



**A CELEBRATION OF FACULTY  
ACHIEVEMENT**  
**Fall 2010**

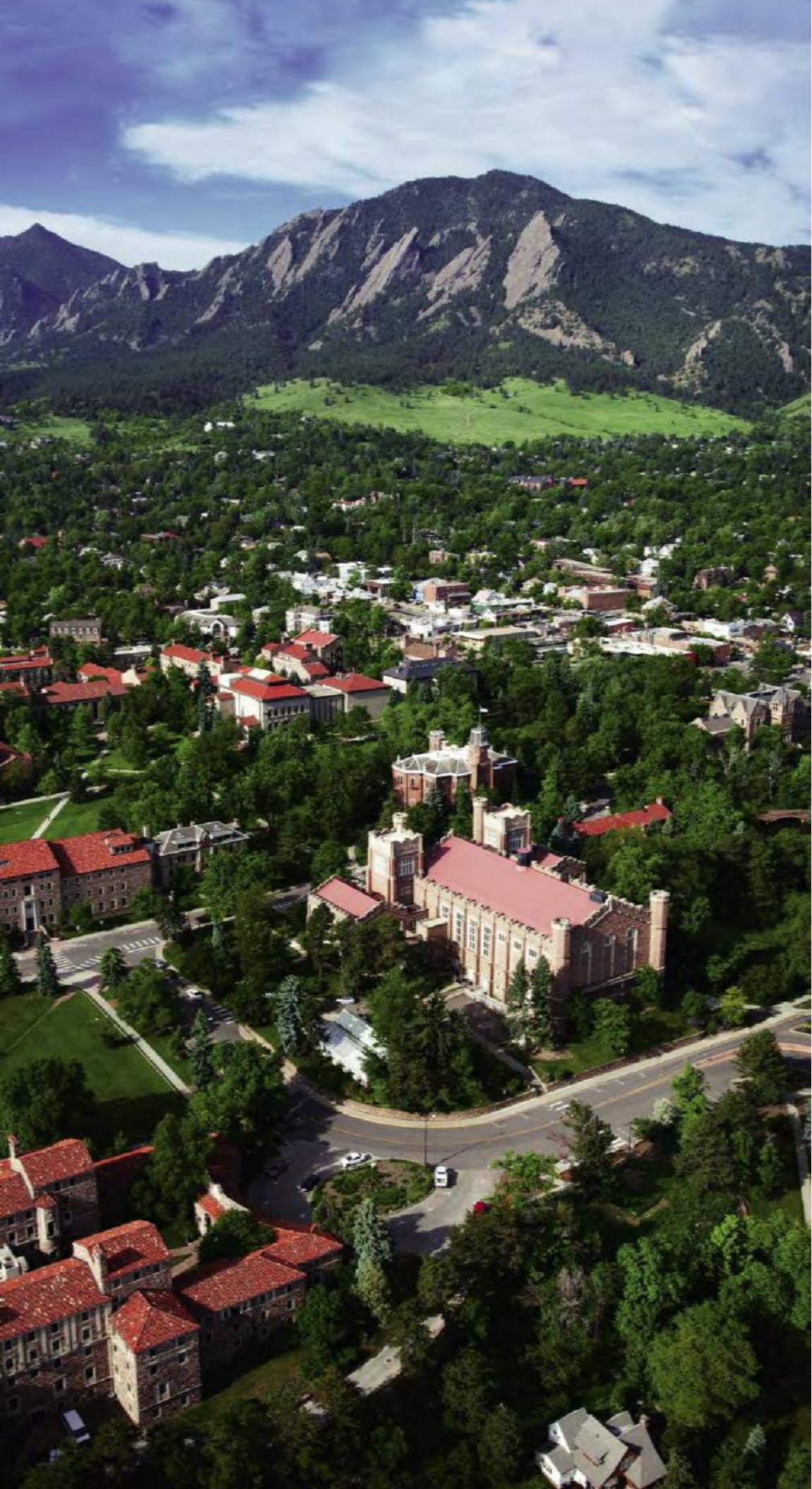


University of Colorado Boulder

A  
Celebration  
of  
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## The true greatness of a university

can be measured not by the beauty of its campus, the breadth of the programs it offers, or the success of its athletic teams, important as all these are. Above all else, the greatness of a university rests squarely on the talents and accomplishments of its faculty.

At the University of Colorado Boulder, we are blessed with faculty members who engage in groundbreaking research, scholarship, and creative work; who bring the fruits of their inquiries into the classroom to provide our students with an education of the highest quality; and who contribute in numerous other ways to shape the character and future not only of the state and region but, indeed, of the world. It is not much of an overstatement to say that the university *is* its faculty.

Every year the accomplishments of our faculty grow in number and significance, a fact reflected in the numerous awards and other recognitions our faculty receive. Some are recognized by their campus colleagues for their distinguished contributions in teaching, research, or service. Others have received national and international recognition, including some of the most prestigious awards scholars can receive.

To list all the accolades earned by our faculty would require a substantial volume. This brochure can contain only a representative sampling. Highlighted on these pages are those faculty members who have earned tenure or promotion to the rank of professor. Other faculty members profiled in these pages have received fellowships or academic prizes, have been designated as CU-Boulder Distinguished Faculty, or have become members of prestigious academic societies. These faculty members, together with the many distinguished faculty members not included here, contribute to realizing the university's vision of excellence in teaching, learning, discovery, and creativity—all in the service of a brighter future for Colorado and the world.

A handwritten signature in black ink, reading "Russell Moore". The signature is fluid and cursive, with the first name "Russell" and last name "Moore" clearly legible.

Russell Moore

Interim Provost and Executive Vice Chancellor for Academic Affairs



THREE DAYS BEFORE  
THE SHOOTING ...

THE UNFINISHED SECOND NOVEL  
**RALPH ELLISON**  
Edited by John Callahan and Adam Bradley

# Faculty Tenure and Promotion

## **Tenure Recipients**

*(Effective 2010)*

**Krister Andersson**, Political Science;  
Environmental Studies  
**Meredith Betterton**, Physics  
**Andrew Cain**, Classics  
**John Cassano**, Atmospheric and  
Oceanic Sciences; Cooperative  
Institute for Research in  
Environmental Sciences  
**Lucy Chester**, History; International  
Affairs  
**Xinzhao Chu**, Aerospace Engineering  
Sciences; Cooperative Institute for  
Research in Environmental Sciences  
**Corrella Detweiler**, Molecular, Cellular,  
and Developmental Biology  
**J. Michael Dunn**, Music  
**Jaelyn Eberle**, Geological Sciences;  
University Museum  
**Marissa Ehringer**, Integrative Physiology;  
Institute for Behavioral Genetics  
**Anna Ferris**, University Libraries  
**Maw-Der Foo**, Business  
**Leila Gomez**, Spanish and Portuguese  
**Victor Gurarie**, Physics  
**Chuan He**, Business  
**Rob Knight**, Chemistry and Biochemistry  
**Daryl Maeda**, Ethnic Studies  
**Thomas Marchitto**, Geological Sciences;  
Institute of Arctic and Alpine Research  
**Gunnar Martinsson**, Applied  
Mathematics  
**Carole McGranahan**, Anthropology  
**Robert McLeod**, Electrical, Computer,  
and Energy Engineering  
**J. Will Medlin**, Chemical and Biological  
Engineering  
**Martina Miranda**, Music  
**Paul Moeller**, University Libraries  
**Patricia Morris**, University Libraries  
**Mithi Mukherjee**, History  
**David Noone**, Atmospheric and Oceanic  
Sciences; Cooperative Institute for  
Research in Environmental Sciences  
**H. Jerry Qj**, Mechanical Engineering  
**Cora Randall**, Atmospheric and Oceanic  
Sciences; Laboratory for Atmospheric  
and Space Physics  
**Peter Simonson**, Communication  
**Thomas Vossen**, Business  
**Laura Winkiel**, English **Emily**  
**Yeh**, Geography **Zhiqiang**  
**“John” Zhai**, Civil,  
Environmental, and Architectural  
Engineering

## **Promotions to Full Professor**

*(Effective 2010)*

**Rajagopalan Balaji**, Civil, Environmental,  
and Architectural Engineering  
**Paul Chinowsky**, Civil, Environmental,  
and Architectural Engineering  
**Sharon Collinge**, Ecology and  
Evolutionary Biology; Environmental  
Studies  
**Christopher DeSouza**, Integrative  
Physiology  
**Elizabeth Farr**, Music **Nicholas**  
**Flores**, Economics **Richard**  
**Green**, Mathematics **Murat**  
**Iyigun**, Economics  
**Dale Lawrence**, Aerospace Engineering  
Sciences  
**Andrew Martin**, Ecology and Evolutionary  
Biology  
**Akira Miyake**, Psychology and  
Neuroscience  
**Emma Perez**, Ethnic Studies  
**Andrew Phillips**, Chemistry and  
Biochemistry  
**Cora Randall**, Atmospheric and Oceanic  
Sciences; Laboratory for Atmospheric  
and Space Physics  
**Alan Townsend**, Ecology and  
Evolutionary Biology; Institute of  
Arctic and Alpine Research  
**Shijie Zhong**, Physics



# CU-Boulder Distinguished Professors

The University of Colorado awards the title of “distinguished professor” to recognize the outstanding contributions of faculty members to their academic disciplines. Faculty members who are designated as “distinguished professor” are leaders in their respective fields as demonstrated by national or international recognition and/or significant public service achievements.

## Active Distinguished Professors

**Kristi S. Anseth**, Chemical and Biological Engineering  
**Frank S. Barnes**, Electrical, Computer, and Energy Engineering  
**Roger G. Barry**, Geography; Cooperative Institute for Research in Environmental Sciences  
**Marvin Caruthers**, Chemistry and Biochemistry  
**Thomas R. Cech**, Chemistry and Biochemistry  
**Andrzej Ehrenfeucht**, Computer Science  
**Margaret A. Eisenhart**, Education **Delbert S. Elliott**, Institute of Behavioral Science  
**Barbara Engel**, History  
**Carl Lineberger**, Chemistry and Biochemistry; JILA  
**Steven Maier**, Psychology and Neuroscience  
**James R. Markusen**, Economics  
**Allan McMurray**, Music  
**Jane Menken**, Sociology; Institute of Behavioral Science  
**Margaret Murnane**, Physics; JILA  
**Norman Pace**, Molecular, Cellular, and Developmental Biology  
**Linda R. Watkins**, Psychology and Neuroscience  
**Carl E. Wieman**, Physics; JILA  
**Charles F. Wilkinson**, Law

## Retired Distinguished Professors

**Stephen Fischer-Galati**, History  
**Fred W. Glover**, Business **Richard Jessor**, Psychology and Neuroscience; Institute of Behavioral Science  
**Robert L. Linn**, Education  
**Richard McCray**, Astrophysical and Planetary Sciences  
**J. Richard McIntosh**, Molecular, Cellular, and Developmental Biology  
**Marjorie K. McIntosh**, History  
**David Prescott**, Molecular, Cellular, and Developmental Biology  
**Wolfgang Schmidt**, Mathematics  
**William B. Wood**, Molecular, Cellular, and Developmental Biology

## Deceased Distinguished Professors

**Hazel E. Barnes**, Philosophy  
**Kenneth Boulding**, Economics  
**James S. (Stan) Brakhage**, Film Studies  
**Stuart Cook**, Behavioral Science **Stanley Cristol**, Chemistry and Biochemistry  
**David Hawkins**, Philosophy  
**Keith R. Porter**, Molecular, Cellular, and Developmental Biology  
**Gilbert White**, Geography

# Faculty Fellowships Awarded

## *2010–11 Academic Year*

Faculty Fellowships were created to acknowledge research excellence and to allow faculty members to devote an entire year to their research projects. The fellowships are highly competitive and are based on the applicant's proposal and professional record as well as the promise that the applicant's research will result in significant contributions to academia and society.

**Kirk Ambrose**, Associate Professor, Art and Art History **John**

**Bally**, Professor, Astrophysical and Planetary Sciences

**Andrew Cain**, Associate Professor, Classics

**Donna Goldstein**, Associate Professor, Anthropology **James**

**Goodrich**, Professor, Chemistry and Biochemistry **Dennis**

**McGilvray**, Professor, Anthropology

**J. Will Medlin**, Associate Professor, Chemical and Biological Engineering

**Richard Noble**, Professor, Chemical and Biological Engineering

**Yunping Xi**, Professor, Civil, Environmental, and Architectural Engineering

**Emily Yeh**, Associate Professor, Geography





## President's Teaching Scholars at CU-Boulder

This program, established in 1989 as a University of Colorado presidential initiative, is designed to honor faculty members who have excelled in teaching and scholarship, creative work, or research, and to promote teaching excellence throughout the university. The President's Teaching Scholars are chosen from CU's three campuses not only for skill in their own classroom but also for their promise of improving education and enlarging its possibilities across the university. They serve as ambassadors for teaching and for research focused on improving teaching and learning. President's Teaching Scholars strive to integrate research into their teaching and mentoring of students while working to develop programs for improving instruction within individual courses, departments, and the campus as a whole.

### *2010 Recipient*

#### **Diane Sieber**

*Associate Professor, Herbst Program of Humanities*

Professor Sieber is well known in the CU-Boulder community for her interdisciplinary scholarship and her ability to establish a deep rapport with students through the use of technology. She joined the CU-Boulder faculty in 1993 in the department of Spanish and Portuguese and later became co-director of the ATLAS Institute. Since 2007 Sieber has served as director of the Herbst Program of Humanities for Engineers.



Professor Sieber is keenly interested in computer programming, web design, and digital art and has forged a unique research program at the intersection of classical literature and cutting-edge technology. In 2008 she gained international media attention from an informal, all-class experiment she conducted after noticing that some students were distracted because they were busy e-mailing, blogging, and playing online video games during class. She noted the students who were digitally distracted before giving an exam and later announced to the class that the average test score of those students was 12 percent lower than the rest of the class. Students who changed their ways improved their test scores, but those who resisted repeated their lower performance. Professor Sieber's career shows the evolution of a scholar with roots in the languages and literature who recognized a unique opportunity to integrate emerging information technologies into these traditional disciplines.

# President's Teaching Scholars at CU-Boulder

## Active Scholars

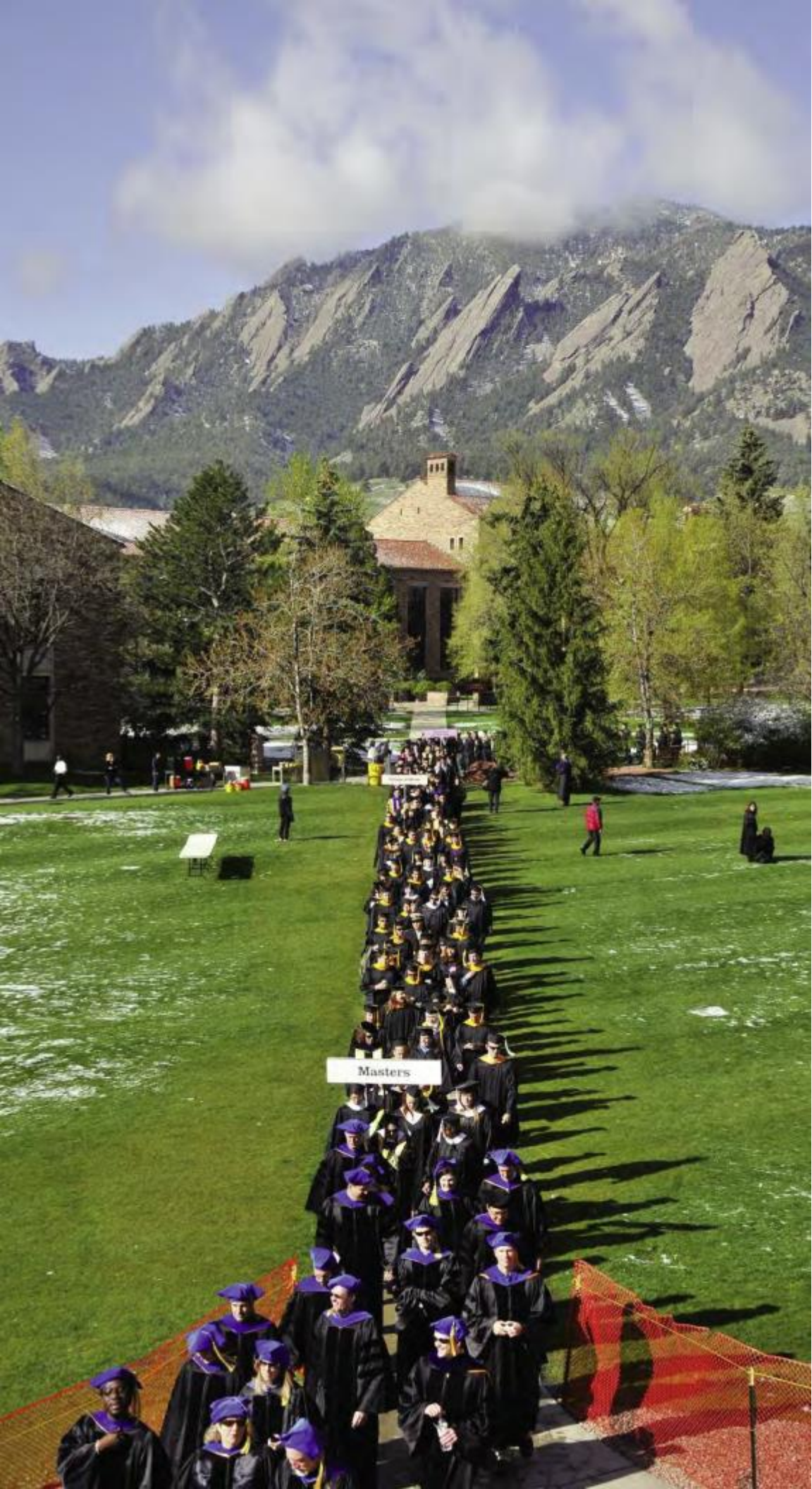
**Brian Argrow**, Aerospace Engineering Sciences  
**Daniel Barth**, Psychology and Neuroscience  
**Martin Bickman**, English  
**Lee V. Chambers**, History  
**Diane Conlin**, Art and Art History; Classics  
**Anne Costain**, Political Science  
**Alexander Cruz**, Ecology and Evolutionary Biology  
**James H. Curry**, Applied Mathematics  
**Stanley A. Deetz**, Communication  
**Michael Eisenberg**, Computer Science  
**John L. Falconer**, Chemical and Biological Engineering  
**Michael Grant**, Ecology and Evolutionary Biology  
**Clayton Lewis**, Computer Science  
**Ronald Melicher**, Business  
**Wesley Morriston**, Philosophy  
**James Palmer**, Film Studies  
**Steven J. Pollock**, Physics  
**Ed Rivers**, English  
**Harvey Segur**, Applied Mathematics  
**J. Michael Shull**, Astrophysical and Planetary Sciences  
**Diane Sieber**, Herbst Humanities **Dennis**  
**Van Gerven**, Anthropology **Linda R.**  
**Watkins**, Psychology and Neuroscience  
**Marianne Wesson**, Law  
**Carl Wieman**, Physics  
**Shelby Wolf**, Education

## Retired Scholars

**Douglas Burger**, English  
**Jack Kelso**, Anthropology  
**William Krantz**, Chemical Engineering  
**Dale Meyer**, Business  
**David M. Prescott**, Molecular, Cellular, and Developmental Biology  
**Norton Steuben**, Law  
**James Symons**, Theatre and Dance  
**John R. Taylor**, Physics  
**Klaus Timmerhaus**, Chemical Engineering

## Deceased Scholars

**Nancy K. Hill**, Humanities  
**Robert Pois**, History



Masters

# CU-Boulder Faculty Awards

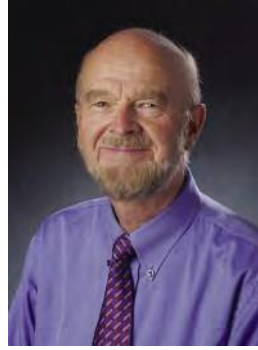
## *Hazel Barnes Prize*

The \$20,000 Hazel Barnes Prize is the largest single faculty award funded by the university. It was established in 1991 by former Chancellor James Corbridge in honor of Professor Emerita of Philosophy Hazel Barnes to recognize the enriching interrelationship between teaching and research.

## Juri Toomre

*Professor, Astrophysical and Planetary Sciences; JILA*

Professor Toomre is internationally recognized for his groundbreaking research and his exceptional teaching record since joining the faculty in 1970. His research has emphasized solar physics, astrophysical fluid dynamics, supercomputing simulations, and helioseismology, the use of sound waves produced by the sun to learn about its interior structure. Toomre's research efforts have led to new perspectives in the theoretical work on fluid dynamics. He is an international leader in astrophysical fluid dynamics and an expert on the oscillations of the sun. Toomre has written seminal research papers and review articles, including cover articles for *Science* and *Scientific American*.



Professor Toomre's stature is reflected in leadership roles he plays in the field. He served as vice chair of the Solar Observatory Council of the Association of Universities for Research in Astronomy (AURA) with oversight for the National Solar Observatory. He has been a member and chair of the Space Telescope Institute Council overseeing the Hubble Space Telescope operations. Toomre chairs the Global Oscillation Network Group's scientific advisory committee and serves on the central committee of Astro2010, the decadal survey of astronomy and astrophysics. His teaching awards include the title of Professor of Distinction, awarded by the CU-Boulder College of Arts and Sciences in 2009, and a Teaching Recognition Award sponsored by the Student Organization for Alumni Relations.

# CU-Boulder Faculty Awards

## Robert Stearns Award

Given by the CU Alumni Association, the Robert Stearns Award recognizes faculty for outstanding teaching, extraordinary service, exemplary work with students, significant research, and off-campus service to the community.

### John Cumalat

*Professor, Physics*

Professor Cumalat, who joined the CU-Boulder faculty in 1981, is recognized for his long history of extraordinary contributions to the university and a career marked by many achievements. An experimental elementary particle physicist, Cumalat focuses his research on the study of strong interaction production mechanisms and the subsequent weak decay of quark “charm” and “beauty” states. He has conducted experiments at Fermi National Accelerator Laboratory (Fermilab) in Illinois. For the past several years, Cumalat has served as a spokesman for the Fermi project, and he is involved in the development of new devices and techniques to be used for elementary particle detection.



In 2009 Cumalat was elected a fellow of the prestigious American Association for the Advancement of Science for his leadership in the design and implementation of beams, detectors, and data analysis in multiple Fermilab experiments producing lasting measurement of properties of charmed particles. Cumalat is involved in the Large Hadron Collider particle accelerator project located at the European Organization for Nuclear Research facility (known as CERN), where scientists study the building blocks of matter and the forces that hold them together. He is part of a team using the world’s brawniest particle accelerator to attempt to recreate the conditions immediately following the Big Bang and to better understand mysterious dark matter, dark energy, and fundamental physics.



# CU-Boulder Faculty Awards

## Richard Noble

*Professor, Chemical and Biological Engineering*

Professor Noble, the Alfred T. and Betty E. Look Professor of Chemical Engineering, has devoted his career to studying chemical separations technology. His work has applications for fuel-cells and microscale devices. Noble has published nearly 300 articles and has been recognized with numerous awards for teaching, research, and service, including CU-Boulder's Inventor of the Year award, a Renewable and Sustainable Energy Institute fellowship, and the prestigious American Institute for Chemical Engineers Award for Excellence. He holds or has applied for more than 25 patents. He also received the Bank One Colorado Faculty Community Service Award for 1994–95 for his work with Voices for Children, a non-profit agency serving abused and neglected children in Boulder County. Professor Noble is the lead investigator on a Defense Threat Reduction Agency project to develop a new type of composite membrane with molecule-sized pores to protect people from airborne industrial toxins and chemical warfare agents.



One of the university's top teachers, Noble is known for being an open, straightforward, and innovative problem-solver. In 2003 he received a Fulbright Senior Specialist grant to teach environmental science at Hassan II University in Morocco. Professor Noble has been at CU-Boulder since 1981.

## Robert Schulzinger

*Professor, History*

A prominent American historian, Professor Schulzinger is recognized for his lifetime accomplishments as a professor, researcher, and author. He is director of the International Affairs Program at CU-Boulder, a College of Arts and Sciences Professor of Distinction, and a faculty member at CU-Boulder since 1977. Schulzinger is the author or co-author of 12 books and more than 60 articles on the history of United States foreign relations and recent American history. Among his books are *Henry Kissinger: Doctor of Diplomacy*; *A Time for War: The United States and Vietnam, 1941–1975*; and *A Time for Peace: The Legacy of the Vietnam War*.



Professor Schulzinger is an internationally recognized expert on U.S. foreign policy, diplomacy, and contemporary U.S. politics. He is a past-president of the Society for Historians of American Foreign Relations (SHAFR) and has been the editor-in-chief of SHAFR's journal *Diplomatic History* since 2001. He was a member of the U.S. State Department's Advisory Committee on Historical Diplomatic Documentation from 1996 to 2005. In 2006 he participated in an unprecedented conference hosted by the Presidential Libraries and the National Archives that examined the history of the Vietnam War and the American presidency.



# CU-Boulder Faculty Awards

## 2010 College of Arts and Sciences Professors of Distinction

The honorary title Professor of Distinction is reserved for scholars and artists of national and international distinction who are recognized by their peers as teachers and colleagues of exceptional talent. Appointments to this title are made from those holding the rank of professor in the College of Arts and Sciences.

### Fred Anderson

*Professor, History*

An award-winning historian of early North American history, Professor Anderson focuses his research and teaching on the colonial period, the American Revolution, and early U.S. history. He is the author or editor of five books, including two critically acclaimed books, *Crucible of War: The Seven Years' War and the Fate of Empire in British North America* and *The Dominion of War: Empire and Liberty in North America, 1500–2000*. His book *Crucible of War* was the inspiration for the PBS documentary series called “The War That Made America.”



Anderson has held prestigious fellowships from the National Endowment for the Humanities, the Charles Warren Center of Harvard University, the John Simon Guggenheim Foundation, and the Rockefeller Foundation. *Crucible of War* received two prestigious awards—the Francis Parkman Prize for “the best book on American history” and the Mark Lynton History Prize for the “best book-length work of history.” A member of the faculty since 1983, Professor Anderson is director of the CU-Boulder Honors Program. He has twice received a prestigious Faculty Fellowship from CU-Boulder’s Council on Research and Creative Work.

### Leslie Leinwand

*Professor, Molecular, Cellular, and Developmental Biology*

Professor Leinwand is recognized for her life-changing research on the genetics and molecular physiology of cardiomyopathies, diseases that weaken the heart muscle. She holds a Marsico Endowed Chair of Excellence for her teaching and research activities associated with the study of genetic heart defects. She works on fundamental processes such as gene mapping, gene organization, and RNA transcription. For her significant contributions to Colorado’s bioscience industry, she received a Colorado BioScience Association Lifetime Achievement Award in 2009. She is director of the Colorado Initiative in Molecular Biotechnology and was interim director of the Linda Crnic Institute for Down Syndrome.



Professor Leinwand has won a number of national awards for her research and teaching. She is a Howard Hughes Medical Institute professor, a fellow of the American Association for the Advancement of Science, and a recipient of a National Heart, Lung, and Blood Institute MERIT award. She also is a professor in the cardiology division at the University of Colorado Anschutz Medical Campus and is a co-founder of Myogen Inc., a highly successful CU spinoff company begun in 1999 to research and treat cardiovascular ailments with small molecule therapeutics. Professor Leinwand came to CU-Boulder in 1995.



# CU-Boulder Faculty Awards

## Kayden Book Award

Named for Eugene M. Kayden, a 1912 CU-Boulder alumnus who went on to a distinguished career as a scholar and teacher of economics, the Kayden Book Award is open each year to CU-Boulder faculty in the humanities. Awardees receive a research stipend, and their department receives a grant to organize a one-day author-meets-critics symposium on their award-winning book.

### Juan Pablo Dabove

*Associate Professor, Spanish and Portuguese*

*Nightmares of the Lettered City: Banditry and Literature in Latin America, 1916–1929* presents an original study of the popular theme of banditry in works of literature and banditry's pivotal role during the conceptualization and formation of the Latin American nation-state. Dabove examines writings over a broad time period, and while the book focuses on four crucial countries (Argentina, Mexico, Brazil, and Venezuela), it is the first to address the depiction of banditry in Latin America as a whole. Dabove analyzes the bandit as a radical other, a figure through which the elites depicted the threats posed to them by various sectors. As he convincingly demonstrates, the elite's construction of the bandit is essential to our understanding of the development of the Latin American nation in the 19th and early 20th centuries. Professor Dabove joined the CU-Boulder faculty in 2002.



### Suzanne Magnanini

*Associate Professor, French and Italian*

In *Fairy-Tale Science: Monstrous Generation in the Tales of Straparola and Basile*, Professor Magnanini looks at the birth of the literary fairy tale in the context of early modern discourses on the monstrous and explains how scientific discourse and literary theories of the marvelous limited the genre's success in Europe. Between 1550 and 1650, fanciful stories of women giving birth to animals, young girls growing penises, and valiant men slaying dragons appeared in Europe. Circulated in scientific texts and in the first two collections of fairy tales published on the continent, the stories invigorated readers and established a new literary genre. Magnanini argues that men of science positioned the fairy tale in opposition to science and fixed it as a negative pole in a binary system. *Fairy-Tale Science* expands our understanding of the early modern European imagination. Professor Magnanini has been a member of the CU-Boulder faculty since 2000.



## Kayden Book Award—Honorable Mention

### Teresa Toulouse

*Professor, English*

*The Captive's Position: Female Narrative, Male Identity, and Royal Authority in Colonial New England*

# CU-Boulder Faculty Awards

## Provost's Faculty Achievement Awards

These annual awards are presented to selected faculty members who have offered recent significant publications or creative contributions in their academic fields. Awardees receive a research grant and a plaque recognizing their achievement.

### Pre-Tenure Recipients

**Stephanie Bryant**, Chemical and Biological Engineering

**Chris Heathwood**, Philosophy

**Daniel Kellogg**, Music

**Paul Ohm**, Law

**Li Shang**, Electrical, Computer, and Energy Engineering

### Tenured Recipients

**Kim Dickey**, Art and Art History

**Victor Fleischer**, Law

**Kira Hall**, Linguistics

**Raphael Piestun**, Electrical, Computer, and Energy Engineering

**Hanspeter Schaub**, Aerospace Engineering Sciences

**Jeffrey Thayer**, Aerospace Engineering Sciences

**Pei-San Tsai**, Integrative Physiology



# Boulder Faculty Assembly Awards

Each year the Boulder Faculty Assembly presents up to 12 awards for faculty excellence. The awards are given in three categories—teaching; service; and research, scholarly, and creative work—based on nominations submitted by faculty colleagues. These awards recognize outstanding achievements in the classroom, in the community, and in the disciplines.

## *Boulder Faculty Assembly Excellence in Teaching Award*

### David Barnett

*Associate Professor, Philosophy*

A member of the CU-Boulder faculty since 2005, Professor Barnett is an extraordinarily gifted teacher, producing what one of his colleagues says is a “real life-changing effect” on his students. He is adept at making difficult ideas in philosophy accessible to students through a savvy combination of humor, storytelling, and technology. Much of his success can be attributed to his classroom use of innovative digital presentations and videos. This use of technology engages with popular culture in a way that makes philosophy relevant to students’ lives. What is remarkable about Barnett’s teaching style is the way he inspires his students to become philosophers in their own right so that they can create their own theories about issues that are foundational to the field.



Professor Barnett’s areas of specialization are the philosophy of language, metaphysics, and the philosophy of the mind. Barnett turns the arcane into the relevant, as he did, for example, in an introductory class where he illuminated classical interpretations of the nature of knowledge through a hypothetical narrative about endangered puffins. His skills as a teacher are reflected in stunningly high student rankings. Professor Barnett is celebrated because he imparts what he knows with enthusiasm and dazzling juxtapositions of seemingly unrelated concepts.

### Janet deGrazia

*Senior Instructor, Chemical and Biological Engineering*

Janet deGrazia is widely regarded by students and colleagues as an exceptional teacher who inspires excellence in CU students and sparks an interest in math and science in school children. Her student course evaluations point to nearly unparalleled success in teaching even large, challenging classes.

At CU-Boulder since 1999, deGrazia helped raise more than \$1.5 million in grants for the Integrated Teaching and Learning Laboratory at CU-Boulder to develop a pre-engineering curriculum for elementary schools.



She has published several peer-reviewed articles on education. Known for her extensive K-12 outreach activities, deGrazia has designed and taught professional development workshops for K–12 teachers that use engineering to provide a standards-based curriculum for science and math classes. She also starred in the weeklong TV show “The ABCs of Engineering” for grade school students and teachers. Her work has been recognized by numerous teaching and mentoring awards, including outstanding faculty undergraduate teaching awards in chemical and mechanical engineering, the “Professor Who Makes a Difference” award in mechanical engineering, and the Sullivan-Carlson

## Boulder Faculty Assembly Awards

Innovation in Teaching Award. Her colleagues consider her as someone who maintains high expectations and standards while recognizing and responding effectively to the full range of student needs.

### Mary Nelson

*Instructor, Applied Mathematics*

Since joining the CU-Boulder faculty in 1997, Mary Nelson has focused on integrating active learning components into math and science courses to make the concepts more understandable and accessible to students.

Nelson has conducted groundbreaking research on the use of oral assessments before tests as an educational tool to enhance students' conceptual understanding of mathematics. This approach strengthens students' understanding of important math concepts and their capacity to apply knowledge in new and novel situations. Such efforts are particularly important for students at risk of failing calculus, considered a gateway course for science and engineering majors. With the transformative power of her energy and her passion for helping students understand complex concepts, Nelson is able to hold her classes spellbound while learning math. Nelson was chosen to participate in the President's Teaching and Learning Collaborative for 2010. She has also participated in several aspects of the applied mathematics department's K-12 Outreach, teaching calculus, discrete mathematics, and algebra to high school teachers in summer institutes. Students' heart-felt testimonials say it all: "... before coming to CU ... I never knew math was fun." Mary Nelson is a gifted teacher and a pioneer in an innovative and highly successful approach to the teaching of mathematics.



### Nicholas Schneider

*Associate Professor, Astrophysical and Planetary Sciences; Laboratory for Atmospheric and Space Physics (LASP)*

A member of the CU-Boulder faculty since 1989, Professor Schneider is widely praised both by his peers for his systematic and rigorously scientific approach to teaching and by his students for his engaging and effective teaching style. Professor Schneider's research interests span planetary atmospheres and astronomy, space physics, instrumentation, and scientific visualization, with particular focus on ground-based and space-based observations of the Jupiter/ Io system. He is involved with CU's mission to Mars: MAVEN (Mars Atmosphere and Volatile Evolution) and is the science lead for the Imaging UltraViolet Spectrograph to be built at LASP and launched in 2013.



Professor Schneider is a leader in science education reform who continually strives to enrich the educational experience for students. He has had a tremendous impact on how planetary science is taught beyond his own classroom through the groundbreaking textbook he co-wrote called *The Cosmic Perspective*. This student-friendly text engages students' interest through novel material that focuses on human achievement, astronomy, physics, and dynamic systems that sustain life. Professor Schneider changed the traditional approach to teaching planetary science, revamping the content and organization of the subject to make the material more interesting to learn and thus more valuable to students.

# Boulder Faculty Assembly Awards

## Boulder Faculty Assembly Excellence in Service Award

### Lisa Barlow

*Senior Instructor, Baker Residential Academic Program*

Lisa Barlow epitomizes both the spirit and the reality of service integrated with teaching through the sustainability courses she teaches in the Baker Residential Academic Program. Her courses “Creating a Sustainable Future” and “Sustainable Solutions Consulting” have emerged from Barlow’s scientific understanding of the environmental challenges the world is facing.

Barlow creates of hands-on environmental learning opportunities for CU-Boulder students, combining learning with service through a variety of student-led projects—including composting and recycling efforts and other initiatives in support of the university’s campus-wide commitment to conservation and sustainability. Through these projects, Barlow and her students have worked with such campus groups as Dining Services, Facilities Management, and the Environmental Center. Their efforts led to the use of greener cleaning chemicals in campus maintenance and the serving of fair trade coffee by Dining Services. Barlow’s creative and resourceful approach has helped change the behavior and practices on the Boulder campus in terms of energy use, use of sustainable materials, and elimination of toxic and other undesirable materials. She joined the university in 1994.



### Martin Bickman

*Professor, English*

Professor Bickman has worked tirelessly to bring the empowering effects of participatory, active learning to many communities. He has repeatedly provided presentations for CU-Boulder’s Faculty Teaching Excellence Program and the Presidential Teaching Scholars Program. For the English department, he has been indefatigable in training graduate instructors. For the School of Education, Professor Bickman was active in formulating the English Education Program, which prepares future K–12 teachers.

In his role as director of the Service Learning Center, Professor Bickman has been instrumental in working with students and faculty to implement writing and literacy teaching programs at K-12 schools along Colorado’s Front Range. Among many other projects, his students have designed merry-go-rounds and other playground equipment that generate electricity for schools and worked with writers and artists of many ethnic backgrounds to reach out to at-risk students.

Outside the university, Professor Bickman has worked to place undergraduates in Teach for America, served on a Montessori school board, and collaborated with the Boulder Valley School District in founding the New Vista High School in Boulder. For two summers, Professor Bickman has worked pro bono as the master literacy teacher at the Denver Summerbridge Program, training teachers for at-risk students. He has been a member of the CU-Boulder faculty since 1974.



# Boulder Faculty Assembly Awards

## Christopher Braider

*Professor, French and Italian*

Professor Braider is a humanist in the broadest sense; he is both a scholar of the humanities and an individual who brings a depth of feeling for human welfare to his service. His optimistic outlook has been an asset during his multiple terms as department chair and his service on numerous committees not only at all levels of the university but also at the national level. His many contributions typify service that is largely indistinguishable from the best scholarship and teaching.

Professor Braider brought rigorous principles of democracy, consultation, and shared governance to bear as chair of his department. He played a key role in the establishment of the Center for Humanities and Arts and has been one of the most important representatives of the humanities on various campus-level groups working to improve education and scholarship at CU-Boulder. At the national level, he has served on the executive committee for 17th-century French literature of the Modern Language Association. In his words, “Especially in an institution like ours, which expressly embraces the principle of faculty governance and thus a shared responsibility for the common good of faculty, students, and staff alike, service is a natural function, as indispensable and, ideally, as autonomic as breathing.” Professor Braider has been a member of the CU-Boulder faculty since 1992.



## Anne Dougherty

*Senior Instructor, Applied Mathematics*

Anne Dougherty represents the best that CU-Boulder contributes to the academic excellence of students. Through her advising and mentoring efforts in the applied mathematics department, the number of majors in the department has increased from 50 to more than 120 and the number of minors has grown from none to more than 60. Whether she is chatting with students while she walks to class or advising them about their class schedules in a more formal setting, Dougherty encourages the young mathematicians in her charge to think more consciously about their future.

Dougherty is the campus representative for the Goldwater Scholarship, the premier national undergraduate award recognizing outstanding students in math, science, and engineering. Under her direction, students have been quite successful in winning this prestigious award. While many universities cannot claim a single Goldwater Scholar, it is not unusual for CU-Boulder to have three awards in a single year. Dougherty has also led CU-Boulder’s highly successful efforts for the Mathematical Contest in Modeling, an international contest sponsored by the Consortium for Mathematics and Its Applications. In the past five years, five CU-Boulder teams have been in the top 1 or 2 percent of undergraduate applied mathematics problem solvers in the world. The teams that Dougherty has guided include one that was rated “outstanding” three years in a row, an unprecedented recognition. Dougherty contributes in countless other ways to help students succeed academically in their endeavors while carrying on an exhaustive level of engagement with her own activities. She joined the CU-Boulder faculty in 1994.





# Boulder Faculty Assembly Awards

## Boulder Faculty Assembly Excellence in Research, Scholarly, and Creative Work Award

### Fran Bagenal

*Professor, Astrophysical and Planetary Sciences; Laboratory for Atmospheric and Space Physics*

A leader in the space science community, Professor Bagenal studies the magnetic fields of planets, planetary plasmas, and the interaction of planetary objects—from giant Jupiter down to tiny comets—with the solar wind or magnetospheric plasmas.

She has worked on several NASA space missions, including the Voyager mission to Jupiter, Saturn, Uranus, and Neptune and the Galileo and Deep Space 1 missions. She is a co-investigator on NASA's New Horizons mission due to fly past Pluto in 2015.



Professor Bagenal is known in her field for her model of the structure and composition of the Io plasma torus, a region of heavy ions in Jupiter's magnetosphere. Professor Bagenal has also made significant contributions to many other areas of space physics including the outer planet magnetospheres, solar physics, Mars' upper atmosphere, and magnetic fields.

This breadth of extra-terrestrial studies characterizes Professor Bagenal's research agenda, but what makes her unique is her ability to energize students and fellow researchers in these scientific pursuits. She achieves her visionary goals by undertaking research with her students and colleagues, by galvanizing the space science community, and by contributing her insight and efforts to convince funding agencies to move forward on space-craft programs. Professor Bagenal has been a CU-Boulder faculty member since 1989.

### Thomas Johnson

*Professor, Integrative Physiology; Institute for Behavioral Genetics*

Described as “the father of modern aging biology genetics,” Professor Johnson is internationally recognized for his groundbreaking work demonstrating that genetic factors play a major role in regulating the lifespan of the roundworm, *C. elegans*. His research established an entirely new way of looking at the aging process, and it has guided scientists toward the development of more effective strategies for increasing the quality and duration of life.

Professor Johnson's early work established a polygenetic basis for the modulation of life span, but his subsequent finding that a mutation in a single gene, called *age-1*, resulted in dramatic changes in life span provoked enormous changes not only in the way that gerontologists think about the regulation of lifespan but also in the methods used to study lifespan and aging. Professor Johnson's more recent research has produced another paradigm shift as he and his colleagues have demonstrated that caloric restriction increases lifespan in some types of mice and decreases it in others. This result is important because it suggests that caloric restriction should not be used in humans until scientists have identified the genes that modulate the effects of caloric restriction and come to understand how these genes work.



# Boulder Faculty Assembly Awards

## Martha Palmer

*Professor, Linguistics; Institute of Cognitive Science*

Professor Palmer is internationally recognized for her work in computational semantics and Natural Language Processing (NLP) technology and is considered by her peers to be one of the top computational linguists in the world. Her research concerns the representation, acquisition, and use of semantic information in computer systems that process language. In other words, she is teaching machines to understand language.

Professor Palmer has published three books and numerous journal articles, book chapters, and conference presentations. She has served as the president of the Association of Computational Linguistics, chair of the Special Interest Group on Chinese Language Processing and the Special Interest Group on the Lexicon, and as an instructor at the Stanford Summer Linguistics Institute. She also directs the University of Colorado Summer Linguistics Institute.

At CU-Boulder since 2005, Professor Palmer has been actively involved in research in natural language processing and knowledge representation for more than 20 years.



## Takács Quartet

Recognized as one of the world's premiere string quartets, the Takács Quartet has been in residence at CU-Boulder since 1983. Current quartet members are violinists Edward Dusinberre and Karoly Schranz, violist Geraldine Walther, and cellist Andras Fejer.

The Takács Quartet has received numerous awards for its extraordinarily innovative and sensitive performances and recordings. The ensemble's recordings of Beethoven quartets



won both Disc of the Year and the Chamber Award from BBC Music Magazine, a Gramophone Award, and a Japanese Recording Academy Award. Recordings of the early and middle Beethoven quartets earned the group a Grammy, another Gramophone Award, a Chamber Music of America Award, and two awards from the Japanese Recording Academy. The group's recordings of Brahms and Bartok each won a Grammy.

The Takács Quartet performs 90 concerts a year in prestigious venues throughout the United States, Europe, Australia, New Zealand, and Korea. Although the quartet maintains a high-profile international career, its performance schedule is managed carefully to allow for regular and frequent periods of teaching in Boulder. The commitment of the quartet's members to teaching is evident in their summer residencies at the Aspen Festival and at the Music Academy of the West in Santa Barbara. The ensemble is also a visiting quartet at the Guildhall School of Music and Drama in London. Members of the Takács admit a small number of students to their individual classes each year and work intensively with a resident graduate string quartet.



## Additional Academic Achievements

Each year, faculty members at the University of Colorado Boulder receive many honors and recognitions from beyond the campus. They range from the local to the international, and they honor the work of the faculty in teaching, research, and service. The following is a list of some of the most prestigious awards earned by our faculty and serves as a sample of the much larger list of recognitions garnered by our faculty.

### American Academy of Arts and Sciences

Founded in 1780, the American Academy of Arts and Sciences is an international learned society composed of the world's leading scientists, scholars, artists, business people, and public leaders.

### Thomas Blumenthal

*Professor, Molecular, Cellular, Developmental Biology (2010)*

Professor Blumenthal is well known in the fields of biochemistry and molecular genetics. By studying RNA processing in the small nematode worm, *C. elegans*, as a model to understand gene regulation and expression in higher animals, Professor Blumenthal contributes to our understanding of the mechanisms of gene expression. Based on his lab's research, a previously unknown cellular "switch" was discovered that could provide researchers with a new means of triggering programmed cell death. This novel finding has wide implications. Because the failure of programmed cell death is one of the main contributors to the development of tumors, biomedical researchers believe that a better understanding of the programmed cell death process could lead to potential therapeutic agents for individuals suffering from a number of diseases. A member of various key boards and panels in his field and the recipient of support from NIH and NSF as well as a prestigious Guggenheim Fellowship, Blumenthal serves on the editorial board of the WormBook, an online *C. elegans* model organism database. He has been at CU-Boulder since 2006.



### Other CU-Boulder Academy Members

**Marvin Caruthers**, Chemistry and Biochemistry (1994)

**Thomas R. Cech**, Chemistry and Biochemistry (1988)

**Linda Cordell**, Anthropology (2009)

**Eric Cornell**, Physics; JILA (2005)

**Charles DePuy**, Chemistry and Biochemistry (2003)

**Larry Gold**, Molecular, Cellular, and Developmental Biology (1993)

**Reid Hastie**, Psychology and Neuroscience (2006)

**James Hynes**, Chemistry and Biochemistry (2009)

**Deborah Jin**, Physics; JILA; National Institute of Standards and Technology (2007)

**Carl Lineberger**, Chemistry and Biochemistry; JILA (1995)

**Jane Menken**, Sociology; Institute of Behavioral Science (1990)

**Josef Michl**, Chemistry and Biochemistry (1999)

**Margaret Murnane**, Physics; JILA (2006)

**Robert Nagel**, Law (2003)

**Norman Pace**, Molecular, Cellular, and Developmental Biology (1991)

**David Prescott**, Molecular, Cellular, and Developmental Biology (1970)

**Wolfgang Schmidt**, Mathematics (1994)

**Noboru Sueoka**, Molecular, Cellular, and Developmental Biology (1969)

**Carl Wieman**, Physics; JILA (1998)

**Gilbert White**, Geography (1969)

**William B. Wood**, Molecular, Cellular, and Developmental Biology (1976)

# Additional Academic Achievements

## National Academy of Education

The National Academy of Education advances the highest-quality education research and its use in policy formulation and practice. It consists of up to 150 U.S. members and 25 foreign associates who are elected on the basis of outstanding scholarship or other outstanding contributions to education. Since its establishment, the academy has sponsored a variety of commissions and study panels that have published influential proceedings and reports.

### Kris Gutierrez

*Professor, Education (2010)*

Renowned for her groundbreaking research in language, literacy, and human development, Professor Gutierrez is a national leader in education. She served on President Obama's Education Policy Transition Team and has been nominated to be a member of the Board of Directors of the National Board for Education Sciences. Her research addresses the relationship among literacy, culture, and learning and focuses on how students appropriate cultural concepts. Specifically, her work examines the processes by which people negotiate meaning in culturally organized contexts using language and literacy embedded within socio-historical traditions. Issues of equity and excellence are recurrent themes in her work.



A CU-Boulder faculty member since 2009, Professor Gutierrez studies the cultural dimensions of literacy learning; the social organization of formal and non-formal learning environments; the effects of new forms of mediation on student and teacher learning; the effects of new policies and reform initiatives on English learners and their schooling practices; and reading and writing development in elementary- and secondary-aged students, including English learners and students from migrant farm worker backgrounds.

### Other CU-Boulder Academy Members

**Margaret Eisenhart**, Education (2004)

**Walter Kintsch**, Psychology; Institute of Cognitive Science (1992)

**Robert Linn**, Education (1990) **Lorrie**

**Shepard**, Education (1992) **Carl**

**Wieman**, Physics; JILA (2009)



# Additional Academic Achievements

## National Academy of Engineering

The National Academy of Engineering includes more than 2,000 peer-elected senior professionals in business, academia, and government who are among the world's most accomplished engineers and who provide leadership and expertise for numerous projects focused on the relationships among engineering, technology, and the quality of life.

### Dan Baker

*Professor, Astrophysical and Planetary Sciences; Laboratory for Atmospheric and Space Physics (2010)*

Professor Baker is being honored for his leadership in the study and development of predictive tools for the Earth's radiation environment as well as for his work on radiation's impact on the nation's security. He is engaged in a broad range of service, research, and education activities that affect knowledge transfer in space research and space weather. He works extensively with industry and the U.S. Department of Defense to share knowledge about the space environment and its impact on human technological systems.



Professor Baker has experience in the analysis of large data sets from spacecraft in geostationary orbit and has been involved in missions to the Earth's deep magnetotail and comets to study solar wind-magnetospheric energy coupling and theoretical modeling of the possible role of heavy ions in the development of magnetotail instabilities. Much of his research effort is directed toward understanding magnetospheric substorms and how these disturbances contribute to anomalies in the operation of near-Earth spacecraft.

A CU-Boulder faculty member since 1994, Professor Baker teaches undergraduate and early-career graduate students about space science at CU-Boulder and at the National Science Foundation Center for Integrated Space Weather Modeling summer school.

### Other CU-Boulder Academy Members

**Bernard Amadei**, Civil, Environmental, and Architectural Engineering (2008)

**Kristi Anseth**, Chemical and Biological Engineering (2009)

**Frank Barnes**, Electrical, Computer, and Energy Engineering (2001)

**George Born**, Aerospace Engineering Sciences (2004)

**Steve Clifford**, Cooperative Institute for Research in Environmental Sciences (1997)

**Ross Corotis**, Civil, Environmental, and Architectural Engineering (2002)

**Fred Glover**, Business (2002)

**Don Hearth**, Aerospace Engineering Sciences (1989)

**Martin Mikulas**, Aerospace Engineering Sciences (1999) **Jacques**

**Pankove**, Electrical and Computer Engineering (1986) **Max Peters**,

Chemical and Biological Engineering (1969)

**Valerian Tatarskii**, Cooperative Institute for Research in Environmental Sciences (1994)

**Klaus Timmerhaus**, Chemical and Biological Engineering (1975)

**Kaspar William**, Civil, Environmental, and Architectural Engineering (2004)

# Additional Academic Achievements

## National Academy of Sciences

Founded in 1863 and considered one of the highest honors for an American scientist or engineer, the National Academy of Sciences is a private, nonprofit, self-perpetuating society of distinguished scholars engaged in scientific and engineering research, dedicated to the furtherance of science and technology and to their use for the general welfare.

**Marvin Caruthers**, Chemistry and Biochemistry (1994)

**Thomas R. Cech**, Chemistry and Biochemistry (1987)

**Noel Clark**, Physics (2007)

**Linda Cordell**, Anthropology; University Museum (2005)

**Eric Cornell**, Physics; JILA (2000)

**Stanley Cristol**, Chemistry and Biochemistry (1972)

**Charles DuPuy**, Chemistry and Biochemistry (1999)

**Lawrence Gold**, Molecular, Cellular and Developmental Biology (1995)

**John Hall**, Physics; JILA (1984)

**Deborah Jin**, Physics; JILA (2005)

**Carl Lineberger**, Chemistry and Biochemistry; JILA (1983)

**Richard McCray**, JILA; Astrophysical and Planetary Sciences (1989) **Richard**

**McIntosh**, Molecular, Cellular, and Developmental Biology (1999) **Jane**

**Menken**, Sociology; Institute of Behavioral Science (1989)

**Joseph Michl**, Chemistry and Biochemistry (1986)

**Margaret Murnane**, Physics; JILA (2004)

**Norman Pace**, Molecular, Cellular, and Developmental Biology (1991)

**David Prescott**, Molecular, Cellular, and Developmental Biology (1974)

**Margaret Tolbert**, Chemistry and Biochemistry; Cooperative Institute for Research in Environmental Sciences (2004)

**Gilbert White**, Geography (1973)

**Carl Wieman**, Physics; JILA (1995)

**William B. Wood**, Molecular, Cellular, and Developmental Biology (1972)



## Additional Academic Achievements

### Nobel Laureates

The Nobel Prize is an international award given yearly for achievements in physics, chemistry, economics, medicine, literature, and peace. Nomination and selection of winners vary according to the category and prize-awarding institutions.

1989

**Thomas R. Cech**

Chemistry and Biochemistry



2001

**Eric Cornell**

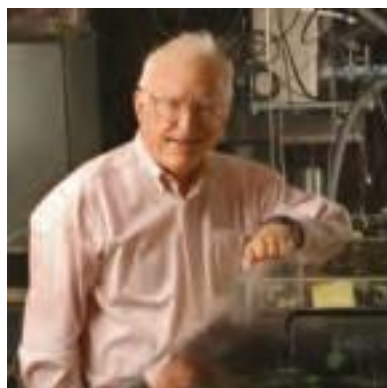
Physics; JILA



2001

**Carl Wieman**

Physics; JILA



2005

**John Hall**

Physics; JILA

2007

A group of hundreds of researchers from around the world that included more than a dozen **CU-Boulder research faculty** shared the Nobel Peace Prize with former Vice President Al Gore for their contributions to the international report of the Intergovernmental Panel on Climate Change (IPCC).

# Additional Academic Achievements

## Guggenheim Fellows

Guggenheim Fellowships are prestigious grants to a select group of individuals that provide fellows with blocks of time to pursue important scholarly work with as much creative freedom as possible. No special conditions are attached to these fellowships, and fellows may spend their grant funds in any manner they deem necessary to their work. Since 1949 over 70 CU-Boulder faculty members have been named Guggenheim Fellows.

### CU-Boulder Guggenheim Fellows since 1998

**Len Ackland**, Journalism and Mass Communication (2008)  
**Fred Anderson**, History (2001)  
**Mitchell C. Begelman**, Astrophysical and Planetary Sciences (1998)  
**Roger Bilham**, Geological Sciences (1999)  
**Albert Chong**, Art and Art History (1998)  
**G. Barney Ellison**, Chemistry and Biochemistry (1999)  
**Barbara Engel**, History (2003) **Steven A. Epstein**, History (1998) **Bruce W. Holsinger**, English (2004)  
**Paul W. Kroll**, Asian Languages and Civilizations (2007)  
**Noel Lenski**, Classics (2009)  
**Russell K. Monson**, Ecology and Evolutionary Biology (1998)  
**John O'Loughlin**, Geography (2004)  
**Margaret Tolbert**, Chemistry and Biochemistry (2005)  
**Veronica Vaida**, Chemistry and Biochemistry (2004)  
**Mark Winey**, Molecular, Cellular, and Developmental Biology (2007)

## MacArthur Fellows

The MacArthur Foundation accepts yearly nominations in as broad a range of fields and areas of interest as possible to identify and support talented individuals—writers, scientists, artists, social scientists, humanists, teachers—who have shown extraordinary originality and dedication in creative pursuits.

**Charles Archambeau**, Physics (1988)  
**David Hawkins**, Philosophy (1981)  
**Deborah Jin**, Physics; JILA (2003)  
**Daniel Jurafsky**, Linguistics; Institute of Cognitive Science (2002)  
**Patricia Limerick**, History (1995)  
**Margaret Murnane**, Physics; JILA (2000)  
**Norman Pace**, Molecular, Cellular, and Developmental Biology (2001)



# Additional Academic Achievements

## National Medal of Science

The National Medal of Science was established by the 86th Congress in 1959 as a Presidential Award to be given to individuals “deserving of special recognition by reason of their outstanding contributions to knowledge in the physical, biological, mathematical, or engineering sciences.”

**Marvin Caruthers**, Chemistry and Biochemistry (2006)

**Thomas R. Cech**, Chemistry (1995) **Keith**

**Roberts Porter**, Biology (1976) **Gilbert**

**White**, Geography (2000)

## Packard Fellows

Candidates for a Packard Fellowship must be faculty members in the first three years of their careers who are eligible to serve as principal investigators engaged in research in the natural and physical sciences or engineering. Disciplines include physics, chemistry, mathematics, biology, astronomy, computer science, earth science, ocean science, and all branches of engineering.

## Pieter Johnson

*Assistant Professor, Ecology and Evolutionary Biology (2008)*

Professor Johnson’s research focuses on two pervasive and inter-related forms of biological change: disease emergence and species invasions. Both have important consequences not only for individuals and populations but also for entire ecological communities and ecosystem processes. Invasions and disease have costly economic and health repercussions for human societies.

Professor Johnson’s current research program is directed toward three interrelated areas: cross-scale drivers of disease emergence; the functional role of disease in ecosystems; and interactions among invasions and habitat alteration. All have immediate relevance to both fundamental questions in ecology and applied conservation issues. Using long-term data, ecological experiments, and modeling approaches, Professor Johnson examines the factors that drive disease emergence and biological invasions to understand how changes in disease and invasion levels affect community interactions and ecosystem processes in aquatic environments. He has been a member of the CU-Boulder faculty since 2007.



**Anton Andreev**, Physics (1999)

**Kristi Anseth**, Chemical and Biological Engineering (1997)

**Elizabeth Bradley**, Computer Science (1995)

**Barbara Demmig-Adams**, Ecology and Evolutionary Biology (1992)

**David Jonas**, Chemistry and Biochemistry (1996)

**Karla Kirkegaard**, Molecular, Cellular, and Developmental Biology (1989)

**John Price**, Physics (1990)

**Leo Radzihovsky**, Physics (1998)

**Alexis Templeton**, Geological Sciences (2006)

**Shijie Zhong**, Physics (2001)

## Additional Academic Achievements

### Fulbright Fellows

The Fulbright program sends 800 U.S. faculty and professionals abroad each year and is intended for candidates who wish to conduct research, teach, or undertake a combination of both at an academic institution of their choice in a host country. Grantees lecture and conduct research in a wide variety of academic and professional fields. CU-Boulder has had more than 100 Fulbright Fellows since 1982.

### Bud Coleman

*Associate Professor, Theatre and Dance*

As a teacher, Professor Coleman's basic philosophy is to provide students with the skills to be able to continue, after the course ends, the activities they were doing during the class. One of his most popular courses is "Development of American Musical Theatre," designed for non-majors wanting to explore the history of this genre, the significant artists involved, and what musical theatre tells us about how America views itself. To demonstrate the vital visual elements of the productions, he utilizes a variety of technologies.

A former dancer, Professor Coleman has directed or choreographed numerous productions, from *Pippin* and *A Funny Thing Happened on the Way to the Forum* to *Into the Woods* and *Dames at Sea*. Professor Coleman is also a playwright and a scholar. He co-edited a collection of essays titled *Women in American Musical Theatre* and has written numerous articles on the performance of gender, musical theatre, and American theatre history. A CU-Boulder faculty member since 1993, Professor Coleman used his Fulbright award to lecture on American musical theatre at Waseda University and Kyoritsu Women's University in Japan.



### Eugene Hayworth

*Associate Professor, University Libraries*

A member of the CU-Boulder faculty since 2002, Professor Hayworth is an important resource for individuals interested in business ethics and corporate social responsibility. He is faculty director at the William White Business Library of the Leeds School of Business and has written many articles on a range of topics including insights about business librarianship in various types of institutions, traditional and non-traditional career paths in business librarianship, and strategies for professional growth.

Professor Hayworth used his Fulbright Fellowship for travel to Germany to explore the impact of the European Union on how countries conduct business. He also lectured on business librarianship at Humboldt University of Berlin. Professor Hayworth has published two books, *Fever Vision: The Life and Work of Coleman Dowell* and *CARL Corporation Subject Guide to the Internet*.



## Additional Academic Achievements

### Astrid Ogilvie

*Research Associate, Institute of Arctic and Alpine Research*

Astrid Ogilvie's research centers on environmental and climatic history and human ecology in the North Atlantic and Arctic regions. Her particular expertise is the analysis of primary historical texts in English, Icelandic, Norwegian, Swedish, and Danish. Other areas of interest include the historical climatology of northern Europe, the reconstruction of historical sea ice records, and the changing seasonality in the Arctic.

Ogilvie currently leads three NSF-funded research projects and is a co-principal investigator on several others. Her specialty is building bridges between the humanities and the natural sciences to further researchers' understanding of long-term human ecodynamics and climate change. She lectured and conducted research on climate and sea ice while at the Stefansson Arctic Institute in Iceland.



### Cecilia Pang

*Associate Professor, Theatre and Dance*

A member of the CU-Boulder faculty since 2003, Professor Pang approaches her teaching, research, and creative work with a philosophy rooted in her passion for making art. She strives to keep her art vital by exploring creative new form and content and by venturing into uncharted territories. As a director and filmmaker, she follows her passion, awakening the powers of thought, feeling, inspiration, and aspiration through the creation of daring new visions.

Professor Pang's theatre directing credits include *Here I Am Here I Stay*, *The Grapes of Wrath*, *Breaking the Code*, *Peeru Gunto*, and *Alice in Wonderland or Not*. Professor Pang's film-making credits range from *What Price Passion*, an official selection of the TOMI Film Festival, to *The Hands that Build Shakespeare*, which was screened by Denver PBS. She conducted research on Cantonese opera at the University of Hong Kong.



