



A Celebration of Faculty Achievement

Fall 2014



University of Colorado
Boulder

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Be Boulder.



University of Colorado Boulder





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 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 ground-breaking 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 publication can present 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.

National and International CU Faculty Recognition

- 5 Nobel laureates
- 4 National Medal of Science winners
- 8 MacArthur fellows
- 20 members of the National Academy of Engineering
- 29 members of the American Academy of Arts and Sciences
- 33 members of the National Academy of Sciences

A handwritten signature in black ink that reads "Russell Moore". The signature is stylized and fluid.

Russell Moore

Provost and Executive Vice Chancellor for Academic Affairs

Faculty Tenure and Promotion

Tenure Recipients

(Effective August, 2014)

Nichole Barger, Ecology and Evolutionary Biology
Tania Barham, Economics
William Boyd, School of Law
Max Boykoff, Environmental Studies Program
Esther L. Brown, Spanish and Portuguese
Yifu Ding, Mechanical Engineering **Françoise Duressé-Stimilli**, Art and Art History **Nabil Echchaibi**, Journalism and Mass Communication
Virginia Ferguson, Mechanical Engineering
Rebecca Flowers, Geological Sciences
Sanjay K. Gautum, History
Alvin Gregorio, Art and Art History **Matthew R.Hallowell**, Civil, Environmental and Architectural Engineering
Victoria Hand, School of Education
Michael Hermele, Physics
Mahmoud Hussein, Aerospace Engineering Sciences
Arthi Jayaraman, Chemical and Biological Engineering
Matthew C. Keller, Psychology and Neuroscience
Kathryn Lage, University Libraries
Sehee Lee, Mechanical Engineering
Stefan Leyk, Geography
Jill Litt, Environmental Studies Program
Qin (Christine) Lv, Computer Science
Jack Maness, University Libraries
Christy M. McCain, Ecology and Evolutionary Biology
Celeste Montoya, Women and Gender Studies
Chip Persons, Theatre and Dance
Erika Randall, Theatre and Dance
Isaac Reed, Sociology
Antje Richter, Asian Languages and Civilizations
Fernando Riosmena, Geography
Javier Rivas, Spanish and Portuguese
L. Kaifa Roland, Anthropology
Rebecca Safran, Ecology and Evolutionary Biology
Richard Saxton, Art and Art History

Andrew Schwartz, School of Law
Cosetta Seno, French and Italian
Ivan Smalyukh, Physics
Harry Surden, School of Law
Franck Vernerey, Civil, Environmental and Architectural Engineering
Rainer M. Volkamer, Chemistry and Biochemistry
Beverly Weber, Germanic and Slavic Languages and Literatures
John M. Willis, History
Wei Zhang, Chemistry and Biochemistry

Promotions to Full Professor

(Effective August, 2014)

Ernesto Acevedo-Muñoz, Film Studies
Kirk Ambrose, Art and Art History **Jason D. Boardman**, Sociology
Serge Campeau, Psychology and Neuroscience
Kristen A. Carpenter, School of Law
Brian A. Catlos, Religious Studies
Xinzhao Chu, Aerospace Engineering Sciences
Jeanne Nielsen Clelland, Mathematics **Elsbeth Dusenberre**, Classics
Elizabeth Dutro, School of Education
Lori Hunter, Sociology
Leslie Irvine, Sociology
Jose-Luis Jimenez, Chemistry and Biochemistry
Faye Kleeman, Asian Languages and Civilizations
Ruth Ellen Kocher, English
Sehee Lee, Mechanical Engineering
Sharon Matusik, Leeds School of Business
Laura A. Michaelis-Cummings, Linguistics
Stephen J. Mojzsis, Geological Sciences **Scott Moss**, School of Law
Valerie Otero, School of Education
Reiland Rabaka, Ethnic Studies
Artemi Romanov, Germanic and Slavic Language and Literatures
Michelle Sauther, Anthropology
Matt Sponheimer, Anthropology
Leaf Van Boven, Psychology and Neuroscience
Tor Wager, Psychology and Neuroscience

CU-Boulder Distinguished Professors

Active Distinguished Professors

Kristi S. Anseth, Chemical and Biological Engineering

Frank Barnes, Electrical, Computer and Energy Engineering

Christopher Bowman, Chemical and Biological Engineering

Marvin Caruthers, Chemistry and Biochemistry

Thomas R. Cech, Chemistry and Biochemistry

Margaret Eisenhart, School of Education **James T. Hynes**, Chemistry and Biochemistry

W. Carl Lineberger, Chemistry and Biochemistry; JILA

Steven Maier, Psychology and Neuroscience

James R. Markusen, Economics

Jane Menken, Sociology; Institute of Behavioral Science

Margaret Murnane, Physics; JILA

Norman Pace, Molecular, Cellular and Developmental Biology

Zoya Popovic, Electrical, Computer and Energy Engineering

Pierre Schlag, School of Law

Lorrie Shepard, School of Education

Margaret Tolbert, Chemistry and Biochemistry; Cooperative Institute for Research in Environmental Sciences

Linda R. Watkins, Psychology and Neuroscience

Carl Wieman, Physics; JILA

Charles Wilkinson, School of Law

Retired Distinguished Professors

Roger G. Barry, Geography; Cooperative Institute for Research in Environmental Sciences

Andrzej Ehrenfeucht, Computer Science

Delbert S. Elliott, Sociology; Institute of Behavioral Science

Barbara Engel, History

Fred W. Glover, Leeds School of Business

Richard Jessor, Psychology and Neuroscience; Institute of Behavioral Science

Robert L. Linn, School of Education

Richard McCray, Astrophysical and Planetary Sciences

J. Richard McIntosh, Molecular, Cellular and Developmental Biology

Marjorie K. McIntosh, History

Allan McMurray, Music **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, Psychology and Neuroscience; Institute of Behavioral Science

Stanley Cristol, Chemistry and Biochemistry

Stephen Fischer-Galati, History

David Hawkins, Philosophy

Keith R. Porter, Molecular, Cellular and Developmental Biology

David M. Prescott, Molecular, Cellular and Developmental Biology

Gilbert White, Geography



U.S. Professor of the Year

The U.S. Professors of the Year awards program celebrates outstanding instructors across the country. Sponsored by CASE and the Carnegie Foundation for the Advancement of Teaching, it is the only national program to recognize excellence in undergraduate education. Each year, a professor is chosen from four institutional categories.

Steven J. Pollock

Professor, Physics

A theoretical nuclear physicist, Professor Pollock began teaching at CU-Boulder in 1993. Since then, he has taught the full range of physics classes available to undergraduates, from introductory level courses, including the Physics of Sound and Music, to upper-division classes for physics majors, such as Principles of Electricity and Magnetism.

Professor Pollock's teaching philosophy is rooted firmly in using research-based strategies—research to support the teaching and learning process in his classes. Outside the classroom, he conducts research on the effectiveness of various pedagogical techniques.

Professor Pollock's teaching excellence has been recognized by numerous awards. He received the Chancellor's Award for Excellence in STEM Education, Innovation and Research; the CU President's Teaching Scholar award; the Sigma Pi Sigma Favorite Physics Professor award (multiple times); CU-Boulder's Best Should Teach gold award; and the Boulder Faculty Assembly Teaching Excellence Award, among others. He also has been designated as a Pew-Carnegie National Teaching Scholar.

Professor Pollock is the second CU-Boulder faculty member to win a national Professor of the Year award. Nobel laureate Carl Wieman, also a physics professor, was honored with the designation in 2004.



President's Teaching Scholars at CU-Boulder

This program, established in 1989 as a University of Colorado presidential initiative, honors faculty members who have excelled in teaching and scholarship, creative work or research, and who promote teaching excellence throughout the university. President's Teaching Scholars are chosen from CU's four 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 as well as for research focused on improving teaching and learning.

Helen Norton

Associate Professor, School of Law

Professor Norton's scholarly and teaching interests include constitutional law, civil rights and employment discrimination law. She has received four Excellence in Teaching Awards from Colorado Law. Her commitment to teaching is evident in the fact that she declined the customary reduction in teaching responsibilities when she became the associate dean for academic affairs. As two of her colleagues observed, this evidence of her commitment to teaching has "multiplied the credibility of her efforts to place teaching at the center" of the mission of the law school.



Before joining the faculty, Professor Norton served as Deputy Assistant Attorney General for Civil Rights at the U.S. Department of Justice and as director of Legal and Public Policy at the national Partnership for Women and Families. She is frequently invited to testify before Congress and federal agencies on civil rights law and policy issues. She has demonstrated her commitment to public service in several ways, including leading President Obama's transition team charged with reviewing the Equal Employment Opportunity Commission. In 2012, she received the Clifford Calhoun Service Award in recognition of her dedication to public service and to the Colorado Law community.



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

Alexander Cruz, Ecology and Evolutionary
Biology

James H. Curry, Applied Mathematics

Stanley Deetz, Communication

Scot Douglass, Engineering; Herbst Program of
Humanities

Elsbeth Dusinberre, Classics

Michael Eisenberg, Computer Science

John L. Falconer, Chemical and Biological
Engineering

Noah Finkelstein, Physics

Michael Grant, Ecology and Evolutionary
Biology

David Klaus, Aerospace Engineering Sciences

Clayton Lewis, Computer Science

Steven J. Pollock, Physics

Harihar Rajaram, Civil, Environmental and
Architectural Engineering

J. Edwin Rivers, English

Harvey Segur, Applied Mathematics

J. Michael Shull, Astrophysical and Planetary
Sciences

Diane Sieber, Herbst Humanities

Eric Stade, Mathematics

Linda R. Watkins, Psychology and
Neuroscience

Marianne Wesson, School of Law

Carl Wieman, Physics

Retired Scholars

Anne Costain, Political Science

Douglas Burger, English

Jack Kelso, Anthropology

William Krantz, Chemical Engineering **Ronald**

Melicher, Leeds School of Business **Dale Meyer**,
Leeds School of Business

Wes Morriston, Philosophy **James**

Palmer, Film Studies **Norton**

Steuben, School of Law

James Symons, Theatre and Dance

John R. Taylor, Physics

Dennis Van Gerven, Anthropology

Deceased Scholars

Nancy K. Hill, Humanities

Robert Pois, History

David M. Prescott, Molecular, Cellular and
Developmental Biology

Klaus Timmerhaus, Chemical Engineering

Shelby Wolf, School of Education

CU-Boulder Faculty Awards

Hazel Barnes Prize

The \$20,000 Hazel Barnes Prize is the most prestigious honor accorded to a faculty member by the university and recognizes the enriching relationship between teaching and research. It was established in 1991 by former Chancellor James Corbridge in honor of CU-Boulder philosophy Professor Emerita Hazel Barnes, who taught at CU-Boulder from 1943 to 1986 and was noted for her interpretations of the works of French philosopher Jean-Paul Sartre. Nominees are tenured faculty members who not only are outstanding teachers but also have distinguished records in research and scholarship.

Robert S. Anderson

Professor, Geological Sciences; Institute of Arctic and Alpine Research

A geomorphologist, Professor Anderson studies features of landscapes that evolved in the Quaternary geologic period from about 2.5 million years ago to the present. He represents the leading edge of a new wave of quantitative geomorphologists (those who study the shape of the Earth's surface) who are breathing new life into the study of the processes—in particular landscape evolutions—that shape the face of our planet. While recent research has focused primarily on alpine landscapes and the glaciers and rivers that carve them, Professor Anderson's interest extends to all varieties of landscapes. He is widely considered to be a highly original thinker in the processes of erosion and sediment transport as they shape changes in terrain over time.



Professor Anderson is a fellow of the American Geophysical Union and served as founding editor of the *Journal of Geophysical Research-Earth Surface*. He has published 136 peer-reviewed articles. He is co-author (with his wife, Suzanne, an associate professor of geography) of the recently released textbook *Geomorphology: The Mechanics and Chemistry of Landscapes*. Undergraduates and graduate students who have taken his courses extol his enthusiasm and ability to make complex concepts clear.

CU-Boulder Faculty Awards

2013 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

- William Boyd**, School of Law
- Victoria Hand**, School of Education
- Arthi Jayaraman**, Chemical and Biological Engineering
- Christina Jennings**, Music
- Celeste Montoya**, Women and Gender Studies
- Wei Zhang**, Chemistry and Biochemistry

Tenured

- Kristen A. Carpenter**, School of Law
- Xinzhao Chu**, Aerospace Engineering; Cooperative Institute for Research in Environmental Sciences
- Elizabeth Dutro**, School of Education
- Bradley Goode**, Music
- James William Medlin**, Chemical and Biological Engineering
- Kenneth Wright**, Integrative Physiology



CU-Boulder Faculty Awards

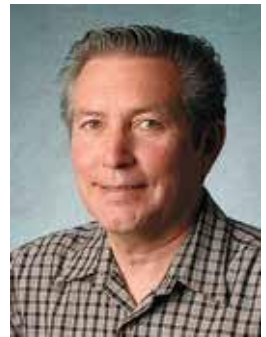
Robert Stearns Award

The Stearns Award was initiated in 1953, the year of the resignation of Robert L. Stearns (A&S '14) who as the sixth president of the university had presided over CU since 1939. Given by the CU-Boulder Alumni Association, the award recognizes members of the faculty and staff for extraordinary achievement or service in any one or combination of the following areas: teaching, service to the university, work with students, research or off-campus service.

Leonard Baca

Professor, School of Education; BUENO Center for Multicultural Education

Credited with being a founder of the field of bilingual special education, Professor Baca has focused his research on bilingual teacher education and bilingual special education. His recent work is focused on program models and best practices, which are topics in a book he co-authored entitled *The Bilingual Special Education Interface*. During the past 40 years, he has taught 24 different courses to undergraduate, graduate and doctoral students related to special education and bilingual education, many of which he developed himself.



Professor Baca is co-investigator for a research grant from the U.S. Department of Education to study the Spanish version of the Colorado Student Assessment Program test. His investigation will inform policy on the use of the tests with bilingual students in Colorado. He has been director of the BUENO (Bilinguals United for Education and New Opportunities) Center at CU-Boulder since 1976. Because of Professor Baca's research and other contributions, the field of bilingual special education possesses a deeper understanding of the intersection of language learning and disability and how to account for cultural and linguistic variety in education.



CU-Boulder Faculty Awards

Bruce Jakosky

Professor, Geological Sciences; Laboratory for Atmospheric and Space Physics (LASP)

Since 2005, Professor Jakosky has served as associate director for science at LASP, where he is responsible for the oversight of the scientific activities of the laboratory. An expert in Earth and planetary geology and extraterrestrial life, including the Martian atmosphere and astrobiology, he has been involved with many space missions—as principal investigator, co-investigator or science team member—including the Mars Atmosphere and Volatile Evolutions Mission (MAVEN), Explorer, the Solar

Mesosphere Explorer and the Mars Science Laboratory. He teaches undergraduate and graduate courses on Earth and planetary geology as well as a course on extraterrestrial life that explores not only science but also related social and philosophical issues.

Among Professor Jakosky's many professional activities are his service as president of the Planetary Sciences Section of the American Geophysical Union, as a member of the editorial board of the *Planetary Exploration Newsletter*, and as a member of the advisory council of The Planetary Society. He has written numerous articles and essays and authored the books *The Search for Life on Other Planets* and *Science, Society, and the Search for Life in the Universe*.



Paul Mintken

Health Care Professional, Wardenburg Health Center; Associate Professor, CU School of Medicine

In 1994, Professor Paul Mintken began working as a physical therapist at Wardenburg Health Center (WHC) at CU-Boulder treating students, faculty and staff. Since then, he has been involved in training physical therapy students and physicians in the management of musculoskeletal problems. In 2004 he accepted a dual appointment, continuing his work at WHC while assuming a faculty position as an associate professor in the CU School of Medicine's physical therapy program at the CU Anschutz Medical Campus. In addition to an active research agenda, Mintken teaches in the musculoskeletal track and practices in the clinic.

Professor Mintken's professional activities include chairing a task force for the American Academy of Orthopaedic Manual Physical Therapists to standardize technical language, serving as a member of the research committee of the American Academy of Orthopaedics and reviewing manuscripts for a number of professional journals. His goal is to help create a bridge between academia and the clinic by providing outstanding clinicians with the tools to conduct clinical research, thereby achieving greater synergies between research and clinical practice.



CU-Boulder Faculty Awards

Distinguished Research Lectureship

The Distinguished Research Lectureship is among the highest honors bestowed by the faculty upon a faculty member at CU-Boulder. It honors a tenured faculty member widely recognized for a distinguished body of academic or creative achievement as well as contributions to the educational and service missions of CU-Boulder. Each awardee receives an honorarium and presents a lecture on his or her research to the wider university community. More than 100 CU-Boulder faculty members have been selected for this honor.

Peter Molnar

Professor, Geological Sciences; Cooperative Institute for Research in Environmental Sciences



Few scientists have consistently tackled as broad a range of challenging problems in the physics of the Earth at such a fundamental level as Professor Molnar. His work is distinctive in the range of tools he is able to bring to bear. His observational skills in seismology, tectonic physics and geological field work, together with his impressive theoretical abilities, make it possible to gain an understanding of how the heat and mass transfer mechanisms in solid earth, the oceans and the atmosphere are interrelated. For his lecture, Professor Molnar will draw upon this understanding to argue that when the Indonesian islands arose from the sea three million years ago, their emergence transformed tropical climates. This transformation, in turn, led to the high latitude cooling over Canada, making the ice ages possible.

The list of Professor Molnar's fellowships, invited lectures and honors is long and notable. A few highlights include serving as a member of the plate tectonics delegation to China, a Guggenheim Fellowship at the Department of Geodesy and Geophysics at Cambridge University and a visiting fellowship with the Department of Earth Sciences at Oxford University.



CU-Boulder Faculty Awards

College of Arts and Sciences Professor 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.

Jeffrey N. Cox

Professor, English and Humanities; Vice Provost and Associate Vice Chancellor for Faculty Affairs

Professor Cox is widely recognized as a leading scholar of late 18th and early 19th century theater and drama and of the Cockney School of poets. He is the author or editor of nine books and more than four dozen articles, book chapters and reviews. His latest book, *Romanticism in the Shadow of War*, is forthcoming from Cambridge University Press.



Professor Cox is a member of the editorial boards of a number of scholarly journals, including *Studies in Romanticism*, the *Keats-Shelley Review*, *Gothic Studies*, and the *European Romantic Review*. Among his professional honors are the Distinguished Scholar Award from the Keats-Shelley Association and recognition at the 2011 meeting of the North American Society for the Study of Romanticism of one of his books, *In the Shadows of Romance*, for its “significant impact on the field” of Romanticism studies.

As Vice Provost and Associate Vice Chancellor for Faculty Affairs, Professor Cox provides administrative oversight and policy interpretation and development for most aspects of faculty life from recruitment to retirement. He also chairs a number of important committees, including the campus tenure and promotion committee.

John Cumalat

Professor, Physics

An experimental particle physicist, Professor Cumalat focuses his research on the smallest observable particles and the fundamental fields that must be posited to explain their behavior. Professor Cumalat is presently studying the possibility of observing Z-prime bosons decaying into a pair of particles other than electrons and muons. According to the standard model of particle physics, the Z boson particle should decay into electrons and muons at about the same rate. However, data from recent experiments suggest an asymmetry in this rate, which could be explained by the existence of a heavier type of Z boson, called A-prime boson, which decays into electrons and muons at different rates. Professor Cumalat is investigating techniques to determine whether the A-prime boson exists. He has conducted research at Fermi National Accelerator Laboratory in Illinois as well as at the CERN Large Hadron Collider (LHC), the world’s most powerful particle collider, located near Geneva, Switzerland.



Among Professor Cumalat’s awards are a Robert R. Wilson fellowship and selection as a fellow of the American Physical Society and of the American Association for the Advancement of Science.

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 to faculty members 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.

Jackie Elliott

Associate Professor, Classics

Professor Elliott studies the history of Latin literature from its inception through the classical period, with particular interest in the epic and historiographical traditions of Rome. Her prize-winning book, *Ennius and the Architecture of the Annales*, explores the genesis of standard accounts of Ennius's epic poem, *Annales*. The poem, which has survived only in fragments, had a significant impact on Roman literature and culture. It was the first major epic poem in Latin and dealt with Roman history from mythological times to events in the poet's lifetime. Professor Elliott examines the ways in which the sources for the *Annales* determine the standard accounts of the poem and offers an alternative account of the poem's use of time and the disposition of the gods. She makes the case that the manifest impact of the *Annales* on the collective Roman psyche resulted from its innovative promotion of a vision of Rome as the primary focus of the cosmos.



The author of a number of articles in leading scholarly journals, Professor Elliott has received fellowships from the American Academy at Rome and the Loeb Foundation.



CU-Boulder Faculty Awards

Robert Pasnau

Professor, Philosophy

In *Metaphysical Themes, 1274–1671*, Professor Pasnau traces developments in metaphysical thinking through four centuries of philosophy, from the 13th into the 17th century. He begins with the later Middle Ages, which, with the possible exception of modern times, was the period when metaphysical issues received the most sustained attention by philosophers. He concludes with the 17th century, which marked the remarkably swift and complete collapse of the scholastic philosophical tradition, an unprecedented event in the history of philosophy. Professor Pasnau's study begins with the first challenges to the classical scholasticism of Bonaventure and Thomas Aquinas, considers the contributions of prominent philosophers like John Duns Scotus and William of Ockham and concludes with developments in post-scholastic philosophy in the 17th century.



Working mainly in the areas of mind and knowledge, Professor Pasnau has conducted research on philosophical thought from the Presocratics to contemporary approaches. Currently, his research is focused on the late scholastic and early modern era. Professor Pasnau is editor of the *Hackett Aquinas* and the *Cambridge History of Medieval Philosophy*. An earlier book, *Thomas Aquinas on Human Nature*, won the American Philosophical Association Book Prize in 2005.

Kayden Book Award—Honorable Mention:

Elsbeth Dusinberre

Professor, Classics

Empire, Authority and Autonomy in Achaemenid Anatolia



Boulder Faculty Assembly Awards

Boulder Faculty Assembly Excellence in Teaching

Valerio Ferme

Associate Professor, Italian

Professor Ferme has made exceptional contributions to his department and to the College of Arts and Sciences in curriculum development, academic rigor and teacher mentoring. At the national level, he has chaired scores of panels and has published and lectured extensively on course development and community-based teaching. As chair of the College of Arts and Sciences curriculum committee, Professor Ferme has advocated for redesigning courses to ensure that every student tackles challenging coursework that promotes intellectual growth. He has developed rigorous departmental and Arts and Sciences curriculum standards for core courses and has provided intensive one-on-one mentoring to colleagues. Professor Ferme is considered in the vanguard of the faculty in language departments who offer online and hybrid courses to improve student-learning outcomes. For example, he designed the department's first online course in Italian.



Regarding Professor Ferme's pedagogical accomplishments, a colleague said, "his major contribution is an insightful vision as to what constitutes a sound humanistic education. He has ... promoted a curriculum that fits the demands of a versatile liberal arts education...."

Judith Glyde

Professor, Music

Through her vision and example, Professor Glyde has empowered and inspired students, preparing them to take on transformative and challenging roles as artists. Students come from all over the world to study applied cello with her. Professor Glyde's success is evidenced by her students' many achievements at CU-Boulder and by the professional activities and prizes they have won in prestigious national and international competitions. One of her accomplishments has been forging a successful partnership between the music program and the Takacs Quartet, whose members are now fully integrated into the teaching mission of the College of Music. With the Takacs musicians, Professor Glyde developed a world-renowned educational program for string quartets. Her most recent achievement was development of the Study Abroad Program, *Renaissance Then and Now*, in Florence, Italy, the first and only Study Abroad program at CU-Boulder that focuses on music performance.



Professor Glyde's legacy in the College of Music has been described by a colleague as "immeasurable." "She has advised hundreds of students and served on countless committees. She has been an inspiring presence...."

Boulder Faculty Assembly Awards

Boulder Faculty Assembly Excellence in Teaching

Michael Klymkowsky

Professor, Molecular, Cellular and Developmental Biology

Professor Klymkowsky has long had an interest in high quality teaching, pedagogical research, development of instructional methods and the encouragement of science students to pursue teaching careers. In 2012, he was recognized for his work when he received the Outstanding Undergraduate Science Teaching Award from the National Society for College Science Teachers, an affiliate of the National Science Teachers Association. His interdisciplinary course development includes not only new content and fresh perspectives but also new pedagogical approaches. For several years Professor Klymkowsky has served as co-director of the influential CU-Teach program, a program designed to recruit, inspire and train science and mathematics teachers.



Professor Klymkowsky is considered the driving force behind CU-Boulder's discipline-based educational research group of graduate students in the science, computer science, engineering and mathematics departments. In 2010, he organized a symposium entitled *Science Literacy: How to Train Teachers, Engage Students, and Maximize Learning* at the American Association for the Advancement of Science meeting. He also serves on the advisory board of the National Science Foundation-funded, Harvard-based *Misconceptions-Oriented Standards-Based Assessment Resource for Teachers of High School Life Science*.

Laurialan Reitzammer

Associate Professor, Classics

Professor Reitzammer teaches Greek language and literature at all levels, Greek and Roman literature and classical myth in translation, as well as undergraduate and graduate seminars on Greek religion and gender studies. An innovator in curriculum development, Professor Reitzammer received a prestigious Gamm Award for the cross-cultural course, *Gods and Monsters: The Greek and Hindu Epics*, which builds on the interdisciplinary interests she pursues in her research. In addition, she created an online introductory Greek course, supported by a donor to the Classics Department, the first example of its type ever offered. Students in the class include participants from CU-Boulder and from all over the U.S. and Canada, as well as—fittingly—from Athens, Greece.



Professor Reitzammer is currently working on a new project, developing a graduate seminar on *Wanderers, Travelers, and Exiles in Greek Literature*, a course that is related to her second book project. Trademarks of her teaching include exceptional student learning, diligent preparation, an ability to foster interaction and engagement in class and a willingness to help students individually, in and outside of class.

Boulder Faculty Assembly Awards

Boulder Faculty Assembly Excellence in Leadership and Service

Tyler Alpern

Instructor, Libby Residential Academic Program (RAP)

Libby RAP instructor Tyler Alpern's sense of service is deeply aligned with his appreciation of aesthetics. His belief in the power and value of the creative arts goes hand-in-hand with what he considers his responsibility and privilege to infuse art and beauty into the various environments and communities through which he moves. As associate director of Libby RAP since 2012, Alpern has been instrumental in the RAP's efforts to reimagine itself as the "creativity RAP." He played a central role in rewriting the catalog and registration handbook and other documents, as well as the redesign of the curriculum and the introduction of a series of Libby RAP creativity seminars. In 2010, he created a new *Journal of the Arts* and included a brief history of the creation and development of Libby Arts RAP.

Two of his signature initiatives—the New York City Arts Adventure field trip and the University Hill Mural Projects—have contributed greatly to the success of the Libby program. They also exemplify the nature of Alpern's service: helping students to become invested in their communities and in community service.



Holly Gayley

Assistant Professor, Religious Studies

As a Tibetan Studies scholar and dedicated educator and leader, Professor Gayley contributes widely and creatively to the University. Beyond her service to the department, she has made significant contributions to the Center for Asian Studies, including serving as the interim associate director in 2012 and initiating the development of a graduate certificate in Asian Studies. She helped organize a 2010 conference on contemporary Tibet that brought leading Buddhist teachers to campus. Of special significance, Professor Gayley established the Tibetan language program at CU-Boulder, which includes creation of a digital library of Tibetan language materials.

Outside the university, Professor Gayley plays a valuable role in the community by translating Buddhist texts from the Tibetan language. She serves on the planning committee of the Tsadra Foundation for a translation conference in October. She has also been active at the professional level as a participant at annual national meetings of the American Academy of Religion, as a collaborator at the Tibetan Buddhist Resources and as a member of the advisory committee for a project at the Rubin Museum of Himalayan Art in New York City.



Boulder Faculty Assembly Awards

Boulder Faculty Assembly Excellence in Leadership and Service

Rolf Norgaard

Senior Instructor, Program for Writing and Rhetoric

As a service leader, Dr. Norgaard has had a significant impact on the campus, its students and the national reputation of CU Boulder's writing program. He was instrumental in preparing the Program for Writing and Rhetoric's successful application for the Conference on College Composition and Communication's coveted Writing Program Certificate of Excellence. And he worked tirelessly to create a PWR certificate in writing, elevating the profile of writing instruction on campus. These recent examples show how Dr. Norgaard's service accomplishments directly affect the lives of students and the mission of the campus.



In addition, Dr. Norgaard has played a significant role in faculty governance over the past decade as a member of the BFA Executive Committee, the Arts and Sciences Council and more. In a politically charged environment in 2009-10, he chaired an ad hoc committee that authored an extensive and influential report on the status of instructors, working with both instructors and tenure-track faculty as well as campus administration. He currently serves as co-chair of the BFA's new standing committee on instructor-track faculty affairs, where he continues his orderly, persuasive work.

Thomas Riis

Professor, Musicology

Professor Riis's service contributions range from the campus to the profession at large. At the national level, he served as president of the Society of American Music and the American Musicological Society, two prestigious learned societies in the field of music scholarship. Professor Riis has refereed books and manuscripts for nearly all of the most prestigious presses and journals in music. He has also been a referee and consultant for the National Endowment for the Humanities and has served as a peer reviewer for the MacArthur Foundation, the Guggenheim Foundation and the American Council of Learned Societies.



For the College of Music, Professor Riis has served on every standing committee and nearly all search committees over the years, and he volunteers to grade entrance exams and to meet with prospective students. His work on campus and with system-wide committees has been no less extensive, having twice served on the Vice Chancellor's Advisory Committee and co-chaired the Flagship 2030 Task Force on Outreach and Engagement. In addition, he has served on the advisory council of CU-Boulder's Center of the American West.

Boulder Faculty Assembly Awards

Boulder Faculty Assembly Excellence in Research, Scholarly and Creative Work

Bengt Fornberg

Professor, Applied Mathematics

The research contributions of Professor Fornberg—spanning more than 40 years of activity—can be characterized as combining a deep mathematical insight with a genuine appreciation of complex applications, often expressed in an algorithmic form. Combining such different aspects of mathematical, computational and algorithmic approaches has repeatedly allowed him to produce surprising results through a highly creative and non-traditional approach to problem solving. Professor Fornberg's most well known research includes the development of Fourier pseudo-spectral methodology, a numerical study of wave phenomena and the numerical study of fluid flow. These applications involve the approximate solution of partial differential equations (PDEs) by numerical/computational means. PDEs arise widely in science and engineering.



Today, Fourier spectral methods are routinely used in applied mathematics and scientific computing for the solution of PDEs. This is due, in part, to the many important contributions of Professor Fornberg. Not only has he written influential papers on this subject, but his book, *A Practical Guide to Pseudospectral Methods*, is a key reference in the field, with more than 1,300 citations.

Bruce Kawin

Professor, English and Film

In the 1970s, when Professor Kawin started his career, film studies as a field had barely begun. His book *Telling It Again and Again: Repetition in Literature and Film*, and his equally ground-breaking follow-up book, *Mindscreen: Bergman, Godard and First Person Film*, helped the field take off and earned him a reputation as one of film studies' founders. Among his many achievements in film studies, one stands out—his *Short History of the Movies*, a book that must be characterized as a monumental work of film scholarship, now in its 11th edition. Every page of this book features his own analysis and interpretation of the history of film. Professor Kawin is considered the world's leading authority on the novelist William Faulkner's ill-fated career as a Hollywood screenwriter. His recently published book, *Horror and the Horror Film*, draws upon his years of teaching the genre of the horror film at CU-Boulder.



In 2012, Professor Kawin published his first book of poems, *Love If We Can Stand It*. One theme unifies all his writing: a passion for explaining how narrative art truly works.

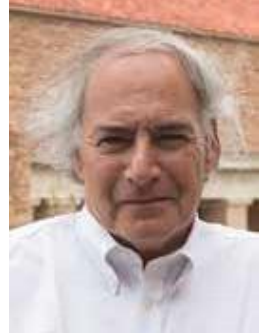
Boulder Faculty Assembly Awards

Boulder Faculty Assembly Excellence in Research, Scholarly and Creative Work

Jonathan Van Blerkom

Research Professor, Molecular, Cellular and Developmental Biology

A pioneer in translating an understanding of vertebrate embryogenesis into in vitro fertilization (IVF) techniques in humans, Professor Van Blerkom performed the first successful IVF procedure in Colorado in 1982. Since then he has lectured extensively around the world and has published numerous and highly regarded papers on mammalian (including human) egg and sperm physiology. Many of these publications have hundreds of citations. His prominence in the field is highlighted by his list of invitations to speak, service on editorial boards, consulting activities and numerous awards, including the 2013 Embryologist of the Year by the American College of Embryology.



Working with a worldwide group of reproductive specialists as part of the Walking Egg Project, Professor Van Blerkom developed a revolutionary and low-cost method to simplify IVF. While many scientific advances promise to produce benefits years in the future, his procedure has already proven to lead to normal babies at approximately ten percent of the standard cost of current procedures. It is on the verge of being approved as a general procedure by European governments in the next few months.

Jan Whitt

Professor, Journalism and Mass Communication

Professor Whitt is a renowned scholar whose research exploring the impact of literature on film and other media texts has received numerous awards from a variety of scholarly associations. In addition to scores of refereed articles, book chapters and essays, Professor Whitt has authored several books that merit special recognition. Her edited volume, *Reflections in a Critical Eye: Essays on Carson McCullers*, earned critical acclaim and several book awards. Her book *Women in American Journalism: A New History* won a major research award for feminist scholarship from the Association for Education in Journalism and Mass Communication. *Burning Crosses and Activist Journalism: Hazel Brannon Smith and the Mississippi Civil Rights Movement* focuses on the role that Smith, the editor of four Southern community newspapers, played in advancing the cause of civil rights. The scholarship is so significant that the book, even before it was published, was recognized with numerous awards.



Professor Whitt's current projects include a book on Western author and environmental activist Terry Tempest Williams and a book on Truman Capote's *In Cold Blood* for the Contemporary American Literature series.



Additional Academic Achievements

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

Howard Hughes Medical Institute

The Howard Hughes Medical Institute is a science philanthropy whose mission is to advance biomedical research and science education for the benefit of humanity. HHMI empowers exceptional scientists to pursue fundamental questions about living systems.

Howard Hughes Medical Institute Investigators

- Natalie Ahn**, Professor, Chemistry and Biochemistry
- Kristi S. Anseth**, Distinguished Professor, Chemical and Biological Engineering
- Thomas R. Cech**, Distinguished Professor, Chemistry and Biochemistry
- Min Han**, Professor, Molecular, Cellular and Developmental Biology
- Roy Parker**, Professor, Chemistry and Biochemistry

Howard Hughes Medical Institute Alumni

- Robert Boswell** (1994–1998), Professor, Molecular, Cellular and Developmental Biology; Vice Chancellor, Office of Diversity, Equity and Community Engagement
- Karla Kirkegaard** (1990–1996), Associate Professor, Molecular, Cellular and Developmental Biology

Society of Howard Hughes Medical Institute Professors

- Leslie Leinwand**, Professor, Molecular, Cellular and Developmental Biology

Howard Hughes Medical Institute Early Career Scientists

- Joaquín Espinosa**, Associate Professor, Molecular, Cellular and Developmental Biology
- Rob Knight**, Professor, Chemistry and Biochemistry

Additional Academic Achievements

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.

Leslie Leinwand

Professor, Molecular, Cellular and Developmental Biology

A member of the CU-Boulder faculty since 1995, Professor Leinwand is professor of molecular, cellular and developmental biology and chief scientific officer for CU-Boulder's BioFrontiers Institute. Recognized as an expert in cardiovascular disease, Professor Leinwand pursues research that opens the door to the possibility of personalized treatment for heart disease. She has shown that the mechanisms of heart ailments differ between males and females and that the genetic risk of the disease is impacted by both gender and diet. Professor Leinwand's lab

has also studied the blood of Burmese pythons, which has the unusual property of greatly increasing the size of the snake's internal organs, including the heart, after a large meal. Understanding this mechanism could have implications for combating human heart disease.

The holder of the Tom Marsico Endowed Chair of Excellence, Professor Leinwand co-directs the university's Cardiovascular Institute and serves as a professor in the cardiology division of the University of Colorado Anschutz Medical Campus. Professor Leinwand has received numerous awards for her research and teaching, including most recently the Bonfils-Stanton Foundation Award for Science and Medicine, the Colorado BioScience Association Lifetime Achievement Award and designation as a College of Arts and Sciences Professor of Distinction.



Additional Academic Achievements

Other CU-Boulder Academy Members

Active Members

Thomas Blumenthal, Molecular, Cellular and Developmental Biology (2010)

Marvin Caruthers, Chemistry and Biochemistry (1994)

Thomas R. Cech, Chemistry and Biochemistry (1988)

Eric Cornell, Physics; JILA (2005)

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

James T. Hynes, Chemistry and Biochemistry (2008)

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

W. 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, School of Law (2003)

David Nesbitt, Chemistry and Biochemistry; Physics (2014)

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

Roy Parker, Chemistry and Biochemistry, (2010)

Olke Uhlenbeck, Chemistry and Biochemistry (1993)

Veronica Vaida, Chemistry and Biochemistry (2012)

Carl Wieman, Physics; JILA (1998)

David Wineland, Physics (2014)

Retired Members

J. Richard McIntosh, Molecular, Cellular and Developmental Biology (1999)

Wolfgang Schmidt, Mathematics (1994)

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

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

Deceased Members

Linda Cordell, Anthropology (2008)

Charles DePuy, Chemistry and Biochemistry (2003)

David M. Prescott, Molecular, Cellular and Developmental Biology (1970)

Walter Orr Roberts, Astro-geophysics (1960)

Gilbert White, Geography (1969)

Additional Academic Achievements

American Council of Learned Societies

The American Council of Learned Societies (ACLS), a private, nonprofit federation of 72 national scholarly organizations, is the preeminent representative of American scholarship in the humanities and related social sciences.

Miriam Kingsberg

Assistant Professor, History

Professor Kingsberg specializes in the history of modern Japan. Published in 2013, her first book, *Moral Nation: Modern Japan and Narcotics in Global History*, examines the history of narcotics in Japan from the mid-19th century through the mid-1950s. She argues that Japanese ideologies about narcotics were instrumental in the country's effort to establish its legitimacy as a nation and affected the ongoing global conversation about standards for political legitimacy in nations and empires in the late 19th and early 20th centuries. Professor Kingsberg's recent work focuses on the interwoven histories of anthropology, archaeology and national identity in 20th century Japan.



During the 2014-15 academic year, Professor Kingsberg will be an ACLS Charles A. Ryskamp Fellow and visiting scholar at Columbia University. Her research project, "Japan's Midwar Generation: Anthropologists and Nation in the 20th Century" investigates the generation that grew up in Japan before World War II and dominated public life from the 1930s to 1970s. She has received a number of earlier grants, fellowships and awards, most recently a two-year, non-teaching postdoctoral fellowship for social scientists at Harvard University's Academy for International and Area Studies.

Isaac Reed

Associate Professor, Sociology

The author of *Interpretation and Social Knowledge*, Professor Reed is a scholar of social theory and cultural sociology. His research on the Salem Witch Trials examines the intersection of culture, gender and power in Puritan society. His inquiry into social theory develops interpretive sociology in new directions, with particular attention to how cultural sociology can build causal explanations. As an ACLS Fellow, Professor Reed will seek to elaborate on a theoretical model of empire as a series of connections between principals, agents and others and to establish a historical link between the dynamics of empire and characteristically modern institutions. By analyzing three cases in which imperial sovereignty was challenged by resistance and rebellion on its periphery, Professor Reed will shed light on the historical legacy of imperial responses to social disruption.



Professor Reed is actively engaged in professional service, including serving as a board member of the Center for Advanced Research and Teaching in the Social Sciences at CU-Boulder, as a member of the editorial board of the *European Journal of Social Theory* and as a consulting editor of the *American Journal of Sociology*.



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.

CU-Boulder Academy Members

Active Academy Members

Margaret Eisenhart, School of Education
(2004)

Gene Glass, School of Education (2000) **Kris**

Gutierrez, School of Education (2010) **Lorrie**

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

Wieman, Physics; JILA (2009)

Retired Academy Members

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

Robert Linn, School of Education (1990)



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 projects focused on the relationships among engineering, technology and the quality of life.

CU-Boulder Academy Members

Active Academy Members

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

Kristi S. Anseth, Chemical and Biological Engineering (2009)

Daniel Baker, Astrophysical and Planetary Sciences; Laboratory for Atmospheric and Space Physics (2010)

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

George Born, Aerospace Engineering Sciences (2004)

Lewis Branscomb, Physics; JILA

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

Michael King, Laboratory for Atmospheric and Space Physics (2003)

Diane McKnight, Civil, Environmental and Architectural Engineering (2012)

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

Retired Academy Members

Fred Glover, Leeds School of Business (2002)

Don Hearth, Aerospace Engineering Sciences (1989)

Martin Mikulas, Aerospace Engineering Sciences (1999)

Jacques Pankove, Electrical and Computer Engineering (1986)

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

Deceased Academy Members

Adolph Busemann, Aerospace Engineering Sciences (1970)

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

Max Peters, Chemical and Biological Engineering (1969)

A. Richard Seebass, Aerospace Engineering Sciences (1985)

Klaus Timmerhaus, Chemical and Biological Engineering (1975)



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 and dedicated to the furtherance of science and technology and their use for the general welfare.

Active Academy Members

Kristi S. Anseth, Chemical and Biological Engineering (2013)

Lewis M. Branscomb, Physics; JILA

Marvin Caruthers, Chemistry and Biochemistry (1994)

Thomas R. Cech, Chemistry and Biochemistry (1987)

Noel Clark, Physics (2007) **Edward**

U. Condon, Physics; JILA **Eric**

Cornell, Physics; JILA (2000)

Larry Gold, Molecular, Cellular and Developmental Biology (1995)

John Hall, Physics; JILA (1984)

James T. Hynes, Chemistry and Biochemistry (2011)

Deborah Jin, Physics; JILA (2005)

Henry Kapteyn, Physics; JILA (2013)

W. Carl Lineberger, Chemistry and Biochemistry; JILA (1983)

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)

Roy Parker, Chemistry and Biochemistry, (2012)

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

John Wahr, Physics; Cooperative Institute for Research in Environmental Sciences (2012)

Carl Wieman, Physics; JILA (1995)

David Wineland, Physics (1992) **Jun**

Ye, Physics; JILA (2011)

Retired Academy Members

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

J. Richard McIntosh, Molecular, Cellular and Developmental Biology (1999)

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

Deceased Academy Members

Kenneth Boulding, Economics (1975)

Linda Cordell, Anthropology; University Museum (2005)

Stanley Cristol, Chemistry and Biochemistry (1972)

Charles DuPuy, Chemistry and Biochemistry (1999)

David M. Prescott, Molecular, Cellular and Developmental Biology (1974)

Stanislaw M. Ulam, Mathematics (2013)

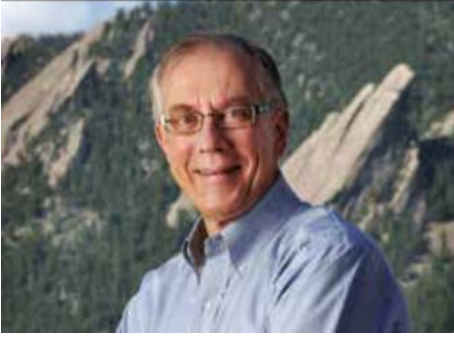
Gilbert White, Geography (1973)



Additional Academic Achievements

Nobel Laureates

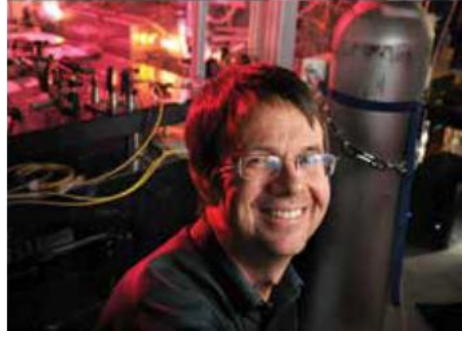
The Nobel Prize is an international award given yearly for achievements in physics, chemistry, economics, medicine, literature and peace. Nomination and selection of winners vary according to the category and prize-awarding institutions.



1989

Thomas R. Cech

Chemistry and Biochemistry



2001

Eric Cornell

Physics; JILA



2001

Carl Wieman

Physics; JILA



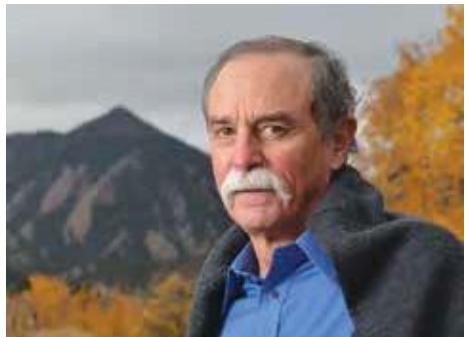
2005

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 members** 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.



2012

David Wineland

Physics

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 more than 70 CU-Boulder faculty members have been named Guggenheim fellows.

Stacey Steers

Lecturer, Film Studies Program

Intensely imagined and painstakingly crafted, the animated short films of Stacey Steers, a filmmaker and lecturer in the Film Studies Program, are composed of thousands of individual works on paper, including collages, historical photos, vintage clip art and individually painted images. The content of each of Steers' films emerges and evolves in a creative process that takes years to complete. She has five finished films: *Night Hunter*, *Phantom Canyon*, *Totem*, *Watunna* and *The Black Sheep*. Her films have been shown at numerous festivals worldwide, including the Sundance Film Festival and New Directors/New Films in New York City, where they have won national and international awards. She has also received a major grant from the American Film Institute and has been awarded residencies at The MacDowell Colony and Harvard University.



Ms. Steers' current project, *Random Forces*, is described as a Victorian sci-fi film exploring the female role in reproduction. Recently she expanded her work to include collaborative installations that combine three-dimensional production elements with film loops to create a compelling new context for her films.

CU-Boulder Guggenheim Fellows since 1998

Len Ackland, Journalism and Mass
Communication (2008)

Fred Anderson, History (2001)

Thomas Andrews, History (2011)

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 Epstein, History (1998)

Bruce 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)

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 identify and support talented individuals—writers, scientists, artists, social scientists, humanists, teachers—who have shown extraordinary originality and dedication in creative pursuits and a marked capacity for self-direction. The MacArthur Fellows Program awards five-year, unrestricted fellowships, sometimes referred to as “genius grants,” to individuals who show exceptional merit and promise of continued creative work.

Ana Maria Rey

Associate Research Professor, Physics; JILA

As a theoretical physicist at JILA, Ana Maria Rey works across the disciplines of atomic, molecule, optical and condensed-matter physics. With the goal of using mathematical models to describe the complex behavior of nature, Professor Rey’s research on ultracold optical-lattice systems (a crisscrossing set of laser beams) is contributing to advances in quantum simulation and quantum information.

Ultimately, her research may lead to the ability to engineer materials with unique characteristics, such as superfluids, liquids that appear to move without regard to gravity; and quantum magnets, individual atoms that act like tiny bar magnets. Her research could contribute to the development of more accurate clocks and global positioning systems and more powerful computers.

Widely respected as a mentor for young scientists, Professor Rey leads a large and productive group of graduate students and postdoctoral researchers. In 2013, she received the Presidential Early Career Award for Scientists and Engineers, the highest honor bestowed by the U.S. government on science and engineering professionals in the early stages of their research careers. She has been with JILA since 2012 and joined the physics department in 2008.



CU-Boulder MacArthur Fellows since 1981

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.” In 1980 Congress expanded this recognition to include the social and behavioral sciences. National Medals of Science are awarded by the president of the United States to individuals deserving of special recognition by reason of their outstanding cumulative contributions to knowledge in service to the nation.

Previous CU-Boulder Medal Winners

Marvin Caruthers, Chemistry and Biochemistry (2006)

Thomas R. Cech, Chemistry (1995)

Keith Roberts Porter, Biology (1976)

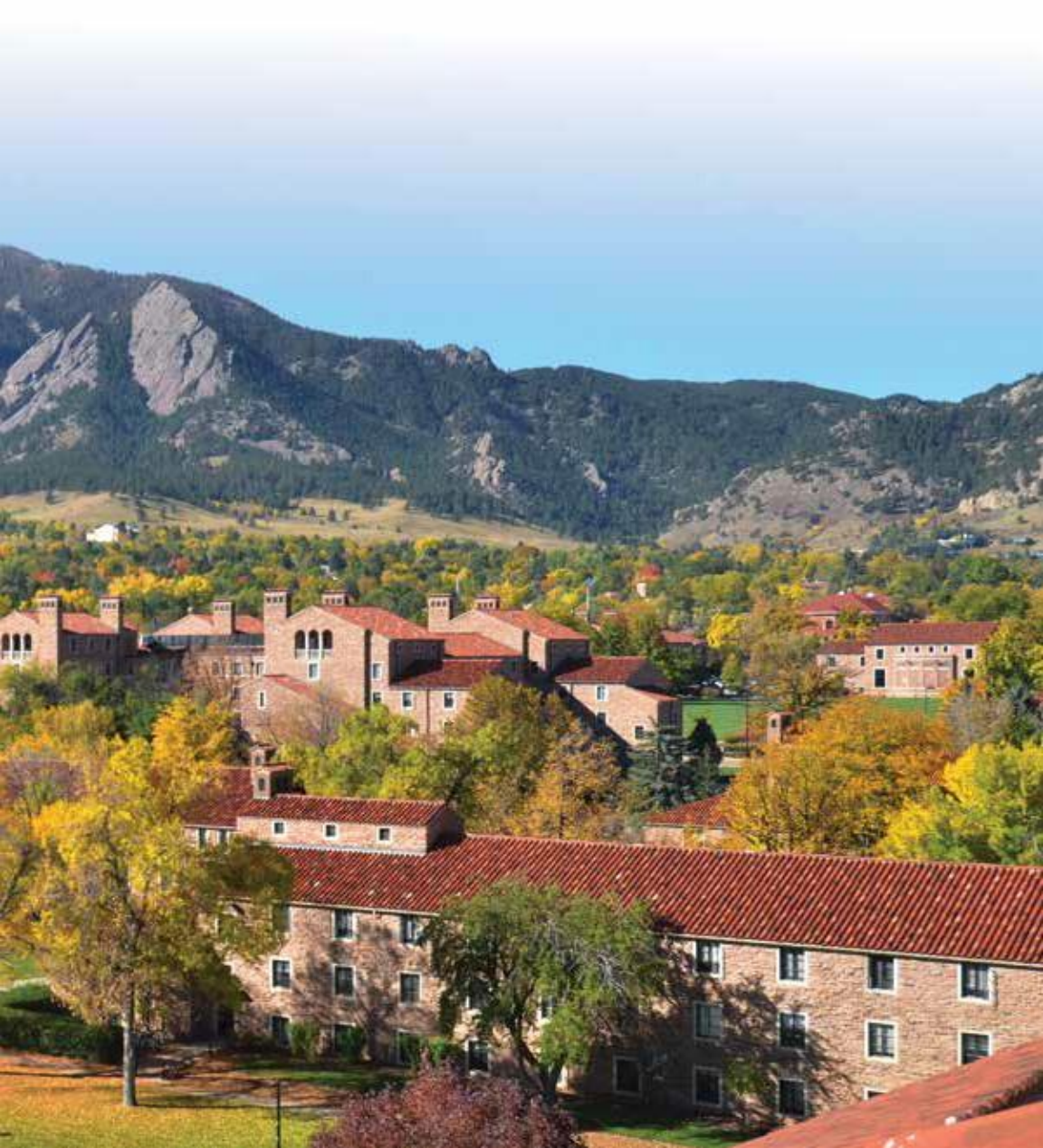


Packard Fellows

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.

CU-Boulder Packard Fellows since 1989

Anton Andreev , Physics (1999)	David Jonas , Chemistry and Biochemistry (1996)
Kristi S. Anseth , Chemical and Biological Engineering (1997)	Karla Kirkegaard , Molecular, Cellular and Developmental Biology (1989)
Elizabeth Bradley , Computer Science (1995)	Milos Popovic , Electrical, Computer and Energy Engineering (2013)
Barbara Demmig-Adams , Ecology and Evolutionary Biology (1992)	John Price , Physics (1990)



Additional Academic Achievements

Fulbright Fellows

The Fulbright program sends 800 U.S. faculty members 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. Fellows lecture and conduct research in a wide variety of academic and professional fields. CU-Boulder has had more than 100 Fulbright fellows since 1982.

Clarence Ellis

Professor Emeritus, Computer Science

Professor Ellis received a Fulbright award to teach at Ashesi University in Ghana, the culmination of his decades-long association with that institution and its founder and president. Using computer simulation, his course, *World Simulation: Culture, Technology and Ethics*, examined how various governments around the world are structured and function, with particular attention to ethical, economic, social and political factors. The goal of Ellis' course was to enhance students' creative thinking, ethical awareness, group problem solving and communication skills.



Professor Ellis was the first African-American man to earn a PhD in computer science (University of Illinois, 1969) and the first to be named a Fellow of the Association for Computing Machinery. He was also one of the founding members of the computer science department at CU-Boulder as an assistant professor in 1972. After retiring from the department in 2010, he continued to devote himself to bringing the excitement of computer science to a broader audience, particularly underserved communities.

On May 17, 2014, Professor Ellis died unexpectedly after returning to Colorado from a semester of teaching at Ashesi University.

Paul Erhard

Professor, Music

Professor Erhard is a nationally and internationally recognized double bassist. His teaching, drawing on his years of performing as a soloist, chamber musician and jazz bassist worldwide, provides his students with a broad understanding of the musical possibilities of the double bass. A pioneer in exploring the musical and expressive potential of his instrument in Indian classical music, Professor Erhard has studied both north and south Indian classical music with master Indian musicians in India and the United States. In 2002, he studied Carnatic vocal music in India on a Senior Performing Arts Fellowship from the American Institute of Indian Studies. In addition to exploring raga music of India, Professor Erhard formed the Indo-American fusion trio Atomic Vision with two of India's leading musicians. The trio's tours have received critical acclaim.



As a Fulbright scholar, Professor Erhard is conducting research on music cognition at the Sri Sathya Sai Institute of Higher Learning in India. The title of his project is "The Use of Indian Tanbura Drones by Indian Classical Music Performers and Teachers as an Aid for Developing Musical Perception and Good Intonation."

Additional Academic Achievements

Nan Goodman

Professor, English

Professor Goodman is the author of two books, *Banished: Common Law and the Rhetoric of Social Exclusion in Early New England* and *Shifting the Blame: Literature, Law and the Theory of Accidents in 19th Century America*. She has also written many refereed essays and reviews. Her 2013–14 Fulbright award included teaching a semester as a visiting professor at Bogazici University in Istanbul, Turkey, where she offered courses on the American novel and the law as well as on women's fiction. She also conducted research on the connections between the New England Puritans and their Ottoman counterparts.



Professor Goodman received a PhD in English from Harvard University and a JD from Stanford Law School. Her long list of awards and distinctions includes nomination for the John Hope Franklin Prize (American Studies Association 2012) and for the Morris Forkosch Prize (American Historical Association) for her books. She also was selected as a scholar-in-residence at the American Antiquarian Society. Professor Goodman was a visiting professor of law and humanities at Georgetown University Law Center in 2011.

Kevin Krizek

Professor, Environmental Design

Professor Krizek received a Fulbright award to research the role of accessibility and bicycling in promoting sustainable cities in Italy and elsewhere. He heads the Active Communities/Transportation (ACT) Research Group and publishes in the areas of travel behavior, neighborhood accessibility, health, and planning and sustainable development. His research focuses on how land use and transportation policies influence individuals' decisions about where to live as well as how to move about their communities.



His goal is to develop land use policies that promote sustainable and affordable urban travel (including walking and bicycling) and enhance urban livability. Professor Krizek teaches courses in land use and transportation and planning methods, as well as a PhD-level seminar on research design. From 2007 to 2012, he served as director of the PhD program in Design and Planning and is the outreach and education coordinator for sustainability efforts on the Boulder campus.

Professor Krizek is a founding co-editor of the *Journal of Transport and Land Use Research* and was chair of the Transportation Research Board Committee (a division of the National Research Council) on Telecommunications and Travel.

Elisabeth Sheffield

Associate Professor, English

Professor Sheffield is the author of three novels: *Gone, Fort Da: A Report* and *Helen Keller Really Lived*, as well as various works of short fiction and a critical monograph on James Joyce. She is interested in language as a material and medium that translates and shapes our experience of the world and in language's potential to create new linguistic spaces that leave readers disoriented.



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Additional Academic Achievements

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Her 2013–14 Fulbright Award project at the Queen’s University of Belfast in Northern Ireland was entitled “The Representation of Violence: The Violence of Representation in Contemporary Irish and American Fiction.” Two driving concerns appear in both her creative and critical work. The first is the problem of self and other. The second is the relation of representation to sex and gender ideology and how depictions of reality work to determine what is perceived as true about men, women, human nature and sexual identity.

Professor Sheffield was a Fulbright lecturer at Christian-Albrechts-Universitt zu Kiel, Germany in 1999–2000 and received a prestigious National Endowment for the Arts Award for her fiction in 2012.

Mark Williams

Professor, Geography; Institute of Arctic and Alpine Research

Professor Williams is a specialist in mountain hydrology and biogeochemistry, surface-groundwater interactions, acid mine drainage, and glacial and snow hydrology. He spent his Fulbright year at Kathmandu University working on his project, “Future Availability and Vulnerability of Water Resources in Nepal.” A member of the core faculty of the Environmental Studies Program, Professor Williams studies the ecology of mountain areas, examining the interaction of organisms with their environment, focusing on classical environmental variables such as soil, rocks and minerals as

well as surrounding water sources and the local atmosphere. He has conducted research in many of the mountain ranges throughout the world, including the Rocky Mountains, the Sierra Nevada, the Tien Shan and Qilian Shan in China, the Andes of South America, the Alps and the Himalayas.

Among Professor Williams’ awards and honors are being elected a fellow of the American Geophysical Union, receiving the Denali Recent Accomplishment award, and serving as the first visiting professor of the Institut de la Montagne at the University of Savoie in Chambéry, France. Professor Williams was a Fulbright Scholar in Ecuador in 1999.



CU-Boulder Fulbright Fellows since 2006

Len Ackland, Journalism and Mass Communication (2009)

Marie Banich, Psychology and Neuroscience (2006)

Bud Coleman, Theatre and Dance (2010)

Richard Collins, School of Law (2008)

Herbert Covert, Anthropology; University Museum (2009)

Elizabeth Dunn, Geography; International Affairs (2009)

Claire Farago, Art and Art History (2012)

Jennifer Fitzgerald, Political Science (2008)

Eugene Hayworth, University Libraries (2010)

Keith Kearnes, Mathematics (2011)

John Kineman, Cooperative Institute for Research in Environmental Sciences (2009)

Kim Kreutzer, Office of International Education (2011)

Thea Lindquist, University Libraries (2012)

Robert McNown, Economics (2006)

Keith Molenaar, Civil, Environmental and Architectural Engineering (2006)

Michele Moses, School of Education (2014)

Astrid Ogilvie, Institute of Arctic and Alpine Research (2010)

Cecilia Pang, Theatre and Dance (2010)

Brenda Romero, Music (2011)

University of Colorado
Boulder

ATLAS V



Mars Atmosphere and Volatile Evolution

MAVEN



University of Colorado **Boulder**

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