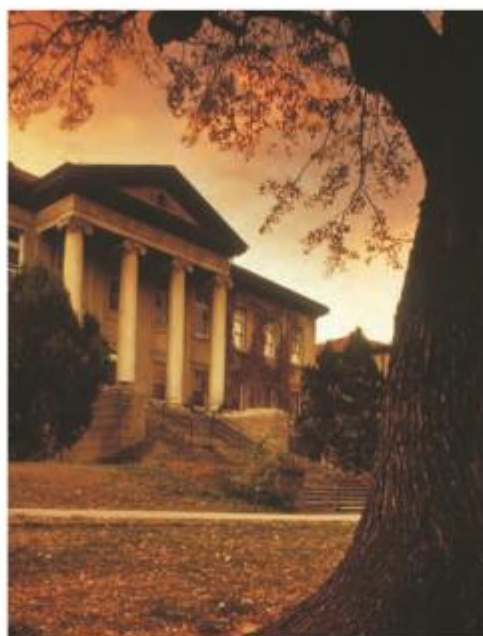




A CELEBRATION OF
FACULTY ACHIEVEMENT

Fall 2009

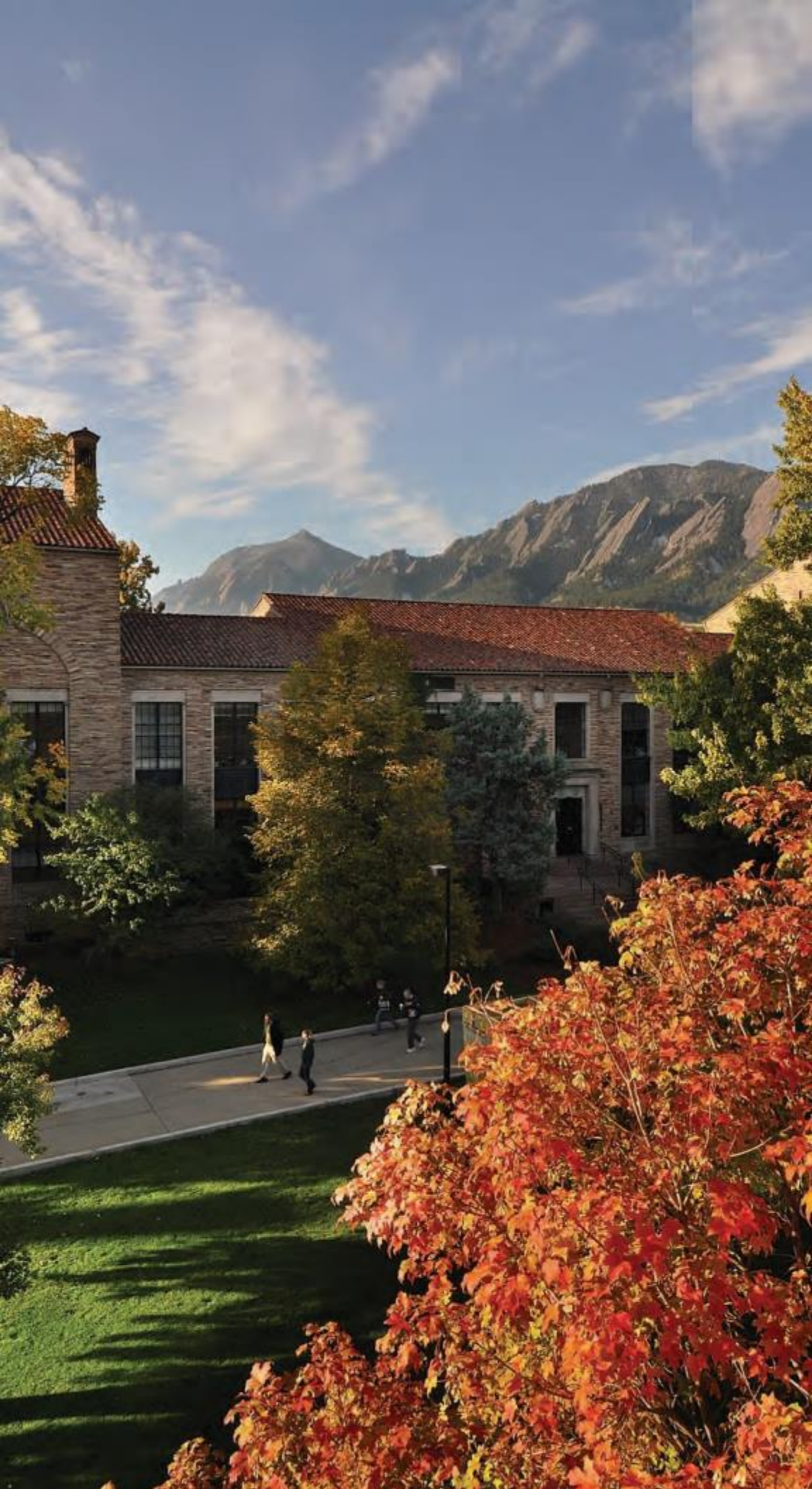
Colorado
University of Colorado at Boulder



A CELEBRATION OF
FACULTY ACHIEVEMENT

Fall 2009

UNIVERSITY OF COLORADO AT BOULDER





The heart of any great university is its faculty, the talented women and men who create new knowledge, who bring that knowledge every day into the classroom, and who use their expertise to serve the various communities of which they are a part. The faculty at the University of Colorado at Boulder—which includes four Nobel Prize laureates and seven MacArthur “Genius”

Fellows—is a truly remarkable group, who, through their devotion to teaching, research, and service, have built a global reputation for CU.

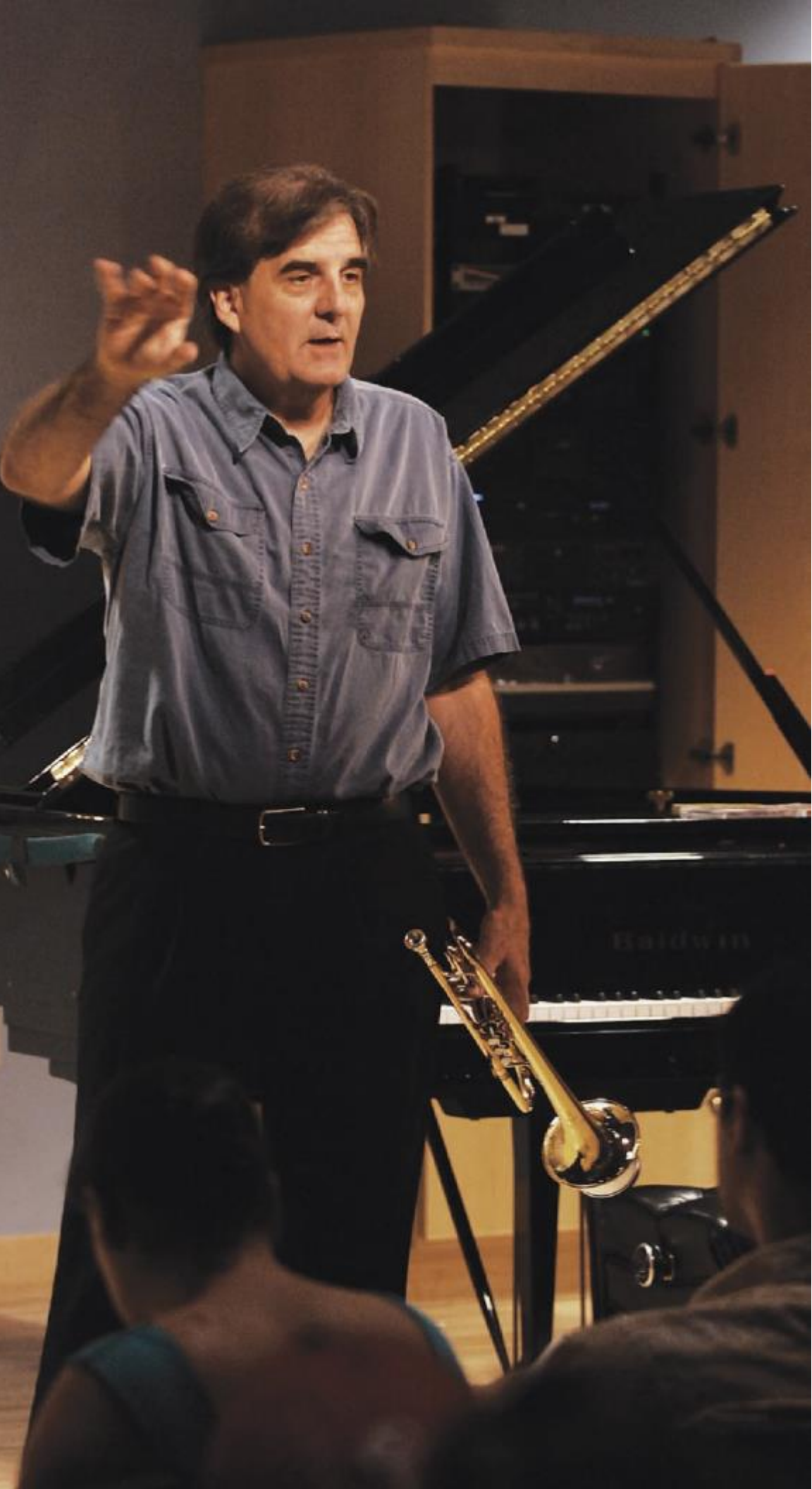
Each year, our faculty adds to that reputation by being recognized for their fine work. Some of these awards are granted at the campus level as faculty are distinguished by their peers. Others are the highest national and international recognitions scholars can receive. Many of these awards are granted to faculty whose knowledge enriches our understanding of the world, to artists who enable us to see that world anew, and to researchers whose discoveries help make the world a better, more livable place. Other prizes celebrate educators whose spirit stimulates intellectual growth and cultural dialogue. Our faculty are also recognized for reaching out to their communities and finding successful new ways to serve the greater good through civic engagement and community outreach.

This publication showcases a sampling of these awards, including individuals who have become full professors, received tenure, become CU-Boulder Distinguished Faculty or gained membership in prestigious honorary academic societies. In reading through these profiles, you will glimpse the extraordinary accomplishments of the CU community as these scholars work to educate their students, collaborate with their colleagues, serve their communities, and enrich the human experience. Their efforts give reality to the campus’s vision of redefining learning and discovery for a new century and to set new standards in education, research, and creative work that will benefit Colorado and the world.

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

Stein Sture

Interim Provost and Executive Vice Chancellor for Academic Affairs



Faculty Tenure and Promotion

Tenure Recipients

(effective 2009)

Kirk Ambrose, Art and Art History

Suzanne Prestrud Anderson,

Geography; Institute of Arctic and
Alpine Research

Andy Baker, Political Science

David Barnett, Philosophy

Elisabeth Arnould-Bloomfield, French
and Italian

Derek Briggs, Education

Karen Chin, Geological Sciences,
University Museum

Nestor Davidson, Law

Liam Downey, Sociology

Elizabeth Dutro, Education

Dejan Filipovic, Electrical, Computer,
and Energy Engineering

Victor Fleischer, Law

Patrick Greaney, Germanic and Slavic
Languages and Literatures

Weiqing Han, Atmospheric and Oceanic
Sciences

Eugene Hayworth, University Libraries

Clare Huntington, Law

Greg Johnson, Religious Studies

Dan Kaufman, Philosophy

R. Keller Kimbrough, Asian Languages
and Civilizations

David Klaus, Aerospace Engineering
Sciences

Jennifer Knieval, University Libraries

Laura Kornish, Business

Xinlin Li, Aerospace Engineering
Sciences; Laboratory for Atmospheric
and Space Physics

Youjian “Eugene” Liu, Electrical,
Computer, and Energy Engineering

Rebecca Maloy, Music

Sharon Matusik, Business

Scott Moss, Law

Jason Neff, Geological Sciences;
Environmental Studies

Roseanna Neupauer, Civil,
Environmental, and Architectural
Engineering

Peter Pilewskie, Atmospheric and
Oceanic Sciences; Laboratory of
Atmospheric Space Physics

Mark Rast, Astrophysical and Planetary
Sciences; Laboratory of Atmospheric
Space Physics

Soo Rhee, Psychology and Neuroscience

Brian Rider, Mathematics

Robert Rupert, Philosophy

Scott Savage, Economics

Elisabeth Sheffield, English

Elizabeth Skewes, Journalism and Mass
Communication

Dena Smith, Geological Sciences;
University Museum

Jerry Stitzel, Integrative Physiology;
Institute for Behavioral Genetics

Conrad Stoldt, Mechanical Engineering

Michael Stowell, Molecular, Cellular, and
Developmental Biology

Jeffrey Thayer, Aerospace Engineering
Sciences

Steve Vanderheiden, Political Science

Kenneth Wright, Integrative Physiology

Chris Yung, Business

Promotions to Full Professor

(effective 2009)

Mark Amerika, Art and Art History

David Boonin, Philosophy

Timothy Brown, Electrical, Computer,
and Energy Engineering

Catherine Cameron, Anthropology

John Culshaw, University Libraries

Tim Curran, Psychology and
Neuroscience

Michael Eisenberg, Computer Science

Monika Fleshner, Integrative Physiology

Dirk Grunwald, Computer Science **Sarah
Krakoff**, Law

Dennis McGilvray, Anthropology

James Nagle, Physics

Martha Palmer, Linguistics, Institute of
Cognitive Science

Peter Pilewskie, Atmospheric and
Oceanic Sciences; Laboratory for
Atmospheric and Space Physics

Steven Pollock, Physics

Kevin Welner, Education

Jan Whitt, Journalism and Mass
Communication



CU-Boulder Distinguished Professors

The University of Colorado extends the title of “distinguished professor” to recognize the outstanding contributions of faculty members to their academic disciplines. This title signifies a select group of faculty members who are leaders in their respective fields as attested to by national or international recognition and/or their 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; 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, Institute of Behavioral Science
Stanley Cristol, Chemistry and Biochemistry
David Hawkins, Philosophy
Keith R. Porter, Molecular, Cellular, and Developmental Biology
Gilbert White, Geography

Faculty Fellowships Awarded

2009–10 Academic Year

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

Phil Armitage, Associate Professor, Astrophysical and Planetary Sciences; JILA

Scott Chamberlin, Professor, Art and Art History

J. Andrew Cowell, Professor, French and Italian

John Cumalat, Professor, Physics

Elsbeth Dusinberre, Associate Professor, Classics

Gerhard Fischer, Professor, Computer Science

Ryan Gill, Associate Professor, Chemical and Biological Engineering

David Jonas, Professor, Chemistry and Biochemistry

David Klaus, Associate Professor, Aerospace Engineering Sciences

J. Terrence McCabe, Professor, Anthropology

Michael Mozer, Professor, Computer Science

Scott Palo, Associate Professor, Aerospace Engineering Sciences

Alan Weimer, Professor, Chemical and Biological Engineering





President's Teaching Scholars at CU-Boulder

This program, established in 1989 as a University of Colorado presidential initiative, is designed to honor faculty who have excelled in teaching and scholarship, creative work or research, and to endorse teaching excellence throughout the university. The President's Teaching Scholars are chosen from CU's three campuses and are designated not only for skill in their own classrooms, but for their promise of improving education and enlarging its possibilities across the university. The Teaching Scholars serve as ambassadors for teaching and for research into assessing how to improve learning in the classroom; they 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.

Featured Scholar



Daniel Barth

Professor, Psychology and Neuroscience

A member of the CU-Boulder faculty since 1990, Professor Barth was named a President's Teaching Scholar in 2004. He is considered to have been a driving force behind the effort to establish an undergraduate neuroscience major at CU-Boulder in recent years. A highly respected classroom teacher, Barth's graduate and undergraduate students find his neuroscience classes to be among the most challenging the department offers, and yet they credit Professor Barth as being among the best professors they have had while at the university.

Professor Barth's neuroscience research interests are in electrophysiology and neurophysiology of sensory systems and how neural mechanisms apply to the treatment of epilepsy. Recent groundbreaking findings reported by Barth and his team show that chronic seizures caused by traumatic head injuries may result from chemicals released by the brain's immune system attempting to repair the injured site. In addition to the President's Teaching Scholarship, Barth's research and teaching have been recognized with a Boulder Faculty Assembly's Excellence in Teaching Award and a Faculty Fellowship.



President's Teaching Scholars at CU-Boulder

Active Scholars

Brian Argrow, Aerospace Engineering Sciences

Daniel Barth, Psychology and Neuroscience

Martin Bickman, English

Douglas Burger, 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; Institute of Cognitive 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

Elizabeth Robertson, English

Harvey Segur, Applied Mathematics

J. Michael Shull, Astrophysical and Planetary Sciences

James Symons, Theatre and Dance

Dennis Van Gerven, Anthropology

Linda R. Watkins, Psychology and Neuroscience

Marianne Wesson, Law

Carl Wieman, Physics; JILA

Shelby Wolf, Education

Retired Scholars

Jack Kelso, Anthropology

William Krantz, Chemical Engineering

Dale Meyer, Business

David M. Prescott, Molecular, Cellular, and Developmental Biology

Norton Steuben, Law

John R. Taylor, Physics

Klaus Timmerhaus, Chemical Engineering

Deceased Scholars

Nancy K. Hill, Humanities

Robert Pois, History



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, or service to the community.



Douglas Burger

Associate Professor, English

Professor Burger, a scholar of Chaucer, medieval culture, and fantasy literature, has been repeatedly recognized for his outstanding efforts in the classroom and his profound impact on students. His career has been marked by many achievements since joining the faculty in 1965, receiving the first of numerous teaching awards in 1967 when he was given the Outstanding Teacher Award by the Student Development Foundation. His awards include the Arts and Sciences Advising Award, the

Boulder Faculty Assembly Award for Excellence in Teaching, and the Mortar Board Professor Recognition Award. In 1989, he was named a University of Colorado President's Teaching Scholar, the university's highest teaching honor.

Retiring after 44 years, Professor Burger's contributions extend beyond the classroom. For many years he served as the English department's associate chair for undergraduate studies, and he also served on the University Honors Committee since the 1980s. A 2009 Boulder Faculty Assembly Excellence in Teaching awardee (see page 19), Burger co-authored the children's books *The Weighty Word Book* and *Weighty Words, Too*, which make learning complex vocabulary fun for children. Burger's passion to share his scholarship reaches into the Boulder community where he gives lectures on the role Christianity plays in medieval and contemporary literature.



Patricia N. Limerick

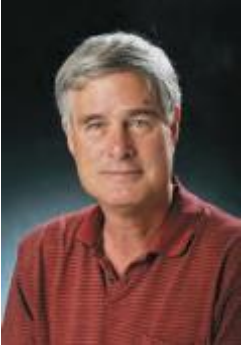
Professor, History

As a nationally respected writer and historian of the American West, Professor Limerick is recognized as an advocate for bringing academic knowledge into the community and for demonstrating the benefits of applying a historical perspective to contemporary conflicts. Limerick is director of CU's Center of the American West. She is author of *The Legacy of Conquest*, a best-selling book on Western American history, as well as *Something in the Soil*, *Desert Passages*, and numerous articles, essays, and

columns appearing in *The New York Times*, *The Wall Street Journal*, and *The Chronicle of Higher Education*.

The Center of the American West, which Professor Limerick co-founded in 1986, serves as a forum committed to civil problem solving and the exploration of key and sometimes contentious public issues. Professor Limerick has received numerous awards and honors recognizing the impact of her scholarship and her commitment to teaching, including State Humanist of the Year from the Colorado Endowment for the Humanities, a prestigious MacArthur Fellowship in 1995, CU-Boulder's top honor—the Hazel Barnes Prize—and the 2008 Distinguished Achievement Award from the Western Literature Association. In addition, she has served on a number of advisory boards and committees, including the board of advisors for an eight-part PBS series, *The West*.

CU-Boulder Faculty Awards



Brian Toon

*Professor and Chair, Atmospheric and Oceanic Sciences;
Laboratory of Atmospheric and Space Physics*

Professor Toon has devoted his career to raising awareness about the atmospheric effects of nuclear war and ozone depletion. His asteroid impact study led to the discovery of the nuclear winter phenomena, which has played a role in nuclear weapons reductions in the United States and the USSR since 1986. In 2006, he became the founding chair of the Department of Atmospheric and Oceanic Sciences. During the past 20 years, he has managed a range of large, complex NASA field missions, bringing together scientists from other universities as well as NASA and governmental agencies and coordinating multiple aircraft and ground stations.

Professor Toon has twice received NASA's medal for Exceptional Scientific Achievement for studies of the climates of Earth and other planets and for his work on the ozone hole. He was a co-winner of the American Physical Society's Leo Szilard Award for Physics in the Public Interest for his work on nuclear winter and has been elected a fellow of the American Meteorological Society and a fellow of the American Geophysical Union. He was also recognized by ISI Thomson Scientific for being one of the most highly cited, influential geosciences researchers in 2002.



CU-Boulder Faculty Awards

2009 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 honorary title are made from those holding the rank of Professor in the College of Arts and Sciences.



John O'Loughlin

Professor, Geography; Institute of Behavioral Science

Professor O'Loughlin is internationally recognized for his work on the complex political geography of the former Soviet Union, as he studies the geopolitical tensions between Russia and the Ukraine and explores the role of Eurasian quasi-states and the rise of ethno-territorial nationalisms. His research helps us to understand one of the world's most conflicted regions, one that poses challenges to the world as a whole. In addition, he has published on the diffusion of democracy, electoral geography, the geography of conflict, and the political geography of Nazi Germany. Dedicated to teaching, O'Loughlin is known not only for his advanced courses on these specialized topics but also for energizing and engaging students in introductory geography classes.

Professor O'Loughlin is editor of *Political Geography* and serves on the advisory committee of CU-Boulder's international affairs undergraduate program. In 2004, O'Loughlin received a prestigious Guggenheim Fellowship for his study of the Ukraine's new borders and geopolitics. In recognition of his creative research and potential contributions to society, he has twice been awarded a highly competitive Boulder Faculty Fellowship, and he received a Boulder Faculty Assembly Award for Excellence in Research, Scholarly, and Creative Work in 2001.



Jerry Rudy

Professor, Psychology and Neuroscience

Since joining the faculty in 1980, Professor Rudy has distinguished himself at CU-Boulder and internationally. His research focuses on learning and memory processes as he seeks to understand the complementary contributions the hippocampus and neocortex make to those basic processes, as well as the influence that immune processes have on memory. This work led to a pivotal breakthrough in science's understanding of the role of the hippocampus. By studying learning and memory processes from several perspectives, including basic experimental work, learning in invertebrates, and the development of learning and memory processes in animals and children, Professor Rudy and a colleague developed the idea that the hippocampus indeed plays a fundamental role in memory.

Rudy has served as editor of the prominent journal *Developmental Psychobiology*, and has been on the editorial boards of six international journals including *Behavioral Neuroscience* and *Neuroscience & Biobehavioral Reviews*. Seeing a need for updated material, he designed a new course—the “Neurobiology of Learning and Memory”—and wrote a textbook to supplement the course. His full-color textbook, *The Neurobiology of Learning and Memory*, makes key concepts transparent and accessible for students and demonstrates his commitment to science and teaching.

CU-Boulder Faculty Awards



Juri Toomre

Professor, Astrophysical and Planetary Sciences; JILA

A scholar of international stature, Professor Toomre is recognized for his outstanding scholarship in theoretical astrophysics and for his tireless contributions to the intellectual life of the department. He is keenly interested in the craft of teaching and has devised innovative web-based tools to enhance learning in several classes. A professor of astrophysics at CU-Boulder since 1975 and a fellow at JILA, Toomre's research efforts have led to new perspectives in the theoretical work on fluid dynamics.

Professor Toomre is an international leader in astrophysical fluid dynamics and an expert on the oscillations of the sun. He has written seminal research papers and review articles, including cover articles for *Science* and *Scientific American*.

Professor Toomre served as vice-chair of the Solar Observatory Council of AURA (Association of Universities for Research in Astronomy) with oversight for the National Solar Observatory and has been a member and chair of the Space Telescope Institute Council that oversees the Hubble Space Telescope operations. He is chair of the Global Oscillation Network Group's scientific advisory committee and chairs the national AURA Decadal Survey Steering Committee dealing with UVOIR astronomy.



John Wahr

Professor, Physics; Cooperative Institute for Research in Environmental Sciences

Professor Wahr has spent his career seeking to understand the form and dynamics of the planet. A world leader in the fields of geodesy and geophysics, he studies the shape of the earth and the physics of space, the atmosphere, the oceans, and the interior of the planet. Wahr broke new ground with his work in the application of geodetic data to geophysical activity, such as global tides, the barometric response of the oceans, and the

Earth's rotation. With his cutting-edge work on time-variable gravity, Wahr has led the way in interdisciplinary geodesy. Professor Wahr's theoretical calculations were one of the enabling technologies that made feasible GRACE, the scientific project utilizing NASA satellites to measure tiny variations in the Earth's gravitational field.

Since 1989, in addition to his appointment at CU-Boulder, he has been a distinguished visiting scientist at the Jet Propulsion Laboratory in Pasadena, California, where he is a member of the GRACE satellite mission science team. He is also a fellow of the American Geophysical Union. Wahr has received many awards for his pioneering work, including the Guy Bomford Prize for Geodetic Research from the International Association of Geodesy and London's Royal Society, the Charles A. Whitten Medal from the American Geophysical Union, the Vening Meinesz Medal from Utrecht and Delft Universities in The Netherlands, and a second Vening Meinesz Medal from the European Geosciences Union for his research on time variable gravity from the GRACE satellite mission. The Vening Meinesz Medal is presented to a distinguished scientist who has contributed significantly to the field of geodynamics.

Boulder Faculty Assembly Award

Each year the Boulder Faculty Assembly presents up to 12 awards for faculty excellence. The awards are broken into three categories—teaching; service; and research, scholarly and creative work—encouraging faculty members to nominate their colleagues for achieving outstanding results in the classroom, in the community, and in their chosen disciplines.

Boulder Faculty Assembly Excellence in Teaching Award



Kira Hall

Associate Professor, Linguistics

Professor Hall is widely regarded by students and colleagues as an exceptional teacher who is helping to build society's knowledge in sociolinguistics, particularly the role of language in the construction of identity. Aside from being an outstanding classroom instructor, Hall is an intellectual force in her department's curriculum. In addition to revamping their key undergraduate curriculum, she has created a new graduate certificate program, CLASP (Culture, Language and Social Practice), which is an interdisciplinary program offering courses that deepen and broaden students' understanding of the sociocultural and sociopolitical aspects of language.

Hall teaches the popular undergraduate courses "Language and U.S. Society" and "Language and Gender," as well as offering graduate courses in sociolinguistics and advising doctoral students. Her research focuses on issues of language and social identity in India and the United States. Among her publications are the co-edited volumes *Gender Articulated: Language and the Socially Constructed Self* and *Queerly Phrases: Language, Gender, and Sexuality*, plus two published volumes on the life and work of Hindi poet and linguist Ved Prakash Vatuk.



J. Will Medlin

Assistant Professor, Chemical and Biological Engineering

Upon joining the faculty of Chemical and Biological Engineering in 2003, Professor Medlin quickly established himself as a dedicated and innovative teacher, as well as a leader in educational reform in the department. From the start of his teaching career, Medlin consistently received exceptional evaluations from his students. Medlin, continually striving to enrich the educational experience both within his academic department and beyond the classroom, developed molecular modeling workshops that he integrated into undergraduate classes to help students better understand molecular processes.

Medlin serves as co-director of two U.S. Department of Education GAANN (Graduate Assistant in Areas of National Need) programs, one in chemical and biological sensing, the other in renewable and sustainable energy. He has received a Patten Assistant Professor Fellowship and a ConocoPhillips Faculty Fellowship and is co-founder and CU site director of the Colorado Center for Biorefining and Biofuels. In recognition of his classroom presence, skill, and ability, Professor Medlin received the Department of Chemical and Biological Engineering's Outstanding Undergraduate Teaching Award. His research has been recognized by the College of Engineering and Applied Science's Outstanding Junior Faculty Award and a National Science Foundation's CAREER Award.

Boulder Faculty Assembly Award



Claudia Mills

Associate Professor, Philosophy

Professor Mills is one of the most highly regarded teachers in the Department of Philosophy. She is recognized for her ability to make her classes entertaining learning experiences while maintaining academic rigor, conceptual sophistication, and philosophical content. A gifted storyteller, Mills uses humor to explain and to illustrate philosophical theses, helping students understand difficult material.

Beyond her exceptional work within the CU-Boulder academic community, Professor Mills has also been successful outside CU's boundaries, developing a flourishing writing career. In addition to her many scholarly articles, she is the author of more than 40 children's books, for which she has received numerous writing awards. She enjoys using children's literature in the philosophy classroom. When she teaches Nietzsche in her introductory ethics class, she reads aloud the picture-book classic *The Rainbow Fish* and then leads a discussion with her students on why Nietzsche would not have liked the book. Her research interests focus on ethical questions regarding the family, such as the rise in the use of behavior-altering medications for children, conflicts between parents and non-parents in the workplace, and intercultural adoption.



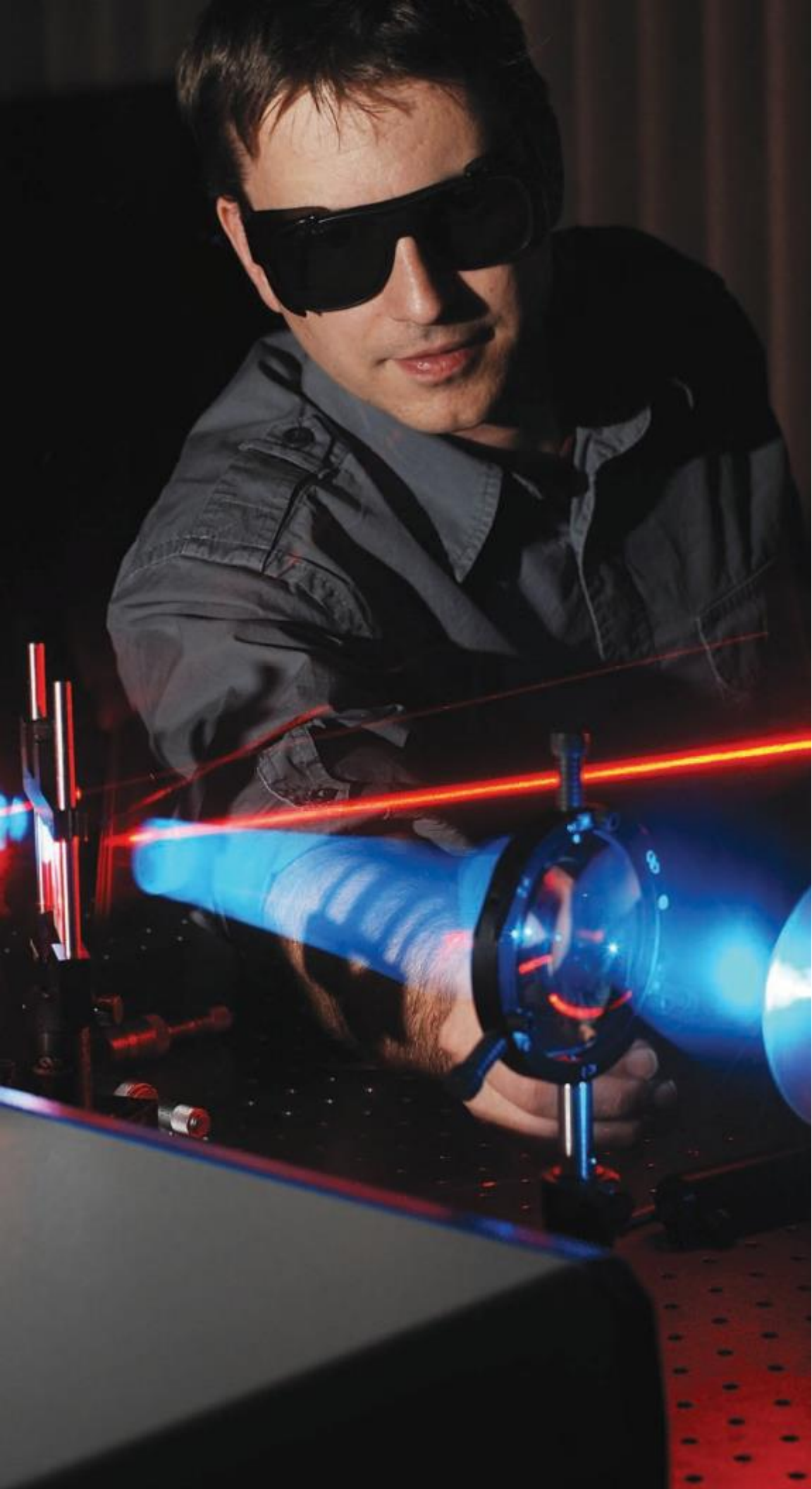
Derek Reamon

Senior Instructor, Mechanical Engineering

Since joining the CU-Boulder faculty in 2000, Derek Reamon's teaching has focused on infusing active learning components into course materials to make concepts more understandable and accessible to students. He has been a leader in introducing hands-on laboratory modules into the mechanical engineering curriculum. Reamon developed a unique mechatronics (computer controlled machines) course that allows students to explore the interface between chemical and electronic systems by design-

ing autonomous robots, a course which has become one of the department's most popular electives. His incorporation of a spring-powered baseball-launching competition into a component design class requires students to translate theory into real-world experience.

As co-director of the Integrated Teaching and Learning Program, Reamon helped to develop One Day's Pay, an innovative program launched last summer in which students participate in community-based projects that provide novel and affordable engineering solutions to low-income residents. Reamon has been recognized for his tireless contributions to teaching with the Charles Hutchinson Memorial Teaching Award and as the Outstanding Undergraduate Educator in Mechanical Engineering.



Boulder Faculty Assembly Awards

Boulder Faculty Assembly Excellence in Service Award



Michael Breed

Professor, Ecology and Evolutionary Biology

A member of the CU faculty since 1977, Professor Breed is recognized by his colleagues for his long history of extraordinary contributions to the university. He is widely known for his seemingly infinite energy, invaluable leadership skills, and gracious demeanor. His career has been marked by many achievements, including serving for more than 20 years as chair of the ecology and evolutionary biology department, as a member of the presti-

gious Vice Chancellor's Advisory Committee, and as interim director of the Miramontes Arts and Sciences Program, a community for CU-Boulder students seeking to join a diverse group of scholars dedicated to academic excellence. His research has ranged from studies on the ecology and feeding behavior of tropical ants and the mating frequency of yellow jackets to honey bee defensive behavior and communication among cockroaches.

Professor Breed's professional commitments reach well beyond the campus. He is executive editor of the journal *Animal Behavior*, is a member of the Animal Behavior Society's executive committee, and co-organizes the Boulder Café Scientifique, an informal discussion group of scientists and community members. In 2006, Breed received the CU Alumni Association's Robert Stearns Prize and was elected a fellow of the Entomological Society of America for his lifetime contributions to the study of insects.



Douglas A. Burger

Associate Professor, English

Professor Burger has dedicated his career to enriching the broader educational perspectives within his academic department. His extensive range of course and curriculum development is a mark of his wide-ranging knowledge of literature and his commitment to meeting the educational needs of CU students. He was one of the first faculty members to use videotapes of Shakespeare plays in class so as to prepare his students not only for class discussion but also for intelligent viewing of Shakespeare's plays later in life.

This commitment to learning that extends beyond the classroom was one of the reasons he was also named a 2009 Robert Stearns Award recipient (see page 12).

In his courses, students are challenged to actively participate to develop an enlightened literary appreciation for the works of Shakespeare—the greatest writer in all of English literature—and thus to expand their cultural literacy as they understand the impact of Shakespeare throughout our culture, from popular remakes of his plays (i.e. *West Side Story*) to the use of Shakespeare texts to teach leadership skills. Respected by his colleagues, Professor Burger is a dynamic teacher who continually searches for ways to keep his course material fresh and engaging for students.

Boulder Faculty Assembly Awards



Mary Kraus

Professor, Geological Sciences

Professor Kraus has contributed 26 years of generous and energetic service to the CU-Boulder community, including serving as chair of Geological Sciences for six years. In her department, Kraus has played a key role in helping to diversify the graduate student population and has tirelessly worked to create an innovative curriculum that expands professional opportunities for graduate students. She has also modernized the undergraduate curriculum and has cultivated strong relationships with alumni

and donors.

Remembering how important the Society of Sedimentary Geology was to her own professional development as a graduate student and assistant professor, Kraus has devoted untold hours to the Society and has served as a member of the Society's executive committee and as president of the Society since 2006. In addition, she has served as associate editor and editor-in-chief of the Society's professional publication, *Journal of Sedimentary Research*. She has held several leadership responsibilities with professional organizations and was elected a fellow of the Geological Society of America and the Energy and Minerals Applied Research Center. Professor Kraus also received the Outstanding Paper of the Year Award from the *Journal of Sedimentary Petrology*.





Boulder Faculty Assembly Awards

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



Allan Collins

Professor, Psychology and Neuroscience; Institute for Behavioral Genetics

A leader in the pharmacology and genetics of nicotine and alcohol addiction, Professor Collins has contributed to our understanding of how the brain responds to chronic exposure to these substances. He is known for pioneering research that established a genetic basis for the behavioral response to nicotine and alcohol. Among his most important breakthroughs—and the subject of active research more than 25 years later—was the surprising discovery that nicotine receptors in the brain become more numerous with prolonged exposure to nicotine instead of less numerous, as was previously thought. His achievements have been recognized with several honors, including the Langley Award from the Society for Research on Nicotine and Tobacco and a MERIT Award from the National Institutes of Health.

He has been a faculty member at CU-Boulder since 1972. In addition to being a professor in the Department of Psychology, he is also a professor of pharmacology with the University of Colorado Denver's School of Pharmacy and School of Medicine. He is a member of several scientific societies, including The Society for Research on Nicotine and Tobacco for which he has served on the board of directors. Professor Collins has authored or co-authored more than 500 scientific articles and abstracts.



William Emery

Professor, Aerospace Engineering Sciences

Professor Emery is an internationally recognized leader in research using remote sensing to study the atmosphere and the ocean. His interdisciplinary work sits at the intersection of oceanography and engineering as he uses satellite data from optical and microwave sensors to obtain information about the ocean's physical properties.

His expertise with instrumentation capable of monitoring earth processes from space has been recognized with numerous awards, including the College of Engineering and Applied Science Faculty Research Excellence Award, the Geoscience and Remote Sensing Society Education Award, and the Geoscience and Remote Sensing Society Outstanding Service Award from the Institute of Electrical and Electronics Engineers (IEEE), one of the world's leading professional associations for the advancement of technology. He was named an IEEE fellow in 2002.

Because of the depth and breadth of his expertise, Professor Emery has been an invited lecturer on earth remote sensing in countries around the world, including Japan, France, China, the former Soviet Union, Spain, Chile, and Italy. In addition to his impressive research accomplishments, Emery made a major contribution to the field as the founding editor of *IEEE Geoscience and Remote Sensing Letters* where he has served as editor-in-chief. He is co-author of two textbooks on physical oceanography, has translated three oceanographic books from German to English, and has authored more than 130 refereed publications.

Boulder Faculty Assembly Awards



Monika Fleshner

Professor, Integrative Physiology

Professor Fleshner is widely known for her advances in the interdisciplinary area of psychoneuroimmunology, which is the study of the connection between psychological processes and the human body. Her research addresses the interactions between the immune, endocrine, and central nervous systems—in particular, the ways in which stress affects the immune system and the protective effects of physical activity. One of her important discoveries was the unexpected and harmful impact of chronic stress on the immune system and how physical activity provides a buffer against such negative effects. These significant contributions to the study of stress on the immune system have garnered international recognition.

Professor Fleshner was elected to the scientific council of the Psychoneuroimmunology Research Society and was appointed to the program committee of the International Society for Exercise Immunology. She serves as assistant editor for *Exercise Science and Sport Reviews* and has served as a grant reviewer for NASA, the National Institutes of Health and the National Science Foundation. She has written more than 100 peer-reviewed articles. Her research accomplishments have been recognized by awards including the Independent Investigator Award from the National Alliance for Research on Schizophrenia and Depression and the Young Investigator Award from the Psychoneuroimmunology Research Society.



Graham Oddie

Professor, Philosophy; Associate Dean, College of Arts and Sciences

The main focus of Professor Oddie's research for more than 20 years has been metaphysical realism, value realism, and scientific realism. He has authored, co-authored, or edited four other books, has written numerous articles, and has many works in progress. While remaining an active scholar, he served as chair of the philosophy department for several years and is currently serving as associate dean for the humanities and the arts in the College of Arts and Sciences.

Professor Oddie's book, *Value, Reality, and Desire*, received extraordinary attention from philosophers worldwide and is considered an important contemporary contribution to the idea of value realism. In the book, Oddie defended the idea of value realism, which conceives of the existence of objective values that exist independently of the mind and are not reducible to more basic properties. In other words, values actually exist and are not the expression of human fears and desires and do not vary from society to society. His peers from around the world expressed glowing admiration for his work. One key philosopher found it, "One of the two or three most interesting contributions to philosophy I have read over the last dozen years." Another wrote, "I consider it to be the best defense of value realism ever to have been published," arguing that it "... clearly belongs with the very best of contemporary work on the nature of value, and is in fact one of the most original and creative books I've read in any field of philosophy."

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 day-long symposium on their award-winning book.



Claire Farago

Professor, Art and Art History

Transforming Images: New Mexican Santos In-Between Worlds examines cultural identity in New Spain in a postcolonial framework. Bringing together a wealth of new material, the book examines painted and carved images of saints made by indigenous artists in New Mexico between the 18th and 20th centuries. The essays collected in the book explore the development of these devotional instruments in New Mexico from around 1760 until the radical transformation of the tradition in the

20th century. Professor Farago (with Donna Pierce, curator of Spanish colonial art at the Denver Art Museum) makes three key arguments. First, she demonstrates how these New Mexican images have continued to have importance for artists working in a variety of media. Second, she demonstrates that we can better understand these art objects by bringing to bear the theoretical perspectives associated with post-colonial studies. Third, she shows how the history of these New Mexican materials provide an excellent case study for rethinking the nature of art history as a whole; these humble objects, often ignored by art historians, provide a way to reconceive the discipline.



Scott Bruce

Associate Professor, History

In *Silence and Sign Language in Medieval Monasticism: The Cluniac Tradition*, Professor Bruce explores the rationales for religious silence in early medieval abbeys and the use of nonverbal forms of communication among monks when rules of silence forbade them from speaking. This book is the first full-length treatment of monastic sign language in the Middle Ages and focuses on evidence from the Benedictine Abbey of Cluny in France. These early medieval monks conformed their lives to

emulate angels to a degree that was unprecedented in the monastic tradition.

After examining the spiritual benefits of personal silence as a form of protection against the perils of sinful discourse in early monastic thought, this work shows how the monks of the Abbey of Cluny were the first to employ a silent language of hand signs that allowed them to convey precise information without speaking. Bruce discusses the linguistic character of the Cluniac sign language, its central role in the training of novices, and the widespread adoption of this custom in other abbeys throughout Europe.

Kayden Book Award — Honorable Mention

Aftershocks: Politics and Trauma in Britain, 1928–1931

Susan Kent, *Professor, History*



CU-Boulder Faculty Awards

Provost's Faculty Achievement Awards

These annual awards are presented to select faculty in honor of recent significant publication or creative contributions in their academic fields. Each awardee receives a research grant and a plaque recognizing their achievement.

Fall 2009

Assistant Professors

Andrew Cain, Classics

Eric Frew, Aerospace Engineering
Sciences

Susan Jurow, Education

Carole McGranahan, Anthropology

Robert McLeod, Electrical, Computer
and Energy Engineering

Rosalba Perna, Astrophysical and
Planetary Sciences

Associate Professors

Peter Blanken, Geography;
Environmental Studies

Alejandro Cremaschi, Music

Jillian Heydt-Stevenson, English

Valerie Otero, Education

Laurie Sampsel, University Libraries

Douglas Sicker, Computer Science





Additional Academic Achievements

Faculty at the University of Colorado at Boulder are awarded each year 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 attained by our faculty.

American Academy of Arts and Sciences

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. The academy was founded in 1780. Members reflect the full range of disciplines, including mathematics, physical and biological sciences, medicine, social sciences and humanities, business, government, public affairs, and the arts.



Linda Cordell

Professor Emerita, Anthropology (2008)

Professor Cordell, director of the CU Museum for 13 years until retiring in 2006, is a senior scholar at the School for Advanced Research (SAR) in Santa Fe. The scope of SAR's activities embraces a global perspective to encourage advanced scholarship in anthropology and related social science disciplines and the humanities. Under her directorship, the CU Museum received accreditation by the American Association of Museums, an honor achieved by only 5 percent of museums in the United

States and by only 18 university natural history museums.

Her research in the American Southwest focuses on ancestral Pueblo settlement and agricultural strategies with excavations in the Upper Pecos and Rio Grande Valley areas. In recognition of this research, she received the Alfred Vincent Kidder Award from the American Anthropological Association—the highest award presented to an American archaeologist. She was inducted into the National Academy of Sciences and she received the Byron Cummings Award for her outstanding contributions to anthropology in the Southwest. In addition, Cordell was a consultant for National Geographic Society books, served on the editorial board of the Smithsonian Institution Press, and was associate editor of the *Journal of Anthropological Research*. Cordell has authored more than 100 books, monographs, articles and book chapters while continuing to develop her career as an archaeologist.

Additional Academic Achievements



James Hynes

Professor, Chemistry and Biochemistry (2008)

Professor Hynes is well known in the field of theoretical chemistry for his contributions to the theory of chemical reaction rates and mechanisms. He has also made breakthroughs in the study of chemical reactions that are important in stratospheric ozone depletion. Hynes, who joined the CU-Boulder faculty in 1971, also holds the position of research director in the department of chemistry at the École Normale Supérieure in Paris—an arm of France's National Center for Scientific Research—where many of France's brightest students prepare for top-level

careers in government and academia.

He is author or co-author of more than 250 research articles and over 360 invited lectures and seminars. Among his many awards and recognitions are the 2004 Hirschfelder Prize in Theoretical Chemistry, the largest award in the field, for his contributions to the theory of chemical reactions rates and mechanisms and of vibrational dynamics in solution; the American Chemical Society's Hildebrand Award in Theory and Experiment of Liquids; an Alfred P. Sloan Foundation Fellowship; and a Guggenheim Fellowship. He was also chosen as an American Physical Society Fellow, an honor bestowed to only a few select members of the organization, and he has twice been acknowledged as an ISI Highly Cited Researcher. His fine teaching was recognized by a Boulder Faculty Assembly Teaching Excellence Award. Wanting to share his excitement about chemistry, Hynes has participated in the university's CU Wizards series, which is an annual program that provides students in grades 5 through 9 with an entertaining introduction to science.

Other CU-Boulder Academy Members

Marvin Caruthers, Chemistry and Biochemistry (1994)

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

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 outstanding contributions to education. Since its establishment, the academy has sponsored a variety of commissions and study panels that have published proceedings and reports related to advancing education in the U.S.



Carl Wieman

Distinguished Professor, Physics; JILA (2008)

On the day that Professor Wieman received the Nobel Prize for physics in 2001, he insisted that the time of a news conference be moved up 15 minutes. It was so that he would not be late to teach his undergraduate class on physics for nonscience majors. An unwavering dedication to undergraduate teaching has been a hallmark of his career. Professor Wieman is a CU-Boulder distinguished professor of physics and a CU Presidential Teaching Scholar, and he also heads the science education initia-

tive he founded in 2007 at the University of British Columbia. He has worked at both institutions on collaborative initiatives aimed at achieving sustainable change in undergraduate science education. Wieman has conducted research in a variety of areas of atomic physics and laser spectroscopy. Inside the classroom, he has worked on a variety of educational research projects and innovations in teaching physics to students, including the Physics Education Technology Project that provides interactive online physics instruction.

In 2001, Wieman was one of the first seven scientists and engineers in the United States to receive the National Science Foundation's Director's Awards for Distinguished Teaching Scholars. Among his numerous awards beyond his Nobel Prize are the Benjamin Franklin Medal in Physics, the Carnegie Foundation's University Professor of the Year Award in 2004, the King Faisal International Prize for Science, the Arthur L. Schawlow Prize in Laser Science, and the Richtmyer Lecture Award from the American Association of Physics Teachers.

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)



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, providing leadership and expertise for numerous projects focused on the relationships between engineering, technology, and the quality of life.



Kristi Anseth

Distinguished Professor, Chemical and Biological Engineering (2009)

Professor Anseth, a CU-Boulder Distinguished Professor and Howard Hughes Medical Institute investigator, conducts groundbreaking research developing degradable polymers that act as scaffolds or frameworks to stimulate the growth of new human tissues to replace those lost by injuries and disease.

Anseth and her colleagues anticipate the technology will be used in the coming years to help regenerate human cartilage and

defective heart valves, mend shattered bones, produce insulin for diabetics, and grow healthy neurons to replace diseased brain tissue. One of the most promising applications is to use tissue engineering to repair injured knee cartilage by extracting healthy cartilage from a patient, blending it with the gel-like scaffolding, and injecting it back into the knee to grow new, healthy cartilage.

She has been elected to the National Academy of Engineering for pioneering the rational design of biomaterials for tissue engineering, drug delivery and biosensing applications. A member of the American Association for the Advancement of Science, she received the National Science Foundation's highest honor for a young researcher, the Alan T. Waterman Award, and the American Society for Engineering Education's Curtis W. McGraw Award—given each year to a faculty member under 40 in recognition for contributions to both engineering education and research. Anseth holds the Tisone Professorship in chemical and biological engineering at CU-Boulder. In 2008, she was named one of the “Brilliant 10 Scientists” by *Popular Science* and one of the “One Hundred Chemical Engineers of the Modern Era” by the American Institute of Chemical Engineers.

Other CU-Boulder Members

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

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 varies according to the category and prize-awarding institutions.

1989

Thomas R. Cech, Chemistry and Biochemistry

2001

Eric Cornell, Physics; JILA

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).

Thomas R. Cech



Carl Wieman



John Hall



Eric Cornell



Additional Academic Achievements

Guggenheim Fellows

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



Noel Lenski

Associate Professor, Classics

Professor Lenski studies all eras of Roman history, but specializes in late antiquity. While still at an early stage in his career, he has published more than 30 articles and reviews on topics related to the political, military, social, and legal history of the Roman world; he received the Classical Association of the Middle West and South Award for an outstanding publication in 2005. In his books, *Failure of Empire: Valens and the Fourth-Century Empire*, which focuses on military and political history in the troubled years of the late fourth century, and *The Cambridge Companion to the Age of Constantine*, taking up his favorite historical figure, Lenski offers wide-angle examinations of imperial history in late antiquity.

His latest project, and the one supported by this Guggenheim Fellowship, *Slavery in Late Antiquity*, investigates the practice of slavery in the Roman Empire from the third to seventh centuries and demonstrates that, despite the radical religious, political, and social changes ushered in during late antiquity, slaveholding remained tenacious. An award-winning teacher, honored with a Boulder Faculty Assembly Excellence in Teaching Award in 2000, his research has garnered him another prestigious award this year from the American Council of Learned Societies (see page 40).

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)

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)



Additional Academic Achievements

MacArthur Fellows

The MacArthur Foundation accepts yearly nominations in as broad a range of fields and areas of interest as possible to 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)

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

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 programs 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 98 Fulbright Fellows since 1982.



Len Ackland

Associate Professor, Journalism and Mass Communication

Professor Ackland, who began his journalism career as a freelance writer in Vietnam in 1968, is the founding director and co-director of the university's Center for Environmental Journalism. With his Fulbright fellowship, Ackland attended a two-week German Studies Seminar — "Science and Society: The Impact of Science on Policy Formation"—in Berlin and Brussels. Last year, he was the recipient of a prestigious Guggenheim Fellowship to study Germany's plans to phase out

nuclear power use by 2022.

For more than 20 years, Ackland worked as a journalist, including as a reporter at the *Chicago Tribune* and the *Des Moines Register*, where he won the George Polk Award for local reporting. Before joining the faculty in 1991, Ackland served seven years as editor of the *Bulletin of the Atomic Scientists*, which under his direction won the National Magazine Award for a special issue on the Chernobyl nuclear reactor accident. He received a research and writing grant from the MacArthur Foundation that supported work on his book, *Making a Real Killing: Rocky Flats and the Nuclear West*, published in 1999.



Herbert Covert

Professor, Anthropology; University Museum

A specialist in behavioral ecology and conservation of endangered colobine monkeys of Southeast Asia, Professor Covert has been involved in the Khau Ca Forest Tonkin snub-nosed monkey conservation project in Ha Giang Province in Vietnam since 2004. Due to these efforts, data show that the population at Khau Ca is now stable and increasing in size. Initial behavioral ecological data are being used to help plan a forest expansion and rehabilitation program. These activities provided the impetus for the Vietnam government to support the establishment of a habitat conservation area at Khau Ca in 2009. His Fulbright will support his paleontological field research with colleagues from the Geologic Museum of the Department of Geology and Minerals of Vietnam in Hanoi. He also will study primate conservation and ecology with colleagues at the Endangered Primate Rescue Center of Cuc Phuong National Park.

Covert has been associate curator at the University of Colorado Museum since 1989. He received a Boulder Faculty Award Excellence in Teaching Award, and in 2001, he was awarded a Fulbright Scholar Award for work with the Geological Museum of Vietnam and the Department of Geology and Minerals of Vietnam.

Additional Academic Achievements



Elizabeth Dunn

Associate Professor, Geography; International Affairs

Professor Dunn focuses her current work on state formation and non-state regulation in Eastern Europe; her earlier work centered on economic transformation and regulation in Poland. Her book, *Privatizing Poland: Baby Food, Big Business and the Remaking of Labor*, won the 2005 Orbis Book Prize. She was the first non-economist to win the Ed A. Hewett Prize from the National Council on East European and Eurasian Research. She has also worked with the Centers for Disease Control to investigate why the former Soviet Republic of Georgia has the world's highest rate of botulism. Dunn's current work, supported by her Fulbright Fellowship, focuses on the links between humanitarian aid, political organizing among refugees, and state formation in Georgia after its recent war. Her work has been funded by the National Science Foundation, the International Research and Exchanges Board, the Wenner Gren Foundation, and the Fulbright Commission.



John Kineman

Senior Research Scientist, Cooperative Institute for Research in Environmental Sciences

John Kineman's research at the university's Cooperative Institute for Research in Environmental Sciences (CIRES) involves ecological niche theory and focuses on the ecology and environment in Bangalore, India. His work has been celebrated with a Fulbright Fellowship. After receiving his master's degree in 1979 from CU-Boulder in environmental ecology and biogeography, Kineman worked for NOAA in various environmental observation programs followed by serving in the Peace Corps in the Kenya Wildlife Service. He returned to NOAA where he worked for 18 years developing ecosystem informatics activities and programs in the National Environmental Satellite, Data, and Information Service.

He began his doctoral research in 1985, suspending it several times as a result of work commitments before successfully receiving his PhD. More than 20 years later, he has gained a broad spectrum of experience and study ideally suited for CU-Boulder's interdisciplinary Environmental Studies Program combining science, policy, and ethics. His studies and experiences have culminated in a pursuit to understand the theory of relational complexity, which is an emerging science that strives to explain the origin of the living and non-living world.

Additional Academic Achievements

American Council of Learned Societies

Fellowships and grants from the American Council of Learned Societies are awarded to individual scholars for excellence in research in the humanities and related social sciences.



Noel Lenski

Associate Professor, Classics

Professor Lenski's extensive research into Roman history, in particular late antiquity, is one of the reasons he also received a 2009 Guggenheim Fellowship (see page 35). He is composing a monograph on slavery in late antiquity, which will attempt to chart the fate of this peculiar institution in the period between AD 300 and AD 600. Previous studies have tended to posit a decline in slaveholding this era, but Lenski argues that there was no such decline and that if anything, the military and political chaos of late antiquity led to an increase in the practice of slavery.



J. Andrew Cowell

Professor, Linguistics

Professor Cowell's research began with a focus on the Middle Ages, especially in France, with a particular interest in the ways in which anthropological themes are represented in literary texts. More recently he has been examining some of the same issues in Native American traditional literature. He works with the Arapaho people to record the language that gave Colorado many of its well-known place names, such as Kawuneeche Valley in Rocky Mountain National Park. Cowell published the first grammar of the Arapaho language, which complements his

earlier collection of Arapaho texts. *The Arapaho Language* explains the roots and grammar of one of Colorado's indigenous languages.

The central component of his current project, "Documenting Arapaho Linguistic Culture," is the creation of a video database of Arapaho conversation using linguistic software, which employs extensive linguistic and anthropological labeling and annotation. To complement this project, he will conduct ethnographic research on Arapaho language behavior. He will use the knowledge he gains to annotate entries in the database and to produce a more general book on Arapaho linguistic culture. This project, supported by the ACLS fellowship, will preserve for future generations one of America's disappearing indigenous languages.

Produced by the University of Colorado at Boulder's Office of Faculty Affairs in conjunction with the Office of University Communications.

The University of Colorado is an equal opportunity/nondiscrimination institution.