

Celebration  
of Faculty  
Creative  
Works

2007-2008

UT Arlington Library

Spring 2009



## Celebration of Faculty Creative Works 2007-2008

The UT Arlington Library and the Office of the Provost are pleased to host the first exhibition of books, creative works, and patents created by UT Arlington faculty and staff in 2007-2008. We plan to make this signature event an annual celebration at UT Arlington. The idea of the exhibition started with Tommie Wingfield, assistant to the dean of the library for marketing and external relations, and the fact that the exhibit is taking place is testament to her tenacity and hard work.

There are several reasons to do this now ... and in the Library. First, the Library is always seeking ways to strengthen its ties to the faculty and celebrate the depth and breadth of scholarship and creativity that takes place on campus. To this end, the Library, over the past several years, has sponsored the Focus on Faculty Lecture Series, where faculty members from across the University are invited to speak to an audience of students, faculty, staff, and the general public about their research. Often there are standing-room-only crowds gathered to hear these talks, which take place in the Central Library at noon on Wednesdays during the fall and spring semesters. This exhibit, however, can recognize considerably more faculty for their intellectual and creative activities than can the lecture series.

Second, the Library, even in today's wired and electronic world, is still the gateway to information and knowledge, whether that information is in print, on a canvas, reflected in a patent, or in bits and bytes. As the intellectual and creative center of campus, the Library is the most appropriate place to display new information and new knowledge, at least in our admittedly biased opinion.

Third, as UT Arlington evolves into a research university of the first rank, recognizing faculty and staff for their intellectual and creative accomplishments is critically important. Expanding the boundaries of knowledge is the stock in trade of what goes on at a research university, and people on campus and off need to be aware of the productivity, creativity, and notoriety of our faculty and staff. We want to celebrate and recognize these accomplishments.

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

*This volume is dedicated to the Friends of the UT Arlington Library. For more than two decades, members of the Friends have supported the scholarly work of UT Arlington faculty. The Friends showcase faculty authors in their monthly meetings, and have created an endowment to purchase material for the Library collection in honor of members of the faculty. The Friends' organization has created a strong partnership with the University Library and the faculty to advance the academic mission of UT Arlington.*

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

## BOOKS • ART • MUSIC

### **Advanced Propulsion Systems and Technologies, Today to 2020**

Progress in Astronautics and Aeronautics Series, Volume 223

American Institute of Aeronautics and Astronautics, 2008

Edited by Claudio Bruno and Antonio Accettura

**Frank K. Lu**, Series Editor-in-Chief

Mechanical and Aerospace Engineering Department

The AIAA Progress in Astronautics and Aeronautics is the flagship book series for the American Institute of Aeronautics and Astronautics. Lu became the series editor-in-chief in June 2005, and he is serving a second three-year term. Previously, he was on the series editorial advisory board (2003-2005). He has strived to move the series from archival to cutting edge. Fifteen titles have appeared thus far during his tenure as editor-in-chief.

### **ANSYS Tutorial: Release 11.0**

Schroff Development Corporation, 2007

**Kent L. Lawrence**

Mechanical and Aerospace Engineering Department

The book introduces the reader to effective engineering finite element problem solving by demonstrating the use of the comprehensive ANSYS FEM Release 11 software in a series of step-by-step tutorials. Topics covered include problems involving trusses, plane stress, plane strain, axisymmetric and three-dimensional geometries, beams, plates, conduction and convection heat transfer, thermal stress, and more. The tutorials are suitable for either professional or student use.

### **ANSYS Workbench Tutorial: Structural & Thermal Analysis using the ANSYS Workbench Release 11.0 Environment**

Schroff Development Corporation, 2007

**Kent L. Lawrence**

Mechanical and Aerospace Engineering Department

The exercises in *ANSYS Workbench Tutorial Release 11* introduce the reader to effective engineering problem solving through the use of this powerful modeling, simulation, and optimization tool. Topics covered include solid modeling, stress analysis, conduction/convection heat transfer, thermal stress, vibration, and buckling. The material is designed for practicing and student engineers alike and is suitable for use with an organized course of instruction or for self-study.

### **Argumentando con Cuidado: Dialectica para una Sociedad Democratica**

[Arguing with Care: Dialectic for a Democratic Society]

San Pablo (Colombia), 2007

**Harry P. Reeder**

Philosophy and Humanities Department

This is the text Reeder developed over 30 years of teaching courses in Critical Thinking, 25 of them at UT Arlington. It links the logical and rhetorical elements of the lived experience of arguing and how they are brought to bear in critical thinking, generally, and, specifically, the role of argumentation in creating consensus within democratic social and political life. The book contains many example arguments, some fully worked out, to be diagrammed logically and discussed critically. The English manuscript of this book, *Arguing with Care*, is also published electronically for use by students at UT Arlington.

### **Baseball in America and America in Baseball**

Walter Prescott Webb Memorial Lectures, No. 38

Published for The University of Texas at Arlington by Texas A&M University Press, 2008

**Donald G. Kyle, Robert B. Fairbanks**, and Benjamin G. Rader

History Department

Presenting views from a variety of sport and history experts, this work captures the breadth and unsuspected variety of our national fascination and identification with America's game. Chapters cover such well-known figures as Ty Cobb and lesser-known topics like the "invisible" baseball played by Japanese Americans during the 1930s and 1940s. A study of baseball in rural California from the Gold Rush to the turn of the twentieth century provides an interesting glimpse at how the game evolved from its earliest beginnings to something most modern observers would find familiar.

### **The Best Teachers' Test Preparation for the Texas Examinations of Educator Standards (TEXES): 101 Generalist EC-4**

Research and Education Association, 2007

**Luis A. Rosado** and the Staff of Research and Education Association

College of Education

This publication presents an overview of the 31 competencies of the content area examination required for the certification of teachers in early childhood to grade 4 in Texas—TEXES 101. It contains five main chapters covering the areas of English language arts and reading, mathematics, social studies, science, fine arts, health, physical education, and music. It also contains a full-length practice test together with a comprehensive analysis of the rationale for the answers. A large number of universities and private teacher preparation entities use this book to prepare their teacher candidates. Over 3,000 copies were sold last year alone.

### **Breaking Boundaries with Global Literature: Celebrating Diversity in K-12 Classrooms**

International Reading Association, 2007

**Nancy L. Hadaway** and Marian J. McKenna  
College of Education

Through literature we can extend our boundaries, but to do so, we need stories that help us develop new perspectives. *Breaking Boundaries with Global Literature: Celebrating Diversity in K-12 Classrooms* considers the importance of global literature and examines the recent progress in children's and young adult literature toward offering those new perspectives. As a primary source for specific examples of quality global literature, this book draws from the first 10 years of the Notable Books for a Global Society, 1996-2005, although other excellent examples of global literature are also cited. The chapters explore current themes in global literature such as social justice, gender, language diversity, immigration, and children and war as well as offering ideas for implementing global literature in classrooms.

### **Building Construction: Principles, Materials, and Systems**

Pearson Prentice Hall, 2008

**Madan L. Mehta**, Walter Scarborough, and Diane Arm Priest  
School of Architecture

This is a two-semester text intended for the students of architecture, construction engineering, and construction management. It has been organized in two parts: Part I (10 chapters) deals with the principles of construction, and Part II (25 chapters) deals with construction materials and construction systems.

The text is based on the premise that building construction should be taught to develop analytical abilities among the students to analyze the suitability, or otherwise, of products and systems with confidence. It lays a strong foundation on the science of construction so that future architects and constructors can successfully deal with the dynamism of building industry that is increasingly producing new products and their attendant variations, and to deal with the immense regional and international diversities of construction practice. It prepares the students to ask questions and to answer "why" we use (or do not) certain construction systems and "when" and "how" to modify them. After all, principles are what endure; practices change in time and from region to region.

A 120-page homework and classroom assignment manual accompanies the text with problems that challenge the students to develop critical thinking skills needed to make daily decisions in the real world.

### **Cambridge Handbook of Psychology, Health and Medicine, Second Edition**

Cambridge University Press, 2007

Edited by Susan Ayers, **Andrew Baum**, Chris McManus, Stanton Newman, Kenneth Wallston, John Weinman, and Robert West  
Psychology Department

Health psychology is a rapidly expanding discipline at the interface of psychology and clinical medicine. This new edition is fully reworked and revised, offering an entirely up-to-date, comprehensive, accessible, one-stop resource for clinical psychologists, mental health professionals, and specialists in health-related matters. There are two new editors: Susan Ayers from the University of Sussex and Kenneth Wallston from Vanderbilt University Medical Center. The prestigious editorial team and their international, interdisciplinary cast of authors have reconceptualised their much-acclaimed handbook. The book is now in two parts: Part I covers psychological aspects of health and illness, assessments, interventions, and healthcare practice; Part II covers medical matters listed in alphabetical order. Among the many new topics added are: diet and health, ethnicity and health, clinical interviewing, mood assessment, communicating risk, medical interviewing, diagnostic procedures, organ donation, IVF, MMR, HRT, sleep disorders, skin disorders, depression, and anxiety disorders.

### **Catholicism in the American West: A Rosary of Hidden Voices**

Walter Prescott Webb Memorial Lectures, No. 39

Published for The University of Texas at Arlington by Texas A&M University Press, 2007

Edited by **Robert R. Trevino**, **Richard V. Francaviglia**, and Anne M. Butler  
History Department

Consisting of six separate essays that originated as part of UT Arlington's 2004 Walter Prescott Webb Memorial Lectures, this book sheds new light on an important religious group that has been marginalized in the historical literature. This book, which was edited by UT Arlington history professors Roberto Trevino and Richard Francaviglia, offers new insights into the role of the Catholic Church and its parishioners in political movements and racial politics—particularly in the twentieth century.

### **Clinical Pathology for Athletic Trainers: Recognizing Systemic Disease, Second Edition**

SLACK, Incorporated, 2008

Daniel P. O'Connor and **A. Louise Fincher**  
Kinesiology Department

This book was written by athletic trainers specifically for athletic trainers, acknowledging their unique role in health care. It is intended to be a textbook for athletic training students in accredited athletic training education programs and a reference book for certified athletic trainers, regardless of their practice setting. It follows

a systems approach to the clinical recognition and management of non-orthopedic pathology, or general medical illnesses, commonly encountered by athletic trainers in their clinical practice.

### **Coming Out and Disclosures: LGBT Persons across the Life Span**

Haworth Press, 2007

**Ski Hunter**

School of Social Work

*Coming Out and Disclosures* is a comprehensive guide to the coming-out process for LGBT individuals, how to prepare for disclosure, and how disclosure is received in various groups. The book examines sexual orientation and identities; developmental modes of coming out; disclosure in adolescence, midlife or later; coming out to parents and family members; and disclosure to non-family persons. The book also provides practitioners with guidelines for working with clients who want to make disclosures.

### **Culture Keeping: White Mothers, International Adoption, and the Negotiation of Family Difference**

Vanderbilt University Press, 2008

**Heather Jacobson**

Sociology and Anthropology Department

Since the early 1990s, close to 250,000 children born abroad have been adopted into the United States. Nearly half of these children have come from China or Russia. This book offers the first comparative analysis of these two popular adoption programs. Heather Jacobson examines these adoptions by focusing on a relatively new social phenomenon, the practice by international adoptive parents, mothers in particular, of incorporating aspects of their children's cultures of origin into their families' lives. "Culture keeping" is now standard in the adoption world, though few adoptive parents, the majority of whom are white and native-born, have experience with the ethnic practices of their children's homelands prior to adopting. Jacobson follows white adoptive mothers as they navigate culture keeping: from their motivations, to the pressures and constraints they face, to the content of their actual practices concerning names, food, toys, travel, cultural events, and communities of belonging. Through her interviews, she explores how women think about their children, their families, and themselves as mothers as they labor to construct or resist ethnic identities for their children, who may be perceived as birth children (because they are white) or who may be perceived as adopted (because of racial difference). The choices these women make about culture, Jacobson argues, offer a window into dominant ideas of race and the "American Family" and into how social differences are conceived and negotiated in the United States.

### **David Keens: Reflection: New Work in Glass**

Arlington Museum of Art, 2008

**David Keens, Nancy Palmeri,** and the Arlington Museum of Art  
Art and Art History Department

*Reflection: New Work in Glass* is the catalog of Keens' exhibition of art work held at the Arlington Museum of Art in Arlington, Texas. This new body of work is a bold departure—both technically and conceptually—from any previous work he has created. Technically, the work explores a contemporary interpretation of the historical Italian process of glass Murrini making. He developed new techniques of creating and hot-slab forming semi-fused groups of individual glass Murrini. Additionally, he explored new ways to incorporate cast-glass forms and embedded formed Murrini to make highly complex glass imagery. Conceptually, the new work represents issues about memory and a personal narrative. Through abstract forms, imagery, and symbols, this work "reflects" a map of the past and a vision of the future.

### **Decades of Caring: A Chronicle of the Political Life of Mike Moncrief**

Cengage Learning, 2008

**Allan Saxe** and students in his undergraduate class in spring of 2008  
Political Science Department

This small text was written by students of Allan Saxe as a project in an advanced class on Local Politics in Texas. It was designed to give students an opportunity to do research utilizing news sources and personal interviews and having a published work. There is also a companion DVD with the book on which students interview three Fort Worth mayors: Moncrief, Barr, and Bolen.

### **El Desarrollo del Espanola para Maestros en Programas de Educación Bilingüe**

L.M. Educational Consultants, 2007

L. Morris and **Luis A. Rosado**

Modern Languages Department

The purpose of this publication is to expand and polish the Spanish knowledge that pre-service and in-service teachers should have in order to become effective instructors in dual language and bilingual education programs. The book has six chapters emphasizing grammar and orthography, the listening, speaking, reading, and writing components of the language. It also contains a compact disk to develop listening comprehension.

### **Discrete Cosine and Sine Transforms: General Properties, Fast Algorithms and Integer Approximations**

Academic Press, 2007

Vladimir Britanak, P. Yip, and **K. R. Rao**

Electrical Engineering Department

Since *Discrete Cosine Transform: Algorithms, Advantages, Applications* by K. R. Rao and P. Yip was published in 1990, the DCT has increasingly attracted the attention of scientific, engineering, and research communities. The DCT is used in many applications and in data compression in particular. This is due to the fact that the DCT has excellent energy-packing capability and also approaches the statistically optimal Karhunen-Loeve transform (KLT) in decorrelating a signal. The development of various fast algorithms for the efficient implementation of the DCT involving real arithmetic only further contributed to its popularity. In the last few years there have been significant advances and developments in both theory and applications relating to transform processing of signals. In particular, digital processing motivated the investigation of other forms of discrete cosine transforms for their integer approximations. International standards organizations (ISO/IEC and ITU-T) have adopted the use of various forms of the integer DCT. At the same time, the investigation of other forms of discrete sine transforms has made a similar impact. There is, therefore, a need to extend the coverage to include these techniques. This book, *Discrete Cosine and Sine Transforms: General Properties, Fast Algorithms and Integer Approximations*, is aimed at doing just that for both the novice and the expert.

### **Diversity in Organizations**

Thomson Business & Economics, 2007

**Myrtle P. Bell**

Management Department

*Diversity in Organizations* is a comprehensive research-based book that uses research evidence and data to dispel erroneous ideas and focus attention on accurate and relevant aspects of diversity, increasing opportunities for equality and inclusion in a diverse world. Chapters include explorations of experiences, opportunities, and outcomes of dominant and non-dominant group members, including Blacks, Latinos, Asians, Whites, multi-racials, American Indians, and sexual minorities. Topics such as religion, weight and appearance, work and family, age, and international diversity are also covered. Historical and current information are provided on each group examined. Readers also learn why diversity is important and how to become a diversity friendly employer.

### **Evangelism and Resistance in the Black Atlantic, 1760-1835**

University of Georgia Press, 2008

**Cedrick May**

English Department

This study focuses on the role of early African American Christianity in the formation of American egalitarian religion and politics. It also provides a new context for understanding how black Christianity and evangelism developed, spread, and interacted with transatlantic religious cultures of the eighteenth and early nineteenth centuries. Cedrick May looks at the work of a group of pivotal African American writers who helped set the stage for the popularization of African American evangelical texts and the introduction of black intellectualism into American political culture: Jupiter Hammon, Phillis Wheatley, John Marrant, Prince Hall, Richard Allen, and Maria Stewart.

This work supports the premise that religion gave these writers agency and credibility, and they appropriated the language of Christianity to establish a common ground on which to speak about social and political rights. In the process, these writers spread the principles that enabled slaves and free blacks to form communities, a fundamental step in resisting oppression. Moreover, says May, this institution building was overtly political, leading to a liberal shift in mainstream Christianity and secular politics as black churches and the organizations they launched became central to local communities and increasingly influenced public welfare and policy.

### **Fast Families, Virtual Children: A Critical Sociology of Families and Schooling**

Paradigm Publishers, 2007

**Ben Agger** and **Beth Anne Shelton**

Sociology and Anthropology Department

The Internet, cell phones, and other technologies have changed the ways in which people conduct their family lives, raise children, and navigate the blurry boundary between work and home. Private life is colonized by employers, teachers, corporations; family time is taken up by work, homework, and shopping. What it means to be parents and children has changed dramatically.

This book shows how the nurturance of family has increasingly become a willful, radical idea in an era of pervasive technology. The authors analyze important trends, including the acceleration and attenuation of childhood, and offer a Children's Bill of Rights and accompanying parental responsibilities.

### **Guide to Water & Wastewater Asset Management**

Benjamin Media Inc., 2008

Edited by **Mohammad Najafi** and Jim Rush

Civil Engineering Department

This book is a reference guide for water and wastewater officials interested in improving the performance of their systems. Topics covered include funding, financing, benchmarking, rate-setting, communications, and establishing service levels. It was compiled by the Center for Underground Infrastructure Research and Education (CUIRE) at The University of Texas at Arlington from articles published in *Underground Infrastructure Management*.

### **History and Culture of the Jews from Egypt in Modern Times**

Keness Hafakot (Tel Aviv), 2008

Edited by Ada Aharoni, **Aimee Israel-Pelletier**, and Levana Zamir

Modern Languages Department

The book offers a selection of articles and ancillary materials that break new ground in the research on the Jews of Egypt. This groundbreaking research study was presented at the World Conference on the Jews from Egypt (WCJE) in Haifa in cooperation with Haifa University on July 2-6, 2006.

### **La Humanización como Formación: La Filosofía y la Enseñanza de la Filosofía en la Condición Postmoderna**

[Humanization as Education: Philosophy and Teaching Philosophy in the Postmodern Condition]

San Pablo (Colombia), 2008

Edited by **Harry P. Reeder**

Philosophy and Humanities Department

The book addresses the concept of education, in the broad sense of the German term *Bildung*, with emphasis on the themes of the development of the philosophical understanding of the relation between character and reason, the role of philosophy in the development of character in participating democracies, and the use of technology in the philosophy classroom.

### **Interdisciplinary Research: Process and Theory**

SAGE, 2008

**Allen F. Repko**

Interdisciplinary Studies

This is the first book that systematically guides students in how to approach and follow through on research projects that straddle disciplines. Featuring an easy-to-follow approach that is grounded in theory, it is packed with examples of interdisciplinary

research from the natural sciences, the social sciences, and the humanities. Students will gain a solid foundation on how to achieve, produce, and express integration. The focus is on research, on doing interdisciplinary studies. Not surprisingly, Repko draws from the full range of Association for Integrative Studies publications, but he also draws from literature on epistemology, disciplinarily, common ground theory from cognitive psychology and other specializations with which many AIS members may be unfamiliar. In short, he takes a highly inclusive approach to theory. This core text is designed for advanced undergraduate and graduate courses in interdisciplinary research methods and will be especially helpful for courses requiring research papers.

### **Intermezzo: Recent Works by Benito Huerta**

Mexican American Cultural Center, Austin, TX, 2008

**Benito Huerta**

Art and Art History Department

*Intermezzo: Recent Works* by Benito Huerta was created for an exhibit at the Mexican American Cultural Center in Austin, Texas, March 8 – August 31, 2008.

### **Journal of Biomedical Nanotechnology on Cancer Nanotechnology**

American Scientific Publishers, December 2008

Edited by **Wei Chen**

Physics Department

Over the past decade promising results in the application of nanotechnology—Cancer Nanotechnology—have catapulted the field to the forefront of investigational interests. A key aspect of the nanotechnology phenomenon that may benefit medical research is quantum size confinement, by which the properties of a semiconductor change dramatically as it approaches nanoscale dimensions. Quantum size confinement in nanoparticles can modify the physical and chemical properties of a semiconductor, changing the material's energy structure and, thus, luminescence behaviors and other optical properties. These optical properties mean that luminescent nanoparticles have tremendous potential for use in cancer detection and imaging. Features such as small size, water-solubility, good photo-stability, narrow emission bandwidth, and enhanced surface functionalities open up possibilities for *in vivo* applications where nanoparticles can penetrate deeply into tissue and even into the cellular nucleus for precise imaging or targeted delivery of therapeutics. In this special issue, we attempt to summarize past and current research into cancer nanotechnology. It represents a photograph of a moment in time as research continues and new phenomena appear every day.

*Journal of Biomedical Nanotechnology*, published by American Scientific Publishers, is one of the most popular journals in Nanobiotechnology. Dr. Wei Chen, assistant professor in Physics, the guest editor of this issue, serves as associate editor for *JBN*.



## **Journal of Nanoscience and Nanotechnology on Luminescence Nanomaterials**

American Scientific Publishers, March 2008

Edited by **Wei Chen**

Physics Department

Luminescence-or fluorescence-based technologies have been widely utilized in various areas such as solid state lighting, displays, illuminations, optical communications, biological detection, diagnosis, medical imaging, radiation detection, homeland security, forensic tracking, equipment control, safety and alarm systems, pressure measurement, temperature sensing and dark matter exploration. Luminescence is a ubiquitous phenomenon which can be seen day in and day out. Our life would not be so beautiful and our society would not be so safe without luminescence. The emerging field of nanotechnology has become an important area in science and technology. More than half of nanoscale materials exhibit intense luminescence—these include semiconductor nanoparticles or quantum dots, organic nanoparticles, metallic nanoparticles, doped nanoparticles, carbon nanotubes and insulator nanoparticles. Quantum size confinement results in brighter luminescence and easy tenability of the emission color of semiconductor nanoparticles. Along with other advantages-such as small size, water-solubility, good photo-stability, narrow emission bandwidth, and surface functionalities-luminescence Nanomaterials have a tremendous potential for practical applications. One special application is for biological *in vivo* detection because the nanoscale size makes it possible for nanoparticles to penetrate deep into tissue and even into the cellular nucleus. In this issue, we attempt to summarize past and current research into the fundamental properties and practical applications of luminescence Nanomaterials.

*Journal of Nanoscience and Nanotechnology*, published by American Scientific Publishers, is one of the top journals in Nanotechnology. Dr. Wei Chen, assistant professor in physics, the guest editor of this issue, serves as North American editor for *JNN*.

## **Lenguaje: Dimension Linguistica y Extralinguistica del Sentido**

[Language: Linguistic and Extralinguistic Dimensions of Meaning]

Universidad Pedagogical Nacional (Colombia), 2007

**Harry P. Reeder**

Philosophy and Humanities Department

The central theme of the book is a phenomenological account of the living, personal, social, and scientific construction of meaning—in language and outside of it. The book is the result of an Invited Seminar presented at La Universidad Pedagógica Nacional (Bogotá, Colombia) in 2006, which used Spanish translations of seven essays previously published in international journals as the text. The book contains the seven essays, commentaries on them by eleven doctoral students and six professors, and Reeder's replies to the commentaries.

## **Leopold Eidlitz: Architecture and Idealism in the Gilded Age**

W. W. Norton & Company, 2008

**Kathryn E. Holliday**

School of Architecture

The first critical examination of the work of New York architect Leopold Eidlitz, America's first Jewish architect, founding member of the American Institute of Architects and the first American to define a modern organic architecture, this book reveals his formidable influence. Though the organic tradition has long been understood to be a central defining feature of American architecture, associated most strongly with Chicago and Louis Sullivan and Frank Lloyd Wright, Eidlitz in fact began the exploration of the organic ideal a generation earlier in New York. For Eidlitz, born in Prague and trained there and in Vienna, the organic metaphor provided a means of rationally approaching design according to natural law, producing modern buildings that expressed the true democratic spirit of the age.

## **Lights, Camera, History: Portraying the Past in Film**

The Walter Prescott Webb Memorial Lectures, No. 40

Published for The University of Texas at Arlington by Texas A&M University Press, 2007

**Richard V. Francaviglia, Jerome L. Rodnitzky, and Robert A. Rosenstone**

History Department

This is a handsome volume with more than 25 illustrations. Professors Richard Francaviglia and Jerry Rodnitzky address a number of central topics related to how history is depicted in film and explore both the pitfalls and advantages of using film to convey history. According to the book's dustcover, it specifically addresses four questions: (1) What is lost and what is gained in portraying history through film? (2) How do filmmakers and historians negotiate the tensions between accuracy and truth? (3) Do films serve our understanding of the past? (4) Do movies embody the autobiographies of those who produce them more than those of the historical characters portrayed?

## **Limits and Loopholes: The Quest for Money, Free Speech, and Fair Elections**

CQ Press, 2008

**Victoria A. Farrar-Myers and Diana Dwyre**

Political Science Department

Elections, the basic mechanism of representative democracy, should be untainted by corruption and provide a platform for free speech. But running for office takes money—a lot of it, usually—which means campaign finance has become a pitched battle over the fundamental political values of free speech versus fair elections. With insiders' perspectives, this book tells the story of what it took to pass campaign finance legislation, provides analysis of the subsequent court action, and explores the regulatory and electoral outcomes of reform efforts. *Limits and Loopholes* is a story about incremental policymaking and inter-branch struggle, about institutional design and



unintended consequences, about the influence of interest groups and the media, and about the health of our representative democracy. Bringing together discussions of core values and the policymaking process, this book serves as a case study that traces an issue from inception, through legislation and litigation, and finally to implementation.

### **Los Pasteles de Coco**

[Coco's Pasteles]

LM Educational Consultant, 2008

**Luis A. Rosado**

College of Education

Coco, a child of Puerto Rican ancestry currently living in Texas, describes the process that his grandmother uses to prepare “pasteles”—a Puerto Rican dish similar to the Mexican tamales. This short story compares the Puerto Rican and Mexican Spanish, and uses Spanish–English cognates to facilitate reading comprehension of students in dual language programs.

### **Managing Executive Health: Personal and Corporate Strategies for Sustained Success**

Cambridge University Press, 2008

**James C. Quick**

John and Judy Goolsby Distinguished Professor

The health of managers, executives, and business leaders has a huge impact on the performance and prospects of modern organizations. This book argues for a positive approach to executive health, which emphasizes physical vigor, psychological well being, spiritual vitality, and ethical integrity. In addition to emphasizing the positive and building on strength factors, the book employs a preventive medicine approach that includes defending against risks, such as excessive work, loneliness at the top, and personal vulnerabilities found in one's Achilles' heel. The book includes a series of executive spotlights on leading executives, including UT Arlington alumni John Goolsby and Lee Thurburn.

### **Manifest Destiny and Empire: American Antebellum Expansionism**

The Walter Prescott Webb Memorial Lectures, No. 31

Published for The University of Texas at Arlington by Texas A&M University Press, 2008

Edited by **Sam W. Haynes** and **Christopher M. Morris**

History Department

The essays in this volume were presented in March 1996, for the Thirty-first Walter Prescott Webb Memorial Lectures, held annually at The University of Texas at Arlington. These lectures, all devoted to the theme of early U.S. expansionism, seek to bring into sharper focus the territorial ambitions of Americans— both policy makers and

private citizens—in the decades prior to the Civil War. While approaching this subject from different perspectives and lines of inquiry, these essays underscore a particularly American paradox, for it was during the nineteenth century that the United States emerged as a hemispheric power, even as it grew increasingly unsure of its very identity as a nation. Authors of the essays are Robert W. Johannsen, John M. Belohlavek, Thomas R. Hietala, Samuel J. Watson, Sam W. Haynes, and Robert E. May.

### **Maestros Tejanos**

[Texas Masters]

Office of Cultural Affairs, City of Dallas, 2008

**Benito Huerta**

Art and Art History Department

This catalog was created for an Exhibit at the Latino Cultural Center in Dallas, Texas, from May 1 – July 19, 2008.

### **Material Feminisms**

Indiana University Press, 2008

Edited by **Stacey Alaimo** and **Susan J. Hekman**

English Department and Political Science Department

Harnessing the energy of provocative theories generated by recent understandings of the human body, the natural world and the material world, *Material Feminisms* presents an entirely new way for feminists to conceive of the question of materiality. In lively and timely essays, an international group of feminist thinkers challenges the assumptions and norms that have previously defined studies about the body. These wide-ranging essays grapple with topics such as the material reality of race, the significance of sexual difference, the impact of disability experience, and the complex interaction between nature and culture in traumatic events such as Hurricane Katrina. By insisting on the importance of materiality, this volume breaks new ground in philosophy, feminist theory, cultural studies, science studies, and other fields where the body and nature collide.

### **Music in Ancient China: An Archaeological and Art Historical Study of Strings, Winds, and Drums during the Eastern Zhou and Han Periods (770 BCE–220 CE)**

Cambria Press, 2008

**Ingrid Maren Furniss**

Art and Art History Department

Many tombs dating to the Eastern Zhou (770–221 BCE) and Han (206 BCE–220 AD) periods contain musical instruments or their visual representations in the form of wood, stone, and ceramic figures, tomb tiles and engravings. These finds suggest that music was viewed as an important part of the afterlife. While bells have survived more

frequently than wooden instruments and, therefore, have received the most scholarly attention, strings, winds, and drums are the focus of discussion in this book. The book examines the use of these three instrument types in both solo and ensemble music, as well as the social, ritual, and entertainment functions of each. When combined with bells (and chime stones), strings, drums, and winds appear to have been associated with formal ritual ceremonies. However, when appearing alone or in assemblages with other wooden instruments during Zhou, they appear to be connected with warfare and entertainment. By Han times, strings, winds, and drums seem to be associated almost exclusively with entertainment, pointing to a shift in the social life of the times. Another topic explored in this book is the association of musical instruments with wealth. When combined with bells and chime stones, they are only found in the wealthiest tombs. However, when found by themselves, strings, winds, and drums appear in small to large, modest to wealthy tombs, suggesting that they were available to a broad range of peoples in early Chinese elite society.

### **The Musical Representation: Meaning, Ontology, and Emotion**

MIT Press, 2007

**Charles O. Nussbaum**

Philosophy and Humanities Department

How human musical experience emerges from the audition of organized tones is a riddle of long standing. In *Musical Representation*, Nussbaum offers a philosophical naturalist's solution. He finds his naturalistic theory of musical representation on the collusion between the physics of sound and the organization of the human mind-brain. He argues that important varieties of experience afforded by Western tonal art music since 1650 arise through the feeling of tone, the sense of movement in musical space, cognition, emotional arousal and the engagement, by way of specific emotional responses, of deeply rooted human ideals.

Construing the art music of the modern West as representational, as a symbolic system that carries extra-musical content, Nussbaum attempts to make normative principles of musical representation explicit and bring them into reflective equilibrium with the intuitions of competent listeners. Nussbaum identifies three modes of musical representation, describes the basis of extra-musical meaning and analyzes musical works as created historical entities (performances of which are tokens or replicas). In addition, he explains how music gives rise to emotions and evokes states of mind that are religious in character. The biology, psychology, and philosophy of musical representation, he argues, have something to tell us about what we are, based on what we have been.

### **Nursing Care of Children: Principles and Practice, Third Edition**

Saunders Elsevier, 2007

Susan Rowen James, **Jean Weiler Ashwill**, and Susan Colvert Droske  
School of Nursing

With focused coverage of the most common pediatric conditions in a student-friendly, visually engaging presentation, *Nursing Care of Children: Principles and Practice, Third Edition*, is the perfect pediatric resource for a course. With a strong focus on patient and family communication, this new edition features the latest emerging trends in pediatric care and new and unique learning tools for the most effective approach to pediatric nursing in condensed courses.

### **Optimal and Robust Estimation: With an Introduction to Stochastic Control Theory**

CRC Press, 2008

**Frank L. Lewis**, Lihua Xie, and **Dan Popa**

Automation and Robotics Research Institute

This book discusses the measurement estimation problem, where it is desired to extract information from measured data to improve the performance of communication networks, feedback control systems for industrial and robot systems and navigation of ships, aircraft and space vehicles. Optimal control and optimal estimation are the dual theories that provide the foundation for the modern study of feedback control systems. Feedback is used in biological and naturally occurring systems. The cell uses feedback to maintain its equilibrium, or homeostasis. Darwin showed that feedback over long-time horizons is responsible for natural selection. James Watt used manmade feedback control systems to make the steam engine useful during the Industrial Revolution. Feedback control is responsible for the high performance of today's industrial, vehicular, robotic, and aerospace systems. Feedback control is used in automobiles to reduce pollution and improve performance.

Optimal control can be studied in a purely deterministic context where the assumption is made that perfect information about nature is available. The solutions to control problems are discovered by a backward progression through time. Optimal estimation, however, is the problem of casting into useful form information from an inherently noisy and substantially uncooperative environment; it is, therefore, intimately concerned with probabilistic notions. Solutions to estimation problems are discovered by a forward progression through time. Stochastic control theory uses information reconstructed from noisy measurements to control a system so that it has a desired behavior; hence, it represents a marriage of optimal estimation and deterministic optimal control. This book treats estimation theory and stochastic control, developing the modern theory but also showing relations to older knowledge such as the theory of Wiener filters developed during the period of long distance communications and the world wars.

### **Over the Range: A History of the Promontory Summit Route of the Pacific Railroad**

Utah State University Press, 2008

**Richard V. Francaviglia**

History Department

*Over The Range: A History of the Promontory Summit Route of the Pacific Railroad* revisits a familiar locale in American history—Promontory Summit, Utah, where the nation’s first transcontinental railroad was completed on May 10, 1869. However, it tells a new story about both the place and its history over a 200-year period. To do so, historical geographer Richard Francaviglia conducted extensive research both in the vicinity of Promontory and in archives from coast to coast. Printed in full color, it features many never-before-published maps, historical photographs, and journal excerpts to show how closely interconnected geography and history have been at this location. Promontory is not only where the driving of the Golden Spike took place in 1869, but is also the location where the Thiokol company made the rocket engines that took American astronauts to the moon and back almost exactly a century later (1969).

### **Points of Convergence: Masters of Fine Arts**

Maverick Printing Service for The University of Texas at Arlington, 2007

**Benito Huerta** and Janet Kutner

Art and Art History Department

The University of Texas at Arlington is proud to honor the tradition of the MFA degree and present two generations of artists who have contributed to its story. This catalog has been produced on the occasion of the exhibition *Points of Convergence: Masters of Fine Arts*, January 22 through March 4, 2008. Benito Huerta, director and curator of The Gallery at UT Arlington, organized this exhibition which developed as a result of conversations and discussions leading up to the 2008 CAA Conference and the establishment of The University of Texas at Arlington MFA Program.

### **Practical Universe: Observations, Experiments, Exercises**

Kendall Hunt Publications, 2008

**Manfred Cuntz, Nilakshi Veerabathina, and Levent Gurdemir**

Physics Department

The book features state-of-the-art material to be used in the “Astronomy Laboratory for Introductory Astronomy” courses offered to students with non-science majors. It replaces a text written by U.O. Herrmann and B.C. Thompson more than 25 years ago. “Significant progress in astronomy has been made in the meantime; progress that is almost beyond anybody’s comprehension,” according to Cuntz. The new developments, both in regard to observations and theory, prompted the incorporation of new methods

and material into the new book. Besides traditional exercises such as the study of terrestrial coordinate systems, planetary motions, and scale models for our solar system and the Milky Way, the new book also offers chapters on extra-solar planets and black holes, which will give students insight into modern day astronomy. Other exercises utilize new Internet-based material, as well as computer programs such as “Starry Night” and “Stellarium,” allowing computer-based, hands-on demonstrations of stars and planets in the night sky.

### **The Practice of Nursing Research: Conduct, Critique, and Utilization, Fifth Edition Japanese translation**

Elsevier Japan, 2007

**Nancy Burns** and **Susan K. Grove**

School of Nursing

*The Practice of Nursing Research: Conduct, Critique, and Utilization*, Fifth Edition, is the number one graduate nursing research text in the world. This text has been translated into other languages, most recently into Japanese in 2007. We believe this research text has been important to the development of quantitative, qualitative outcomes and intervention research for professional nursing in Japan.

First published in 1987, it was awarded Book of the Year by the *American Journal of Nursing* in 1987 and 1993. *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.

### **Psychiatric-Mental Health Nursing: Scope & Standards of Practice**

American Psychiatric Nurses Association, International Society of Psychiatric-Mental Health Nurses and the American Nurses Association

American Nurses Association, 2007

**Diane Snow**, Work Group Member

School of Nursing

*Psychiatric-Mental Health: Scope & Standards of Practice* is a foundational volume that articulates the essentials of psychiatric-mental health nursing, its activities and accountabilities—the who, what, when, where, and how of practice—at all practice levels and settings. Delineating a body of knowledge and an advanced set of applied nursing skills, this book reflects the diverse activities in which psychiatric-mental health nurses are engaged and serves them in their clinical practice, education, research, and community service.

The standards themselves—six for nursing practice and nine for nursing professional performance—are those by which all psychiatric-mental health nurses practice. Together, along with each standard’s set of measurement criteria for general and specialized practice, these reflect the perspectives and priorities of this multidisciplinary specialty.

### **Public Opinion and the Rehnquist Court**

State University of New York Press, 2008

**Thomas R. Marshall**

Political Science Department

Perhaps more than any other national institution, the U.S. Supreme Court seems isolated from American public opinion. With life tenure, freedom from elections, and little chance of being removed for making unpopular decisions, the justices might seem free from the constraints of popular opinion. Perhaps surprisingly, however, the Supreme Court hands down decisions that agree with American attitudes about as often as do popularly-elected officials. *Public Opinion and the Rehnquist Court* investigates why this is and why the modern Supreme Court remains closely tied to public opinion.

### **Public Sociology: From Social Facts to Literary Acts, Second Edition**

Rowman & Littlefield Publishers, 2007

**Ben Agger**

Sociology and Anthropology Department

*Public Sociology*, Second Edition, offers a fundamental enriching of method far beyond the scope of research methodology textbooks. It looks at sociology as a social act—as writing—in arguing for a public sociology that can more fully embrace and address crucial public issues. Building on the philosophy of science and recent postmodernist critiques, Agger shows how the social science text reproduces the existing social world, suppressing science’s author in order to position itself as simply a mirror of nature, not a deliberate human version replete with ontology, theory values, and politics. As such, method is an argument that argues quietly for a certain view of the world. Agger peruses how science could be crafted differently, acknowledging, even embracing its authoriality while opening it to crosscurrents of other humanistic writing. Only by liberating sociology from the “secret writing” of science can its ineradicable humanity be realized. But rather than dwelling on recent critiques, this, more than any other book, looks ahead to a new way of doing science—one that is simultaneously more scientific and humanistic. Its prescient view of how social science can take the lead in building a more democratic public sphere will make it a must read for every student and researcher.

### **Pulse**

OA2 Records, 2008

**Dan Cavanagh**, James Miley, John A. Adler, and Timothy Young

Music Department

*Pulse* is a collection of compositions for jazz big band written over the span of four-plus years. Featuring an all-star cast of jazz musicians from around the country, the album features the unique collaboration of poet/narrator Timothy Young and composer/pianist Dan Cavanagh. Cavanagh has often based his musical compositions on Young’s poetry, and for this project the poet served as narrator as well. The result is

an album that captures the spirit of modern jazz writing while exploring the wonderful interweaving of two art forms.

### **Racial Profiling in America**

Pearson Prentice Hall, 2008

**Alejandro Del Carmen**

Criminology and Criminal Justice Department

Unique in both its scope and focus, *Racial Profiling in America* is a “must read” to anyone interested in this contemporary issue. Offering a comprehensive view of the topic, the author addresses the origins, components, dilemmas, and challenges surrounding racial profiling. Utilizing current research and statistics, the book offers a balanced presentation that moves beyond one point of view to address the complexities involved with this particular issue. Filled with academic discussion and personal anecdotes, the book appeals to a diverse audience and provides a broad overview of racial profiling in America today. It was written for anyone involved in law enforcement or interested in racial profiling.

### **Revisualizing Westward Expansion: A Century of Conflict in Maps, 1800-1900**

The University of Texas at Arlington Library, 2008

**Ben W. Huseman**

UT Arlington Library

This gallery guide, published in-house by University Publications and printed by Maverick Print, accompanied an exhibit of maps held at The University of Texas at Arlington Library’s Special Collections from August 25, 2008 to January 3, 2009. The exhibit was the showcase for the Sixth Biennial Virginia Garrett Lectures on the History of Cartography, held on the sixth floor of the University Library on October 3, 2008. The scholarly guide provides historical background and description with endnotes and bibliography for a selection of fifty nineteenth-century maps of the trans-Mississippi West. Ben Huseman, cartographic archivist at The University of Texas at Arlington Library’s Special Collections, authored the guide and curated the exhibit, which was drawn primarily from the University’s renowned map collection. Throughout the text, Huseman emphasized the theme of conflict, not only as it related to the trans-Mississippi West, but also to these specific maps and the history of cartography.

### **Schuyler’s Monster: A Father’s Journey with His Wordless Daughter**

St. Martin’s Press, 2008

**Robert Rummel-Hudson**

School of Architecture

Robert Rummel-Hudson is communications coordinator at The University of Texas at Arlington School of Architecture. Rummel-Hudson spent his early years growing up in the West Texas oil town of Odessa. He attended UT Arlington, studying music and

English. During this time, he worked as a professional freelance trombonist and music instructor. At the age of 29, he left it all behind and moved to Kalamazoo, Michigan, to marry Julie Rummel. A year later, they had a daughter, Schulyer Noelle, and moved to New Haven, Connecticut, to work for Yale University. It was at Yale that Schuyler was diagnosed with Bilateral Perisylvian Polymicrogyria, a neurological condition that left her unable to speak. Robert, Julie, and Schuyler now live in Plano where Schuyler attends a special class for children who use alternative and augmentative communication devices. Rummel-Hudson's first book, *Schuyler's Monster: A Father's Journey with His Wordless Daughter*, tells the story of raising a little girl with a disability and learning to become the father she needs.

### **Scripted for Change: The Institutionalization of the American Presidency**

Texas A&M University Press, 2007

**Victoria A. Farrar-Myers**

Political Science Department

Without a doubt, the institution of the presidency today is quite different from the one that existed throughout the early part of the nation's history, despite only minimal revisions to its formal constitutional structure. The processes by which the institution of the presidency has developed have remained largely unexamined, however. *Scripted for Change* offers a carefully crafted argument about how changes in presidential authority transform the institution. The book's analysis tracks interactions between the president and Congress during the years 1881–1920 in three policy areas: the commitment of troops, the creation of administrative agencies, and the adoption of tariff policy. This book shows that Congress and the president have in fact “created a coordinated script that provides the basis of precedent for future interactions under similar circumstances.” Changes in presidential authority “are the residual of everyday actions,” which create new shared understandings of expected behavior. As these understandings are reinforced over time, they become interwoven into the institution of the presidency itself. This analysis offers theoretical guidance for political scientists' understanding of the development of presidential authority and the processes that drive the institutionalization of the presidency, and provides historians with a nuanced understanding of the institution from the period between the end of Reconstruction and the Progressive era.

### **The Signifying Body: Toward an Ethics of Sexual and Racial Difference**

State University of New York Press, 2008

**Penelope Ingram**

English Department

How do we live ethically? What role do sex and race play in living or being ethically? Can ethics lead to ontology? Can literature play a role in ethical being? Drawing extensively on the work of Luce Irigaray, Frantz Fanon, and Martin Heidegger, Penelope

Ingram argues that ethical questions must be understood in light of ontological ones. It is only when sexual and racial difference are viewed at an ontological level that ethics is truly possible. Central to the connection between ontology and ethics is the role of language. Ingram revisits the relationship between representation and matter in order to advance a theory of material signification. She examines a number of twentieth-century film and literary texts, including Neil Jordan's *The Crying Game*, J. M. Coetzee's *Foe*, Toni Morrison's *Paradise*, and Don DeLillo's *The Body Artist*, to demonstrate that material signification, rather than representation, is crucial to our experience of living authentically and achieving an ethical relation with the Other. By attending closely to Heidegger's, Irigaray's, and Fanon's positions on language, this original work argues that the literary text is indispensable to a “revealing” of the relationship between ontology and ethics, and through it, the reader can experience a state of “authentic Being ethically.”

### **Solar Hydrogen Generation: Toward a Renewable Energy Future**

Springer, 2008

**Krishnan Rajeshwar**, Robert D. McConnell, and S. Licht

Chemistry and Biochemistry Department

Hydrogen has been touted as the basis of a new and powerful energy economy not reliant on fossil fuels. This book examines strategies for generating hydrogen from sunlight and water in a sustainable way. Authoritative discussions are provided by experts on topics ranging from a description of the solar resource, electrolysis of water, solar concentrator pathway to low cost electrolytic hydrogen, thermal/photo hybrid splitting of water, photochemical water splitting and hydrogen generation at inorganic semiconductor-electrolyte interfaces, to photobiological schemes for producing hydrogen from water. The book culminates with an analysis of a coupled water electrolyzer-solar photovoltaic system for the centralized production of hydrogen. The literature citation is extensive and comprehensive in each chapter and the book provides a broad perspective of the rapid developments in an important aspect of energy science and technology. The material covered is required reading for practitioners of solar energy conversion R&D in academia, government, and industry originating from a spectrum of disciplines, including chemistry, biology, physics, chemical and mechanical engineering, electrical engineering, and materials science. The targeted audience will be scientists/engineers not yet familiar with this field as well as graduate students and other professionals and technocrats interested in energy and materials research.

**Soundings: Benito Huerta, 1992-2005** [Exhibit at El Paso Museum of Art, March to May, 2007]

Art Museum of South Texas, 2005

**Benito Huerta**, Susie Kalil, and Art Museum of South Texas  
Art and Art History Department

*Soundings* was published by the Art Museum of South Texas in conjunction with the exhibition October 1, 2005 – January 22, 2006. The initial idea of the exhibition originated with the director of the AMST, William Otten, as early as 1999. The exhibition, curated by Michelle Locke, curator of collections, was a 13-year survey of work ranging from works on paper to printmaking (lithography, etchings, and screen prints) to large scale paintings. AMST commissioned Susie Kalil, a freelance writer and art critic based in Houston (who has written for *Art Lies*, *Art Forum* and *Art in America* and recently was the main contributor to Melissa Miller monograph published by UT Press, Austin, Texas) to write the 1,500 word essay for the catalogue. The exhibition was comprised of 55 works from various collections and from the artist. The exhibit traveled to the El Paso Museum of Art and was displayed there from March to May in 2007.

### **Sport and Spectacle in the Ancient World**

Wiley-Blackwell, 2007

**Donald G. Kyle**

History Department

Winner of the 2008 Book Award of the North American Society for Sport History, this is a readable, up-to-date, illustrated introduction to the history of sport and spectacle in the ancient world from the Ancient Near East through Greek and Hellenistic times and into the Roman Empire. It investigates the origins, nature, and meaning of sport, discussing such issues as violence, professionalism, class, gender, and eroticism. Tracing the precursors of Greek and Roman sports and spectacles in the Ancient Near East and the Bronze Age Aegean, it covers athletics, combat sports, chariot racing, beast fights, and gladiators. Approaching sport and spectacle as overlapping and compatible features of civilized states and empires, it challenges the notion that Greek sport and Roman spectacle were polar opposites.

### **Statistics for Health Care Research: A Practical Workbook**

Elsevier Saunders, 2007

**Susan K. Grove**

School of Nursing

For years Grove has taught nursing research to graduate students and noted their difficulty in understanding statistics and how that affected their desire and ability to read research and use the findings in practice. She began the development of *Statistics for Health Care Research* in 2003 and tried the exercises she developed in class with

her students. They were very positive about the exercises and how they facilitated their reading and understanding of statistics in research articles. Some students were excited about the project and wanted to participate, so as part of their completion option for the Master in Nursing, she encouraged them to develop selected exercises. Grove found this was a wonderful learning experience for the students and provided them a chance to be published. This is a relatively recent publication that is being used by some nursing faculty to teach statistical content at the undergraduate and graduate levels.

### **Stipendienstiftungen und der Zugang zu Höherer Bildung in Deutschland von 1800 bis 1960**

[Private Funding for Undergraduate Education in Germany from 1800 to 1960]

Franz Steiner Verlag (Germany), 2008

**Thomas Adam**

History Department

The ability to attend a university in nineteenth-century Germany was determined by social status and financial potential. Tuition and living expenses posed an obstacle for students with more limited financial means. But even students from a middle-class background could easily fall on hard times. The presence of a large number of siblings or the death of the father, who was almost always the main source of financial support for the family, robbed many aspiring students of the necessary financial backing. These students were forced to turn to foundations for financial assistance in the form of scholarships and loans. Throughout the nineteenth century, an extensive network of academic foundations developed at all German universities. These foundations were established by individuals who wanted to support specific subjects or students who fit a carefully circumscribed profile (Christian, male, and middle class).

Undergraduate students could expect fellowships and loans of 150 to 400 marks annually for a period of up to four years. The amount of these fellowships was intentionally kept low in order to prevent individuals from entering the university who did not belong to the middle class. The task of these foundations was to reproduce elite that was defined by wealth and education and to prevent the rise of a new meritocratic elite. Scholarships, thus, contributed to the reproduction of class society.

### **Strengthening Democracy through Community Capacity Building: A Study of Four Latin American Countries**

Marquette Books, 2008

Hector Luis Diaz, Johnny Ramirez-Johnson, **Randall Basham**, and Vijayan K. Pillai  
School of Social Work

“I consider the findings of the research reported in this volume very exciting given that they provide empirical support for a belief many of us have had about the work of ADRA (Adventist Development and Relief Agency) around the world—namely that its front-line project teams excel at strengthening communities’ capacity to work together

for their common good. I had seen this in Ghana, and now doctors Diaz, Ramirez-Johnson, Basham, and Pillai have documented this same phenomenon of increased community mutual aid (social capital) in the Latin American countries of Bolivia, Peru, Honduras, and Nicaragua. ... A novel contribution of this book to the current social science body of knowledge is its attempt to link social capital with economic progress and engagement in democratic behaviors in these particular countries. Research findings suggest positive associations between these three variables, with notable differences between the four targeted countries.”—Dr. Oystein S. LaBianca, Professor of Anthropology, Andrews University (from the Foreword).

### **Study Guide for Understanding Nursing Research: Building an Evidence-based Practice**

Saunders Elsevier, 2007

**Susan K. Grove, Nancy Burns,** and Janet T. Ihlenfeld  
School of Nursing

The study guide is an essential resource for students in learning the complex research process. Organized to match the chapters in *Understanding Nursing Research: Building an Evidence-based Practice*, it includes activities and exercises that reinforce the key concepts. Each chapter includes Key Terms exercises, Key Idea exercises, and Exercises in Critique.

### **The Tai-Kadai Languages**

Routledge, 2008

Edited by Anthony V. N. Diller, **Jerold A. Edmondson** and Yongxian Luo  
Linguistics Department

This volume contains an in-depth account of the Tai-Kadai languages. Written by experts, it provides detailed linguistic analysis and description. The contents are structured to cover the natural system of classification: phonology, morphology, syntax, lexis, semantics, dialectology and sociolinguistics. Additional materials are bibliographies, tables, maps and examples from the languages to demonstrate the linguistic features being described.

### **A Texas Journey: The Centennial Photographs of Polly Smith**

Dallas Historical Society, 2008

**Evelyn Barker** and Polly Smith  
UT Arlington Library

In 1935, Texas was preparing for its biggest celebration to date: a world's fair to commemorate the centennial of its independence from Mexico. Centennial officials eager to publicize the event needed an abundance of photographic images that would put the state in the best possible light. They hired a young photographer, Polly Smith, who had recently returned from studying in New York, to travel the length and width of the state. Her mission was to capture the people and places that made Texas unique.

The result of Smith's journey is a remarkable collection of images that range from the missions of San Antonio to dockworkers in Houston and on to the cotton fields of East Texas. Only 28 when she began the project, Smith traveled alone across the state in a Ford pickup that she converted into a portable darkroom.

Since the centennial, the Dallas Historical Society has preserved many of her photographs, and several have been on permanent display in the Hall of State in Fair Park. *A Texas Journey: The Centennial Photographs of Polly Smith* is the first book-length examination of Smith's life and work.

### **TEXES 103 Bilingual Generalist EC-4: Texas Examinations of Educator Standards**

Research and Education Associates, 2007

**Luis A. Rosado** and Research and Education Associates  
College of Education

REA's *TEXES 103 Bilingual Generalist EC-4* is a comprehensive guide to prepare for the Texas Examination of Educator Standards battery required for teaching in Texas. It presents an overview, a review of every domain, sample questions, diagnostic tools to identify areas of strengths and weaknesses, a full length practice test and correct answers and explanations for each question. REA's practice tests are always based upon the mostly recently administered exams and include every type of question that you can expect on the actual exams.

### **There is a Gunman on Campus: Tragedy and Terror at Virginia Tech**

Rowman & Littlefield, 2008

Edited by **Ben Agger** and Timothy W. Luke  
Sociology and Anthropology Department

On April 16, 2007, a terrible event occurred on the Virginia Tech campus in Blacksburg, Virginia. That day a student killed 32 of his classmates and professors and then turned the gun on himself. The media focused their power and our attention on the campus, the students and faculty of Virginia Tech, and the gunman and his victims. But we have yet to understand fully what happened in Blacksburg. *There is a Gunman on Campus* brings our thoughts back to the shocking campus shootings and the public reactions to the event, shining needed light on what occurred at the university, how American society reacted, and how it all fits into contemporary culture.

The contributors to this insightful and compelling volume preserve and deepen our memory of April 16th. Many of the authors are distinguished men and women of letters, and some were on the Virginia Tech campus the day when the shots rang out. From the psychology of the shooter to the role of media in covering the event to parallels to other American tragedies such as Columbine, the chapters constitute an incisive portrait of early twenty-first century America.



### **Transforming Race and Class in Suburbia: Decline in Metropolitan Baltimore**

Palgrave Macmillan, 2008

**Thomas J. Vicino**

School of Urban and Public Affairs

Just as the nation witnessed the widespread decay of urban centers, there is a mounting suburban crisis in first-tier suburbs—the early suburbs to develop in metropolitan America. These places, once the bastion of a large middle class, have matured and experienced three decades of social and economic decline. In the first comprehensive analysis of suburban decline for an entire region, Vicino uses Baltimore as an illustrative case to chronicle how first-tier suburbs experienced widespread decline while outer suburbs flourished since the 1970s. At the brink of the twenty-first century, Vicino illustrates how the processes of deindustrialization, racial diversity, and class segregation have shaped the evolution of suburban decline.

### **ULSI Process Integration 5: Dielectric and Semiconductor Materials, Devices, and Processing**

*ECS Transactions*, Vol. 11, No. 66

The Electrochemical Society, 2007

Edited by C. Claeys, H. Iwai, **M. Tao**, J. Murota, J. J. Liou, and S. Deleonibus  
Nanofab Facility

This issue of *ECS Transactions* includes papers that were presented at the Fifth Symposium on ULSI Process Integration held in Washington, D.C., on October 7-12, 2007. The book covers several major areas in ultra large-scale integrated circuits, including strain engineering and high mobility substrates; gate dielectrics and work function engineering; germicides, silicides and salicides; FEOL and BEOL processing issues; process integration; and alternative and emerging materials and devices. It covers the present status and future outlook including major challenges for continued downscaling of CMOS nanoelectronics.

### **Understanding Nursing Research: Building an Evidence-based Practice, Fourth Edition**

Saunders Elsevier, 2007

**Nancy Burns** and **Susan K. Grove**

School of Nursing

The *Understanding Nursing Research* textbook was developed initially in 1995 to facilitate undergraduate nursing students' understanding and use of research findings in practice. Many nurses today are involved in research activities as part of the magnet status achieved by several health care agencies. Magnet status is a recognition presented to health care agencies who demonstrate excellence in nursing care with practice based

on the latest research evidence. The *Understanding Nursing Research*, Fourth Edition, text was recognized nationally as Book of the Year by the *American Journal of Nursing* in 2003. This book has been used nationally and internationally and was translated into Spanish in 2004 and German in 2005. The research text is now the number one most read research text in the world and is facilitating the movement of nursing toward evidence-based practice.

### **Understanding Organizational Behavior, Third Edition**

Thomson South-Western, 2008

Debra L. Nelson and **James C. Quick**

John and Judy Goolsby Distinguished Professor

This 16-chapter book covers the essential information for anyone interested in understanding human behavior in organizations. The book is anchored in leading-edge science that incorporates the most current research and connects to the real world through cases from companies like Cisco, Virgin Group, and Pixar Animation Studios. Individual behavior chapter topics include motivation, performance, ethics and diversity, attitudes and values, and stress. Interpersonal behavior topics include teamwork, communication, conflict, leadership and follower-ship, power and politics, and decision-making. Organizational process topics include organization culture. Individual and group learning activities enable individuals and teams to more deeply understand the concepts through experience-based learning.

### **United States and West Africa: Interactions and Relations**

University of Rochester Press, 2008

Edited by **Alusine Jalloh** and Toyin Falola

History Department

Over the last several decades, historians have conducted extensive research into contact between the United States and West Africa during the era of the transatlantic trade. Yet we still understand relatively little about more recent relations between the two areas. This multidisciplinary volume presents the most comprehensive analysis of the U.S.-West African relationship to date, filling a significant gap in the literature by examining the social, cultural, political, and economic bonds that have, in recent years, drawn these two world regions into increasingly closer contact. Beginning with examinations of factors that linked the nations during European colonial rule of Africa and spanning to discussions of U.S. foreign policy with regard to West Africa from the Cold War through the end of the twentieth century and beyond, these essays constitute the first volume devoted to interrogating the complex relationship—both historic and contemporary—between the United States and West Africa.

## Patents

### **India Patent 222740. August 21, 2008**

“Device and Method for Detecting Ionizing Radiant Energy, and System of Such Devices.”

**Suresh C. Sharma**

Physics Department

Generally, and in one form, the present invention is a device for the measurement of radiant energy using a polymer dispersed liquid crystal cell. In another form, the present invention is a device for the detection of ionizing radiation that uses a polymer dispersed liquid crystal cell and a light source that is optically oriented toward the cell. The cell is connected to an electrical signal generator, and a light detector capable of producing output is optically aligned with the light source. Finally, a computer is connected to the light detector to analyze the output from the light detector.

### **U.S. Patent 7,166,851. January 23, 2007**

“Semiconductor chip-based radiation detector.”

**Suresh C. Sharma**

Physics Department

The present invention is a self-contained device for measuring exposure to radiation which includes an integrated circuit device incorporating a polymer dispersed liquid crystal component that resides on a semiconductor substrate.

### **U.S. Patent 7,167,615. January 23, 2007**

“Resonant waveguide-grating filters and sensors and methods for making and using same.”

Debra D. Wawro, Sorin Tibuleac, and **Robert Magnusson**

Electrical Engineering Department

*Waveguide grating devices:* One includes at least one waveguide having an end, the end having an endface; and a waveguide grating fabricated on the endface, the waveguide grating having at least one waveguide layer and at least one grating layer. The waveguide layer is a separate waveguide from the waveguide on which the waveguide grating is fabricated. *Systems for spectral filtering:* One, which utilizes a guided-mode resonance effect in a waveguide, includes at least one waveguide having a proximal end and a distal end having an endface; and a waveguide grating fabricated on the end of the waveguide and having a plurality of variable parameters such as permittivity of the grating layer(s) and permittivity of the waveguide layer(s). Methods of forming waveguide grating devices and methods of detecting one or more parameters of a medium using a waveguide grating device are also disclosed.

### **U.S. Patent 7,218,817. May 15, 2007**

“Nonlinear optical guided mode resonance filter.”

**Robert Magnusson**, Theresa A. Maldonado, Purnomo Priambodo, Ming Zhou, Georgeanne Purvinis, and **Martin Pomerantz**

Electrical Engineering Department and Chemistry and Biochemistry Department

Nonlinear optical filters and associated methods. In a representative embodiment, a nonlinear optical filter includes a grating and a dye-doped polymer layer coupled to the grating. The dye-doped polymer layer may include ionic self-assembled layers. An associated method includes: providing a nonlinear filter comprising a grating and a dye-doped polymer layer coupled to the grating, directing an input broadband optical wave upon the filter, and backward diffracting the broadband optical wave from the grating as an output narrowband optical wave. The output narrowband optical wave may include a second harmonic beam.

### **U.S. Patent 7,282,083. October 16, 2007**

“Methods, systems, and uses for calixarenes.”

**Dmitry M. Rudkevich** (Deceased)

Chemistry and Biochemistry Department

A method of identifying, detecting, and/or chemically using NO<sub>x</sub> compounds is provided, wherein calixarene complexes are exposed to a nitrogen-oxide gas containing samples and form calixarene-nitrosonium complexes that are readily identified and detectable. Importantly, the process of forming one or more calixarene-nitrosonium (NO<sup>+</sup>) complexes is reversible. The calixarene-nitrosonium complexes dissociate upon decoloration enabling the parent calixarenes to be recovered.

### **U.S. Patent 7,305,161. December 4, 2007**

“Encapsulated photonic crystal structures.”

**Weidong Zhou**

Electrical Engineering Department

Photonic crystal structures having a plurality of air columns and coating such structures to provide structures with improved performance are described herein. 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.

**U.S. Patent 7,340,903. March 11, 2008**

“Scalable power generation using a pulsed detonation engine.”

**Frank K. Lu** and **Donald R. Wilson**

Mechanical and Aerospace Engineering Department

A scalable power generator is described. A scalable, portable pulsed detonation engine is coupled to a turbine that drives a generator, and using commonly available fuels, electric energy is provided. Additional embodiments incorporate a mechanical compressor at the intake of the pulsed detonation engine that is driven by a second turbine; the second turbine drives a shaft that powers the mechanical compressor. Other enhancements to the invention and additional embodiments are described.

**U.S. Patent 7,343,198. March 11, 2008**

“System, software, and method for detection of sleep-disordered breathing using an electrocardiogram.”

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

Biomedical Engineering Department

A system to form and store an electrocardiogram (ECG) signal derived from a cardiac electrical signal that includes an apparatus having a pair of the 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.

**U.S. Patent 7,392,143. June 24, 2008**

“Monitoring and fault diagnosis of single- and multi-converter power systems.”

Ranjit Jayabalan and **Babak Fahimi**

Electrical Engineering Department

As described herein is a vehicle, system, method, and device for monitoring, detecting, and diagnosis of one or more faults in single- or multi-converter power system. Through use of existing devices within the power system, particularly semiconductor devices, output parameters may be monitored for deviations from normal operation. In addition, faults may be detected and/or diagnosed within the failure withstand time of the existing device.

**U.S. Patent 7,393,702. July 1, 2008**

“Characterizing the integrity of interconnects.”

**Choong-Un Kim**, **Nancy L. Michael**, and Jae-Yong Park

Materials Science and Engineering Department

The present invention provides for a system and method of characterizing the integrity of a barrier structure. The barrier structure is an interconnect comprising a porous dielectric layer sandwiched between at least one barrier layer and at least one conducting layer. The method of characterizing the integrity of such an interconnect includes providing an interconnect, infiltrating the interconnect with a solution comprising electrolytes, applying an external bias to the infiltrated interconnect, and characterizing the integrity of the interconnect after application of the external bias.

**U.S. Patent 7,400,399. July 15, 2008**

“Methods for using resonant waveguide-grating filters and sensors.”

Debra D. Wawro, Sorin Tibuleac, and **Robert Magnusson**

Electrical Engineering Department

Methods of detecting one or more parameters of a medium are disclosed. The methods include providing a waveguide grating device, contacting the waveguide grating with a medium, propagating a signal having at least one signal attribute through the waveguide, and comparing the modified signal attribute to a known signal attribute to detect a parameter of the medium.

**U.S. Patent 7,407,431. August 5, 2008**

“U.S. Optical fiber polishing and finishing system, device and method.”

**Woo Ho Lee** and **Jeongsik Sin**

Automation and Robotics Research Institute

A method, device, and system for polishing and/or finishing one or more optical fibers. The method comprising securing an optical fiber connector to at least one holder, generating a tilting motion at the end of the optical fiber, adjusting the tilting motion of the optical fiber to create the desired optical fiber end shape, and positioning a stage to provide planar motion to the at least one holder. A desired tilting motion of the optical fiber is generated by adjusting tension of at least one spring in operable connection with the at least one holder. Further adjustments to the tilting motion may be accomplished by further changes in tension of the at least one spring. A desired fiber optic end shape may be provided by the method, system, and device described herein. Such shapes include dome, circular, or flat.

### **U.S. Patent 7,429,259. September 30, 2008**

“Surgical anchor and system.”

Jeffrey A. Cadeddu, **Richard A. Bergs**, **Raul Fernandez**, and Linda A. Baker  
Automation and Robotics Research Institute

The present invention is a device and system for manipulating a surgical tool at an intended location, e.g., a confined or inaccessible space, which includes a surgical anchor having at least one opening, wherein the opening provides a catch for a pin; and at least one anchor point to position and orient a surgical tool inside a human body. The apparatus and system of the present invention allows for the use of multiple intra-abdominal surgical tools inserted through a single incision.

### **U.S. Patent 7,465,953. December 16, 2008**

“Positioning of nanoparticles and fabrication of single electron devices.”

**Seong Jin Koh**, **Choong-Un Kim**, Liang-Chieh Ma, and Ramkumar Subramanian  
Materials Science and Engineering Department

The present invention includes single electron structures and devices comprising a substrate having an upper surface, one or more dielectric layers formed on the upper surface of the substrate and having at least one exposed portion, at least one monolayer of self-assembling molecules attracted to and in contact with the at least one exposed portion of only one of the one or more dielectric layers, one or more nanoparticles attracted to and in contact with the at least one monolayer, and at least one tunneling barrier in contact with the one or more nanoparticles. Typically, the single electron structure or device formed therefrom further comprise a drain, a gate, and a source to provide single electron behavior, wherein there is a defined gap between source and drain, and the one or more nanoparticles is positioned between the source and the drain.

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*Stipendienstiftungen und der Zugang zu Höherer Bildung in Deutschland von 1800 bis 1960*
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*Fast Families, Virtual Children*  
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- Alaimo, Stacy  
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- Haynes, Sam W.  
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- Hekman, Susan J.  
*Material Feminisms*
- Holliday, Kathryn E.  
*Leopold Eidlitz*
- Huerta, Benito  
*Intermezzo*  
*Maestros Tejanos*  
*Points of Convergence*  
*Soundings*
- Hunter, Ski  
*Coming Out and Disclosures*
- Huseman, Ben W.  
*Revisualizing Westward Expansion*
- Ingram, Penelope  
*The Signifying Body*
- Israel-Pelletier, Aimee  
*History and Culture of the Jews from Egypt in Modern Times*
- Jacobson, Heather  
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- Rao, K. R.  
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*Lenguaje*
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- Rodnitzky, Jerome L.  
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Snow, Diane  
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Tao, M.  
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Trevino, Roberto R.  
*Catholicism in the American West*

Veerabathina, Nilakshi  
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Vicino, Thomas J.  
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at Arlington**