

CELEBRATION OF  
**Faculty Creative Works**

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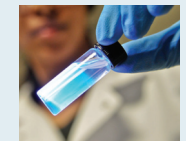


*The Friends of the Library*

*dedicate this book and the exhibit*

*to the faculty and staff whose*

*works are reflected herein.*



The University of Texas at Arlington Library and the Office of the Provost are pleased to host the third Celebration of Faculty Creative Works, an exhibition that showcases the books, art, music, media, patents, and journal editorial contributions made by the UT Arlington faculty and staff in 2010. And for the first time, we are proud to recognize those faculty members who have received national awards and recognition.

This event was initiated by the Library to celebrate the depth and breadth of scholarship and creativity that takes place on campus and to strengthen ties within the campus community. It complements the University’s tradition of sharing information about faculty expertise across disciplines, which is exemplified by the Library-sponsored Focus on Faculty Speakers’ Series that began in 2000. As the intellectual and creative center of campus, the Library is an appropriate partner to promote new information and new knowledge.

Because UT Arlington strives to become a Tier One research university, it is critically important that the intellectual and creative accomplishments of our faculty and staff receive their due recognition. Expanding the boundaries of knowledge is the stock-in-trade of what goes on at a research university. We want to acknowledge the productivity and distinction of our faculty and staff and celebrate their accomplishments.

We congratulate the individuals whose work is represented in these pages and in the exhibit. The work is diverse, compelling, and groundbreaking—something for which all of us, as UT Arlington Mavericks, can be proud.

Donald R. Bobbitt, Provost  
 Gerald D. Saxon, Dean of the Library

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# SCHOOL OF ARCHITECTURE

## JOURNAL/BOOK SERIES EDITORIAL CONTRIBUTION

### **Kathryn Holliday**

Editorial Board, *Journal of Architectural Education* (Association of Collegiate Schools of Architecture through Wiley/Blackwell)

# COLLEGE OF BUSINESS

## AWARDS

### **Jane Himarios, Economics**

*Outstanding Teaching Award, UT System Board of Regents*

Outstanding Teaching Awards are given to faculty members who deliver the highest quality of undergraduate instruction through a demonstrated commitment to teaching. Awardees also are recognized for showing a promising future of excellence in all aspects of instruction. President James D. Spaniolo nominated the honorees based on recommendations from department chairs, deans, and a committee established by Provost Donald Bobbitt.

### **Dennis Veit, Management**

*Educator of the Year Award, Society for Human Resource Management*

Thanks to Veit's selection as the Southwest Conference 2010 Educator of the Year, the UT Arlington chapter of SHRM will receive a \$1,000 grant.

## BOOKS

### **James Campbell Quick, Management**

*Handbook of Occupational Health Psychology, second edition*

Edited by James Campbell Quick and Lois E. Tetrick

Washington, D.C.: American Psychological Association, 2010

In today's difficult global economy, work stress is high, and this stress—along with other health factors—can affect work productivity, satisfaction, safety, absenteeism, turnover, and even workplace violence. As a result, organizations are increasingly turning to occupational health psychology to develop, maintain, and promote the health of employees. The revised handbook is expanded to six parts and 21 chapters.

## JOURNAL/BOOK SERIES EDITORIAL CONTRIBUTIONS

### **Myrtle P. Bell, Management**

Associate Editor, *Academy of Management Learning and Education* (Academy of Management)

Section Editor, *Equality, Diversity, and Inclusion* (Emerald Group)

Editorial Board, *British Journal of Management* (Wiley-Blackwell)

Editorial Board, *Journal of Management, Spirituality, and Religion* (Routledge)

Editorial Board, *Group and Organization Management* (Sage)

### **John D. Diltz, Finance and Real Estate**

Editorial Review Board, *Journal of Business and Economic Perspectives* (College of Business and Global Affairs, University of Tennessee at Martin)

**James Campbell Quick, Management**

Editorial Board, *Organizational Dynamics* (Elsevier)

Editorial Board, *Journal of Management* (Sage)

Editorial Board, *British Journal of Management* (Wiley-Blackwell)

Editorial Board, *Journal of Leadership and Organizational Studies* (Sage)

Editorial Board, *Stress and Health* (Wiley)

Editorial Consultant, *Applied Psychology* (Wiley-Blackwell)

Editorial Review Board, *Journal of Organizational Behavior* (Wiley Online Library)

**Abdul A. Rasheed, Management**

Associate Editor, *Group and Organizational Management* (Sage)

Editorial Board, *International Journal of Strategic Business Alliances* (Inderscience)

Editorial Board, *Management Research Review* (Emerald Group)

Editorial Board, *Issues in Social and Environmental Accounting* (Indonesian Center for Social and Environmental Accounting Research and Development)

Editorial Board, *Great Lakes Herald* (Great Lakes Institute of Management)

Editorial Board, *South Asian Journal of Global Business Research* (Emerald Group)

Editorial Board, *IIMB Management Review* (Elsevier)

**Salil K. Sarkar, Finance and Real Estate**

Editorial Board, *Journal of Economics and Finance* (Springer)

Editorial Board, *Journal of Business and Economic Studies* (Northeast Business and Economics Association)

Editorial Review Board, *Journal of Business and Economic Perspectives* (College of Business and Global Affairs, University of Tennessee at Martin)

**Peggy E. Swanson, Finance and Real Estate**

Associate Editor, *The International Journal of Finance* (Philadelphia University)

Editorial Review Board, *Journal of Business and Economic Perspectives* (College of Business and Global Affairs, University of Tennessee at Martin)

**Zhiyong Yang, Marketing**

Editorial Review Board, *Journal of Business Research* (Elsevier)

# COLLEGE OF EDUCATION AND HEALTH PROFESSIONALS

## BOOKS

**Jill E. Fox, Curriculum and Instruction**

**Janet M. Melton, Curriculum and Instruction**

**Denise A. Collins, Curriculum and Instruction**

**Dana R. Arrowood, Curriculum and Instruction**

*Online Preparation and Approval System for the TExES EC-6 PPR*

Edited by Jill E. Fox, J. M. Melton, Stephen Garretson, Denise A. Collins, and Dana R. Arrowood

[www.pearsoncustom.com/tx/uta\\_education](http://www.pearsoncustom.com/tx/uta_education) (2010)

The Online Preparation and Approval System (OPAS) is an online program created to assist EC- 6 teacher education candidates in preparing for the teacher certification test called the Texas Examinations of Educator Standards (TExES). It consists of two parts: The first prepares candidates for the Pedagogy and Professional Responsibilities (PPR) test; the second prepares them for the Generalist test. Students will answer multiple questions and receive feedback on their preparedness to take the PPR and Generalist tests.

**Nancy L. Hadaway, Curriculum and Instruction**

*Matching Books and Readers: Helping English Learners in Grades K-6*

Nancy L. Hadaway and Terrell A. Young

New York, NY: Guilford Press, 2010

Providing practical guidance and resources, this book helps teachers harness the power of children's literature for developing literacy skills and language proficiency. The authors show how carefully selected fiction, nonfiction, and poetry can support students' learning across the curriculum. Criteria and guiding questions are presented for matching books and readers on the basis of text features, literacy, language proficiency, and student background knowledge and interests. Interspersed throughout are essays and poems by well-known children's authors that connect in a personal way with the themes explored in the chapters.

**Luis A. Rosado, Curriculum and Instruction**

*Best Teachers' Test Preparation for the TExES 191 Generalist EC-6*

Piscataway, NJ: Research and Education Association, 2010

REA's new TExES Generalist Early Childhood to Grade 6 test prep is designed to help teacher candidates pass the TExES Generalist EC-6 (191) exam and start teaching. It is designed for teacher candidates, students, out-of-state teachers, and career-changing professionals who want to teach Early Childhood to Grade 6 classes in the state of Texas. UT Arlington faculty members who collaborated in this preparation guide include Carla Amaro, Peggy Semington, and Ann Cavallo from Curriculum and Instruction; Diane Lange from Music Education; and Larry Nelson from Kinesiology.

*Best Teachers' Test Preparation for the PRAXIS II—English to Speakers of Other Languages*

Piscataway, NJ: Research and Education Association, 2010

REA's new Praxis II test prep is designed to help teacher candidates pass the Praxis II exam and receive ESL certification. It is designed for teacher candidates, students, out-of-state teachers, and career-changing professionals who want to teach ESL in any of the 19 states that use the Praxis II test.

**Barbara F. Tobolowsky, Curriculum and Instruction**

*Helping Sophomores Succeed: Understanding and Improving the Second-Year Experience*

Mary Stuart Hunter, Barbara F. Tobolowsky, John N. Gardner, et al.

San Francisco, CA: Jossey-Bass, 2010

*Helping Sophomores Succeed* offers an in-depth, comprehensive understanding of the common challenges that arise in a student's second year of college. Sponsored by the University of South Carolina's National Resource Center for the First-Year Experience and Students in Transition, this groundbreaking book offers an examination of second-year student success and satisfaction using both quantitative and qualitative measures from national research findings. *Helping Sophomores Succeed* serves as a foundation for designing programs and services for the second-year student population that will help to promote retention, academic and career development, and personal transition and growth.

**JOURNAL/ BOOK SERIES EDITORIAL CONTRIBUTIONS**

**Ann M. L. Cavallo, Curriculum and Instruction**

Editorial Board, *Journal of Elementary Science Education* (Association for Science Teacher Education)

**Dannielle Joy Davis, Educational Leadership and Policy Studies**

Consulting Editor, *The Professional Educator* (Truman Pierce Institute, Auburn University)

Editorial Advisory Board, *Multicultural Education and Technology Journal* (Emerald Group)

Guest Co-editor, *Black Women, Gender, and Families* (University of Illinois Press)

**Stephanie Daza, Curriculum and Instruction**

Editorial Advisory Board, *Educational Studies: A Journal of the American Educational Studies Association* (Routledge)

Editorial Advisory Board, *Postcolonial Directions in Education* (University of Malta)

**A. Louise Fincher, Kinesiology**

Editorial Board, *Journal of Athletic Training* (National Athletic Trainers' Association)

Editorial Board, *JSR: Journal of Sport Rehabilitation* (Human Kinetics Inc. and Rainer Martens)

**Jeanne M. Gerlach, Assistant Vice President and Dean**

Editorial Board, *Critical Literacy Teaching Series: Challenging Authors and Genres* (Sense Publishers)

Editorial Review Board, *The Australian Journal of Language and Literacy* (Monash University)

Editorial Review Board, *English Journal* (National Council Teachers of English)

**Christopher Kribs-Zaleta, Curriculum and Instruction**

Associate Editor, *MBE: Mathematical Biosciences and Engineering* (College of Liberal Arts and Sciences, Arizona State University)

Editorial Board, *SACNAS News* (Society for Advancement of Chicanos and Native Americans in Science)

**Rhonda McClellen, Educational Leadership and Policy Studies**

Editorial Advisory Board, *Journal of Research on Leadership Education* (University Council for Educational Administration)

**Marc Schwartz, Curriculum and Instruction**

Editorial Board, *Mind, Brain, and Education* (International Mind, Brain, and Education Society)

**John A. Smith, Curriculum and Instruction**

Editorial Board, *Literacy Research and Instruction* (Association of Literacy Educators and Researchers)

### **Barbara Tobolowsky, Curriculum and Instruction**

Editorial Board, *Journal of the First-Year Experience and Students in Transition* (National Resource Center for the First-Year Experience and Students in Transition, University of South Carolina)

Advisory Board, Association for the Study of Higher Education monograph series (Jossey-Bass)

## COLLEGE OF ENGINEERING

### AWARDS

#### **Erian A. Armanios, Mechanical and Aerospace Engineering**

*Outstanding Research Award, American Society for Composites*

The award recognizes Armanios' significant impact on the science and technology of composite materials through his sustained body of innovative research for the past 30 years. Armanios served as editor-in-chief of the *ASTM Journal of Composite Technology and Research* and in 2006 was elected Fellow of the American Society for Composites. His contributions extend to interdisciplinary applications such as the use of piezoelectric actuators for unsteady aerodynamic blowing leading to circulation control for rotor blade applications (for which he was awarded two patents), and the use of fractals to model particulate ceramic matrix composites.

#### **Pranesh B. Aswath, Material Science and Engineering**

*Fulbright Faculty Fellowship*

For his fellowship in 2010, Professor Aswath spent seven months at the University of Trento in Italy. He also received four Fulbright Inter- and Intra-country Travel Grants to lecture at the University of Cagliari in Cagliari; IMDEA in Madrid, Spain; Ecole Centrale de Lyon; and AC2T in Wiener Neustadt, Austria. Aswath's research helps to ensure that car engines are cleaner and more fuel efficient.

#### **Vassilis Athitsos, Computer Science and Engineering**

*Faculty Early Career Development (CAREER) grant, National Science Foundation*

Professor Athitsos received the grant to continue his work to develop computer vision technologies leading to a dictionary of American Sign Language gestures. His project is titled "Large Vocabulary Gesture Recognition for Everyone: Gesture Modeling and Recognition Tools for System Builders and Users."

#### **Babak Fahimi, Electrical Engineering**

*Fulbright Scholarship 2010-11*

Fahimi will spend eight months next year conducting research at the Institute for Electric Machines at the Rheinisch-Westfaelische Technische Hochschule in Aachen, Germany. His research centers on energy conversion, power electronics, and the modeling and stability assessment of multi-converter systems.

#### **Frank L. Lewis, Automation and Robotics Research Institute**

*Outstanding Engineering Educator Award, IEEE Region 5*

Nomination letters for Lewis—the Moncrief-O'Donnell Endowed Chair at the Automation and Robotics Research Institute—cited his supervision of 39 doctoral students, most of whom have won awards, including three NSF CAREER Awards. Letters also mentioned his efforts to recruit women and minorities into graduate studies. His students are now leaders in academia and industry.

*Honeywell International Medal, U.K. Institute of Measurement and Control*

The award presentation recognized Lewis' considerable contributions over the years to control and systems engineering in diverse contexts. Lewis is a Fellow of the IEEE (Institute of Electrical and Electronics Engineers), the International Federation of Automation Control, and the U.K. Institute of Measurement and Control.



### **Mohammad Najafi, Civil Engineering**

*ASCE Award of Excellence, American Society of Civil Engineers*

The award was presented in recognition of Najafi's many years of service to the pipeline profession, the ASCE Pipeline Division as an ASCE journal editor and author, and his five-year term on the Pipeline Division's executive committee. He will be the co-chair of the 2013 International Pipeline Conference, to be held in the Dallas-Fort Worth area.

*Fellow, American Society of Civil Engineers*

Najafi's election as a fellow recognizes his significant accomplishments and contributions to the profession. His research interests are in the area of pipelines and underground infrastructure system construction, renewal, and asset management. Najafi is the founder and current editor-in-chief of the *Journal of Pipeline Systems Engineering and Practice*.

### **Anand J. Puppala, Civil Engineering**

*Outstanding Teaching Award, UT System Board of Regents*

The award rewards faculty members who deliver the highest quality of undergraduate instruction through a demonstrated commitment to teaching. Recipients also are recognized for showing a promising future of excellence in all aspects of instruction. President James D. Spaniolo nominated the honorees based on recommendations from department chairs, deans, and a committee established by Provost Donald Bobbitt.

*Outstanding Editorial Board Member 2010, American Society of Civil Engineers*

Puppala received the award for his contribution to the *ASCE Journal of Geotechnical and Geoenvironmental Engineering (JGGE)*. This award is made annually by the *JGGE* editors to an editorial board member who displays extraordinary dedication to the responsibilities of manuscript review management, including the timely handling of a large number of papers and the careful evaluation of review comments to provide quality publication recommendations. The *JGGE* has the highest circulation of all geotechnical journals and is currently the largest of the ASCE journals by submissions, pages published, and papers published.

### **Jian Yang, Bioengineering**

*Faculty Early Career Development (CAREER) grant, National Science Foundation*

Yang is developing a new education model for introducing college-level fundamentals to high schools. He, doctoral student Richard Tran, Damira Usman (the Advanced Placement chemistry teacher at Martin High School), and some of Usman's students have started working in Yang's lab on his major research, drug delivery methods for cancer. They are identifying suitable items from research that can be used to improve the current high school curriculum.

## **BOOKS**

### **J. C. Chiao, Electrical Engineering**

*Biomaterials for MEMS*

Edited by Mu Chiao and J. C. Chiao

Singapore: Pan Stanford Publishing, 2010

This book serves as a guide for practicing engineers, researchers, and students interested in MEMS devices. It is also suitable for engineers and researchers who are interested in MEMS and applications but do not have the necessary background in biomaterials. The book highlights important features and issues of biomaterials that have been used in the MEMS and biomedical areas: hence, it is an essential guide for MEMS engineers and researchers who are trained in engineering institutes that do not provide background or knowledge in biomaterials.

*Micromachining and Microfabrication Process Technology XV, Proceedings*

Edited by Mary Ann Maher, J. C. Chiao, and Paul J. Resnick

Bellingham, WA: International Society for Optics and Photonics, 2010

**Ramez A. Elmasri, Computer Science and Engineering**

*Fundamentals of Database Systems, sixth edition*

Ramez Elmasri and Shamkant Navathe

Reading, MA: Addison Wesley, 2010

Clear explanations of theory and design, broad coverage of models and real systems, and an up-to-date introduction to modern database technologies result in a leading introduction to database systems. Intended for computer science majors, *Fundamentals of Database Systems* emphasizes math models, design issues, relational algebra, and relational calculus. A lab manual and problems give students opportunities to practice the fundamentals of design and implementation. Real-world examples serve as engaging, practical illustrations of database concepts. The sixth edition maintains its coverage of the most popular database topics—including SQL, security, and data mining—and features increased emphasis on XML and semi-structured data.

**A. Haji-Sheikh, Mechanical and Aerospace Engineering**

*Heat Conduction Using Green's Functions, second edition*

By K. D. Cole, J. V. Beck, A. Haji-Sheikh, and B. Litkouhi

Boca Raton, FL: CRC Press/Taylor and Francis Group, 2010

This unique textbook presents methods of using Green's functions to greatly simplify the solution of heat conduction and diffusion problems, a fundamental topic in heat transfer and applied mathematics. It offers a clear and concise method of describing and ordering various geometries and boundary conditions and covers heat conduction, transport processes, boundary value problems, and mathematical methods. The book also describes unsteady surface element method and Galerkin-based Green's functions for non-classical and non-homogeneous bodies.

**Laureano R. Hoyos, Civil Engineering**

**Anand J. Puppala, Civil Engineering**

*Experimental and Applied Modeling of Unsaturated Soils, Geotechnical Special Publication 202, The Geo-Institute of the ASCE*

Edited by Laureano R. Hoyos, X. Zhang, and Anand J. Puppala

Reston, VA: American Society of Civil Engineers, 2010

*Experimental and Applied Modeling of Unsaturated Soils* presents the most current thinking and practices involving unsaturated soils. The lack of education and training among engineering graduates and practitioners to properly deal with unsaturated soil conditions has resulted in faulty or excessively conservative designs, frequent construction delays, and deficient long-term performance of built infrastructure. Over the last few decades, however, the discipline of unsaturated soil mechanics has begun to receive increasing attention worldwide, providing better explanations for soil behavioral patterns than conventional saturated soil mechanics. Hoyos and Puppala were editors of *ASCE Geotechnical Special Publication No. 202* as part of the proceedings of the GeoShanghai 2010 International Conference held in Shanghai, China, June 3-5, 2010.

**Kent L. Lawrence, Mechanical and Aerospace Engineering**

*ANSYS Workbench Tutorial, Structural, and Thermal Analysis: Using the ANSYS Workbench Release 12.1 Environment*

Mission, KS: SDC Publications, 2010

The exercises in *ANSYS Workbench Tutorial Release 12.1* introduce the reader to effective engineering problem-solving through the use of this powerful modeling, simulation, and optimization tool. Topics that are covered include solid modeling, stress analysis, conduction/convection heat transfer, thermal stress, vibration, and buckling. It is designed for practicing and student engineers alike and is suitable for use with an organized course of instruction or for self-study.

*ANSYS Tutorial, Release 12.1*

Mission, KS: SDC Publications, 2010

The nine lessons in this book introduce the reader to effective finite element problem-solving by demonstrating the use of the comprehensive ANSYS FEM Release 12.1 software in a series of step-by-step tutorials. The tutorials are suitable for either professional or student use. The lessons discuss linear static response for problems involving truss, plane stress, plane strain, axisymmetric, solid, beam, and plate structural elements. Example problems in heat transfer, thermal stress, mesh creation, and transferring models from CAD solid modelers to ANSYS are also included.

**Frank L. Lewis, Automation and Robotics Research Institute**

*Wireless Sensor Network Design: A Practitioner's Guide*

Prasanna Ballal (EE Ph.D. candidate 2008) and Frank L. Lewis

Saarbrücken, Germany: VDM Verlag, 2010

The book provides readers with an insightful understanding of the principles of Wireless Sensor Network Design (WSN) design by showing how they are used through programming examples in LabVIEW and TinyOS. It offers case studies, numerical examples, exercises, software projects, and applications of current (WSN) platforms. The chapters discuss the concept of Open Systems Interconnections (OSI) architecture used in WSN and provide details on various layers in the OSI model such as physical, medium access control, data link, network, and transport layers. Later chapters include discussion on energy efficiency requirements for WSN, sensor node localization, task planning and control in WSN, and standards for WSN.

**Mohammad Najafi, Civil Engineering**

*Trenchless Technology Piping: Installation and Inspection*

New York, NY: McGraw-Hill Professional and ASCE Press, 2010

*Trenchless Technology Piping* offers comprehensive coverage of pipe installation, renewal, and replacement using trenchless technology methods. This step-by-step resource explains how to implement efficient design, construction, and inspection processes, and shows how to save time and money with a state-of-the-art project management system.

**Anand J. Puppala, Civil Engineering**

**Laureano R. Hoyos, Civil Engineering**

*Ground Improvement and Geosynthetics, Geotechnical Special Publication 207, The Geo-Institute of the ASCE*

Edited by Anand J. Puppala, J. Huang, J. Han, and Laureano R. Hoyos

Reston, VA: American Society of Civil Engineers (ASCE), 2010

The book presents the most current research on ground improvement and geosynthetics, especially with regard to unstable ground—soils that are soft, expansive, collapsible, reclaimed, contaminated, and others. These papers analyze improvement methods, including mechanical and hydraulic methods, chemical stabilization methods in both shallow and deep ground, and reinforcement methods using geosynthetics.

**K. R. Rao, Electrical Engineering**

*Fast Fourier Transform: Algorithms and Applications (Signals and Communication Technology Series)*

K. R. Rao, D. N. Kim, and J. J. Hwang

New York, NY: Springer, 2010

This book presents an introduction to the principles of the fast Fourier transform (FFT). It covers FFTs, frequency domain filtering, and applications to video- and audio-signal processing. The authors provide a thorough and detailed explanation of the importance of up-to-date FFTs. They also have adopted modern approaches like MATLAB examples and projects for better understanding of diverse FFTs. The book is designed for senior undergraduate and graduate students, faculty, engineers, scientists, and self-learners in the field to understand FFTs and directly apply them to their fields.

**JOURNAL/ BOOK SERIES EDITORIAL CONTRIBUTIONS**

**Ishfaq Ahmad, Computer Science and Engineering**

Editor-in-Chief, *Sustainable Computing: Informatics and Systems* (Elsevier)

Editor, *IEEE Transactions on Parallel and Distributed Systems* (IEEE Circuits and Systems Society)

Associate Editor, *IEEE Transactions on Circuits and Systems for Video Technology* (IEEE Circuits and Systems Society)

Subject Area Editor, *Journal of Parallel and Distributed Computing* (Elsevier)

Editorial Board, *Journal of Electrical and Computer Engineering* (Hindawi)

**Erian A. Armanios, Mechanical and Aerospace Engineering**

Editor, *Key Engineering Materials* (Trans Tech Publications Inc.)

**Wen S. Chan, Mechanical and Aerospace Engineering**

International Associate Editor, *Journal of Mechanics* (The Society of Theoretical and Applied Mechanics, Tjingling Industrial Research Institute, National Taiwan University)

**J. C. Chiao, Electrical Engineering**

Editorial Board, *Journal of Nanomedicine* (Elsevier)

**Sajal Das, Computer Science and Engineering**

Editor-in-Chief, *Pervasive and Mobile Computing Journal* (Elsevier)

Editor-in-Chief, *International Journal of Smart Home* (Science and Engineering Research Support Society)

Associate Editor, *Journal of Parallel and Distributed Computing* (Academic Press/Elsevier)

Associate Editor, *IEEE Transactions on Mobile Computing* (IEEE Computer Society)

Associate Editor, *IEEE Transactions on Parallel and Distributed Systems* (IEEE Computer Society)

Associate Editor, *Wireless Networks* (ACM/Springer)

Associate Editor, *International Journal on Parallel, Emergent and Distributed Systems* (Francis & Taylor)

Guest Editor, *IEEE Network Magazine* (IEEE Computer Society)

Guest Editor, *IEEE Communications Magazine* (IEEE Computer Society)

Area Editor, *Computer Communications* (Elsevier)

Editorial Board, *IEEE Computer Architecture Letters* (IEEE Computer Society)

Editorial Board, *Peer-to-Peer Networking and Applications* (Springer)

**Brian H. Dennis, Mechanical and Aerospace Engineering**

International Editorial Board, *Inverse Problems in Science and Engineering* (Taylor and Francis)

**A. Haji-Sheikh, Mechanical and Aerospace Engineering**

Advisory Board, *Inverse Problems in Science and Engineering* (Taylor and Francis)

Editorial Advisory Board, *Numerical Heat Transfer, Part A: Applications* (Taylor and Francis)

Editorial Advisory Board, *Numerical Heat Transfer, Part B: Fundamental* (Taylor and Francis)

**Frank L. Lewis, Automation and Robotics Research Institute**

Editor, *Transactions of the Institute of Measurement and Control* (Sage)

Deputy Editor-in-Chief, *Journal of Control Theory and Applications* (Springer)

Regional Editor for North America, *International Journal of Systems Science* (Taylor and Francis)

**Frank K. Lu, Mechanical and Aerospace Engineering**

Editor, *Automation and Control Engineering* (CRC Press Book Series Editor)

Editor, *Shock Wave and High Pressure Phenomena* (Springer Book Series Editor)

Editor-in-Chief, *Progress in Astronautics and Aeronautics* (American Institute of Aeronautics and Astronautics Books Series)

Editorial Board, *International Journal of Aerospace Innovations* (Multi-Science Company Ltd.)

Editorial Board, *Shock Waves* (Springer)

**Fillia Makedon, Computer Science and Engineering**

Special Issue Guest Editor, *International Journal Universal Access in the Information Society* (Springer)

Special Issue Guest Editor, *Journal of Personal and Ubiquitous Computing* (Springer)

**Mohammad Najafi, Civil Engineering**

Editor-in-Chief, *Journal of Pipeline Systems Engineering and Practice* (American Society of Civil Engineers)

**Efstathios “Stathis” I. Meletis, Materials Science and Engineering**

Editor-in-Chief, *Journal of Nano Research* (Trans Tech Publications Inc.)

Associate Editor, *Advanced Science Letters* (American Scientific Publishers)

Associate Editor, *Journal of the Mechanical Behavior of Materials* (Israel: Freund Publishing House Ltd.)

**Anand J. Puppala, Civil Engineering**

Deputy Chief Editor, *Ground Improvement* (Thomas Telford Ltd.)

Associate Editor, *Journal of Materials in Civil Engineering* (American Society of Civil Engineers)

Associate Editor, *ASCE Journal of Geotechnical and Geoenvironmental Engineering* (American Society of Civil Engineers)

Editorial Board, *Geotechnical Testing Journal* (ASTM International)

Editorial Board, *International Journal of Geomechanics and Engineering* (Techno Press)

**Jian Yang, Bioengineering**

Editorial Board, *International Journal of Biomaterials Research and Engineering* (IGI Publishing)

Editorial Board, *Journal of Microbial and Biochemical Technology* (OMICS Publishing Group)

**Gergely V. Zaruba, Computer Science and Engineering**

Area Editor, *Computer Communications* (Elsevier)

**PATENTS**

**Pranesh B. Aswath, Materials Science and Engineering**

**Ronald L. Elsenbaumer, Vice President for Research Administration**

Pranesh B. Aswath, Harold Shaub, Ramoun Mourhatch, Krupal Patel, David P. Owen, and Ronald L. Elsenbaumer

*High Performance Lubricants and Lubricant Additives for Crankcase Oils, Greases, Gear Oils, and Transmission Oils*. U.S. Patent 7,754,662. July 13, 2010.

A lubricant additive produced by various processes, including mixing an organophosphate and an organofluorine compound, reacting an organophosphate and an organofluorine compound, reacting a fluorinated organophosphate and an organofluorine compound (with or without molybdenum disulfide), or reacting an organophosphate, a metal halide, and an organofluorine compound (with or without molybdenum disulfide), to produce a reaction mixture comprising the lubricant additive. Also, a lubricant produced by various processes, including the aforementioned, and adding at least a portion of the reaction mixture to a lubricant base.

**Khosrow Behbehani, Bioengineering**

Khosrow Behbenani, Sridhar Vijendra, John R. Burk, and Edgar A. Lucas

*System, Software, and Method for Detection of Sleep-Disordered Breathing Using an Electrocardiogram*. U.S. Patent 7,801,593. Sept. 21, 2010.

A system to form and store an electrocardiogram (ECG) signal derived from a cardiac electrical signal that includes an apparatus with a pair of electrodes to connect to a patient to detect the cardiac electrical signal. A signal sampler samples the cardiac electrical signal to form the ECG signal. A data storage device stores the ECG signal. A computer communicates with the data storage device to retrieve the ECG signal for analysis by software stored in the memory of the computer. The software analyzes a morphology of the amplitude of a plurality of R-wave peaks contained within the ECG signal and/or analyzes a morphology of the area of a plurality of QRS complex pulses contained within the ECG signal.

**Babak Fahimi, Electrical Engineering**

Haidong Yu and Babak Fahimi

*Linear Induction Machine Control Scheme, Systems, and Methods*. U.S. Patent 7,839,101.

Nov. 23, 2010.

A method and system for a control scheme for linear induction machines. The control scheme includes a maximum energy conversion ratio and a maximum acceleration and deceleration for linear induction machines.

**Raul Fernandez, Mechanical and Aerospace Engineering, Automation and Robotics Research Institute****Richard A. Bergs, Biomedical Engineering**

Raul Fernandez, Daniel J. Scott, Shou-Jiang Tang, Jeffrey A. Cadeddu, and Richard A. Bergs

*Devices for Use in Transluminal and Endoluminal Surgery*. U.S. Patent 7,691,103. April 6, 2010.

The present invention is a device and method of using a variety of laparoscopic or NOTES surgical tools at a confined or inaccessible space, e.g., an intra-abdominal surgical and NOTES tool inserted through a single incision through the skin or hollow viscus. Generally, the laparoscopic or NOTES surgical devices include a device body having a first side and a second side, wherein the first side includes a positioning mechanism and the second side includes one or more of a variety of laparoscopic or NOTES tools.

**Kevin D. Nelson, Biomedical Engineering**

Kevin D. Nelson and Brent B. Crow

*Drug Releasing Biodegradable Fiber for Delivery of the Therapeutics*. Australian Patent 2004237770. Dec. 2, 2010.

The present invention relates to fiber compositions comprising gels or hydrogels. The invention further relates to the composition of a gel or hydrogel-loaded biodegradable fiber and methods for fabricating such fibers. The present invention further provides tissue engineering and drug-delivery compositions and methods wherein 3D matrices for growing cells are prepared for *in vitro* and *in vivo* use. The invention also relates to methods of manipulating the rate of therapeutic agent release by changing both the biodegradable polymer properties as well as altering the properties of the incorporated gel or hydrogel.

**Shashank Priya, Materials Science and Engineering**

*High Energy Density Piezoelectric Ceramic Materials*. U.S. Patent 7,686,974. March 30, 2010.

The present invention includes methods, devices, and compositions having improved piezoelectric characteristics with high energy density. The compositions exhibit a high product of piezoelectric voltage constant and piezoelectric stress constant. The compositions are polycrystalline or textured with a dense microstructure and small grain. The piezoelectric voltage constant and piezoelectric stress constant obtained from such compositions are superior to those of conventional hard or soft ceramics and yield a magnitude product of the piezoelectric voltage constant and piezoelectric stress constant that is significantly higher than those reported in the literature or in available with commercial or conventional ceramic compositions.

Shashank Priya and Robert D. Myers

*Piezoelectric Energy Harvester*. U.S. Patent 7,649,305. Jan. 19, 2010.

A mechanism for capturing mechanical energy and converting it to electrical energy for use continually charging or providing emergency power to mobile, battery-powered devices. It comprises a plurality of elongated piezoelectric elements mounted at one or more support points to one or more support structures. The plurality of piezoelectric elements are preferably structured and arranged so that at least each 3D coordinate axis has at least one element with a dominant mode of deflection in a plane normal to the axis, in order to permit harvesting energy from forces applied in any direction without regard to the orientation of the energy harvesting mechanism to the source of forces. This results in improved coupling of the transducer with the random movements or vibrations that may not be confined to any particular plane or in a plane that is not necessarily aligned with the plane in which a piezoelectric element is designed to bend, thus improving the efficiency of energy capture.

**Jeongsik Sin, Automation and Robotics Research Institute**

**Woo Ho Lee, Automation and Robotics Research Institute**

*Devices in Miniature for Interferometric Use and Fabrication Thereof*. U.S. Patent 7,710,574. May 4, 2010.

A device in miniature and fabrication of such a device for interferometric use is described. The device includes a substrate with at least one deep reactive ion etching structure on at least one surface of the substrate forming an optical bench. The optical bench preferably comprises a moving stage, an actuator, one or more connector sockets, and one or more optical components.

**Nikolai M. Stelmakh (deceased), Electrical Engineering**

*Method and Apparatus for Optical Mode Multiplexing of Multimode Lasers and Arrays*.

U.S. Patent 7,724,789. May 25, 2010.

Methods and apparatus for a multimode laser source capable of emitting a diffraction-limited beam of various shapes (including single-lobe shape). An optical apparatus for generating a such diffraction-limited beam comprises a spatial phase modulator for spatially modulating a spectrally dispersed optical signal emitted from a semiconductor laser into a combined-mode optical signal, wherein the lateral modes of the optical signal from the laser are combined into a diffraction-limited beam. Also, a coupling optical system is provided for wavelength-demultiplexing the multimode optical signal before the multimode optical signal is spatially modulated by the spatial phase modulator, and also for wavelength-multiplexing the combined-mode optical signal.

**Meng Tao, Nanofab Center**

Meng Tao and Longcheng Wang

*Formation of p-n Homogenous Junctions*. U.S. Patent 7,768,003. Aug. 3, 2010.

Methods, structures, and devices are described in which structures and devices have one or more p-n homo-junctions fabricated in solution. The junctions are formed by a sequential deposition of an oxide of copper from solution. Conduction type of the oxide of copper is controlled by pH of the solution.

**Michael Vasilyev, Electrical Engineering**

**Nikolai M. Stelmakh (deceased), Electrical Engineering**

*Wavelength and Intensity Monitoring of Optical Cavity*. U.S. Patent 7,852,486. Dec. 14, 2010.

A device, method, and system for measuring optical fine structure of lateral modes of an optical cavity. In one aspect, the device comprises at least one photodetector arranged to detect an output of the optical cavity in a lateral direction thereof. The device also comprises an analyzer coupled to an output of at least one photodetector and arranged to analyze at least a portion of signals produced in at least one photodetector by at least a portion of the lateral modes of the optical cavity. The device also comprises a processor arranged to determine the optical fine structure of at least a portion of the lateral modes of the optical cavity based on an output of the analyzer.

## **Roger S. Walker, Computer Science and Engineering**

Roger S. Walker and Emmanuel G. Fernando

*Method and Apparatus to Perform Profile Measurements on Wet Cement and to Report Discrepancies.* U.S. Patent 7,762,144. July 27, 2010.

An apparatus, method, and system that provide a means of real-time surface profile evaluation in wet cement. The sliding profiler can be pulled behind various stages in a paving train. The user is alerted to profile discrepancies while the cement is still pliable and is afforded the opportunity to make adjustments to the paving process to include additional finishing. The system is made of affordable components and thus is appropriate for construction projects of different scale. In addition, multiple sliding profilers can measure the profile of multiple wheel paths simultaneously. The system can measure profile changes of less than 150 mils.

# COLLEGE OF LIBERAL ARTS

## AWARDS

### **Natalie Gaupp, Theatre Arts**

### **Seiji Ikeda, Art and Art History**

### **Gerald D. Saxon, History and Library**

### **Jason Shelton, Sociology and Anthropology**

*Alicia Wilkerson Smotherman Faculty Awards*

The awards were established in 2007 by Alicia and Thad Smotherman to recognize faculty in the College of Liberal Arts whose expertise and teaching abilities have inspired students to create exceptional work. Natalie Gaupp was recognized for her work with an undergraduate student whose play was competitively chosen to be produced by a professional Equity theater. Gaupp served as the play's director. Seiji Ikeda worked with a graduate student on a project on visual communication in interactive gesture. The project incorporated a Web camera and computer software and was given national exposure at the New Media Consortium annual meeting last summer. Gerald D. Saxon guided a blind graduate student's oral history project relating to interviews with a Gulf War veteran that resulted in a 75-page seminar paper incorporating social history into military history. Jason Shelton mentored an undergraduate student and his McNair research project on race and perceptions of poverty, including a survey of 400 students.

### **Kevin L. Gustafson, English**

*Fellowship, National Endowment for the Humanities*

Kevin Gustafson, associate professor of English and associate dean of the Honors College, was awarded a fellowship for the NEH Summer Seminar "Augustine and Perpetua: Autobiography in its Roman African Context" in Tunis July 1–August 6. The objective was to examine in great detail two of the masterpieces of early autobiography—the *Passion of Perpetua* and the *Confessions* of St. Augustine—against the backdrop of Roman Africa, the material world that helped shape their imagination and inform their voice.

### **Joanna Webb Johnson, English**

*Outstanding Teaching Award, UT System Board of Regents*

The award is given to faculty members who deliver the highest quality of undergraduate instruction through a demonstrated commitment to teaching. Awardees also are recognized for showing a promising future of excellence in all aspects of instruction. President James D. Spaniolo nominated the honorees based on recommendations from department chairs, deans, and a committee established by Provost Donald Bobbitt.

### **Ritu Khanduri, Anthropology**

*Richard Carley Hunt Postdoctoral Fellowship, Wenner-Gren Foundation*

The highly competitive international grant was given to Khanduri based on her research into newspaper cartoons and the formation of social knowledge in colonial and postcolonial India. India has one of the largest newspaper readerships in the world, and cartoons have historically played an important political role.



*Leadership Fellow, American Anthropological Association*

This national award is made by the AAA Executive Board to mentor selected junior faculty (only two for the current year) for future leadership positions in the association.

**Darryl Lauster, Art and Art History**

*Joan Mitchell Foundation Award*

Assistant Professor Lauster was one of 25 artists to receive the honor in 2010. The award assists individual artists who are under-recognized for their artistic achievement and whose career would benefit from the grant. He plans to use the grant for various art projects, including interviews for a film he began at a summer 2010 residency at the Wassaic Project in New York's Hudson Valley.

*Inclusion in Texas Artists Today, Marquand Books (2010)*

The publication recognizes the top artists in Texas. Lauster's work incorporates digital media, printmaking, sculpture, and installation, and it often reflects his interest in American history and mythology. He has exhibited nationally at the Louise Wells Cameron Museum of Art, Appalachian State University, and the John Michael Kohler Foundation, and his work is in the permanent collections of the Museum of Fine Arts Houston, the University of Central Arkansas, and McNeese State University in Lake Charles, La.

**Michael K. Moore, Political Science**

*Gold Best Practice Award, United States Distance Learning Association*

Michael Moore, senior vice provost and associate professor of political science, was one of four to receive the award. His online version of Political Science 2311 was first offered in 1997; since then, more than 4,500 students from Texas, the United States, and abroad have enrolled in the class.

**Adonis Rose, Music**

*Grammy Award for Best Large Jazz Ensemble Album*

Jazz artist-in-residence Adonis Rose won the award as a member of the New Orleans Jazz Orchestra for the group's *Book One* album.

**Ya'Ke Smith, Art and Art History**

*Preston E. Smith Award, Flatland Film Festival Shorts2 International Competition*

Smith won the award for *Katrina's Son*, which tells the story of a young boy who loses his grandmother during Hurricane Katrina and travels to San Antonio, Texas, in search of the mother who abandoned him years earlier.

**Martha Walvoord, Music**

*Marjorie Keller Young Teacher of the Year, American String Teachers Association*

Martha Walvoord, assistant professor of music (violin), was recognized by the Texas chapter of the Association.

**BOOKS AND MUSIC**

**Ben Agger, Sociology and Anthropology**

*Framing 21<sup>st</sup> Century Social Issues*, Book Series Editor

New York, NY: Routledge Taylor and Francis Group, 2010

The goal of this new, unique series is to offer readable, teachable "thinking frames" on today's social problems and issues by leading scholars. For instructors teaching a wide range of courses in the social sciences, the book offers the best of both worlds: originally written short texts that provide "overviews" to important social issues as well as teachable excerpts from larger works previously published by Routledge and other presses.

*Body Problems: Running and Living Long in a Fast-Food Society*

New York, NY: Routledge Taylor and Francis Group, 2010

This book is part of the *Framing 21st Century Social Issues* series. For the first time in human history, people in industrial societies have access to an abundance of calories. Changes in work, transportation, housing, leisure, and diet have created a perfect storm: People consume too much high-fructose corn syrup, marbled meat, and processed food, but don't expend these calories in exercise. But long-distance runners do not depend on body industries and the medical model of body sciences to live a whole and healthy life. The pioneering training theories of Kenneth Cooper, Bill Bowerman, and Arthur Lydiard are explained. An Indian tribe called the Tarahumara, native long-distance runners who run barefoot and in thin sandals, is discussed. Also considered are people who run marathons, ultramarathons, trail races, and transcons.

*Cultural Studies as Critical Theory*

Translated into Chinese by Xihua Zhang

Hong Kong, China: Henan University Press, 2010

The book, published in English in 1992 and reprinted in 1998, examines the field of cultural studies and argues for its relevance in addressing the enormous impact of popular culture and mass media today. Among the perspectives analyzed are the Marxist sociology of culture, the Frankfurt School's critical theory grounded in the analysis of the culture industry, poststructural/postmodern discourse analysis, and feminist theory.

**Stacy Alaimo, English**

*Bodily Natures: Science, Environment, and the Material Self*

Bloomington, IN: Indiana University Press, 2010

How do we understand the agency and significance of material forces and their interface with human bodies? What does it mean to be human in these times, with bodies that are inextricably interconnected with our physical world? *Bodily Natures* considers these questions by grappling with powerful and pervasive material forces and their increasingly harmful effects on the human body. Drawing on feminist theory, environmental studies, and the sciences, Alaimo focuses on transcorporeality, or movement across bodies and nature, which has profoundly altered our sense of self. By looking at a broad range of creative and philosophical writings, Alaimo illuminates how science, politics, and culture collide, while considering the closeness of the human body to the environment.

**Christopher B. Conway, Modern Languages**

*US-Mexican War: A Binational Reader*

Edited and introduction by Christopher Conway, translated by Gustavo Pellón

Indianapolis, IN: Hackett Publishing, 2010

Drawing on a rich, interdisciplinary collection of U.S. and Mexican sources, this volume explores the foundational conflict that redrew the boundaries of the North American continent in the 19th century. Among the many period texts included here are letters from U.S. and Mexican soldiers, governmental proclamations, songs, caricatures, poetry, and newspaper articles.

**Victoria A. Farrar-Myers, Political Science**

*Corruption and American Politics*

Michael A. Genovese and Victoria A. Farrar-Myers

Amherst, NY: Cambria Press, 2010

From the days of Athenian democracy to the back rooms of Chicago politics today, corruption has plagued all political systems for all time. It is ubiquitous, vexing, and at times, threatens the very fabric of society. While the United States generally ranks comparatively low in measures of political corruption, it too continues to confront the issue. With so many issues of corruption swirling around in the current American political climate, this timely new scholarship casts much-needed light on these systemic forces.

**John Garrigus, History**

*The Encyclopedia of the Caribbean*

Edited by John Garrigus and Manuel Barcia

New York, NY: Facts on File, 2010

With over 700 entries, the three-volume encyclopedia is the only comprehensive reference work of its kind for this region, defined to include the circum-Caribbean. Coverage includes key figures, topics and events in history, society and popular culture, religion, literature, politics, geography, and economics. Articles range from 500 to 8,000 words. High school and college students are the intended reading audience.

**John Garrigus, History**

**Christopher Morris, History**

*Assumed Identities: The Meanings of Race in the Atlantic World*

Edited by John Garrigus and Christopher Morris

College Station, TX: Texas A&M University Press, 2010

With the recent election of the nation's first African American president—an individual of blended Kenyan and American heritage who spent his formative years in Hawaii and Indonesia—the topic of transnational identity is reaching the forefront of the national consciousness. This book, with an introduction by Franklin W. Knight, contains the papers presented at the Walter Prescott Webb Memorial Lectures and published for the University of Texas at Arlington.

**Carolyn Guertin, English**

*Digital Portfolio 2007-2010*

LaVergne, TN: Mixbook.com, 2010

The portfolio contains prints of the work of Carolyn Guertin, assistant professor of digital media and director of the eCreate Lab.

**Kevin L. Gustafson, English**

*Cleanness: An Edition and Translation*

Translated and edited by Kevin Gustafson

Peterborough, Ontario, Canada: Broadview Press, 2010

This edition provides a new facing-page translation of an important Middle English alliterative poem generally attributed to the poet of *Sir Gawain and the Green Knight*. A complex meditation on courtly and religious ideals, *Cleanness* has been praised for its densely figurative language, elaborate descriptive set pieces, and moving depictions of cosmic and human drama. More recently, the poem has also attracted attention for contributing to the history of sexuality in its comparatively frank discussion of sexual practices. Gustafson's new translation captures the original's poetic qualities while making the often-difficult text accessible to modern readers. The facing-page format allows readers to experience the original alliterative Middle English to compare the texts.

**Chunping Han, Sociology and Anthropology**

*Social Classes in Transition China* (translation of Chinese title)

Edited by Yang Su, Shizheng Feng, and Chunping Han

Beijing, China: Social Sciences Press, 2010

This edited book is intended to revive the social class perspective in research on social inequality in China. It calls for attention to two issues: First, social inequality in China has not only been coupled with market-based occupational differentiation, but also involved conflicts between interest groups, as predicted by the conflict theory implied in the social class perspective. Second, state policies have exerted crucial influences on the configuration of social inequality in China.

**Sam W. Haynes, History**

*Unfinished Revolution: The American Republic in a British World (1815-1850)*

Charlottesville, VA: University of Virginia Press, 2010

After the War of 1812 the United States remained a cultural and economic satellite of the world's most powerful empire. Conflicted and complex, American attitudes toward Great Britain provided a framework through which citizens of the republic developed a clearer sense of their national identity. Moreover, an examination of the transatlantic relationship from an American perspective suggests that the United States may have had more in common with traditional developing nations than we have generally recognized. Writing from the vantage point of America's unrivaled global dominance, historians have tended to see in the young nation the superpower it would become. Haynes here argues that, for all its vaunted claims of distinctiveness and the soaring rhetoric of "manifest destiny," the young republic exhibited a set of anxieties not uncommon among nation-states that have emerged from long periods of colonial rule.

**Susan J. Hekman, Political Science**

*Material of Knowledge: Feminist Disclosures*

Bloomington, IN: Indiana University Press, 2010

We are witnessing a sea change in intellectual thought, the main features of which can be found in dichotomies between language and reality, discourse and materiality. Hekman proposes that it is possible to find a more intimate connection between these pairs, one that does not privilege one over the other. By grounding her work in feminist thought and employing analytic philosophy, scientific theory, and linguistic theory, Hekman shows how language and reality can be understood as a dissoluble unit. In this broadly synthetic work, she offers new interpretations of questions of science, modernism, postmodernism, and feminist thought that build knowledge of reality and extend how we deal with nature and our increasingly diverse experiences of it.

**Sonia Kania, Modern Languages**

*Mexican Spanish of the Colonial Period: Evidence for the Audiencia of New Galicia* (Colonial Hispanic American Series)

New York, NY: Hispanic Seminary of Medieval Studies, 2010

The study is a linguistic analysis of manuscript documents from the area of Mexico historically known as New Galicia (capital Guadalajara), which serves to reconstruct the principal characteristics of the Spanish spoken in that area during the 16th and 17th centuries. The findings are organized with regard to the sound system, grammar, and principal vocabulary items evidenced in the texts. These findings are compared with what is known about the configuration of Mexican Spanish, providing explanations for the distribution of its most salient features today.

**Stephen Laphisophon, Art and Art History**

*Writing Art Cinema 1988-2010*

Chicago, IL: Green Lantern Press, 2010

Stephen Laphisophon brings his skills as an installation artist to the page with six essays written over the last 20 years. He shows how writing about writing, art, and cinema can dissolve into its subject, becoming all of those things or none of them.

**C. Scott Pool, Music**

*Bassoon Vibrato Production*

Saarbrücken, Germany: Lap Lambert Academic Publishing, 2010

The role of the larynx has often been overlooked as an important factor in vibrato production on the bassoon. In 2004, Pool sought to find answers to his questions regarding vibrato production and the function of the throat. His observations give us new revelations into how the larynx plays a key role in this important element of bassoon tone and technique. By understanding how the larynx affects bassoon vibrato, Pool is able to apply new insightful information to both his own performance and teaching strategies.

*Landscapes: The Double Reed Music of Daniel Baldwin*

Clarence, NY: Mark Records, 2010

Pool has been featured on the recent audio CD *Landscapes: The Double Reed Music of Daniel Baldwin*. Of the five pieces featuring Pool, three were written especially for him and his applied studio at UT Arlington. Baldwin is a neo-Romantic composer residing in Kansas and is frequently sought for commissions of new music.

**Harry P. Reeder, Philosophy and Humanities**

*The Theory and Practice of Husserl's Phenomenology, second enlarged edition*

Bucharest, Romania: Zeta Books, 2010

The second edition of *The Theory and Practice of Husserl's Phenomenology* is a clear and concise introduction to the theoretical background and the rigorous method of Edmund Husserl (1859-1938), perhaps the most influential philosopher of the 20th century and the founder of the phenomenological movement. According to Husserl, phenomenology is not a body of knowledge but a scientific practice based in a rigorous and difficult method, a method that takes long effort and practice to enter into and develop some significant results. Since many scholars and students do not read many of Husserl's published works, this text is meant to show the core unity of focus and method throughout decades of his phenomenological practice and refinement. The present work covers the historical origin on phenomenology and some main thematic results that appear in Husserl's works, and provides an introduction to phenomenology as a practice, through explication of the "how to" of producing a phenomenological description.

**Kenneth M. Roemer, English**

*Covers, Titles, and Tables: The Formations of American Literary Canons*

Compiled and edited by Kenneth M. Roemer, with Bethany Shaffer and Lorie Jacobs, associate editors

Arlington, TX: University of Texas at Arlington, 2010

This digital archive collection of more than 200 tables of contents—supplemented by selected covers and prefaces—is reproduced from anthologies and selected histories and offers a convenient window to the history of literary canon formation in the United States from 1829 to the present. The goal is to make the collection available to scholars, teachers, and students of American literature and culture, as well as academic administrators, librarians, book dealers, publishers, members of boards of education, politicians, and anyone curious about how American arbiters of culture attempt to profile America by gathering, organizing, and defining selections from our literary heritage.

**Alicia Rueda-Acedo, Modern Languages**

**Ignacio Ruiz-Pérez, Modern Languages**

*Independencias, Revoluciones y Revelaciones: Doscientos años de literatura Mexicana [Independence, Revolutions, and Revelations: Two hundred years of Mexican literature]*

Edited by Alicia Rueda-Acedo, Ignacio Ruiz-Pérez, and Rodolfo Mendoza Rosendo

Xalapa, Mexico: Universidad Veracruzana/UT Arlington/UC-Mexicanistas, 2010

The book analyzes the social and cultural impact of both the Independence and the Mexican Revolution in contemporary Mexican literature. It includes articles by well-known scholars from Mexico and the United States, such as Manuel Sol (University of Veracruz), Álvaro Ruiz Abreu (Metropolitan Autonomous University), Norma Klahn (University of California at Santa Cruz), and Max Parra (University of California at San Diego).

**Mary Vaccaro, Art and Art History**

*An Italian Journey: Drawings from the Tobey Collection, Correggio to Tiepolo*

Edited by Linda Wolk-Simon and Carmen C. Bambauch

New Haven, CT: Yale University Press, 2010

This exhibit catalog for the Metropolitan Museum of Art presents highlights from one of America's preeminent private collections of Old Master drawings, assembled over the past 15 years by Julie and David Tobey. Ranging in date from the 16th through the 18th centuries, some 70 drawings—many previously unpublished—are featured, including works by brilliant draftsmen such as Correggio, Parmigianino, Giulio Romano, Bernini, Poussin, Guercino, Ribera, Canaletto, and Tiepolo. Impressive in their variety of subjects, the drawings include figure studies, historical and mythological narratives, landscapes, *vedute*, botanical drawings, motifs copied from or inspired by classical antiquity, and designs for painted compositions.

**Martha Walvoord, Music**

*American Perspectives: Works for Violin by Matthew Tommasini*

Martha Walvoord, violin; Nicholas Hutchinson, piano; and Jennifer Walvoord, violin  
Baton Rouge, LA: Centaur Records, 2010

*American Perspectives* is the result of a four-year commissioning collaboration between violinist Martha Walvoord and composer Matthew Tommasini. Each new work for violin explores themes of American life by reinterpreting folk and popular music styles. The topics of these compositions include the experiences of immigrants crossing the United States/Mexico border, the identity of the city of New Orleans in the aftermath of hurricane Katrina, Appalachian fiddle traditions, and personal themes of faith and spirituality. All four works were composed by Matthew Tommasini. This is the premiere recording for all works.

**ART EXHIBITS AND PERFORMANCES****Lisa Graham, Art and Art History**

Invitational International Exhibition: *New Generation–2010 International Graphic Design Invitational Exhibition*, University College of Design, Cheonan, South Korea. Nov. 8-12, 2010

**Anne H. Healy, Theatre Arts**

*Leading Ladies*, Theatre Arlington, Arlington, TX. June 25-July 3, 2011

Anne Healy, adjunct lecturer, directed Ken Ludwig's *Leading Ladies* at Theatre Arlington. She masterfully united design elements with over-the-top, good timing comedic action to keep the audience engaged and laughing.

**Robert Hower, Art and Art History**

Invitational International Exhibition: *New Generation–2010 International Graphic Design Invitational Exhibition*, University College of Design, Cheonan, South Korea. Nov. 8-12, 2010

*Prime Perception*. The Gallery at UTA, Arlington, TX. January-February, 2010

**Sedrick Huckaby, Art and Art History**

*From Earth to Heaven*, Art Museum of the Southeast Texas, Beaumont, TX. October 2010

**Kim LaFontaine, Theatre Arts****Dan Cavanagh, Music****Anne H. Healy, Theatre Arts****Andrew Christopher Gaupp, Theater Arts**

*Cabaret*, Mainstage Theatre, UT Arlington, Arlington, TX. Oct. 15-24, 2010

Kim LaFontaine produced and directed, Dan Cavanaugh was pit conductor, Anne Healy was music director and associate director, and Andrew Gaupp was acting and dialect coach and associate director. Other key contributors were Jared Land, lighting and sound designer; Laurie Land, costume designer; Joe Kongevick, make-up designer; David Navalinsky, technical director and production manager; D.J. Badon, scenic studio supervisor; Marla Grant, costume studio supervisor; Michelle Harvey, props and paint supervisor; Dennis Maher, dramaturg; Natalie Gaupp, publicity coordinator; and Lisa Marie Holley, playbill design and layout.

**Darryl Lauster, Art and Art History**

*Reliquary for Mount Pleasant*, Philadelphia Museum of Art

Lauster's sculptural work has entered the permanent collection of the Philadelphia Museum of Art.

**Leighton McWilliams, Art and Art History**

International Juried Exhibition: *Bestiary: The Animal in Contemporary Art*, Manifest Gallery, Cincinnati, OH. Nov. 15-Dec. 3, 2010

Manifest used its entire exhibition space, three galleries, to feature an exhibit to reveal the state of the animal in contemporary art. For this exhibit, 410 artists from 41 states and 23 countries submitted 985 works for consideration; Twenty-five works by 17 artists were selected by a two-part jury/curatorial process.

**Michelle Murillo, Art and Art History**

International Exhibition: *Border Art Biennial 2010/Bienal Fronteriza de Arte 2010*, El Paso Museum of Art, El Paso, Texas. Nov. 20, 2010-Feb. 13, 2011; and Centro Cultural Paseo del Norte, Ciudad Juarez, Mexico. Jan. 20-March 20, 2011

Invitational International Exhibition: *7th International MiniPrint Finland 2010*, Lahti Art Museum, Lahti, Finland. Nov. 26, 2010-Jan. 30, 2011

International Exhibition: *Biennial International Miniature Print Exhibition VI*, Federation Art Gallery, Granville Island, Canada. Sept. 11-26, 2010; Dundarave Print Workshop Gallery, Vancouver, Canada. Oct. 4-31, 2010; and The Society of Northern Alberta Print Artists' Gallery, Edmonton, Canada. Nov. 4-21, 2010

Invitational National Group Exhibition: *Category: Printmaking*, Woman Made Gallery, Chicago, IL. July 9-Aug. 26, 2010

Invitational National Group Exhibition: *Rock, Paper, Scissors*, Irvine Fine Arts Center, Irvine, CA. June 18-July 31, 2010

Invitational National Group Exhibition: *21st National Drawing and Print Competitive Exhibition*, Gormley Gallery, College of Notre Dame of Maryland, Baltimore, MD. March 29-April 30, 2010

**Nancy Palmeri, Art and Art History**

*You are Here...and Other Random Coordinates*, Boise State University, SUB Gallery, Boise, ID. Dec. 10, 2009-Jan. 5, 2010

This exhibition features the work of 21 North American artists working in the hand-printed media. The portfolio deals with chance assignment in regard to place.

*Bad Boys, Magic Ladies, and Timeless Masters: A National Exhibition of Woodcut Print*, Morgan Conservatory, Cleveland, OH. Oct. 15, 2010

*Monumental Idea in Miniature Book Traveling Exhibit*, Seoul International Book Fair, Seoul, Korea, and the University of Edinburgh, Scotland. 2010

*ColorPrint USA 40th Anniversary Exhibition*, Museum of Texas Tech University, Lubbock, TX. March 7-May 9, 2010

**Bart Weiss, Art and Art History**

*The ishow*, Photos Do Not Bend Gallery, Dallas, TX. Sept. 24, 2010-Oct. 9, 2010

A regional curated show of photographs taken with the iPhone

*VideoFest! Regional Video Festival*. Dallas, TX. Sept. 23-26, 2010

Curated selection of 135 films and videotapes

*American Documentary Showcase: 30 Outstanding Documentaries by American Filmmakers*, [www.documentary.org](http://www.documentary.org). July 22-Aug. 18, 2010

**Nicholas Wood, Art and Art History**

*Flats and Rounds*, William Campbell Contemporary Art, UT Arlington Fort Worth Center Gallery 76102, Fort Worth, TX. Oct. 7-Nov. 30, 2010

*Der Zeitgenosse*, Eastern Washington University Gallery, Cheney, WA. Feb. 25- April 1, 2010

*Regional Expressions in Vitrified Clay*, School of Art Studio Gallery, Texas Tech University, Lubbock, TX. Jan. 19- Feb. 14, 2010

**JOURNAL/BOOK SERIES EDITORIAL CONTRIBUTIONS**

**Ben Agger, Sociology and Anthropology**

Editor, *Fast Capitalism* (UT Arlington)

International Advisory Board, *European Journal of Social Theory* (Sage)

Editorial Board, *disclosure: A Journal of Social Theory* (Committee on Social Theory, University of Kentucky)

Editorial Board, *Journal of Classical Sociology* (Sage)

Editorial Board, *New York Journal of Sociology* (Department of Sociology and Anthropology, SUNY Cortland)

Editorial Board, *American Educational Research Journal* (American Educational Research Association)

Editorial Board, *Current Perspectives in Social Theory* (Emerald)

Advisory Board, Center for Digital Discourse and Culture

**Stacy Alaimo, English**

Editorial Board, *Fast Capitalism* (UT Arlington)

Advisory Board, *Green Letters: Studies in Ecocriticism* (Association for the Study of Literature and Environment)

**Robert B. Fairbanks, History**

Editor for the Americas, *Planning Perspectives* (Routledge)

**Wendy B. Faris, English**

Editorial Board, *The Comparatist* (University of Georgia at Athens)

**Victoria A. Farrar-Myers, Political Science**

Editorial Board, *White House Studies* (James Madison University)

**Carolyn Guertin, English**

Editor, International Editorial Board, *Computer and Composition Digital Press* (Utah State University Press)

Editorial Board, *Convergence* (Sage)

International Advisory Board, *Digital Studies Le Champ Numerique* (Society for Digital Humanities)

Literary Advisory Board, *Electronic Literature Organization* (Electronic Literature Organization)

Editorial Board, *Fast Capitalism* (UT Arlington)

Technical Advisor and Editorial Board, *Early English Studies* (English Department, UT Arlington)

**Kevin L. Gustafson, English**

Advisory Board, *Early English Studies* (English Department, UT Arlington)



**Susan J. Hekman, Political Science**

Editorial Board, *Hypatia* (Wiley InterScience)

Editorial Board, *Gender, Work, and Organization* (Wiley InterScience)

Editorial Board, *Fast Capitalism* (UT Arlington)

**Graham G. Hunt, Music**

Editorial Board, *Music Theory Spectrum* (Caliper, University of California Press)

Editorial Board, *The Journal for Schenkerian Studies* (Center for Schenkerian Studies and the University of North Texas Press)

**Laurin R. Porter, English**

Editorial Board, *The Eugene O'Neill Review* (Suffolk University)

Advisory Board, *The Horton Foote Review* (Horton Foote Society)

**Harry P. Reeder, Philosophy and Humanities**

Permanent Editorial Board, *Orbis Phaenomenologicus* (Konigshausen and Neumann)

Consulting Editor, *Classics in Phenomenology* (Noesis Press Book Series, University of Wisconsin Press)

Consulting Editor, *Contemporary Phenomenological Thought* (Noesis Press Book Series, University of Wisconsin Press)

International Editorial Board, *Anuario Colombiano de Fenomenología* (Centro de Recursos Informáticos y Educativos, Universidad Tecnológica de Pereira, Colombia)

Consulting Editor and Translator, *Praxis Filosófica* (Departamento de Filosofía, Facultad de Humanidades, Universidad del Valle, Cali, Colombia)

Translator, *Cuestiones de Filosofía* (Universidad Pedagógica y Tecnológica de Colombia, Bogotá, Colombia)

Editorial Board, International Center for the Study of Globalization/Centro Internacional de Estudios de la Globalización (Universidad Rafael Landívar, Ciudad de Guatemala)

**Jerome Rodnitzky, History**

Editorial Board, *Popular Music and Society* (Routledge)

Submissions Review Board, *The Journal of Texas Music History* (The Center for Texas Music History, Texas State University-San Marcos)

**Kenneth M. Roemer, English**

Advisory Committee, *PMLA* (Modern Language Association)

Editorial Board, *American Literary Realism* (University of Illinois Press)

Editorial Board, *Utopian Studies* (School of Arts and Humanities, Oxford Brookes University)

Editorial Board, *Studies in American Indian Literatures* (University of Nebraska Press)

**Joseph "Joey" Sabbagh, Linguistics and TESOL**

Editorial Board, *Syntax* (Wiley-Blackwell)

**Johanna M. Smith, English**

Editor, 19th Century Section, *Gender and Genre Book Series* (Pickering and Chatto)

Editor, 19th-Century Literature Section, *Annotated Bibliography of English Studies* (Routledge Online Database)

Review Editor, *Nineteenth-Century Contexts* (Routledge)

**Jacqueline Stodnick, English**

Advisory Board, *Early English Studies* (English Department, UT Arlington)

**Amy L. Tigner, English**

Editor-in-Chief, *Early English Studies* (English Department, UT Arlington)

## COLLEGE OF NURSING

### AWARDS

#### **Joy Don Baker**

*Outstanding Achievement in Perioperative Academic Nursing Education, Association of Operating Room Nurses*

Baker was honored for her use of technology in nursing education. The Association of Operating Room Nurses, a national organization that has 40,000 members, is committed to improving patient safety in the surgical setting.

#### **Carolyn Cason**

*Best International Research Project, Design and Health International Academy*

Cason and a team from the Dallas-based architectural firm HKS Inc. won for their study, “An Empirical Examination of Patient Room Handedness in Acute Medical-Surgical Settings.” The work was funded through a grant from the Academy of Architecture for Health Foundation and a grant from Herman Miller Inc., a worldwide distributor of furniture systems. They used UT Arlington’s Smart Hospital to test their ideas.

#### **Judy L. LeFlore**

*Fellow, Academy of Nursing Education, National League for Nursing*

LeFlore, Director of the College of Nursing’s pediatric nurse practitioner program, is an expert in using technology, such as the lifelike patient simulators in UT Arlington’s Smart Hospital. The National League for Nursing is a nursing and health care education organization with 30,000 individual and 1,200 institutional members. It started the Academy of Nursing Education in 2007 and has inducted 86 fellows since then.

### BOOKS

#### **Susan K. Grove**

*Study Guide for Understanding Nursing Research: Building an Evidence-Based Practice, fifth edition*

Nancy Burns and Susan K. Grove

St. Louis, MO: Saunders/Elsevier, 2010

This guide helps students review nursing research concepts and learn to apply them for evidence-based practice. With learning activities in each chapter, it reinforces the content covered in *Understanding Nursing Research, fifth edition*, by Nancy Burns and Susan K. Grove. This edition includes an expanded focus on evidence-based practice and new case studies to help students understand their research process and apply their findings to the clinical setting.

*Understanding Nursing Research: Building an Evidence-Based Practice, fifth edition*

Nancy Burns and Susan K. Grove

St. Louis, MO: Saunders/Elsevier, 2010

Students learn how to evaluate and apply research with this nursing research book, which is known for its authoritative content, time-tested, step-by-step approach, and abundant use of research examples. With improved clarity and readability, the new edition strengthens its focus on evidence-based practice to better demonstrate how the steps of the research process relate to evidence-based nursing. Written by two of the leaders in the field of nursing research, Nancy Burns and Susan K. Grove, this full-color text offers unique insights into understanding, appraising, and applying published research to evidence-based practice.

## JOURNAL/BOOK SERIES EDITORIAL CONTRIBUTIONS

### **Mindi Anderson**

Editorial Board, *Clinical Simulation in Nursing* (Elsevier)

### **Susan K. Grove**

Editorial Board, *Heart and Lung* (Elsevier)

### **Judy L. LeFlore**

Neonatal Editorial Board, *Journal of Neonatal and Perinatal Nursing* (Wolters Kluer/Lippincott, Williams, and Wilkins)

Editorial Board, *Simulation in Healthcare* (Wolters Kluer/Lippincott, Williams, and Wilkins)

### **Mary E. Mancini**

Editorial Board, *NurseWeek* (Gannett Education)

### **Elizabeth C. Poster**

Editor, *Journal of Child and Adolescent Psychiatric Nursing* (Wiley-Blackwell)

### **Marilee Schmelzer**

Editor, Research in Practice Column, *Gastroenterology Nursing* (Society of Gastroenterology Nurses and Associates)

### **Diane E. Snow**

Associate Editor, *Journal of Addictions Nursing* (Informa Healthcare)

### **R. Craig Stotts**

Advisory Board, *Applied Behavior Science Press* (Applied Behavior Science Press)

## COLLEGE OF SCIENCE

### AWARDS

#### **Monica Basco, Psychology**

*Excellence in Teaching Award, National Society of Leadership and Success (Sigma Alpha Pi)*

**Minerva Cordero-Epperson, Mathematics**

**James Epperson, Mathematics**

**Theresa Jorgensen, Mathematics**

**Barbara Shipman, Mathematics**

**Lauri Jensen-Campbell, Psychology**

*Outstanding Teaching Awards, UT System Board of Regents*

The recipients were recognized for delivering the highest quality of undergraduate instruction through a demonstrated commitment to teaching. Epperson directs the UT Arlington Mathematics Teacher Preparation Academy, a Texas Higher Education Coordinating Board–funded project that helps prospective and current teachers perform at the highest levels in mathematics and mathematics instruction. Jorgensen is a leader in that program. Shipman is helping upper-level mathematics educators by publishing a series of classroom strategies she developed with funding from the National Science Foundation (NSF). Cordero-Epperson is principal investigator for an NSF-funded project that places UT Arlington graduate students in selected Arlington schools to boost interest in math. Jensen-Campbell’s research areas include bullying and health outcomes and personality and adolescent development.

**Purnendu “Sandy” Dasgupta, Chemistry and Biochemistry**

*American Chemical Society Award in Chromatography, American Chemical Society*

The American Chemical Society is the world’s largest scientific society for pioneering advances in the field of chromatography, a process used in water quality studies, air pollution monitoring, drug development, and more. Award winners are chosen based on nominations from peers and expert reviewers in their fields.

**Yue Deng, Physics**

*Faculty Early Career Development (CAREER) grant, National Science Foundation*

Assistant Professor Yue Deng received the grant for her study of energy output from the magnetosphere—space around the Earth controlled by the Earth’s magnetic field—and its impact on the Earth’s upper atmosphere.

**Amir Farbin, Physics**

*Faculty Early Career Development (CAREER) grant, Department of Energy*

Amir Farbin, assistant professor, received the grant to support his work on ATLAS, a particle physics experiment using the Large Hadron Collider at Cern.

**Qinhong “Max” Hu, Earth and Environmental Sciences**

*Fullbright Senior Specialist Scholarship*

The Fulbright Senior Specialists Program, created in 2000 to complement the traditional Fulbright Scholar Program, provides short-term academic opportunities (two to six weeks) to prominent U.S. faculty and professionals to support curricular and faculty development and institutional planning at post-secondary academic institutions around the world. For his grant, Hu conducted research at the Tokyo University of Agriculture and Technology in Japan in April and May.

**Ramon Lopez, Physics**

*2010 Distinguished Scientist Award, Society for Advancement of Chicanos and Native Americans in Science*

Lopez was one of five honorees from across the country recognized for his “exemplary scientific achievement, teaching, and mentorship of underrepresented minority students.”

**Zdzislaw E. Musielak, Physics**

*Alexander von Humboldt Prize*

Musielak won his second international Alexander von Humboldt Prize for his research into the sun and solar-type stars. The prize honors internationally renowned scientists and scholars. Musielak is being rewarded specifically for outstanding achievements in the field of astrophysics. His award resulted from his nominations by three German research institutions.

**Linda Perrotti, Psychology**

2009 Young Investigator Award, National Alliance for Research on Schizophrenia and Depression

Perrotti received the NARSAD award for her research proposal, *Sex Differences in the Molecular Mechanisms Involved in Drug Seeking*.

**Kevin A. Schug, Chemistry and Biochemistry**

Eli Lilly Young Analytical Scientist Award

The national honor comes with funding, the opportunity to renew the grant for a second year, and a lifetime opportunity to collaborate with Eli Lilly scientists. It recognizes a young researcher who is doing work of relevance to the pharmaceutical industry.

**Thomas Strom, Chemistry**

Fellow, American Chemical Society

Only 162 of the 154,000 members of the ACS were chosen. The fellows are members who demonstrate excellence in their contributions to the chemical enterprise and distinctive service to the ACS or the broader world of chemistry.

**BOOKS AND MEDIA****Monica Ramirez Basco, Psychology**

*The Procrastinator's Guide to Getting Things Done*

New York, NY: Gilford Press, 2010

Basco believes that through a combination of understanding, practical exercises, and basic shortcuts, bad procrastination habits can be broken. In the book, she defies the notion that procrastination is due to simple laziness and offers a strategic self-help program packed with sensible tips and suggestions.

**Andrew Baum (deceased), Psychology**

*The Handbook of Stress Science: Biology, Psychology, and Health*

Edited by Richard Contrada and Andrew Baum

New York, NY: Springer, 2010

Edited by two leading health psychologists, *The Handbook of Stress Science* presents a detailed overview of key topics in stress and health psychology. With discussions on how stress influences physical health—including its effects on the nervous, endocrine, cardiovascular, and immune systems—the text is a valuable source for health psychologists, as well as researchers in behavioral medicine, neuroscience, genetics, clinical and social psychology, sociology, and public health.

**Wei Chen, Physics**

*Doped Nanomaterials and Nanodevices (3-volume set)*

Edited by Wei Chen

Stevenson Ranch, CA: American Scientific Publications, 2010

*Doped Nanomaterials and Nanodevices* summarizes research activities into the fundamental properties and applications of doped nanomaterials. Doping can enable properties that are not innately present in a material. Consequently, researchers have focused a great deal of attention on nanomaterials in order to take advantage of the unique properties resulting from quantum

size confinement and surface effects. Quantum size confinement affects the energy structure and physical properties of doped nanomaterials and nanodevices. Luminescence and upconversion luminescence is being investigated extensively in doped nanoparticles, which may find applications in optical storage, radiation detection, infrared detection, and dosimetry. Upconversion nanoparticles are particularly promising for biological imaging because auto-

fluorescence can be overcome and higher imaging resolutions can be obtained. Doped insulator nanomaterials including carbon nanotubes represent a new type of high-efficiency luminescent material. Quantum size confinement is not as critical for insulator nanoparticles as it is for semiconductor nanoparticles; however, because of their large surface-to-volume ratios, insulator nanoparticles exhibit some novel properties that make them suitable for numerous useful applications. As a biological labeling agent, insulator nanoparticles are much less toxic than semiconductor nanoparticles making them very promising materials for both cancer detection and treatment. A new field known as spintronics, utilizes the spin properties of charge carriers to perform circuit functions and is rapidly moving toward the introduction of spin-

based devices. The success of spintronics will not only have a great impact on science but will also bring about a revolution in industrial technology. Doping is not only a method in inorganic materials but also an effective solution in organic materials for obtaining desirable properties. Doped organic nanomaterials have attracted attention even though the research is only beginning. By taking advantage of these properties, doped nanomaterials are expected to make major contributions for practical applications in electronic and photonic devices.

**Manfred A. Cuntz, Physics**

**Levent Gurdemir, Physics**

**Amy L. Barraclough, Physics**

*The Magnificent Sun*

The Planetarium at the UT Arlington, Dec. 9, 2010

In this original feature film, the Planetarium used NASA funding to explore the mysteries of Earth's closest and most important star. The 45-minute show is the third in a series developed by Cuntz, associate professor of physics, and the Planetarium staff during the past three years. The show features solar surface research and lessons on the interaction between the sun and the Earth. It also provides tidbits on the history of solar physics, all coordinated with animated illustrations. Cuntz authored the script with Peter Williams, a former doctoral student of his, and Marc Rouleau, the previous director of the UT Arlington planetarium. Gurdemir, the planetarium's current director; Barraclough, the program coordinator; and planetarium staff worked on the show.

**Lauri Jensen-Campbell, Psychology**

*Social Pain: Neuropsychological and Health Implications of Loss and Exclusion*

Edited by Geoff MacDonald and Lauri A. Jensen-Campbell

Washington, D.C.: American Psychological Association, 2010

Social pain is the experience of pain as a result of interpersonal rejection or loss, such as rejection from a social group, bullying, or the loss of a loved one. Research now shows that social pain results from the activation of certain components in physical pain systems. Although social, clinical, health, and developmental psychologists have each explored aspects of social pain, recent work from the neurosciences provides a coherent, unifying framework for integrative research. This edited volume provides the first comprehensive, multidisciplinary exploration of the topic.

**Merlynd K. Nestell, Earth and Environmental Sciences**

*Guadalupian (Middle Permian) Microfauna of West Texas (A special issue of Micropaleontology, vol. 56, No. 1-2)*

Edited by Merylynd K. Nestell and Bruce R. Wardlaw

Flushing, NY: Queens College of City University, 2010

The issue is devoted the Guadalupian (Middle Permian) microfauna of West Texas. Many of the papers in this volume had their birth as a result of a day field trip taken in 1996 in conjunction with the Second Guadalupian Symposium in Alpine, Texas, to a series of road cuts on Texas Farm to Market road FM 2185. This issue brings the research forward and updates earlier work.

**Asok K. Ray, Physics**

*Nanoclusters and Nanostructured Surfaces*

Edited by Asok K. Ray

Valencia, CA: American Scientific Publishers, 2010

This book deals with nanoclusters and nanostructured surfaces of various materials of significant importance in the broad areas of nanoscience and nanotechnology. The chapters cover both experimental and theoretical studies and range from silicon carbide nanoclusters to chemical vapor deposition of clusters on surfaces. The diverse topics such as nanotubes, nanoclusters, hybrid nanostructures, nanostructured magnetic materials and surfaces, device applications, density functional study, and ab initio calculations are simultaneously relevant and important to scientists in the pure sciences and engineering. The book is intended to be an essential multidisciplinary reference source for scientists, researchers, upper-level undergraduate and graduate students, and specialists working in the fields of nanotechnology, quantum chemistry, molecular modeling, chemistry, physics, surface science, and materials science.

## JOURNAL/BOOK SERIES EDITORIAL CONTRIBUTIONS

### **Daniel W. Armstrong, Chemistry and Biochemistry**

Associate Editor, *Analytical Chemistry* (ACS)

Editorial Advisory Board, *Chromatographia* (Vieweg and Teubner)

Editorial Advisory Board, *Electrophoresis* (Wiley-Blackwell)

Editorial Advisory Board, *Separation Science and Technology* (Taylor and Francis)

Editorial Advisory Board, *Chirality* (Wiley Online Library)

Editorial Advisory Board, *Journal of Separation Science* (Wiley-Blackwell)

Editorial Advisory Board, *Scientia Chromatographica* (Associacao Internacional de Cromatografia, São Carlos, Brazil)

### **Andrew Baum (deceased), Psychology**

Editor, *Journal of Applied Social Psychology* (Wiley-Blackwell)

Editor, *Journal of Applied Biobehavioral Research* (Wiley-Blackwell)

### **Wei Chen, Physics**

Guest Editor, *Journal of Nanoscience and Nanotechnology*. Special Issue on *Nanooptics and Nanophotonics* March 2010 (American Scientific Publishers)

Editor-in-Chief, *Reviews in Nanoscience and Nanotechnology* (American Scientific Publishers)

American Editor, *Journal of Nanoscience and Nanotechnology* (American Scientific Publishers)

### **Paul Chippindale, Biology**

Associate Editor, *Herpetologica* (Herpetologists' League)

### **Minerva Cordero-Epperson, Mathematics**

Editorial Board, *American Mathematical Monthly* (American Mathematical Society)

### **Purnendu "Sandy" Dasgupta, Chemistry and Biochemistry**

Editor, *Analytica Chimica Acta* (Elsevier)

Associate Editor, *Journal of Flow Injection Analysis* (Japanese Association for Flow Injection Analysis)

Advisory Board, *Analytical Sciences* (Japan Society of Analytical Chemistry)

Advisory Board, *Talanta* (Elsevier)

### **H. V. Rasika Dias, Chemistry and Biochemistry**

Advisory Board, *Dalton Transactions* (Royal Society of Chemistry)

### **Robert J. Gatchel, Psychology**

Editor, *Pain Practice* (Wiley-Blackwell)

Associate Editorial Board, *The Spine Journal* (Elsevier)

Associate Editorial Board, *Spine* (Lippincott Williams and Wilkins)

Honorary Editorial Board, *Journal of Pain Research* (Dove Medical Press)

Editorial Board, *Journal of Applied Social Psychology* (Wiley-Blackwell)

Editorial Board, *Journal of Applied Biobehavioral Research* (Wiley-Blackwell)

Editorial Board, *Journal of Occupational Rehabilitation* (Springer)

Editorial Board, *The Clinical Journal of Pain* (Wolters Kluwer/Lippincott, Williams, and Wilkins)

Editorial Board, *Practical Pain Management* (PPM Communications)

Editorial Board, *Rehabilitation Psychology* (American Psychological Association)

Editorial Board, *Community Dentistry and Oral Epidemiology* (Wiley-Blackwell)

Editorial Head for Pain Section, *Psychological Injury and Law* (Springer)

**James P. Grover, Biology**

Associate Editor, *Ecology Letters* (Wiley-Blackwell)

**Chien-Pai Han, Mathematics**

Associate Editor, *Communications in Statistics: Theory and Methods* (Taylor and Francis)

Associate Editor, *Journal of Statistical Research* (Institute of Statistical Research and Training, University of Dhaka, Bangladesh)

Associate Editor, *Journal of Applied Probability and Statistics* (Dixie W. Publishing Corporation)

Editorial Board, *Journal of Probability and Statistical Science* (Susan Rivers' Cultural Institute, Hsinchu, Taiwan, China)

**John M. Holbrook, Earth and Environmental Sciences**

Associate Editor, *Marine and Petroleum Geology* (Elsevier)

**Andrzej Korzeniowski, Mathematics**

Editorial Board, *SAA: Stochastic Analysis and Applications* (Taylor and Francis)

Coordinating Editor, *JPSS: Journal of Probability and Statistical Science* (Susan Rivers' Cultural Institute, Hsinchu, Taiwan, China)

**Daniel S. Levine, Psychology**

Action Editor, *Cognitive Systems Research* (Elsevier)

Editorial Board, *Neural Networks* (Elsevier)

**Ren-Cang Li, Mathematics**

Associate Editor, *SIAM Journal on Matrix Analysis and Applications* (Society for Industrial and Applied Mathematics)

Associate Editor, *Mathematical Communications* (University of Osijek, Croatia)

Associate Editor, *Numerical Algebra, Control and Optimization* (American Institute of Mathematical Sciences)

**Chaoqun Liu, Mathematics**

Special Issue Associate Editor, *Modeling and Simulation in Engineering* (Hindawi Publishing)

**Roger L. Mellgren, Psychology**

Editorial Advisory Board, *International Journal of Comparative Psychology* (International Society of Comparative Scholarship)

**Zdzislaw E. Musielak, Physics**

Editorial Board, *Advances of Astronomy* (Hindawi Publishing Corp.)

Editorial Board, *Journal of Modern Physics* (Scientific Research Publishing)

Editorial Board, *The Cosmos Portal* (Digital Universe)

**Paul B. Paulus, Psychology**

Editorial Board, *Journal of Applied Social Psychology* (Wiley-Blackwell)

Editorial Board, *Small Group Research* (Sage)



**Krishnan Rajeshwar, Chemistry**

Editor, *Interface* (The Electrochemical Society)

Advisory Board, *Journal of Applied Electrochemistry* (Springer)

Advisory Board, *Journal of Electrochemical Science and Technology* (Korean Electrochemical Society)

**Asok K. Ray, Physics**

Editor, *Journal of Nano Energy and Power Research* (American Scientific Publishers)

Associate Editor, *Journal of Nanoscience and Nanotechnology* (American Scientific Publishers)

Associate Editor, *Journal of Computational and Theoretical Nanoscience* (American Scientific Publishers)

Editorial Board, *Transport Theory and Statistical Physics* (Taylor and Francis)

Editorial Advisory Board, *Recent Patents on Materials Science* (Bentham Science Publishers)

**Zoltan A. Schelly, Chemistry and Biochemistry**

Advisory Board, *Journal of Molecular Liquids* (Elsevier)

Chair of the International Advisory Board, *ELOPTO Conference Series* (Colloidal and Molecular Electro-Optics)

**Kevin A. Schug, Chemistry and Biochemistry**

Editorial Advisory Board, *Journal of Separation Science* (Wiley-VCH)

Editorial Advisory Board, *LCGC North America: A Bi-monthly E-newsletter Covering Chromatography Topics, Techniques, and Applications* (Advanstar)

**Jianping Zhu, Mathematics**

Editorial Board, *Electronic Journal of Differential Equations* (Mathematics Department, Texas State University-San Marcos)

Editorial Board, *International Journal of Computational Science and Engineering* (Inderscience Publishers)

Editorial Board, *International Journal of Mathematics in Operational Research* (Inderscience Publishers)

**PATENTS****Daniel W. Armstrong, Chemistry and Biochemistry**

Daniel W. Armstrong and Jie Ding

*Optically Enhanced Chiral Ionic Liquids*. U.S. Patent 7,776,582. Aug. 17, 2010.

The invention relates to the use of optically enhanced chiral ionic liquids, particularly for gas chromatography and as a reaction solvent. Specific optically enhanced chiral cationic liquids are described, as is a class of optically enhanced chiral anionic liquids.

**H. V. Rasika Dias, Chemistry and Biochemistry****Lorraine G. Van Waasbergen, Biology (2008)**

H. V. Rasika Dias, Lorraine G. Van Waasbergen, and Jaime A. Flores.

*Poly-Halogenated Triazapentadiene Compositions*. U.S. Patent 7,667,077. Feb. 23, 2010.

A new class of fluorinated or polyhalogenated triazapentadienes are disclosed. The synthesized triazapentadienes are thermally stable, soluble in typical solvents, and have several metal binding sites for complexation with metal ions. The compounds are prepared as colorless crystalline solids. Synthesis takes advantage of a reaction with triethylamine. Synthesized triazapentadienes (with and without complexed metals) inhibit bacterial growth of both Gram-positive and Gram-negative bacteria.

# SCHOOL OF SOCIAL WORK

## BOOKS

### **Fran S. Danis, Social Work**

*Domestic Violence: Intersectionality and Culturally Competent Practice*

Edited by Lettie L. Lockhart and Fran S. Danis.

New York, NY: Columbia University Press, 2010

Experts working with 12 unique groups of domestic abuse survivors provide the latest research on their populations and use a case study approach to demonstrate culturally sensitive intervention strategies. Chapters address African Americans, Native Americans, Latinas, Asian and Pacific Islanders, persons with disabilities, immigrants, refugees, women in later life, LGBT individuals, and military couples. Other topics include domestic violence in rural environments and among teens, and the role of religion.

### **Doreen Elliott, Social Work**

*Immigration Worldwide: Policies, Practices, and Trends*

Edited by Uma A. Segal, Doreen Elliott, and Nazneen S. Mayadas

New York, NY: Oxford University Press, 2010

This volume explores current patterns and policies of immigration in key countries and regions across the globe and analyzes the implications for these countries and their immigrant populations. Each of its chapters, written by an international and interdisciplinary group of experts, explores how country conditions, policies, values, politics, and attitudes influence the process of immigration and subsequently affect immigrants, migration, and the nation itself.

### **Ski Hunter, Social Work**

*Effects of Conservative Religion on Lesbian and Gay Clients and Practitioners: Practice Implications*

Washington, D.C.: National Association of Social Workers Press, 2010

Heterosexism plays a key role in the views of conservative churches about lesbian and gay people. Hunter's book offers a comprehensive study of the effects that conservative religious views have on gay and lesbian clients and on the social service practitioners who work with them. The focus is twofold: First, many lesbian and gay clients who come from conservative religious backgrounds are still religious, and religious organizations are prevalent in their communities. Their religious background may keep them from completing the coming out process. Second, social workers who grow up in conservative religious environments can experience difficulties themselves—and create difficulties for those they serve—if they bring their religious views of lesbian and gay people into practice with them.

### **Catheleen Jordan, Social Work**

*An Introduction to Family Social Work, third edition*

Donald Collins, Cathleen Jordan, and Heather Coleman

Pacific Grove, CA: Brooks/Cole, Cengage, 2010

This book provides a strong foundation in the concepts and skills students need to succeed as future social work professionals. Designed for students who will work with families, but not necessarily continue with advanced family therapy training, the text features engaging case studies, end-of-chapter exercises, illustrations, and graphics to help students master the material.

### **Vijayan K. Pillai, Social Work**

*Women's Reproductive Health in Yemen*

T. S. Sunil and Vijayan Pillai

Amherst, NY: Cambria Press, 2010

Yemen is one of the poorest Arab countries, and its birth and population growth rates are also among the world's highest. Additionally, maternal deaths account for about 42 percent of all deaths among Yemeni women between the ages of 15 and 49, and its infant mortality rate is one of the highest in the world. Although the government recognizes population growth as a major challenge to development, little

progress has been made in implementing population policy, and societal consensus remains elusive. This study focuses on the three components of fertility: intercourse, conception, and gestation. In addition, it reveals the previously underappreciated role of abortion in contributing to the first stages of fertility decline.

**Philip R. Pople, Social Work**

*Policy-Based Profession: An Introduction to Social Welfare Policy Analysis for Social Workers, fifth edition*

Philip R. Pople and Leslie Leighninger

Boston, MA: Allyn and Bacon, 2010

This social welfare policy text shows the crucial connection between social policy and the everyday practice of social work and encourages the development of policy analysis skills. The book is part of the Connecting Core Competencies Series, designed to guide students in becoming skilled at the core competencies as delineated by the Council on Social Work Education Educational Policy and Accreditation Standards.

**JOURNAL/BOOK SERIES EDITORIAL CONTRIBUTIONS**

**Richard Hoefler, Social Work**

Editor, *Journal of Policy Practice* (Routledge)

**Peter J. Lehmann, Social Work**

Editorial Board, *Journal of Trauma, Aggression, and Maltreatment* (Routledge)

Editorial Board, *Partner Abuse* (Springer)

**Vijayan K. Pillai, Social Work**

Editor, *Social Development Issues* (Lyceum Press)

Editor, *Social Development Issues* (Southwest Missouri State University in cooperation with the Inter-University Consortium for International Social Development IUCISD)

Associate Editor, *The Social Science Journal* (Elsevier)

Associate Editor, *International Journal of Sustainable Society* (Inderscience)

Honorary Editorial Board, *Open Access Journal of Contraception* (Dove)

Editorial Board, *African and Asian Studies* (Brill)

**Scott D. Ryan, Social Work**

Editor-in-Chief, *Adoption Quarterly* (Routledge)

Consulting Editor, *Children and Adolescent Social Work Journal* (Springer)

Editorial Board, *Journal of GLBT Family Studies* (Routledge)

**Richard J. Schoech, Social Work**

Editor, *Journal of Technology in Human Services; incorporating Computers in Human Services* (Routledge)

Editorial Board, *Journal of Community Practice* (Association for Community Organization and Social Administration)

Editorial Board, *Currents* (University of Calgary Press)

Editorial Board, *JCR: The Journal of CyberTherapy and Rehabilitation* (Virtual Reality Medical Institute (VRMI Belgium))

# SCHOOL OF URBAN AND PUBLIC AFFAIRS

## JOURNAL/BOOK SERIES EDITORIAL CONTRIBUTIONS

### **Ardeshir Anjomani, City and Regional Planning**

Associate Editor, *International Journal of Society Systems Science* (Inderscience)

Editorial Board, *Journal of Architectural and Planning Research* (Locke Science Publishers Inc.)

Editorial Board, *International Journal of Sustainable Society* (Inderscience)

### **Enid Arvidson, City and Regional Planning**

Editorial Board, *Review of Radical Political Economics* (Sage)

### **Richard L. Cole, Public Affairs**

Editorial Board, *Publius* (Oxford)

Book Review Editor, *Publius* (Oxford)

### **Stuart Henry, Interdisciplinary Studies**

Co-editor, *Western Criminological Review* (Western Society of Criminology)

Editorial Board Member, *Issues in Integrative Studies* (Association for Integrative Studies)

Editorial Board Member, *Theoretical Criminology* (Sage)

Editorial Board Member, *Critical Criminology* (Springer)

Series Editor, *Library of Essays in Theoretical Criminology* (Ashgate)

### **Sherman M. Wyman, Urban and Public Affairs**

Editorial Board, *Journal of International Public Administration* (Routledge)

## LIBRARY

### AWARDS

#### **Gerald D. Saxon, Library and History** (see also Liberal Arts)

*Alicia Wilkerson Smotherman Faculty Award*

### BOOKS

#### **Gerald D. Saxon, Library and History**

*Collecting Texas: Essays on Texana Collectors and the Creation of Research Libraries*

Compiled and edited by Gerald D. Saxon and Thomas H. Kreneck

Dallas, TX: The Book Club of Texas, 2010

The book focuses on individuals who have been zealous book, map, and manuscript collectors and whose collections formed the basis of university, private, and museum libraries across Texas. It includes an introduction and nine chapters by various authors, each focusing on an individual or couple (as in the case of Jenkins and Virginia Garrett) who have left an indelible mark on Texas by leaving their collections to institutions that make them available to the public. For example, there are chapters on George A. Hill Jr., whose collection formed the basis of the library at the San Jacinto Museum; William E. Howard, who helped to enrich the Daughters of the Republic of Texas Library at the Alamo; and the Garretts, who have had such a positive impact on the library at UT Arlington.

## EXHIBITS

### **Ben W. Huseman, Library Special Collections**

### **Erin O'Malley, Library Special Collections**

*Charting Chartered Companies: Concessions to Companies as Mirrored in Maps, 1600-1900: An Exhibition in Conjunction with the 2010 Virginia Garrett Lectures on the History of Cartography*, Virginia Garrett Cartographic History Library, Special Collections, Arlington, TX. Aug. 23, 2010-Jan. 8, 2011

The Seventh Biennial Virginia Garrett Lectures on the History of Cartography were held in conjunction with the Joint Fall Meeting of the Texas Map Society and the International Cartographic Association. A major display of maps related to the programs was exhibited in the Library. Ben Huseman, archivist, selected the maps and researched and wrote the exhibit guide, which was designed by University Publications. Erin O'Malley, exhibit designer, mounted the exhibit.

### **Kristin M. Swenson, Digital Library Services**

*girlShow2010–The Perfect Ten*, Dallas, TX. July 9-10, 2010

The *girlShow2010–The Perfect Ten* was a juried exhibit by ArtLoveMagic in Dallas featuring live art, a fashion show, visual art in all formats, modern dance performances, interactive art, music, handmade art objects for sale, and more. Swenson contributed a multimedia assemblage entitled *past.present.future....* It consisted of assemblage art with abstract audio and video compositions that looped through a TV monitor from an outlet tapped into the back of the mannequin's head to show her thoughts).

## OUTREACH SERVICES AND COMMUNITY ENGAGEMENT

### AWARDS

### **Michele Bobadilla, Hispanic Student Success**

*Ultimate Latina, United States Hispanic Chamber of Commerce*

Bobadilla, senior associate vice president and assistant provost for Hispanic Student Success, was one of nine women recognized at the national convention in Dallas. Bobadilla, who also serves as senior associate vice president for outreach services and community engagement, was nominated by the Dallas Hispanic Chamber of Commerce for making higher education attainable through access and equity.

## ENGLISH LANGUAGE INSTITUTE

### BOOKS

### **Eunjung "E.J." Brown**

*NO Stress English*

Korea: NewRun Book Company, 2010

When Brown came to America to get her master's degree in Teaching English as a Second or Other Language, she had trouble communicating with Americans even though she taught English for six years in Seoul, Korea. She realized that in order to learn *real* English she needed to experience American culture using the language. In her book, she provides readers with games, pictures, humorous text, and more to help them learn the language.

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