafayette, IN, 2009.

Bryant, Heather. *Animal Connections.* Proyecto Ace Mezzanine, Buenos Aires, Argentina, 2009.

Bryant, Heather. *The Laughing Bear Portfolio.* Hollufgard Art Center, Denmark, 2009.

Bryant, Heather. *Global Warming Portfolio.* Atrium Gallery, Salisbury University, Salisbury, MD, 2009.

Daley, Ken. *Global Warming Portfolio.* Salisbury University, Salisbury, MD.

Eudenbach, Peter. *Videos und Objekten.* Neuenhaus, Germany, 2009.

Eudenbach, Peter. *Cause and Effect.* Taubman Museum of Art, Roanoke, VA, 2009.

Eudenbach, Peter. *No, Seriously, Humor and Happiness in Contemporary Art.* Space 301, Mobile, AL, 2009.

Eudenbach, Peter. *Apparent/Transparent.* Selden Gallery, Norfolk, VA, 2009.

Fitzgerald, Kenneth. *Repurposes.* Co-curator, Changing Gallery, Old Dominion University, Norfolk, VA, March 20-April 18, 2010.

Hall, Mike. (Edited for trombone). *Marcello, Benedetto*, Sonatas 4-6 for Trombone & Keyboard/Continuo. Keyboard realization by Mike Hall. Vancouver, BC: Cherry Classics Music, 2009.

Nickel, Rick. *Body and Soul.* Baltimore Clay Works, Baltimore, MD, 2010.

Nickel, Rick. *Bread And Puppet. The Decapitalization Circus & Nothing is Not Ready Pageant.* Director Peter Schuman, Glover, Vermont, 2010.

Nickel, Rick. *Clay in a Can Exhibition.* Arts and Heritage Center, North Augusta, SC, 2010.

Nickel, Rick. *Clay On the Wall: Clay National.* Landmark Arts at the Texas Tech School of Art, Lubbock, TX, 2010.

Nickel, Rick. *Songs for Children: Solo Exhibition.* Metro Space Gallery, Richmond, VA, 2009.

Nickel, Rick. *Small Works.* Charles H. Taylor Art Center, Hampton VA. 2009.

Pratt, Greta. *Individual to Icon.* Plains Art Museum, Fargo, ND, 2010.

Pratt, Greta. *Road to Nowhere.* FotoFest, Houston, TX, 2010.

Pratt, Greta. *Apple Pie: Symbols of Americana.* Madison Museum of Contemporary Art, Madison, WI, 2010.

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Pratt, Greta. *Likeness/Portraits: After the Legacy of Warhol.* The Mattress Factory, Pittsburgh, PA, 2010.

Pratt, Greta. *America.* Beirut Art Center, Beirut, Lebanon, 2009.

Pratt, Greta. *The Old Weird America.* Frye Art Museum, Seattle, WA, 2009; DeCordova Museum and Sculpture Park, Lincoln, MA, 2009.

Roth, John. *Surreptitious Return.* In *500 Cabinets: A Showcase of Design and Craftmanship.* By Ray Hemachandra. Lark Books, 2010.

Roth, John. *Stealth Conveyance.* In exhibition "Jumping Off of Cliff," University of Southern Indiana, Evansville, IN, 2010.

Communication and Theatre Arts

Alonzo, Jenifer. *I Hate Hamlet.* Costume designer, University Theatre, Old Dominion University, October 2009.

Alonzo, Jenifer. *Fragments.* Adaptor and director, University Theatre, Old Dominion University, February 2010.

Hammond, Katherine. *Dracula.* Director, University Theatre, Old Dominion University, October 2009.

Hanna, Christopher. *Alive and Well.* Director, Virginia Stage Company, Norfolk, VA, September-October 2009.

Hanna, Christopher. *Raisin in the Sun.* Director, Virginia Stage Company, Norfolk, Virginia, March-April 2010.

Kinzer, Amanda. *Once Again?* Choreographer and performer, The annual Virginia Association for Health, Physical Education, Recreation, and Dance Convention, Virginia Beach, VA, November 2009.

Kinzer, Amanda. *Intersection.* Choreographer and performer, The University Theatre Spring Dance Concert, Old Dominion University, April 2010.

Kinzer, Amanda and Megan Thompson. *Concurrence.* Co-choreographers and co-performers, modern dance duet in Andrey Kasparov's "Transformations." Diehn Concert Series, University Theatre, Old Dominion University, March 2010; University of Wisconsin-Madison, April 2010.

Pullen, Stephen. Reading of "The LaVell Edwards Story." Great American Pitchfest and Screenwriters Conference, Studio City, CA, June 2010.

Marloff, Marilyn. *Kinetoscope.* Choreographer and director, The annual Virginia Association for Health, Physical Education, Recreation, and Dance Convention, Virginia Beach, VA, November 2009.

Spiel, Christopher. *A . . . My Name is Alice.* Scenic design, Okoboji Summer Theatre, Spirit Lake, IA, July 2009.

Spiel, Christopher. *Brighton Beach Memoirs.* Scenic design, Okoboji Summer Theatre, Spirit Lake, IA, July 2009.

Spiel, Christopher. *Forever Plaid.* Scenic design, Okoboji Summer Theatre, Spirit Lake, IA, August 2009.

Spiel, Christopher. *I Hate Hamlet.* Technical director, University Theatre, Old Dominion University, October 2009.

Spiel, Christopher. *Dracula.* Technical director, University Theatre, Old Dominion University, October 2009.

Spiel, Christopher. *Brave New World.* Technical director, University Theatre, Old Dominion University, January 2010.

Spiel, Christopher. *Fragments.* Technical director, University Theatre, Old Dominion University, February 2010.

Winters, Konrad. *Dracula.* Scenic design, University Theatre, Old Dominion University, October 2009.

Music

Klein, Nancy. *Concert of Sacred Music.* Conductor, Honor Choir, St. Jakobs-Kirche, Rothenburg, Germany, July 10, 2009

Klein, Nancy. *Outdoor Concert in the Clock Tower Market platz.* Director, Sound of America Honor Choir and Band, Rothenberg, Germany, July 10, 2009; Cortina, Italy, July 12, 2009.

Klein, Nancy. *Concert of Sacred Music.* Conductor, SOA Honor Choir, Basilica of St. Mark, Venice, Italy, July 15, 2009; Paris, France, July 22, 2009.

Klein, Nancy. SOA Honor Band and Choir Concert, Director, Alexander Giraldo Concert Hall, Cortina, Italy; Palazzo dei Congressi, Stresa, Italy, July 26, 2009; Kogress-Saal, Grindelwald, Germany July 18, 2009; Music Theatra, La Chaux De Fonds, Switzerland, July 20, 2009; Saint Germaine Church, Paris, France, July 22, 2009; Grand Duchy of Luxembourg, July 24, 2009; American Cemetery, Luxembourg, July 25, 2009.

Treviño, Alexander. *Ceremonium.* Oregon State Wind Ensemble, Oregon State University, Corvallis, OR, March 2, 2010.

Kosnik, James. *Concert tour.* Italy, Rome, Assisi, Vatican, Italy, November-December 2009.

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Townsend, Alfred S. *Missteps and Right Steps: Solutions for New Band and Orchestra Directors.* Virginia Music Educators Association In-service Conference, Hot Springs, VA, November 20, 2009.

Hall, Michael. *Chamber Music concert* with Galliard Brass Ensemble, Solo Performance, Plymouth, IN, November 30, 2009.

Hall, Michael. *Guest Artist Recital*, University of Wisconsin-Eau Claire, Eau Claire, WI, October 12, 2009; Concordia University, Moorhead, MN, October 10, 2009; University of North Dakota, Fargo, ND, October 9, 2009; Oktoberfest Festival, Tucson, AZ, October 1-4, 2009.

Hall, Michael. *Hanson Sonata.* Faculty recital, International Peace Gardens, Canada/ND. July 23, 2009.

Kasparov, Andrey. *Piano ensemble performance.* Works by Olivier Messiaen, American Guild of Organists Region III Convention, Norfolk, VA, July 8, 2009.

Kasparov, Andrey. *Piano duet.* Recital of works by Brahms, Schumann, Schmitt and original compositions, German Society of Philadelphia, Philadelphia, PA, February 21, 2010.

Kasparov, Andrey. *Performance of works by contemporary composers*, Bernard Haitinkzaal, Sweelinck Conservatory, Amsterdam, Holland, June 3, 2010.

Toomey, John. *Boys of H Company* and *Tuskegee Airmen, American Heroes.* Original soundtracks, History Channel, 2009.

Toomey, John. Attucks Jazz Series. Director and performer, Virginia Arts Festival, May 2009. Chuck Redd, Nags Head Arts Series, North Carolina, 2008.

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