

CELEBRATION OF
Faculty Creative Works

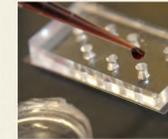
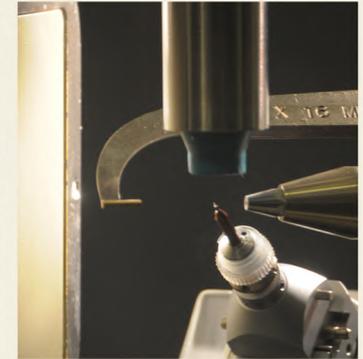
2009



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THE UNIVERSITY OF TEXAS AT ARLINGTON



*The Celebration of Faculty Creative
Works and accompanying exhibit are
dedicated to the faculty and staff whose
works are represented in this book.*



The University of Texas at Arlington Library and the Office of the Provost are pleased to host the second 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 2009.

This event was initiated by the Library to celebrate the depth and breadth of scholarship and creativity that take 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 EDITORIAL CONTRIBUTIONS

Kathryn Holliday

Special Issue Guest Editor, “Unraveling the Textile in Modern Architecture,” *Studies in the Decorative Arts* (Bard Graduate Center for Studies in the Decorative Arts)

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



COLLEGE OF BUSINESS

BOOKS

James Campbell Quick, *Management*

International Handbook of Work and Health Psychology, third edition

Edited by Cary L. Cooper, James Campbell Quick, and Marc J. Schabracq

Hoboken, NJ: Wiley-Blackwell Ltd., 2009

This well-established international reference handbook has been revised for a third edition with a new structure and blend of new and continuing chapter authors. The five parts of the handbook address the context of work and health today, individual differences in health, the role of workplace factors on health, providing support for individuals at work, and organizational approaches to health and well-being. J. Lee Whittington, Ph.D., an alum of the College of Business, contributed an important chapter on management development for well-being and survival that was anchored in the whole-person concept.

Organizational Behavior: Science, the Real World and You, sixth edition

Debra Nelson and James Campbell Quick

Mason, OH: South-Western Cengage Learning, 2009

This latest edition of Nelson and Quick's leading text maintains a strong foundation in research and science related to individual-, interpersonal-, and organizational -level behavior in organizations. The emphases on globalization, a diverse workforce, and ethical integrity are continuing anchors. What is new in this edition is the introduction of diversity dialogues by Dr. Faye Cocchiara that identify “hot button” topics for classroom discussion on race, sex, gender, culture, and other important yet sensitive issues. In addition, this edition brings a stronger emphasis to the power of emotion in working and personal relationships.

ORGB Student Edition

Debra Nelson and James Campbell Quick

Mason, OH: South-Western Cengage Learning, 2009

This innovative version of Nelson and Quick's leading text uses the same overall content and structure as the other versions, one hardcopy and one paperback, yet it is edited into a faster-paced, more visual adaptation that focuses on context. The richer pedagogical features, such as experiential exercises and individual self-assessment challenges, are not featured in this disposable, paperback version of the text. All the content is present in a condensed form and without the classroom-enhancing features of the complete text.

Stress and Quality of Working Life: The Positive and the Negative

Edited by Ana Maria Rossi, James Campbell Quick, and Pam Perrewe

Charlotte, NC: Information Age Publishing, 2009

This book comes in two editions, one Portuguese-language edition for Brazil and one English-language edition for the United States and Europe. There are three sections in this edited volume and a total of 12 chapters. Section One includes five chapters by internationally renowned authors who examine the individual and organizational costs of occupational stress. Section Two includes three chapters addressing how to mitigate the negative effects of stress; the first, written by Marilyn Macik-Frey and her coauthors from the Goolsby Leadership Academy, is about leadership from a positive health perspective. Section Three includes four chapters examining work-life quality, the first of which is by Bob Gatchel and Andy Baum from UT Arlington's Department of Psychology; it concerns biobehavioral mediators of stress and quality of life in occupational settings.

JOURNAL EDITORIAL CONTRIBUTIONS

Myrtle P. Bell, Management

Associate Editor, *Learning & Education* (Academy of Management)
Professional Insights Editor, *Equality, Diversity and Inclusion* (Emerald Group)
Editorial Review Board, *Group & Organization Management* (Sage)

John D. Diltz, Finance

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

James Campbell Quick, Management

Editorial Board, *Organizational Dynamics* (Elsevier)
Editorial Board, *Journal of Management* (Sage)
Editorial Board, *British Journal of Management: An International Forum Advancing Theory and Research* (Wiley-Blackwell)
Editorial Board, *Journal of Leadership & Organizational Studies* (Sage)
Editorial Board, *Stress and Health* (Wiley InterScience)
Editorial Consultant, *Applied Psychology: An International Review* (Wiley-Blackwell)
Editorial Review Board, *Journal of Organizational Behavior* (Wiley InterScience)

Abdul Rasheed, Management

Associate Editor, *Group & Organization 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)

Salil K. Sarkar, Finance

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

Peggy E. Swanson, Finance

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



COLLEGE OF EDUCATION AND HEALTH PROFESSIONS

BOOKS

Jill E. Fox, Curriculum & Instruction

Art and Creative Development for Young Children, sixth edition
Jill E. Fox and R. Schirrmacher
Clifton Park, NY: Thomas/Delmar Learning, 2009

Art and Creative Development for Young Children, sixth edition, is written for preservice and in-service early childhood professionals in childcare, preschool, or kindergarten through third-grade settings. It is a comprehensive resource for establishing and implementing a developmentally appropriate art program. This text takes a child-centered approach to art education, covering important issues of creative experience like art and the developing child, special needs and diversity, and children's artistic development. Planning, developing, implementing, and evaluating art is also covered, with strategies for integrating art across the curriculum offered. In addition, the roles and strategies that facilitate children's artistic expression, evaluation, and assessment are covered in detail.

Nancy L. Hadaway, Curriculum & Instruction

What Every Teacher Should Know About English Language Learners
Nancy L. Hadaway, Sylvia M. Vardell, and Terrell A. Young
Boston, MA: Pearson, 2009

This book is part of the Allyn Bacon Longman series titled *What Every Teacher Should Know About...*. It focuses on English-language learners and provides the background information and techniques that teachers need to work effectively with the growing population of these students in schools.

Adrienne E. Hyle, Educational Leadership & Policy Studies

Women at the Top: What Women University and College Presidents Say About Effective Leadership (Pathways to Leadership Series)
M. Wolverton, B. L. Bower, and A. E. Hyle
Sterling, VA: Stylus, 2009

Much has been written about leaders and leadership. But we know little about women who fill this role. This book remedies this gap by presenting the reflections of nine women community college, college, and university presidents on what they see as key tenets of

leadership, illuminated by pivotal events in their careers. This book both breaks new ground and offers guidance for women who aspire to positions of leadership in any field of endeavor.

Lidia Morris, English Language Institute

Luis A. Rosado, Curriculum & Instruction

Desarrollo del Español para Maestros en Programas de Educación Bilingüe & CD

Arlington, TX: LM Company, 2009

The book provides an overview of the listening, speaking, reading, writing, and cultural components of the Spanish language. It identifies how cross-linguistic components of English and Spanish can affect the acquisition of Spanish in dual-language settings. It emphasizes the development of academic Spanish, which teachers need to understand to become effective content and language instructors in bilingual and dual-language programs. The book also provides an overview of the new Bilingual Target Language Proficiency Test required for initial bilingual teacher certification in Texas.

JOURNAL EDITORIAL CONTRIBUTIONS

Ann M. L. Cavallo, Curriculum & Instruction

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

Dannielle Joy Davis, Educational Leadership & Policy Studies

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

Guest Co-editor, *Black Women, Gender, and Families: A Women's Studies and Black Studies Journal* (University of Illinois Press)

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

Stephanie Daza, Curriculum & Instruction

Editorial Board, *Educational Studies* (American Educational Studies Association)

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)

Editorial Board, *ATT: Athletic Therapy Today* (Human Kinetics)

Jeanne M. Gerlach, Assistant Vice President & 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 of Teachers of English)

Christopher Kribs-Zaleta, Curriculum & Instruction

Associate Editor, *Mathematical Biosciences and Engineering* (American Institute of Mathematics and Beihang University)

Rhonda McClellen, Educational Leadership & Policy Studies

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

Marc Schwartz, Curriculum & Instruction

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

John A. Smith, Curriculum & Instruction

Editorial Board, *Literacy Research and Instruction: A Journal of the Association of Literacy Educators and Researchers* (College Reading Association)

Barbara Tobolowsky, Curriculum & Instruction

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

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



COLLEGE OF ENGINEERING

BOOKS

Sharma Chakravarthy, Computer Science & Engineering

Stream Data Processing: A Quality of Service Perspective

Sharma Chakravarthy and Qing Chun Jiang

Boston, MA: Springer-Verlag US, 2009

Traditional database management systems, widely used today, are not well-suited for a class of emerging applications, such as computer network management, homeland security, sensor computing, and environmental monitoring. These applications need to continuously process large amounts of streaming data and meet stringent response-time requirements. Support for handling quality-of-service metrics, such as response time, memory usage, and throughput, is central to any system proposed for the above applications. This book presents a new paradigm suitable for both stream processing and complex event processing. It covers a broad range of topics in stream data processing and includes detailed technical discussions of a number of proposed techniques.

Ramez Elmasri, Computer Science & Engineering

David Levine, Computer Science & Engineering

Operating Systems: A Spiral Approach

Ramez Elmasri, A. G. Carrick, and David Levine

Boston, MA: McGraw Hill Higher Education, 2009

Elmasri, Levine, and Carrick's spiral approach to teaching operating systems develops student understanding of various OS components early on and helps students approach the more difficult aspects of operating systems with confidence. While operating systems have changed dramatically over the years, most OS books use a linear approach that covers each individual OS component in depth, which is difficult for students to follow and requires instructors to constantly put materials in context. These authors do things differently, following an integrative or spiral approach to explaining operating systems. This approach alleviates the need for an instructor to jump ahead when explaining processes because it helps students completely understand a simple, working, functional system from the very beginning. This is more effective pedagogically, and it inspires students to continue exploring more advanced concepts with confidence.

Kamisetty Ramamohan Rao, Electrical Engineering

Wireless Multimedia Communications: Convergence, DSP, QoS, and Security

K. R. Rao, Zoran S. Bojkovic, and Dragorad A. Milovanovic

Boca Raton, FL: CRC Press, 2009

By blending coverage of wireless multimedia communications with convergence technologies, digital signal processing, quality of service, and security, this book provides a unified approach to introducing the full spectrum of engineering demands across all wireless networks and systems. The authors identify problems that cause information loss in point-to-point signal transmission through wireless channels and also discuss techniques for minimizing the information loss. They use examples that illustrate the differences in implementing various systems, ranging from cellular voice telephony to wireless Internet access. The book distills the underlying theory, concepts, and principles into a comprehensive resource.

JOURNAL EDITORIAL CONTRIBUTIONS

Ishfaq Ahmad, Computer Science & Engineering

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

Special Issue Guest Editor, "Video Surveillance," *IEEE Transactions on Circuits and Systems for Video Technology* (IEEE Circuits and Systems Society)

Special Issue Guest Editor, "Power-Aware Parallel and Distributed Systems (PAPADS)," *IEEE Transactions on Parallel and Distributed Systems* (IEEE Circuits and Systems Society)

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

Editorial Board, *Cluster Computing: The Journal of Networks, Software Tools, and Applications* (Springer)

Editorial Board, *Journal of Electrical and Computer Engineering* (open-access journal; Hindawi)

Wen S. Chan, Mechanical & Aerospace Engineering

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

Sajal Das, Computer Science & Engineering

Editor-in-Chief, *Pervasive and Mobile Computing (PMC) Journal* (Elsevier)
Editor-in-Chief, *International Journal of Smart Home* (Science and Engineering Research Support Society)
Associate Editor, *IEEE Transactions on Mobile Computing* (IEEE Computer Society)
Associate Editor, *IEEE Transactions on Parallel and Distributed Systems* (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)
Technical Award, IEEE Computer Society, 2009

Brian H. Dennis, Mechanical & Aerospace Engineering

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

Abdolhossein Haji-Sheikh, Mechanical & Aerospace Engineering

Advisory Board, *Inverse Problems in Science and Engineering* (Taylor & Francis)
Editorial Advisory Board, *Numerical Heat Transfer, Part A: Applications* (Taylor & Francis)
Editorial Advisory Board, *Numerical Heat Transfer, Part B: Fundamentals* (Taylor & Francis)

Frank L. Lewis, Automation & 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 & Francis)
Series Editor, *Automation and Control Engineering* (CRC Press Book Series)

Frank K. Lu, Mechanical & Aerospace Engineering

Editor-in-Chief, *Progress in Astronautics and Aeronautics* (American Institute of Aeronautics and Astronautics Books Series)
Editor, *Shock Wave and High Pressure Phenomena* (Springer Book Series)
Editorial Board, *International Journal of Aerospace Innovations* (Multi-Science Company Ltd)
Editorial Board, *Shock Waves: An International Journal on Shock Waves* (Springer)

Anand J. Puppala, Civil Engineering

Associate Editor, *Journal of Materials in Civil Engineering* (American Society of Civil Engineers)
Editorial Board, *ASCE Journal of Geotechnical and Geoenvironmental Engineering* (American Society of Civil Engineers)
Editorial Board, *Geotechnical Testing Journal* (ASTM International)
Editorial Board, *Ground Improvement* (International Society of Soil Mechanics, Institution of Civil Engineering)

Gergely V. Zaruba, Computer Science & Engineering

Special Issue Co-Editor, *Pervasive and Mobile Computing: Best Papers of PerCom 2008* (IEEE International Conference on Pervasive Computing and Communication) (Elsevier)
Area Editor, *Computer Communications* (Elsevier)

PATENTS

Howard T. Russell, Electrical Engineering

Ronald L. Carter, Electrical Engineering

Wendell A. Davis, Electrical Engineering

Howard T. Russell, Ronald L. Carter, and Wendell A. Davis
Current Mirror Circuit U.S. Patent 7,636,016. Dec. 22, 2009.

An all-NPN bipolar-junction current mirror circuit for mirroring an input reference current is disclosed. The circuit includes an input stage for providing an input reference current to the current mirror circuit, a reference stage for mirroring the input reference current, and an output stage electrically connected to the reference stage for providing the mirrored input current to at least one load.

Frank L. Lewis, Automation & Robotics Research

Dan O. Popa, Automation & Robotics Research

Bruno Borovic, Frank L. Lewis, Qun Liu, and Dan O. Popa
Systems and Methods for Improved Control of Micro-Electrical-Mechanical System (MEMS) Electrostatic Actuator. U.S. Patent 7,548,011. June 16, 2009.

Methods and apparatuses for sensing and adjusting lateral motion in a comb-drive-actuated MEMS device are provided. If lateral motion is sensed by a lateral motion sensor coupled to the comb-drive-actuated MEMS device and the lateral motion is greater than a reference value, a feedback controller adjusts the lateral motion by providing a drive signal to a comb-drive electrode of a comb-drive actuator.

Meng Tao, Nanofab Center

Meng Tao and Wiley P. Kirk

Suppression of Chemical Reactivity on Semiconductor Surfaces . U.S. Patent 7,504,155. March 17, 2009.

The present invention relates generally to compositions, kits, and methods of providing improved semiconductor surfaces free of both dangling and strained bonds. One method provides for preventing interfacial reactions between a semiconductor surface and metal or dielectric comprising the steps of preparing a passivated semiconductor surface using a valence-mending agent and depositing a layer of metal or dielectric on the valence-mended semiconductor surface. As further described, a semiconductor surface free of interfacial reactions between the surface and a second molecular species may include a semiconductor surface with one atomic layer of valence-mending atoms, wherein valence mending occurs after introducing the semiconductor surface to a passivating agent. The present invention also includes a kit for preventing interfacial reactions from occurring on a semiconductor surface comprising a passivating agent and an instructional manual.

Meng Tao and Muhammad Y. Ali

Modification of Semiconductor Surfaces in a Liquid . U.S. Patent 7,534,729. May 19, 2009.

Compositions and methods are provided herein that include modifications to at least one surface of a silicon-based semiconductor material. Modifications occur in a liquid and comprise alterations of surface states, passivation, cleaning, and/or etching of the surface, thereby providing an improved surface to the semiconductor material. Modifications of surface states include reduction or elimination of an electrically active state of the surface, wherein, at the atomic level, the surface-binding characteristics are changed. Passivation includes the termination of dangling bonds on the surface of the semiconductor material.

Michael Vasilyev, Electrical Engineering

Michael Vasilyev and Taras L. Lakoba

Multi-Channel All-Optical Signal Processor. U.S. Patent 7,505,690. March 17, 2009.

This patent was awarded for an all-optical processor and method for simultaneous 2R regeneration of the multiple wavelength-division-multiplexed (WDM) channels comprising a nonlinear medium, wherein the nonlinear medium comprises one or more highly-nonlinear fiber (HNLF) sections adapted to receive multiple WDM channels from the input, and wherein further the HNLF sections are separated by one or more periodic-group delay devices. The all-optical processor may also include one or more amplifiers adapted to receive the multiple WDM channels; one or more de-interleavers adapted to separate the WDM channels into one or more sets of WDM channels; one or more optical

band-pass filters to filter the channels received from the amplifier; one or more optical band-pass filters to filter the channels received from the non-linear medium; and one or more interleavers to receive the filtered channels from the periodic band-pass filter and to combine the sets of WDM channels into an output.

Gergely V. Zaruba, Computer Science & Engineering

Manfred Huber, Computer Science & Engineering

Farhad A. Kamangar, Computer Science & Engineering

David Levine, Computer Science & Engineering

Gergely V. Zaruba, Manfred Huber, Farhad A. Kamangar, and David Levine

Location and Tracking System Using Wireless Technology . U.S. Patent 7,592,909. Sept. 22, 2009.

A system for locating one or more objects is the focus of this patent. The system includes one or more objects having an unknown location. Each object is composed of at least one mobility sensor for providing sensory information about the object, a wireless communications package for providing received signal strength indication (RSSI), and a processing unit for transmitting data about the object. The data includes the sensory information and RSSI. The system also includes at least one receiver for the data about each object and at least one algorithm to process the data and identify a location estimate about each object, thereby locating one or more objects having an unknown location.

Weidong Zhou, Nanofab Center

Encapsulated Photonic Crystal Structures U.S. Patent 7,505,653. March 17, 2009

Photonic crystal structures having a plurality of air columns and coating such structures to provide structures with improved performance are described. The coating includes a material that coats an uppermost portion of a photonic crystal structure, wherein the photonic crystal structure comprises a plurality of air columns and wherein the plurality of air columns are coated on their uppermost surface by the coating material.



COLLEGE OF LIBERAL ARTS

BOOKS AND MUSIC

Thomas Adam, History

Buying Respectability: Philanthropy and Urban Society in Transnational Perspective, 1840s to 1930s

Bloomington, IN: Indiana University Press, 2009

In 19th-century Leipzig, Toronto, New York, and Boston, a newly emergent group of industrialists and entrepreneurs entered into competition with older, established elite groups for social recognition as well as cultural and political leadership. The competition was played out on the field of philanthropy, with the North American community gathering ideas from Europe about the establishment of cultural and public institutions. The process of cultural borrowing and intercultural transfer shaped urban landscapes with the building of new libraries, museums, and social housing projects. An important contribution to the relatively new field of transnational history, this book establishes philanthropy as a prime example of the conversion of economic resources into social and cultural capital.

Two Boston Brahmins in Goethe's Germany: The Travel Journals of Anna and George Ticknor

Lanham, MD: Lexington Book, 2009

This volume includes the travel logs of Anna and George Ticknor from two journeys to the German Confederation from 1815 to 1817 and from 1835 to 1836. As members of an exclusive social class, the Ticknors enjoyed the privilege of traveling and living for an extended period in the German-speaking world, which conferred much-sought-after cultural and social distinction on them in Boston. A valuable primary source for American and German historians alike, these journals offer insight into the construction of American identities, as well as outside perspectives on German society, culture, and politics in the Age of Goethe. Simultaneously and independently composed by this husband and wife, these journals are the only known case of parallel male and female travel writing, thus affording a unique opportunity to explore gender as a factor in shaping their perceptions. A biographical glossary and extensive explanatory footnotes make this text accessible to a wide audience.

Stifter, Spender, und Mäzene: USA und Deutschland im historischen Vergleich (Philanthropists, Donors, and Patrons: American and German Civil Society in Comparison)

Edited by Thomas Adam, Simone Lässig, and Gabriele Lingelback Stuttgart, Germany: Franz Steiner Verlag, 2009

This volume compares central aspects of American and German civil society over the course of the 19th and 20th centuries. To this end, the editors structured this book into five comparative chapters on the topics of transatlantic transfers, the relationship between foundations and the state, elites and philanthropy, the private support of cultural institutions, and American and German support for projects in developing countries. The contributions to this volume challenge the notion of American or German exceptionalism. They document how American and German societies were connected by extensive intercultural transfers that resulted in civil societies that shared more commonalities than differences.

Ben Agger, Sociology & Anthropology

The Sixties at 40: Leaders and Activists Remember & Look Forward

Boulder, CO: Paradigm Publishers, 2009

Millions of people were involved in or influenced by the protest and social change movements of the 1960s. Today, they are moms, dads, even grandparents. They are teachers, architects, artists, and entrepreneurs. Having intimations of mortality, they are searching for their identities: what formed them and why they have become who they are. Based on recent interviews, this unique '60s book brings together the voices of the Left leaders who spawned the '60s movements. Many remain activists today, and experience and the passage of time allow them to transcend nostalgia to form more realistic perspectives on the past, present, and future. They discuss the civil rights and antiwar movements, the political outcome of the '60s, patriotism, terror, and the role of young people in the future. Important gains were made during the '60s, but there were many setbacks, too, that influence today's voters, leaders, candidates, and day-to-day realities. The '60s of this book is not simply a sweet memory of marijuana and album rock; it's also a time of many casualties, including innocence and youthful idealism.

Robert L. Bing, Criminology & Criminal Justice

Race, Crime, and the Media

New York, NY: McGraw Hill, 2009

Race, Crime, and the Media encourages students to think critically about the realities of the criminal justice system, the media, and race. Through a collection of original readings that address the subject in a way that is balanced and provocative, the book makes students aware of the power and influence of the media and the role it plays in the characterization of racial minorities involved in crimes. This book represents an effort to draw attention to the intersection of race, crime, and the media by raising questions about the influence of the media on how we think.

Graham Hunt, Music

Ever New Formal Structures: The Evolution of the Dialogue-Scene in Wagner's Lohengrin

Saarbrücken, Germany: Verlag, 2009

Wagner once declared that the formal layout of his opera *Lohengrin* was “bound to lead to ever new formal structures along the road which I myself have opened up.” The three dialogue scenes in *Lohengrin* reveal examples of these “new formal structures,” containing both recontextualized Romantic opera traditions and Wagner’s own innovative musical structures. Each of the three scenes represents a revolutionary construction for a dialogue scene: one a chain of aria-like numbers whose varying complexity creates a structural-dramatic rhetoric; another, a series of divergent monologue pairs; and the third, a dissolution of traditional forms. The analyses of these scenes in this book, contextualized within the tradition of previous German Romantic operas, reveal Wagner’s first concrete steps toward his new aesthetic ideal, in which music and drama cohere as two inseparable halves of one artistic whole.

Harry P. Reeder, Philosophy & Humanities

Arguing with Care: Dialectic for a Democratic Society

Dubuque, IA: Kendall Hunt Publishing Company, 2009

This is a textbook for courses in critical thinking, developed by the author over more than 30 years of teaching the course, mostly at UT Arlington. The book focuses upon the *activity* of arguing, including the logic, the rhetoric, and the ethics of social and political persuasion. It was developed in light of many elicited student comments on the content of the course and the text, and in this sense is a collaborative effort with the students.

La globalización y la fenomenología del lenguaje (Serie Fenomenología, No. 10)

Morelia, México: Jitanjáfora Morelia Editorial, 2009

The book’s title in English is *Globalization and the Phenomenology of Language*. The book—which contains six research essays presented at meetings of the International Philosophy Conference, Universidad Rafael Landívar, Guatemala City, during the years 2000-2005—deals with the pressures of globalization in relation to the topics of education, politics, and culture. It addresses the topic from the perspective of phenomenology, putting special emphasis on the results of phenomenological analysis (by Reeder and others) into the nature of the relation between words, concepts, individual languages, and cross-cultural communication.

Ser y sentido: Teoría y práctica de una fenomenología transcendental-hermenéutica

Harry P. Reeder and Germán Vargas Guillén

Bogotá, Columbia: Editorial San Pablo, 2009

The book’s title in English is *Being and Meaning: The Theory and Practice of a Transcendental-Hermeneutic Phenomenology*, and it contains an analysis of various issues surrounding the relation between language and meaning (which is partially extralinguistic) in light of the relation between the movements known as “transcendental phenomenology” (which emphasizes the importance of language and interpretation in phenomenology) and “hermeneutic phenomenology” (which emphasizes the role of the introspective examination of experience in phenomenology). The central argument is that the living of language and meaning require both a transcendental and a hermeneutic treatment.

Antoinette Sol, Modern Languages

Le Mulâtre by Aurore Cloteaux (pseudonyme d’Honoré de Balzac et A. Lepoitevin de l’Égreville)

Introduced and edited by Antoinette Sol and Sarah Davies Cordova

Paris, France: Harmattan, 2009

Lying at the intersection of two aesthetics, *Le Mulâtre* leaves the aspirations of 18th-century *philosophes* behind in favor of the darker Romantic visions of the 19th century, transforming the sensibility of the noble savage devoted to his master into the ignominious image of the primitive “negro.” This *négre*, although physically free, suffers from an emotional and social enslavement as the narrative traces his rapid descent into insanity. Driven mad by social taboos, the protagonist’s pain manifests itself in the most violent transgressions of these taboos: rape, murder, and incest. The eponymous fruit of *Le Mulâtre* is living proof of the early 19th century’s fear of the presumed dangers of racial hybridity. This danger is played out in the narrative’s frenetic race toward its gothic conclusion.

EXHIBITS, MUSIC, MOTION GRAPHICS, AND INTERACTIVE WORKS

Dan Cavanagh, Music

“Confronting Inertia.” John Adler, with a composition by Dan Cavanagh. Seattle, WA: Origin Classical, 2009

“Strange Wonderful.” University of Northern Iowa Jazz Band. Self-published by the Jazz Program, 2009

“Get ‘R’ Done” (arranged for jazz big band) sheet music. Pismo Beach, CA: Walrus Music, 2009

“Mississippi Ecstasy” (for jazz big band). Pismo Beach, CA: Walrus Music, 2009

Narrator, “Good Morning to All” (arrangement) by Hill and Hill. Pismo Beach, CA: Walrus Music, 2009

“From the Barrage Comes Clarity,” International Competition, National Academy of Music, Greece, November–December 2009. Received Certificate of Mastery in Music Composition and a Gold Medal of Distinction.

Mark Clive, Art & Art History

Dr. Pepper—Commercial for television. Bottom Line Productions, February 2009. Motion graphics for the nationally distributed soft drink, Dr. Pepper.

Lisa Graham, Art & Art History

New Generation—2009 International Graphic Design Invitational Exhibition, University College of Design, Cheonan, South Korea, Nov. 10–14, 2009

11th Annual Abstraction Juried Online International Exhibition, Upstream People Gallery, Oct. 1–31, 2009. Special recognition award mentioned in juror’s statement; 68 artists selected from 374 entrants.

Robert Grame, Art & Art History

New Generation—2009 International Graphic Design Invitational Exhibition, University College of Design, Cheonan, South Korea, Nov. 10–14, 2009

What the World Needs, Forum Mazartplatz, Vienne, Austria, 2009

The Fourth *United Designs*, Biennial International Design Exhibition, Korean Society of Experimentation in Design and the Applied Science University Faculty of Arts and Design, Los Angeles, CA, 2009

John Hartley, Art & Art History

New American Paintings 2009 Western Edition, Wichita Falls Museum of Art, Open Press, Juried, Wichita Falls, TX, October–November, 2009

Sedrick Huckaby, Art & Art History

A Love Supreme, Danforth Museum of Art, Framingham, MA; Nielsen Gallery, Boston; and the McKinney Avenue Contemporary, Dallas, TX, 2009

Marilyn Jolly, Art & Art History

Conversation. Consejo Grafico Mexican American Cultural Center, Austin, TX, Nov. 1–22, 2009

David Keens, Art & Art History

Glass Unexpected, Space 301, Mobile, AL, Jan. 9–March 8, 2009. National invitational exhibition of 21 glass artists focused on nontraditional, concept-based glass art.

Judy Youens Gallery, Santa Fe, NM. Nationally known gallery specializing in the highest tier of national and international glass artists.

Stephen Lapthisophon, Art & Art History

Las Palabras en la Sombra de Esta Fecha, El Escaparate, Barcelona, Spain, 2009

Six Years Later, Unit B Gallery, San Antonio, TX, 2009

Artists Matt Hanner and Stephen Lapthisophon play off of each other conceptually by using their contrasting approaches to art-making to explore symbolic communication.

Slow, Conduit Gallery, Dallas, TX, 2009. Exhibition about loss; materials for the drawings included chocolate, coffee, tea, saffron, salt, sugar, and bacon fat.

Leighton McWilliams, Art & Art History

Tallahassee International 24th Annual Juried Competition, Florida State University of Art, Tallahassee, FL, Aug. 24–Sept. 27, 2009

Analogous, Runnels Gallery, Eastern New Mexico University, Portales, NM, Jan. 30–Feb. 25, 2009

Nancy Palmeri, Art & Art History

You are Here ... and Other Random Coordinates, Boise State University, SUB Gallery, Boise, ID, Dec. 10, 2009–Jan. 5, 2010. Featured the work of 21 North American artists working in the hand-printed media.

Nicholas Wood, Art & Art History

Malerei & Skulpturen, Galerie Palais, Walderdorff, Germany, May 29–June 28, 2009

THEATRE PRODUCTIONS

Elaine Bender, Theatre Arts

Michelle Harvey, Theatre Arts

Anne Healey, Theatre Arts

Joe Kongevick, Theatre Arts

Jared Land, Theatre Arts

Laurie Land, Theatre Arts

Mark Miller, Theatre Arts

David Navalinsky, Theatre Arts

The Robber Bridegroom, a musical based on Eudora Wealty's famous novella.

UT Arlington, March 4-8, 2009

This entry is to acknowledge faculty members whose creative work brought *The Robber Bridegroom* to life. They are as follows: Anne Healey, director; Michelle Harvey, set designer; Jared Land, lighting and sound; Laurie Land, costume designer; Mark Miller, music director and conductor; Elaine Bender, choreographer; Joe Kongevick, makeup designer; and David Navalinsky, production manager and technical director.

JOURNAL EDITORIAL CONTRIBUTIONS

Ben Agger, Sociology & 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, *Current Perspectives in Social Theory* (Emerald)

Advisory Board, Center for Digital Discourse and Culture

Stacey Alaimo, English

Editorial Board, *Fast Capitalism* (UT Arlington)

Robert B. Fairbanks, History

Editor for paper on the Americas, *Planning Perspectives* (International Planning Society by Routledge)

Wendy B. Faris, English

Editorial Board, *The Comparatist* (University of North Carolina Press)

Carolyn Guertin, English

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

Editorial Board, *Convergence: The International Journal of Research Into New Media Technologies* (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)

Bronze Merit Award, International Photography Competition, 2009

Kevin L. Gustafson, English

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

Susan Hekman, Political Science

Editorial Board, *Hypatia: A Journal of Feminist Philosophy* (Wiley InterScience)

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

Editorial Board, *Fast Capitalism* (UT Arlington)

Laurin R. Porter, English

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

Advisory Board, *The Horton Foote Review* (Horton Foote Society and the DeGolyer Library at Southern Methodist University)

Harry P. Reeder, Philosophy & Humanities

Permanent Editorial Board, *Orbis Phaenomenologicus* (Konigshausen & Neumann series)

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

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

International Editorial Board, *Anuario Colombiano de Fenomenología*

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)

Kenneth M. Roemer, English

Advisory Committee, *PMLA: Publications of the Modern Language Association* (Modern Language Association)

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

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

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

Web site Editor, *Covers, Titles, and Tables: The Formations of American Literary Canons* (UT Arlington)

Johanna M. Smith, English

Editor, 19th century section, *Gender and Genre* (Pickering & Chatto)

Editor, 19th century literature section, *Annotated Bibliography of English Studies* (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

BOOKS

Jean Weiler Ashwill

Maternal-Child Nursing, third edition

Emily Slone McKinney, Susan Rowen James, Sharon Smith Murray, and Jean Weiler Ashwill

St. Louis, MO: Saunders Elsevier, 2009

Engaging and easy to read, this concise textbook offers just the right level of maternity and pediatric nursing coverage. It provides a solid foundation in normal body function, then builds on that knowledge to help readers understand how to modify nursing care when the unexpected arises. Clear writing and interactive learning tools (including video and animation) reinforce key concepts and encourage readers to think critically and apply what they've learned. Features include highlighted “need-to-know” information, critical thinking exercises, illustrated procedure boxes, and more. New to this edition are Spanish translations for phrases commonly encountered with maternity and pediatric patients.

Nancy Burns

Susan K. Grove

The Practice of Nursing Research: Appraisal, Synthesis, and Generation of Evidence, sixth edition

St. Louis, MO: Saunders/Elsevier, 2009

The Practice of Nursing Research: Appraisal, Synthesis, and Generation of Evidence was developed for graduate students and practicing nurses to increase their excitement about research and to facilitate the development of evidence-based practice for nursing. It is critically important that all nurses, especially those in advanced-practice roles (nurse practitioners, clinical nurse specialists, nurse anesthetists, and nurse midwives) and administrative positions have an understanding of research and its link to the development of evidence-based practice. This textbook has received national recognition and was awarded Book of the Year by the *American Journal of Nursing* in 1987 and 1993. It is now the third-most-read nursing research textbook in the world and has provided direction to many graduate nurses in conducting their first studies. *The Practice of Nursing Research* is revised every four years to ensure that the content is current and provides a quality resource for nurses implementing evidence-based practice and conducting studies.

Study Guide for the Practice of Nursing Research: Appraisal, Synthesis, and Generation of Evidence, sixth edition

Susan K. Grove, Susanne Mohnkern, and Nancy Burns
St. Louis, MO: Saunders/Elsevier, 2009

The study guide for *The Practice of Nursing Research: Appraisal, Synthesis, and Generation of Evidence* provides many creative learning strategies to promote undergraduate and graduate students' ability to critically appraise studies, synthesize relevant empirical knowledge, and implement research evidence in practice. This study guide is organized into 29 chapters that are consistent with the chapters in the textbook and was developed to promote students' understanding of the textbook content. The learning strategies include crossword puzzles, matching items, multiple choice questions, essay questions, and exercises focused on critically appraising current quantitative and qualitative studies.

Patti Parker

Gerontological Nursing Review & Resource Manual, second edition

Paula Gillman, Patti Parker, and Patricia Tabloski
Silver Spring, MD: American Nursing Association, 2009

Written by nursing experts, the manual is designed to help candidates prepare for the certification exam by enhancing critical thinking skills and identifying strengths and weaknesses.

JOURNAL EDITORIAL CONTRIBUTIONS

Mindi Anderson

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

Susan K. Grove

Editorial Board, *Heart & Lung* (Elsevier)

Judy L. Leflore

Neonatal Editorial Board, *Journal of Neonatal and Perinatal Nursing* (Wolters Kluwer: Lippincott, Williams & Wilkins)

Mary E. Mancini

Editorial Board, *NurseWeek* (Gannett Education)

Editorial Board, *Currents in Emergency Cardiovascular Care* (American Heart Association, Citizen CPR Foundation)

Elizabeth C. Poster

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

Mary Schira

Editorial Board, *Nephrology Nursing Journal* (American Nephrology Nurses' Association)

Marilee Schmelzer

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

Diane Snow

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

Editorial Board, *Perspectives in Psychiatric Care* (Wiley-Blackwell)

R. Craig Stotts

Advisory Board, *Applied Behavior Science Press: Resources for Better Health* (online catalog)



COLLEGE OF SCIENCE

BOOKS

Constantin Corduneanu, Mathematics

Almost Periodic Oscillations and Waves

New York, NY: Springer, 2009

This text is well designed with respect to the exposition from the preliminary to the more advanced, with applications interwoven throughout. It provides the essential foundations for the theory as well as the basic facts relating to almost periodicity. In six structured and self-contained chapters, the author unifies the treatment of various classes of almost periodic functions while uniquely addressing oscillations and waves in the almost periodic case. The first half of the book lays the groundwork, noting the basic properties of almost periodic functions, while the second half of this work addresses applications that emphasize the solvability of ordinary or partial differential equations in the class of almost periodic functions.

Carl J. Franklin, Biology

The Complete North American Box Turtle

Carl J. Franklin and David C. Killpack

Rodeo, NM: ECO Herpetological Publishing, 2009

A compilation of the work of Carl J. Franklin and David C. Killpack, who have more than 30 years of field experience, this book is a resource for anyone interested in the natural history and husbandry of North American box turtles. It contains over 300 full color photos and illustrations.

William Ickes, Psychology

The Social Neuroscience of Empathy

Edited by Jean Decety and William Ickes

Cambridge, MA: MIT Press, 2009

The Social Neuroscience of Empathy is a collection of edited chapters that is premised on the idea that studying empathy at multiple levels (biological, cognitive, and social) will lead to a more comprehensive understanding of how other people's thoughts and feelings can affect our own thoughts, feelings, and behavior. In these cutting-edge contributions, leading advocates of the multilevel approach view empathy from the perspectives of social, cognitive, developmental, and clinical psychology, and cognitive/affective neuroscience.

Strangers in a Strange Lab: How Personality Shapes Our Initial Encounters With Others
Oxford, UK: Oxford University Press, 2009

Strangers in a Strange Lab explores the science of how personality characteristics determine how well—or how poorly—people get along together during their very first encounter. This book, the product of more than 30 years of study and scholarship, offers unprecedented insights into the links between personality and social behavior. It explains, for example, why men have been unfairly characterized as being clueless and unmotivated interaction partners, how opposite-sex siblings “teach” us during our childhood years how to charm the opposite-sex strangers we will meet later in college, how agreeable people manage to turn disagreeable ones into pleasant interaction partners, and why Latinos have an important social advantage in comparison to black and white people.

J. Ping Liu, Physics

Nanoscale Magnetic Materials and Applications

Edited by J. Ping Liu, E. Fullerton, O. Gutfleisch, and D. J. Sellmyer

New York, NY: Springer, 2009

Nanoscale Magnetic Materials and Applications covers exciting new developments in the field of advanced magnetic materials. Readers will find reviews of the current experimental and theoretical work on novel magnetic structures, nanocomposite magnets, spintronic materials, domain structure, and domain-wall motion, in addition to nanoparticles and patterned magnetic recording media. Cutting-edge applications in the field are described by leading experts from academic and industrial communities. These include new devices based on domain-wall motion, magnetic sensors derived from both giant and tunneling magneto resistance, thin film devices in micro-electromechanical systems, and nanoparticle applications in biomedicine. In addition to providing an introduction to the advances in magnetic materials and applications at the nanoscale, this volume also presents emerging materials and phenomena, such as magnetocaloric and ferromagnetic shape memory materials, which motivate future development in this exciting field.

Derek J. Main, Earth & Environmental Science

Occasional Papers of the Dallas Paleontological Society, Vol. 8

Edited by Derek J. Main

Dallas, TX: Dallas Paleontological Society, 2009

Contents include the “Arlington Archosaur Site Project” by Derek J. Main, Roger Fry, Phil Kirchhoff, and Arthur Sahlstein; “The Preliminary Report on a New Dinosaur Tracksite in the Lower Cretaceous of Parker County, North Central Texas” by Derek J. Main and Roger Fry; “New Data on the Occurrence and Distribution of *Ptychodus* from the Upper Cretaceous (Coniacian-Santonian) of Texas” by Shawn Hamm; “The History of Terrace Formation along Spring Creek, North Central Richardson, Texas” by James Cunliffe; “Discussion on the Late Pleistocene Boundary of North Central Texas with a Preliminary Report on the Pin Oak Creek Mammoth Site, Limestone County, Texas” by Thomas Vance and Jesse Todd; and “Ice Age Bears of Texas: Top Predators of the Pleistocene” by Thomas Vance.

Merlynd K. Nestell, Earth & Environmental Science

Stratigraphy and Conodont Biostratigraphy of the Upper Carboniferous and Lower Permian from the North American Midcontinent

Darwin R. Boardman II, Bruce R. Wardlaw, and Merlynd K. Nestell

Kansas Geological Survey, Bulletin 255, 2009

Part A contains a General Sequence Stratigraphy and Conodont Biostratigraphy (including new species) of the Uppermost Carboniferous (upper Gzhelian) to Lower Permian (lower Artinskian) from the North American Midcontinent. Part B covers Conodont Distribution, Systematics, Biostratigraphy, and Sequence Stratigraphy of the Uppermost Carboniferous and Lower Permian (uppermost Wabaunsee, Admire, Council Grove, and lower Chase Groups) from the North American Midcontinent.

Asok K. Ray, Physics

Probing 5f Electrons: A Relativistic DFT Study of Americium Surfaces: Behavior of 5f Electrons and Actinide Surfaces

Asok Ray and Pratik Dholabhai

Saarbrücken, Germany: Lambert Academic Publishing, 2009

Surface chemistry and physics are active fields of research because of the obvious scientific and technological implications. One of the many motivations for this burgeoning effort has been the desire to understand surface corrosion, metallurgy, and catalytic activity in order to address environmental concerns. In particular, such efforts are important for strongly correlated and heavy fermion systems like the actinides. In this work, atomic and molecular hydrogen and oxygen and water adsorptions on the (0001) surface of dhcp

americium have been studied at both non-spin-orbit coupling (NSO) and spin-orbit coupling (SO) levels using GGA-DFT.

Jianzhong Su, Mathematics

Jianping Zhu, Mathematics

Dynamical Systems and Differential Equations. Proceedings of the 7th AIMS International Conference (Arlington, TX May 18-21, 2008)

Edited by Xiaojie Hou, Xin Lu, Alain Miranville, Jianzhong Su, and Jianping Zhu
American Institute of Mathematical Sciences, 2009

The 7th AIMS Conference, hosted at UT Arlington, drew about 700 mathematicians and scientists from more than 70 countries and regions.

MEDIA

Manfred A. Cuntz, Physics

Levent Gurdemir, Physics

Amy L. Barraclough, Physics

Unseen Universe: The Vision of SOFIA

This is the Planetarium at UT Arlington's third original production. Gurdemir was director, Barraclough was the programmer, and Cuntz was the principal investigator and lead author. The production showcases the new NASA Mission “SOFIA” (Stratospheric Observatory for Infrared Astronomy) and its centerpiece, a new infrared 100-inch telescope housed in a refurbished Boeing 747SP aircraft. SOFIA is scheduled to begin operations in 2010 and will climb to altitudes ranging from 39,000 to 45,000 feet. This means it will leave behind 99 percent of the water vapor in the lower Earth's atmosphere that restricts the capabilities of ground-based observatories over most of the infrared and submillimeter spectral range. The UTA Planetarium Show on SOFIA—aimed at the general public as well as professionals—offers baseline information on the electromagnetic spectrum and features the observational potential of SOFIA regarding objects like extrasolar planets, star formation regions, and newborn galaxies of the early universe. It also contains information about the development of the SOFIA mission as well as background information about NASA politics related to the mission.

JOURNAL EDITORIAL CONTRIBUTIONS

Daniel W. Armstrong, Chemistry & Biochemistry

Associate Editor, *Analytical Chemistry* (American Chemical Society)

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

Editorial Advisory Board, *Scientia Chromatographia* (Compenas)

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

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

Editorial Advisory Board, *Chirality* (Wiley)

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

Andrew Baum, Psychology

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

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

Ira H. Bernstein, Psychology

Associate Editor, *Behavior Research Methods* (The Psychonomic Society)

Board of Cooperating Editors, *Educational and Psychological Measurement* (Sage)

Editorial Board, *International Journal of Hispanic Psychology* (Nova Science Publishers)

Paul Chippindale, Biology

Associate Editor, *Herpetologica* (Herpetologists' League)

Purnendu K. Dasgupta, Chemistry & 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 for Analytical Chemistry)

Advisory Board, *Talanta* (Elsevier)

Rasika H. Dias, Chemistry & Biochemistry

Advisory Board, *Inorganic Chemistry, Including Bioinorganic Chemistry* (American Chemical Society)

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 & Wilkins)

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

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

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

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

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

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

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

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

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

James P. Grover, Biology

Associate Editor, *Ecology Letters* (Wiley)

Andrzej Korzeniowski, Mathematics

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

Daniel S. Levine, Psychology

Action Editor, *Cognitive Systems Research* (Elsevier)

Editorial Board, *Neural Networks* (Elsevier)

Roger L. Mellgren, Psychology

Editorial Board, *International Journal of Comparative Psychology* (eScholarship, University of California)

Paul B. Paulus, Psychology

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

Editorial Board, *Small Group Research* (Sage)

Krishnan Rajeshwar, Chemistry

Editor, *Interface* (The Electrochemical Society)

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

Asok K. Ray, Physics

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 & Francis Publishers)

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

Zoltan A. Schelly, Chemistry & Biochemistry

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

Vice-Chair of the International Advisory Board, *ELOPTO Conference Series* (Colloidal and Molecular Electric-optics)

Kevin A. Schug, Chemistry & Biochemistry

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

PATENTS

Purnendu K. Dasgupta, Chemistry & Biochemistry

Purnendu K. Dasgupta, Petr Kuban, and Jordan Berg

Continuous Ion Species Removal Device and Method . U.S. Patent 7,582,482. Sept. 1, 2009.

This invention describes a continuous ion exchanger operating in a membraneless thin-film microscale.

Purnendu K. Dasgupta, Bingcheng Yang, Kannan Srinivasan, and Masaki Takeuchi

Barrier With Seated Ion Exchange Bead and Method . U.S. Patent 7,632,404. Dec. 15, 2009.

This patent is for an ion transport apparatus (e.g., an electrolytic eluent generator or a suppressor for ion chromatography) in which ions in the first chamber are transported to a liquid in a second chamber through a wall comprising an ion exchange bead sealed in a bead seat. The wall is capable of transporting ions and substantially blocking bulk liquid flow.

J. Ping Liu, Physics

Method for Maintaining Particle Size. U.S. Patent 7,608,158. Oct. 27, 2009.

The present invention includes particle compositions and methods of fabrication that prevent agglomeration, thereby maintaining particle size and/or shape. Particles of the present invention were prepared after embedding chemically disordered metal-containing particles in at least one salt to form a dispersion. The dispersion of particles in salt was treated to temperatures of at least 500 degrees Centigrade for several hours. Particles were easily recovered from the dispersion and did not agglomerate. The particles were also absent contaminating salts after performing simple washing and/or rinsing steps. Structural, compositional, and/or magnetic characterizations of the metal-containing particles confirmed that they had not agglomerated. When particles with an fcc structure formed a dispersion with at least one salt, the method yielded the formation of particles having an fct structure with high magnetic anisotropy and without a substantial change in size and/or shape. When desired, however, particles' shape and/or size may be changed.

Suresh C. Sharma, Physics

Suresh C. Sharma and Robert A. Ramsey

Switchable Holographic Gratings. U.S. Patent 7,625,674. Dec. 1, 2009.

The present invention includes systems and compositions of holographic grating structures devices and methods for fabricating such holographic grating structures. The method comprises the steps of preparing a composite mixture made of a polymerizable matrix, a liquid crystal, and a photo-oxidant dye, producing an interference pattern from two interference beams, wherein the two interference beams originate from a recording laser beam directed by a low energy laser, and projecting the interference pattern on the composite mixture to form a holographic grating structure. As described, the holographic grating structure yields a first-order diffraction efficiency of at least about 30 percent diffraction efficiency, which may be adjusted by the application of an electric field.



SCHOOL OF SOCIAL WORK

BOOKS

Beverly M. Black

Programs to Reduce Teen Dating Violence and Sexual Assault: Perspectives on What Works

Arlene N. Weisz and Beverly M. Black

New York, NY: Columbia University Press, 2009

Arlene Weisz and Beverly Black interviewed practitioners from more than 50 dating violence and sexual assault programs across the United States to provide a unique resource for effective teen dating prevention. Enhancing existing research with the shared wisdom of the nation's prevention community, Weisz and Black's book describes program goals and content, recruitment strategies, membership, structure, evaluation efforts, and community involvement in practitioners' own words. This comprehensive approach reveals the core techniques that should be a part of any successful prevention program, including theoretical consistency, which contributes to sound content development, and peer education and youth leadership, which empower participants and keep programs relevant.

Richard Hoefler

New Horizons for Policy Practice

New York, NY: Routledge, 2009

New Horizons for Policy Practice provides fresh perspectives on the state of policy practice. Leading scholars explore vital conceptual topics, such as how to impact social justice, what the strengths-based perspective means to policy practitioners, and how to bridge the all-too-common gap between community organizing and direct practice in social work. Other esteemed academics address topics including how to use technology to impact social justice, what the impacts of the recent changes in the United States' Supreme Court will be, how to conceptualize the impact of ex-prisoners' reentry into society, and how to better include marginalized populations in the policy practice. The volume closes with two pieces relating to students: using service learning to increase knowledge of macro interventions and integrating social capital analysis into policy practice. Each topic is thoroughly covered by experts, using the latest scholarly material available. It was published as a special issue of the *Journal of Policy Practice*.

Catheleen Jordan

An Introduction to Family Social Work, third edition

D. Collins, C. Jordan, and H. Coleman

Belmont, CA: Brooks-Cole/Cengage, 2009

An Introduction to Family Social Work 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 training, the text features engaging case studies, end-of-chapter exercises, illustrations, and graphics to help students master the material.

Dictionary of Psychopathology

Compiled and edited by Henry Kellerman. Cathleen Jordan served on Editorial Board.

New York, NY: Columbia University Press, 2009

Henry Kellerman assembles the first dictionary to focus exclusively on psychopathology, featuring more than 2,000 entries on specific symptoms and disorders, general syndromes, facets of personality structure, and diagnosis. He also includes a sampling of benchmark contributions by theoreticians and researchers that cover the history of psychopathology. The aim of the dictionary is to broadly contribute to the synthesis of psychopathology. It was monitored by a distinguished editorial board.

Peter Lehmann

Strengths-Based Batterer Intervention: A New Paradigm in Ending Family Violence

Edited by Peter Lehmann and Catherine Simmons

New York, NY: Springer, 2009

This edited text examines an argument for changing the current paradigm of batterer intervention from one of deficits to one that finds strengths as one approach to ending interpersonal violence. The text is divided into three parts: a rationale for changing the paradigm, theoretical models for strengths-based batterer intervention, and practical tools with a look toward the future.

Richard J. Schoech

Internet-Delivered Therapeutic Interventions in Human Services

Edited by Richard J. Schoech and Jerry Finn

Abingdon, UK: Routledge, 2009

The articles in this edited book highlight Internet-delivered therapeutic interventions, including online professional advice, prevention, assessment, intervention, case

management, and supportive services for many health- and mental-health-related issues. They also cover various delivery systems, such as asynchronous email, chat-based messaging, discussion forums, virtual reality, and games. The book focuses on the latest empirical evidence that supports e-therapy both in the United States and abroad, and discusses current issues still confronting the field. Topics discussed include empirical evidence regarding e-therapy, ethical and legal issues, theoretical perspectives and overviews of service delivery, and e-therapy training programs. Taken as a whole, this book describes an evolving online practice increasingly grounded in theory and empirical evidence. It points to the need for practitioners and consumers to be aware of the strengths and limitations of online practice and for human service educators to seriously consider the inclusion of online practice in their curriculum. This was also published as a special edition of the *Journal of Technology in Human Services*, Vol. 26.

JOURNAL EDITORIAL CONTRIBUTIONS

Richard Hoefler

Editor, *Journal of Policy Practice* (Routledge)

Peter Lehmann

Editorial Board, *Journal of Systematic Therapies* (Guilford Press)

Editorial Board, *Journal of Trauma, Aggression, and Maltreatment* (Routledge, Taylor, & Francis Group)

Editorial Board, *Partner Abuse* (Springer)

Vijayan K. Pillai

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

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

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

Consulting Editor, *Social Development Issues* (International Consortium for Social Development)

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

Scott D. Ryan

Editorial Board, *Adoption Quarterly* (Routledge)

Richard J. Schoech

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: New Scholarship in the Human Services* (University of Calgary Press)



SCHOOL OF URBAN AND PUBLIC AFFAIRS

JOURNAL EDITORIAL CONTRIBUTIONS

Ardeshir Anjomani, City & 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 & Regional Planning

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

Richard L. Cole, Public Affairs

Advisory Council, *Publius: The Journal of Federalism* (Oxford)

Maria Martinez-Cosio, Urban & Public Affairs

Editorial Board, *Education Policy Analysis Archive EPAA/AAPE* (College of Education, Arizona State University)

Sherman M. Wyman, Urban & Public Affairs

Editorial Board, *Journal of International Public Administration* (Taylor & Francis)



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BOOKS AND ART

Gerald D. Saxon, Library & History

Historic Texas from the Air

David Buisseret, Richard Francaviglia, Gerald Saxon, and Jack Graves
Austin, TX: University of Texas Press, 2009

Historic Texas from the Air provides dramatic aerial photography of 73 historic sites and geographical features from around Texas, revealing details that are unavailable to a ground-based observer. Each site covered in the book is accompanied by a full-page color photo and a concise description of its history and importance. Historical photos, maps, postcards, and other documents offer further visual information about the sites. The book is a UT Arlington product from start to finish, having been written by David Buisseret, former holder of the Garrett Endowed Chair in Greater Southwestern Studies and the History of Cartography; Richard Francaviglia, former director of the Center for Greater Southwestern Studies and the History of Cartography; and Gerald Saxon, Dean of the Library. Jack Graves Jr., an alum of the University, was the aerial photographer for the book, and many of the collateral historical images and documents came from the Library's Special Collections.

Kristin M. Swenson, Digital Library Services

Art Raw Gallery Inaugural Exhibit in New York

Art Raw is a new contemporary gallery that features modern works by cutting-edge working artists. The inaugural exhibit showcased the artwork of almost 300 emerging artists. Kristin was chosen from more than 25,000 artists internationally. She had four photographs on display and for sale. Kristin has displayed other pieces, including *On a Personal Note*, at the Art Hotel Gallery in Dallas, participated in the final show at the historical Firehouse Gallery in Fort Worth, and is currently in a duo exhibit in Dallas debuting five new art pieces.



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DEPARTMENTS

Art & Art History Department	Exhibit design and creation
Friends of the UT Arlington Library	Faculty Creative Works underwriting
Office of the Provost	Reception sponsor
Office of Technology Management	Patents
University Publications	Book design and publication
UT Arlington Library	Faculty book purchases

INDIVIDUALS

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