A Celebration of Faculty Achievement

Fall 2015
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 groundbreaking research, scholarship and creative work; who bring the fruits of their inquiries into the classroom to provide our students with an education of the highest quality; and who contribute in numerous other ways to shape the character and future not only of the state and region but, indeed, of the world. It is not much of an overstatement to say that the university is its faculty.

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

To list all the accolades earned by our faculty would require a substantial volume. This 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

Russell Moore
Provost and Executive Vice Chancellor for Academic Affairs
## Tenure Recipients
(Effective August 2015)

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## Promotions to Full Professor
(Effective August 2015)

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<td>Zhiqiang Zhai</td>
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Daniel Baker
Professor, Astrophysical and Planetary Science; Laboratory for Atmospheric and Space Physics (LASP)

The author of more than 700 refereed studies, Professor Baker is a nationally recognized leader in the field of space research. He has served as principal investigator for several scientific NASA programs and missions, including the Radiation Belt Storm Probe. Recently, Baker was the lead author of a study published in Nature that described the discovery of an invisible electron shield thousands of miles above Earth. Dr. Charles F. Kennel, chair of The National Academy of Sciences Space Studies Board, said of Baker’s work, “{It} is singular for its balance of passion and judgment. This quality, which he brings to all his research, now benefits the whole space plasma community.”

Prior to his work at the university, Baker served as chief of NASA’s Laboratory for Extraterrestrial Physics at the NASA/Goddard Space Flight Center. He is a fellow of the American Association for the Advancement of Science, the American Geophysical Union and the International Academy of Astronautics. He has served as the director of CU Boulder’s Laboratory for Atmospheric and Space Physics (LASP) since 1994.

Kris Gutiérrez
Professor, Education

Professor Gutiérrez explores the process of learning in designed learning environments among students from non-dominant communities. She has worked in school systems across the country to build models to train teachers effectively in both school based and community settings. Five years ago, she began the El Pueblo Mágico program at local Sanchez Elementary, which encourages students to investigate alternative energy sources. Her research has led to breakthroughs in the pedagogical approach to STEM learning, encouraging students to draw upon existing every day and scientific knowledge sets and to “tinker” and explore in the classroom.

A past president of the America Educational Research Association, Gutiérrez was recently elected to the National Academy of Education. In 2012, she was nominated by President Obama and the U.S. Senate to serve on the Governing Board of the Institute for Educational Sciences. In 2014, she received the Henry T. Trueba Award for Research Leading to the Transformation of Social Contexts as well as a Lifetime Achievement Award from the American Educational Research Association. Since 2009, Gutiérrez has held the inaugural Provost’s Chair in the School of Education at CU Boulder.
CU-BOULDER DISTINGUISHED PROFESSORS

Leslie Leinwand
Professor, Molecular, Cellular and Developmental Biology

As the chief science officer of CU Boulder’s BioFrontiers, Professor Leinwand is a nationally recognized authority in cardiac biology. In her research, she investigates how cardiac and skeletal muscles respond to stimuli like diet and exercise, which has led to ground-breaking implications for cardiac health in humans. Her work has also led to breakthrough discoveries regarding physiological differences between male and female cardiac biology. Leinwand created The Python Project, which investigates organ growth and lipid consumption in Burmese pythons. The project also gives undergraduates at the university the opportunity to participate in exciting and innovative research.

Leinwand serves as an ex-officio board member of the Global Down Syndrome Foundation. She has authored over 185 scientific publications and founded a biotechnology company that conducts clinical trials on heart medications. From 2006 to 2010, Leinwand was a Howard Hughes Medical Institute professor. In 2013, she received the Bonfils-Stanton Award for Science and Medicine. In 2014, Leinwand was inducted into the American Academy of Arts and Sciences, one of only 29 CU Boulder faculty members to receive this honor.

Daniel Scheeres
Professor, Aerospace Engineering Sciences

Professor Scheeres is the A. Richard Seebass Endowed Chair in the Department of Aerospace Engineering Sciences. He also serves as the associate chair for graduate studies while directing the Colorado Center for Astrodynamics Research. He is widely recognized as a preeminent researcher in celestial mechanics and has helped to develop precise constraints on the gravitational evolution of multi-body distributed systems. His work has focused on the gravitational dynamics that exist close to small, irregularly shaped minor planets. Scheeres' research has led to crucial discoveries about the physical nature of asteroids. Currently, he is the radio science team lead for NASA’s OSIRIS-Rex project, which will collect samples from an asteroid and return them to Earth.

In 2012, Scheeres was awarded the American Astronautical Society's Dirk Brouwer Award, which recognizes outstanding lifetime contributions to the field of spaceflight mechanics and astrodynamics. A fellow of the American Institute of Aeronautics, he was also honored by having asteroid 8887 renamed “Scheeres” to celebrate his contributions to the field of aerospace research.
Active Distinguished Professors
Kristi S. Anseth, Chemical and Biological 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
Zoya Popovic, Electrical, Computer and Energy Engineering
Pierre Schlag, School of Law
Lorrie Shepard, School of Education
Margaret Tolbert, School of Education; 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
Frank Barnes, Electrical, Computer and Energy Engineering
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 Jessar, 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
Norman Pace, 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, 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
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.

Roseanna Neupauer
Associate Professor, Civil, Environmental and Architectural Engineering

Professor Roseanna Neupauer’s research focuses on groundwater hydrology contamination and remediation, areas of study essential to the sustainable use and protection of the planet’s largest accessible freshwater source. She uses mathematical models to improve existing models of groundwater management and remediation. Her 30-plus journal publications include 15 in the field’s leading journal, Water Resources Research. On the CU Boulder faculty since 2005, Neupauer has garnered many honors, including the Walter L. Huber Civil Engineering Research Prize from the American Society of Civil Engineers, the national ExCEEd New Faculty Excellence in Teaching Award and the Boulder Faculty Assembly’s Excellence in Teaching Award. She mentors not only her students but also junior faculty in her college and across the country. “Dr. Neupauer is an active and energetic scholar; a caring and inspirational teacher and mentor; and a constructive colleague with a passion for fostering the highest standards of scholarship and pedagogy in the academic environment surrounding her,” wrote Harihar Rajaram in his nominating letter.

Valerie Otero
Professor, Science Education

A physics education researcher, Professor Otero explores the dynamic nature of the learning environment and its relationship with the evolution of learners’ ideas. Her teaching interests are in the areas of science teacher education, laboratory based physics classrooms, history and philosophy of physics education, and learning theory. She mentors faculty and K–12 science teachers in the community to help them build learning environments that empower students. At CU Boulder since 2001, Professor Otero serves as executive director of the Colorado Learning Assistant Program and is co-director and co-founder of the Center for STEM Learning. Her many awards include the national Woman Physicist Accomplishment Award and the Boulder Faculty Assembly Award for Excellence. “Valerie is committed to education at all levels,” wrote Steven J. Pollock in his nominating letter. “She cares deeply about students, about science education, and about educational change. And, she puts her energy into action.”
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
Scot Douglass, Herbst Humanities
Elspeth 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
Helen Norton, School of Law
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
Carl Wieman, Physics

Retired Scholars

Douglas Burger, English
Anne Costain, Political Science
Stanley Deetz, Communication
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
Marianne Wesson, School of Law

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
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.

Fred Anderson
Professor, History

Professor Anderson specializes in early American history and is the author or co-author of several books, including Crucible of War: The Seven Years’ War and the Fate of Empire in British North America, for which he won the Francis Parkman Prize for the best nonfiction work of history on an American theme. Anderson has received many awards and honors for his scholarship, including Guggenheim, Rockefeller and National Endowment for the Humanities fellowships. Anderson is currently working on a volume for the prestigious Oxford History of the United States and has given about 125 public and private lectures. In 2010, he was named a Professor of Distinction in the College of Arts and Sciences.

Anderson was director of the Honors Program in the College of Arts and Sciences from 2009 to 2012. Nominators from CU-Boulder and other major universities described him as “the quintessential scholar teacher” a “historian’s historian” and “one of the single top historians of early America.” Indicative of Anderson’s impact on students, several former CU-Boulder undergraduate honors students who worked with him wrote letters in support of his nomination for the Hazel Barnes Prize.

2015 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

Alireza Doostan, Aerospace Engineering Sciences
Gordana Dukovic, Chemistry and Biochemistry
Miriam Kingsberg, History
Mark Rentschler, Mechanical Engineering
Seema Sohi, Ethnic Studies

Tenured

Andrew Cain, Classics
Jennifer Cha, Chemical and Biological Engineering
Eric Frew, Aerospace Engineering Sciences
Pieter Johnson, Ecology and Evolutionary Biology
Stefanie Molborn, Sociology
Andrew Schwartz, School of Law
Paul Sutter, History
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.

Adam Bradley
Associate Professor, English

One of the country’s leading scholars of black popular culture, Professor Bradley is the founding director of the Laboratory for Race & Popular Culture—the RAP Lab—a CU-Boulder academic center that facilitates research on race and culture. Among its initiatives is Hip-Hop in the Classroom, with the goal of linking the scholarly study of hip-hop with local efforts to diversify curricula in middle schools and high schools, particularly those with students from underrepresented minority groups. Bradley teaches courses in African American literature and culture. His scholarship and teaching engage traditional objects of literary research such as novels, poems, music and song lyrics.

Bradley is the author of Book of Rhymes: The Poetics of Hip Hop and Ralph Ellison in Progress. He also co-wrote the bestseller One Day It’ll All Make Sense. He edited The Anthology of Rap as well as Ralph Ellison’s posthumously published unfinished second novel, Three Days Before the Shooting. Presently he is at work on a number of projects, including a book that explores the poetics of popular song.

Steven Pollock
Professor, Physics

A theoretical nuclear physicist by training, Professor Pollock began teaching at CU-Boulder in 1993 and has taught the full range of physics classes available to undergraduates. Pollock’s passion for teaching influenced his research career, and now he studies the effectiveness of different pedagogical techniques. Widely regarded as a leading scholar in the field of physics education, he has led major curriculum innovations in physics courses at CU-Boulder. Recognizing that some students learn better from other students, Pollock introduced the successful Learning Assistant Program to the physics department in 2003.

The program employs advanced undergraduates to provide instructional support to students in beginning level courses. Pollock has received numerous teaching awards, including the Chancellor’s Award for Excellence in STEM Education, Innovation and Research; the CU President’s Teaching Scholar Award; and CU Boulder’s Best Should Teach Gold Award, among others. He was named a Pew Carnegie National Teaching Scholar and the Sigma Pi Sigma Favorite Physics Professor. In 2013, he was named U.S. Professor of the Year by the Carnegie Foundation for the Advancement of Teaching and the Council for Advancement and Support of Education.
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.

Zoya Popovic
Distinguished Professor, Electrical, Computer and Energy Engineering

Since joining the faculty at CU-Boulder, Professor Popovic has developed several undergraduate and graduate electromagnetics and microwave laboratory courses and established a strong, active research group. The Microwave Antenna and Circuits Group designs new antennas and circuits that work in the microwave and millimeter wave range for applications in wireless communications, radar and optical communications and processing. Considered an expert in microwave antennas and circuits, Popovic holds several patents for innovations in the field.

Popovic holds the Hudson Moore Jr. Professorship in Engineering. She is a fellow of the Institute of Electrical and Electronics Engineers (IEEE) and the recipient of several prestigious awards for teaching and research. Among these are the National Science Foundation Presidential Faculty Fellow Award, the American Society for Engineering Education Frederick E. Terman Gold Medal, the International URSI Issac Koga Gold Medal and the Eta Kappa Nu Professor of the Year Award from her students. Popovic has twice won the IEEE Microwave Prize for Best Paper of the Year, published in the IEEE Transactions on Microwave Theory and Techniques.

Diane McKnight
Professor, Civil, Environmental and Architectural Engineering, Institute of Arctic and Alpine Research

Through research undertaken over 30 years, Professor McKnight has helped to establish the biogeoosciences as a major interdisciplinary field. McKnight’s research focuses on the biogeochemistry of natural organic material and trace metals in streams and lakes and their impacts on water supplies. She has pursued research based on data collected from sites from the South Pole to Africa. The scope of her work has allowed her to contribute to a broadening of the foundations of hydrologic science. McKnight also has conducted research on stream ecosystems as part of the McMurdo Dry Valleys Long-Term Ecological Research Project and on alpine lakes and acid mine drainage streams in the Rocky Mountains.

She has served as president of the American Society of Limnology and Oceanography and as editor of the Journal of Geophysical Research-Biogeosciences. McKnight is an elected member of the National Academy of Engineering. The European Geophysical Union awarded the 2015 John Dalton Medal to her for seminal contributions to understanding the interactions of hydrology, biogeochemistry and ecology of lakes and streams, and the interaction of surface water and groundwater.
Doug Seals
Professor, Integrative Physiology

Professor Seals’ primary research interest is the integrative physiology and pathophysiology of human aging. He focuses particularly on the changes in large artery stiffness, the biological and lifestyle factors that influence vascular aging and the integrative mechanisms that mediate vascular aging, as well as interventions to mitigate adverse physiological changes with aging. Seals founded the Responsible Conduct of Research Program, which provides research training from the undergraduate to postdoctoral levels, and he teaches courses on the physiology of aging and on professional skills for the research scientist.

Seals has received numerous honors for his work, including the Citation Award from the American College of Sports Medicine; a MERIT Award from NIH to support his research on habitual exercise and vascular endothelial dysfunction in older adults; the Herbert H. deVries Award for Distinguished Research in the Field of Aging; and a BFA award for research, scholarly and creative work. He was named an Edward F. Adolph Distinguished Lecturer by the American Physiological Society. As a scholar of exceptional talent, Seals was named a Professor of Distinction by CU’s College of Arts and Sciences.

Student Affairs Faculty of the Year Award

The Student Affairs Faculty of the Year Award recognizes a faculty member who demonstrates outstanding engagement with students while contributing to the Division of Student Affairs mission and goals. This award recognizes faculty members who are committed to providing quality student services and support, promoting inclusive excellence and diversity, modeling and developing outstanding student leadership, fostering intellectual growth, and encouraging involvement in campus, local, national and global communities.

Rebecca Ciancanelli
Instructor, Miramontes Arts & Sciences Program, STEM Director, Student Academic Success Center

Dr. Rebecca Ciancanelli has demonstrated an extraordinary commitment to bridging the efforts of Academic Affairs and Student Affairs to improve student success. She is dedicated to breaking down institutional barriers to student success and supporting students by modeling inclusive excellence. Ciancanelli uses a holistic, strength based model to teach, advise and mentor. She promotes diversity through teaching for the Miramontes Arts and Sciences Program, the Student Academic Success Center and CU LEAD Alliance. Ciancanelli designed, implemented and taught the Chemistry Success Project to support underrepresented students’ access to and success in STEM majors and careers.

By introducing an innovative approach, Process Oriented Guided Inquiry Learning, into her chemistry courses, she fosters the intellectual growth of her students. She also encourages involvement by guiding students to create their own community space—the STEM Hub—a favorite hangout on campus for students that provides opportunities for formal instruction and study as well as informal interaction. One of the testimonials in support of her nomination aptly described Ciancanelli’s work as “boundary spanning.”
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.

Susan Kent
Professor, History

A prolific scholar, Professor Kent has spent most of her career as a British historian, with a particular focus on issues of gender. She is the author of 11 books, including *Sex and Suffrage in Britain, 1860–1914* (1987); *Making Peace: The Reconstruction of Gender in Interwar Britain* (1993); *Gender and Politics in Britain, 1640–1990* (1999); *Aftershocks: Politics and Trauma in Britain, 1918–1931* (2009); *The Global Influenza Pandemic of 1918–1919* (2012); and *Queen Victoria: Gender and Empire* (2015).

Kent joined the CU-Boulder faculty in 1993. That year, she also held a National Endowment for Humanities fellowship at the Institute for Advanced Study in Princeton. She worked as associate vice chancellor for faculty affairs between 2001 and 2005 and served as chair of the Department of History from 1998 to 2000 and again from 2008 to 2014.

Carole Newlands
Professor, Classics

Professor Newlands’ principal areas of research include Augustan and post-Augustan poetry, and she has a strong interest in late antique and medieval poetry, also Roman and medieval art, and the reception of classical texts. Her first book was *Playing with Time: Ovid and the Fasti*, and she continues to publish on Ovid’s poetry. In addition, she is the author of more than 40 articles on classical and medieval topics as well as several books.

Newland has held research fellowships at Clare Hall, Cambridge and at the Institute for Advanced Studies, Princeton, as well as fellowships from the American Council of Learned Societies, the National Endowment for the Humanities and the Loeb Classical Library Foundation. In spring 2010, she was the Visiting NEH Professor at the University of Richmond; in summer 2010, she was the William Evans fellow at the University of Otago, New Zealand. In 2016, she will be a research fellow at the Center for Humanities at the National University of Australia, Canberra.
Richard Olson
Professor, Psychology and Neuroscience

A developmental cognitive psychologist well known for his research on children with reading disabilities, Professor Olson is an expert in genetic and environmental influences on reading and related skills. His highly collaborative research program on reading ability and disability has been continuously supported by the National Institutes of Health since 1979. In 1990, he co-founded the Colorado Learning Disabilities Research Center, and he has served as the center’s principal investigator and director since 2005. In 2000, Olson, a fellow of the Institute for Behavioral Genetics, co-founded the International Longitudinal Twin Study of reading and attention.

A member of the Center for Neuroscience, Olson is a charter member of the Society for the Scientific Study of Reading, served as the society’s president, and was awarded its Distinguished Scientific Contribution Award in 2006. Olson’s research since 1980 has focused on the causes and remediation of reading disabilities. Since 1982, he has been testing identical and fraternal twins to assess the genetic correlates of deficits in specific reading processes and related cognitive skills.
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.

Miriam Kingsberg
Assistant Professor, History

In Moral Nation: Modern Japan and Narcotics in Global History, Professor Kingsberg examines illegal drugs as the foundation of a global consensus on the nature of political legitimacy in nations and empires. She provides “in-depth understanding of how Japan’s experience with narcotics influenced global standards for sovereignty and shifted the aim of nation building, making it no longer a strictly political activity but also a moral obligation to society.” Specializing in the history of modern Japan, Kingsberg has focused recently on the anthropology, archaeology and national identity of 20th-century Japan and the world.

In 2010–12, she was an academy scholar at the Harvard Academy for International and Area Studies. She won a Charles A. Ryskamp Fellowship from the American Council of Learned Societies for her current book project, provisionally titled Japan’s Midwar Generation: Anthropologists and Nation in the 20th Century. She will spend the 2014–15 academic year working on her research as a visiting scholar at Columbia University in New York City.

Ruth Ellen Kocher
Professor, English

In addition to winning a Kayden Book Award, Ruth Ellen Kocher, professor of English and director of the creative writing program at CU-Boulder, was co-winner of the PEN Open Book Award for her book of poems titled domina Un/blued. See page 42.

Kayden Book Award—Honorable Mention

Laura Olson Osterman
Associate Professor, Germanic and Slavic Languages & Literatures

The Worlds of Russian Village Women: Tradition, Transgression, Compromise

Matthias Richter
Associate Professor, Asian Languages and Civilizations

The Embodied Text: Establishing Textual Identity in Early Chinese Manuscripts
Boulder Faculty Assembly Excellence in Teaching

Elissa Guralnick
Professor Emerita, Music

A CU-Boulder faculty member from 1973 to 2014, Professor Guralnick has made exceptional contributions through her work teaching students to write and think about music, developing courses in the College of Music, serving as a writing mentor for CU faculty and creating innovative pedagogy for teaching writing to musicians across the country. Coming to the College of Music from English in 2007, Guralnick worked closely with graduate students on the written projects required for their degree. For undergraduates, she began with the premise that each student, as a musician, has a valuable perspective on music and a unique relationship with particular musical works. She helped students transform this perspective into a scholarly thesis.

Guralnick is developing her innovative pedagogy into a book called Performing on the Page: Expressing the You-of-It in Writing About Music. What distinguishes it from other books on writing is the focus on how musicians can access, as writers, the same connection to music that animates their performances on stage. Many CU faculty members know Guralnick through her workshop “Well Argued? Well Written!”

Andrew Martin
Professor, Ecology and Evolutionary Biology

Considered one of the most innovative and effective teachers in his field, Professor Martin has been instrumental in the transformation of teaching practice and student learning in his department. Leading by example and providing opportunities to transform the classroom experience for undergraduate students, Martin has inspired a major improvement in the way the department accomplishes its teaching mission. To support this transformation, Martin has organized retreats and workshops for faculty members and graduate and postdoctoral students to discuss and experiment with proposed teaching methods.

His inspired use of postdoctoral teaching science fellows and undergraduate learning assistants has allowed faculty members to successfully engage an entire large enrollment class in active learning. In collaboration with faculty members at CU and other universities, Martin is now spearheading the development of testing that will assess the gain in student understanding of science process skills. Martin is also involved in annual outreach activities in which teachers from the Boulder Valley School District and surrounding districts come to CU for training and curriculum development.
A talented teacher, Professor Mollborn is engaging, organized, clear and inspiring. She provides insights, perspectives and important skills for students, whether they are taking her class, majoring in sociology or planning on a career in the field. Undergraduate students appreciate the hands-on experience she provides through her research grant and the Undergraduate Research Opportunities Program, while graduate students value her teaching expertise and professional guidance. A dedicated mentor, Mollborn makes time to meet with students and offers advice and support when needed. An indicator of her reputation as a teacher is the frequency with which she is asked to present on current teaching strategies.

She has presented at the Faculty Teaching Excellence Program Summer Institute on Educational Technologies, the New Assistant Professor Program colloquium, and the CU Conference on Teaching, Learning and Scholarship in the Third Millennium University. A faculty member since 2006, Mollborn regularly makes presentations with graduate students and actively seeks ways to involve more students in national meetings.
BOULDER FACULTY ASSEMBLY AWARDS

Boulder Faculty Assembly Excellence in Leadership and Service

James Austin
Professor, Music

Professor Austin exemplifies the highest level of service and leadership at CU-Boulder as well as at the state and national level. On campus, his work has involved a broad range of campus initiatives, including faculty compensation and benefits, distance education, international education and strategic planning. To students, Austin has been a trusted advisor, mentor and research collaborator, often maintaining those relationships long after graduation. Not surprisingly, many new faculty members in music education choose Austin as their mentor.

Austin maintains strong ties with the music education community. His research on educational success enables him to provide wise counsel to music colleagues and countless K–12 music teachers in Colorado and beyond the state. He has been a sought after speaker at annual meetings of public school music teachers as well as other meetings at the state and national levels. Taking on the role of interim dean of the college of Music during the 2013–14 academic year, Austin successfully met the challenge of moving the college forward when a less committed leader might have settled for maintaining the status quo.

Nicholas Flores
Professor, Economics

Now in his third term as department chair, Professor Flores has demonstrated dedicated service and leadership in advancing the teaching and research mission of his department, earning the respect of his colleagues both within his department and in the wider campus community. In the area of student advisement and mentoring, Professor Flores has excelled at preparing graduate students for successful careers in this field. He has placed students at internships and positions at NREL and other environmental research organizations. As chair, Flores has been especially active in securing external support for his department.

He has been indefatigable in meeting with alumni, friends and supporters of the university both locally and across the nation, telling the story of his department and creating opportunities for potential donors to contribute to its future success. The results have been remarkable: since Flores became chair, eight new endowments totaling $4.9 million have been established for economics.

In service to the profession, Flores has been a member of the Science Advisory Board of the U.S. Environmental Protection Agency since 2009, lending his expertise to the EPA on the value of water in the U.S. economy and on methodologies used in the economic analysis of environmental policies.
Carmen Grace
Senior Instructor, French and Italian

Dr. Grace is the organizational pillar of the language program in the Department of French and Italian, managing all aspects of course distribution, revising curriculum, advising undergraduate students, and directing outreach and fundraising events to support the cultural productions of the department. She also manages pedagogical and career training for graduate students and provides guidance when needed. After 30 years in the department, Grace continues to develop and participate in extracurricular events that provide students with opportunities to use and enjoy the French they have worked hard to learn, including French Table, French Club and French Musical.

Grace is dedicated to the Community based learning and service that are essential to prepare students for successful careers. Grace has chaired numerous campus level committees and has been very involved in the work of the Boulder Faculty Assembly. Improving relations between the faculty and intercollegiate athletics has been a core goal of the assembly. To that end, Grace encouraged her colleagues to think about how to highlight the accomplishments of student athletes and faculty members, a suggestion that culminated in the successful annual spring event Spotlight on Celebration.

Timothy Seastedt
Professor, Ecology and Evolutionary Biology, Institute of Arctic and Alpine Research

Professor Seastedt’s service to his profession takes the form of leadership in advancing the study of ecology and environmentally sound land management. He has served as the president of the Association of Ecosystem Research Centers and has been involved in leadership at the national level with the National Science Foundation, the U.S. Department of Agriculture, the Natural Resources Council, the Heinz Center and the National Academy of Science, focusing on the future of ecological research and ecosystem management. He also serves on the editorial boards of six prestigious academic ecology journals. As a member of the Inter-governamental Panel on Climate Change, Seastedt shared in the Nobel Peace Prize awarded in 2007.

For a decade, Seastedt administered the Niwot Ridge Long-Term Ecological Research Program, a National Science Foundation sponsored program involving dozens of faculty members and graduate student researchers. Locally, he works with the U.S. Forest Service and Boulder County to help control the spread of weeds on public lands. And he has volunteered for many local activities to develop novel ways to restore degraded land in the Front Range.
BOULDER FACULTY ASSEMBLY AWARDS

Boulder Faculty Assembly Excellence in Research, Scholarly and Creative Work

William Bowman
Professor, Ecology and Evolutionary Biology
Director, INSTAAR Mountain Research Station

Regarded as a world leader in the fields of plant ecology and alpine biogeochemistry, Professor Bowman has expanded his focus to include the effects of air pollution on plants, microbes and the environment at sites throughout the world. His peer reviewed publications have been cited over 6,000 times, with more than 600 citations in 2014 alone. His groundbreaking research addresses not only important scientific questions but also issues of broad importance to the environment and society. His research on the negative impact of atmospheric pollution on alpine plant communities is revealing that alpine areas are more susceptible to environmental change than expected.

Bowman has made major contributions to the understanding of mountain ecosystems, and his research and influence have led to important policy changes at the national level. For Bowman, research and teaching go hand in hand. He is an outstanding mentor and teacher of graduate and undergraduate students. Many of his former students have gone on to stellar careers of their own. He not only involves students in his research, but also publishes with graduate and undergraduate students on a regular basis.

Chris Braider
Professor, French and Italian

An interdisciplinary scholar, Professor Braider has deep and abiding knowledge of literary history, the history of philosophy and the history of the visual arts. His linguistic competencies range across several languages and traditions. He has written important essays in philosophy (on Descartes), art history (on Poussin) and literature (French theater of the 17th century). His work is illuminating and original in ways that generate new approaches and insights. A productive scholar, Braider has published four major books by leading university presses in the last two decades, as well as 26 refereed or invited articles in major journals.

Brian Catlos
Professor, Religious Studies

One of the world’s leading figures in the study of medieval Iberia, Professor Catlos has made seminal contributions to the study of Mediterranean history. In 2014, he published two book length studies, an impressive achievement in just one year. In Infidel Kings and Unholy Warriors: Faith, Power and Violence in the Age of Crusade and Jihad, he argues that politics and power define interactions between religions in the medieval world. His second monograph, Muslims of Medieval Latin Christendom, won the Albert Hourani prize, the most important award in the field of Middle Eastern and Islamic studies.

Catlos’ research impacts many scholars. After joining CU-Boulder in 2010, he established the CU Mediterranean Studies Group, which has involved over 30 CU faculty members and graduate students across eight departments and organizes a robust program of workshops, conferences and speaker events on campus. Prior to coming to CU, Catlos established a similar center at the University of California, Santa Cruz, and has integrated the two centers. His scholarship, leadership and drive are transforming research in medieval studies both nationally and internationally.

Yongmin Chen
Professor, Economics

Professor Chen is regarded as a leading scholar in the field of industrial organization, which studies how firms organize themselves, set the price of their products, determine the quality of their products and innovate. Chen has made major contributions in three areas. First, he pioneered dynamic price theory, in which a firm sets different prices to different consumers based on their purchase histories. Second, he developed a theoretical explanation of the relationship between economic development and intellectual property protection in developing countries and offered new insights into the optimal design of such protection.

And third, he identified new conditions under which a vertical merger may raise or lower consumer prices. This area of research in particular has influenced policy makers involved in antitrust enforcement. During his distinguished career, Chen has frequently been invited to give seminars—nearly 150 in all—on his research at universities and other institutions both nationally and internationally. As befits a distinguished scholar, Chen has also held a number of editorial positions at prestigious journals in his field.
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
Karla Kirkegaard (1990–1996), Associate Professor, Molecular, Cellular and Developmental Biology

Society of Howard Hughes Medical Institute Professors
Leslie Leinwand, Distinguished Professor, Molecular, Cellular and Developmental Biology

Pulitzer Prize

The Pulitzer Prize is an award for achievements in newspaper and online journalism, literature and musical composition in the United States.

Elizabeth Fenn
Associate Professor, Department Chair, History

Professor Fenn won the Pulitzer Prize for history for her book Encounters at the Heart of the Word: A History of the Mandan People. Pulitzer judges called her work “an engrossing, original narrative showing the Mandans, a Native American tribe in the Dakotas, as a people with history.” Fenn specializes in the early American West, focusing on epidemic disease, Native American and environmental history. Her 2001 book Pox Americana: The Great Smallpox Epidemic of 1775-82 unearthed the devastating effects of a smallpox epidemic that coursed across the North American continent during the years of the American Revolution.

She is now at work on an expansive biography of Sakagawea, using her life story to illuminate the wider history of the northern plains and Rockies. She is also the co-author, with Peter H. Wood, of Natives and Newcomers: The Way We Lived in North Carolina before 1770, a popular history of early North Carolina. Fenn joined the CU-Boulder faculty in 2012 and is also a faculty affiliate of the CU-Boulder Department of Ethnic Studies.
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.

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)
Leslie Leinwand, Molecular, Cellular and Developmental Biology (2014)
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)
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 Philosophical Society

An eminent scholarly organization of international reputation, the American Philosophical Society promotes useful knowledge in the sciences and humanities through excellence in scholarly research, professional meetings, publications, library resources and community outreach. The country’s first learned society, the APS has played an important role in American cultural and intellectual life for over 250 years.

Margaret Murnane
Professor, Physics

Distinguished Professor Murnane is known internationally for her research—much of it with her husband and colleague, JILA fellow and CU-Boulder physics Professor Henry Kapteyn—on optical and X-ray science using tabletop light sources. With her research group, Murnane develops new ultrafast laser and coherent X-ray sources as part of their research in optical sciences, using the light sources for new experiments in physics, chemistry, materials science and engineering. Of particular interest, ultrafast coherent X-ray beams of the kind Murnane studies are expected to be indispensable tools for scientists in developing practical nanoscale machines.

Murnane is the recipient of many national and international awards. She has been elected to both the National Academy of Sciences and the American Academy of Arts and Sciences and was awarded a John D. and Catherine T. MacArthur Fellowship, or “genius grant,” in 2000. In addition to her scientific work, Murnane is known for her efforts to get women involved in science and to support them once they enter an academic environment.

Other CU-Boulder Academy Members

Thomas Cech, Chemistry and Biochemistry
Gilbert White, Geography
Kenneth Boulding, Economics
ADDITIONAL ACADEMIC ACHIEVEMENTS

American Association for the Advancement of Science

Founded in 1848, the American Association for the Advancement of Science is the world’s largest general scientific society and publisher of the journal Science. The honor recognizes recipients’ scientifically or socially distinguished efforts to advance science or its applications.

David Jonas
Professor, Chemistry and Biochemistry

Throughout his distinguished career, Professor Jonas has played a key role in understanding and measuring molecular movements. Jonas’ work focuses on probing and measuring the fastest electronic movements within molecules. In 1998, Jonas’ research group used femtosecond lasers to measure fast electronic and vibrational motions in environments such as liquids, proteins and semiconductors. His technique is widely used today. Being able to measure and understand these fast electronic movements enabled important research in photochemistry as well as in some proposed next generation photovoltaics.

Other areas of Jonas' research include electronic dynamics at “conical intersections” and other approaches to higher efficiency in solar energy conversion. Advancing photovoltaic technology is the focus of his research as a fellow of the Renewable and Sustainable Energy Institute.

Among Jonas’ numerous professional awards are the 2015 BOMEM Michelson Award of the Coblentz Society and selection as a fellow of the American Physical Society in 2007. Jonas has been at CU-Boulder since 1995.

Lise Menn
Professor Emerita, Linguistics

Professor Menn is the author of more than 60 articles and book chapters as well as the author or editor of seven books. Her most recent book, Psycholinguistics: Introduction and Applications, outlines the current state of research on how the human brain processes language in thinking, reading and understanding. Menn focused her research on phonological disorders using a data driven approach to investigate speech issues. Her research comparing aphasia—the loss of ability to understand or express speech—across multiple languages resulted in a deeper understanding of speech disorders in children.

Menn’s research also sought to deepen our understanding of the science behind language acquisition and formation in young children. Before her retirement, Menn supervised dissertations in phonetics, general linguistics, language development, psycholinguistics and neurolinguistics. Menn has served as associate editor for the journals Aphasiology and Language. She was elected fellow of the Linguistic Society of America and is a fellow of the Institute of Cognitive Science.
ADDITIONAL ACADEMIC ACHIEVEMENTS

James White
Professor, Geological Sciences

As a geological researcher specializing in Earth’s carbon and methane cycles, Professor White has shown through his work the physical reality of climate change. A member of several ice coring projects in Greenland and Antarctica, White analyzed ice cores from these sites, which revealed that climate shifts can occur abruptly. This discovery is an important development as the world strives to understand and respond to climate change. As the director of the Institute of Arctic and Alpine Research, White actively explores new opportunities for interdisciplinary learning, encouraging students to leverage experiences in social sciences and the arts to strengthen their environmental research.

He is also the founding director of the Environmental Studies Program at CU. White gave the Nye Lecture at the American Geophysical Union fall meeting in 2014. His lecture, “Abrupt Change—Past, Present and Future: The Hard Reality and Silver Lining in a Sustainable Future,” laid out how climate changed abruptly in the past and what we can do to change our future for the better.

Mark Winey
Professor, Molecular, Cellular and Developmental Biology

Professor Winey’s research focuses on the composition and function of cellular structures involved in cell duplication. Understanding the function of these structures and how defects in cell duplication occur has important implications for an array of human health issues ranging from genetic defects to cancer. More specifically, the laboratory led by Winey investigates cellular behavior and mechanisms by testing microtubule organizing centers in various organisms, including yeast. Winey’s commitment to research is complemented by his concern for students.

He recently co-authored an open source electronic textbook about genetics in the interest of combatting the high cost of textbooks for students.

In 2007, Winey received a John Simon Guggenheim Foundation Fellowship to study genetic disorders arising from inherited traits. He was designated Pew Scholar in Biomedical Sciences from the Pew Charitable Trusts in 1993. At the university, he has served as faculty associate to the vice chancellor for research. He currently serves as chair of the Department of Molecular, Cellular and Developmental Biology.
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.

Active Academy Members

Margaret Eisenhart, School of Education (2004)
Gene Glass, School of Education (2000)
Kris Gutiérrez, School of Education (2010)
Lorrie Shepard, School of Education (1992)

Retired Academy Members

Walter Kintsch, Psychology; Institute of Cognitive Science (1992)
Robert Linn, School of Education (1990)
Carl Wieman, Physics; JILA (2009)
ADDITIONAL ACADEMIC ACHIEVEMENTS

National Academy of Engineering

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

Active Academy Members

- **Bernard Amadei**, Civil, Environmental and Architectural Engineering (2008)
- **Kristi S. Anseth**, Chemical and Biological Engineering (2009)
- **Frank Barnes**, Electrical, Computer and Energy Engineering (2001)
- Lewis Branscomb, Physics; JILA
- **Michael King**, Laboratory for Atmospheric and Space Physics (2003)
- **Diane McKnight**, Civil, Environmental and Architectural Engineering (2012)
- **Valerian Tatarki**, Cooperative Institute for Research in Environmental Sciences (1994)

Retired Academy Members

- **Fred Glover**, Leeds School of Business (2002)
- **Martin Mikulas**, Aerospace Engineering Sciences (1999)

Deceased Academy Members

- **Steve Clifford**, Cooperative Institute for Research in Environmental Sciences (1997)
- **Max Peters**, Chemical and Biological Engineering (1969)
- **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)
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)


Retired Academy Members

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)

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.

CU-Boulder Guggenheim Fellows Since 1998

- Fred Anderson, History (2001)
- Thomas Andrews, History (2011)
- Roger Bilham, Geological Sciences (1999)
- Albert Chong, Art and Art History (1998)
- G. Barney Ellison, Chemistry and Biochemistry (1999)
- Steven Epstein, History (1998)
- Bruce Holsinger, English (2004)
- Paul W. Kroll, Asian Languages and Civilizations (2007)
- Noel Lenski, Classics (2009)
- Stacey Steers, Lecturer, Film Studies Program (2014)
- Margaret Tolbert, Chemistry and Biochemistry (2005)
- Veronica Vaida, Chemistry and Biochemistry (2004)
- Mark Winey, Molecular, Cellular and Developmental Biology (2007)

MacArthur Fellows

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

CU-Boulder MacArthur Fellows Since 1981

- Charles Archambeau, Physics (1988)
- David Hawkins, Philosophy (1981)
- Deborah Jin, Physics; JILA (2003)
- Patricia Limerick, History (1995)
- Margaret Murnane, Physics; JILA (2000)
- Norman Pace, Molecular, Cellular and Developmental Biology (2001)
- Ana Maria Rey, Associate Research Professor, Physics; JILA (2014)
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)
Gilbert White, Geography (2000)

Packard Fellows

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

CU-Boulder Packard Fellows Since 1989

Anton Andreev, Physics (1999)
Kristi S. Anseth, Chemical and Biological Engineering (1997)
Elizabeth Bradley, Computer Science (1995)
Barbara Demmig-Adams, Ecology and Evolutionary Biology (1992)
Michael Hermele, Physics (2010)
Pieter Johnson, Ecology and Evolutionary Biology (2008)

David Jonas, Chemistry and Biochemistry (1996)
Karla Kirkegaard, Molecular, Cellular and Developmental Biology (1989)
Milos Popovic, Electrical, Computer and Energy Engineering (2013)
John Price, Physics (1990)
Leo Radzihovsky, Physics (1998)
Cindy Regal, Physics; JILA (2011)
Alexis Templeton, Geological Sciences (2006)
Shijie Zhong, Physics (2001)
American Geophysical Union

The American Geophysical Union (AGU) is an international scientific society dedicated to the furtherance of the Earth and space sciences, and to communicating science’s ability to benefit humanity.

Jose-Luis Jimenez
Professor, Chemistry and Biochemistry; Cooperative Institute for Research in Environmental Sciences

Atmospheric aerosols—tiny particles suspended in the air—can have significant effects on our environment, including reduced visibility and deposition of acids, toxic chemicals and nutrients to ecosystems and crops. These effects can have severe short- and long-term negative impacts on the environment and human health. The magnitude of these effects, however, has been hard to understand, owing to the difficulty of measuring them. To address this problem, a research team led by Professor Jimenez develops and deploys advanced instrumentation for real-time measurement of the size, chemical composition and morphology of aerosols in the atmosphere.

Through large-scale, global field studies and in-house programming, Jimenez and his team have been able to obtain real-time quantitative data that enable much faster progress toward understanding atmospheric processes. Jimenez has been the fifth most cited scientist worldwide in geosciences over the last 10 years and was among the 2014 Highly Cited Researchers (Thomson Reuters) in both geosciences and engineering. In 2012 he received an AGU Ascent Award “as an exceptional mid-career scientist demonstrating excellence in research and leadership in his field.” Jimenez joined the faculty at CU-Boulder in 2002.

W.K. (Bill) Peterson
Research Associate, Laboratory for Atmospheric and Space Physics

In recognition of his accomplishments and exceptional scientific contributions, LASP research associate Peterson has been elected as a fellow of the AGU. He is being recognized for his outstanding work in Earth and space sciences. He served as a principal investigator on the NASA Polar/TIMAS instrument and the Combined Release and Radiation Effects Satellite (CRRES) and has been a co-investigator on several mass spectrometer investigations, including the NASA Dynamics Explorer, AMPTE and FAST satellite programs. He was a co-investigator for the STATIC instrument on the NASA Mars Atmosphere and Volatile Evolution (MAVEN) mission and a science team member on the Canadian Space Agency’s Enhanced Polar Outflow Probe (e-POP) payload.

His professional interests are in obtaining and using observations from ground and space-based instruments to characterize the planetary plasma environments and comparing these observations to models and theories. Peterson’s professional service includes serving as editor of the Geophysical Research Letter, secretary of the Electronic Geophysical Year, and discipline scientist for magnetospheric physics at NASA Headquarters in Washington, DC.
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.

Steven Mojzsis
Professor, Geology and Geochemistry

The work of Professor Mojzsis aims to answer big questions about the origins of life on our planet. Using clues found in the oldest known marine sedimentary rocks, Mojzsis has shown that the Earth’s continents were in existence soon after the planet itself was formed. Prior to this breakthrough, it was commonly believed that Earth was moon-like or covered entirely by oceans in its initial stages. In fact, Mojzsis’ findings support the hypothesis that life could have appeared on Earth as long as 3.8 to 4.5 billion years ago.

As a visiting Fulbright scholar in Nancy, France, Mojzsis gathered further insights into the origins of life on Earth by researching preterrestrial zircons—among the oldest existing minerals. Mojzsis and his colleagues have also received funding from NASA’s Exobiology and Evolutionary Biology Department, which supports research into the origin and evolution of life on Earth. Recently, Mojzsis received an ASSETT award for innovative and effective use of technology in the classroom.

Adam Levy
Research Associate, Institute of Behavioral Science

Slightly larger than the state of Maryland, the country of Moldova, situated between Ukraine and Romania, is a nation of migrant workers, with nearly one third of its working age citizens crossing its borders daily to work in other countries. With such active borders, Moldova is an excellent location to study migration and border control issues, issues that are the focus of Dr. Levy’s Fulbright research project, “Political Geography, Boundary Making, and Geopolitical Practices in Eastern Europe: Peripheral Politics, Learning Laboratories and Moldovan Migration Management.”

In addition to his research, Levy taught graduate level courses to students at Moldova State University during his fellowship year. One of his courses took students into the field to visit border checkpoints and migrant processing and detention centers. These sites are extremely important because they represent the contact point—and, sometimes, the conflict point—between great powers.
Richard Regueiro
Associate Professor, Civil, Environmental and Architectural Engineering

As a Fulbright scholar in Oxford, England, Professor Regueiro continued previous research he had undertaken with Dr. Harvey Bud of Oxford’s Department of Engineering Science. In his work, Regueiro develops mathematical simulations of the deformation and failure of various thin porous materials, ranging from sandstone, soil and concrete to soft biological tissues, including particularly the human eye’s ocular lens capsule. The results of his research clearly have wide application, including understanding structural failures and treating people with cataracts and other eye diseases.

While in England, Regueiro came to value the interdisciplinary collaboration across Oxford’s 38 colleges, an experience that has encouraged him to meet more faculty and students from a wider range of disciplines at CU-Boulder. Regueiro received his doctorate in civil and environmental engineering from Stanford University. Before joining the CU-Boulder faculty in 2005, he worked as a member of the technical staff in Sandia National Labs in California.

CU-Boulder Fulbright Fellows Since 2006

Len Ackland, Journalism and Mass Communication (2009)
Herbert Covert, Anthropology; University Museum (2009)
Elizabeth Dunn, Geography; International Affairs (2009)
Clarence Ellis, Computer Science (2014)
Paul Erhard, Music (2014)
Claire Farago, Art and Art History (2012)
Jennifer Fitzgerald, Political Science (2008)
Nan Goodman, English (2014)
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)
Michele Moses, School of Education (2014)
Astrid Ogilvie, Institute of Arctic and Alpine Research (2010)
Mark Williams, Geography; Institute of Arctic and Alpine Research (2014)
Crafoord Prize

The Crafoord Prize is awarded by the Royal Swedish Academy of Sciences. The prize is awarded annually to honor achievements in fields not covered by its better known Nobel Prizes. The Crafoord Prize covers the disciplines of astronomy, mathematics, geosciences and biosciences as a complement to the Nobel Prize disciplines. Only one Crafoord Prize is awarded annually by the academy on a rotating basis by discipline.

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

Professor Molnar was awarded the Crafoord Prize in Geosciences for his groundbreaking research in geophysics and geological sciences. A fellow of the Cooperative Institute for Research in Environmental Sciences, Molnar was honored for his contributions to the understanding of global plate tectonics, including the deformation of continents and the structure and evolution of mountain ranges. He was also cited for his research on the impact of tectonic processes on ocean atmosphere circulation and climate. He is currently studying how geological changes in Tibet have affected the Asian climate.

Considered an expert on the driving forces behind Earth’s plate motions, Molnar has combined geological and geophysical methods with satellite measurements and modeling techniques to provide a new understanding of the formation of mountain ranges and their role in global tectonics. Much of his research has involved the continental collision between India and Eurasia in the south Asian region. In addition, Molnar has used an interdisciplinary approach in studying the processes of Earth’s crust and mantle, including their influence on climate. Molnar has been at CU-Boulder since 2001.

PEN Open Book Award

The PEN Literary Awards have honored and introduced some of the most outstanding voices in literature for more than 50 years.

Ruth Ellen Kocher
Professor, English, Director of Creative Writing Program

Professor Kocher was co-winner of the PEN Open Book Award for her book of poems titled domina Un/blued. The award recognizes an exceptional book length work of literature by an author of color. Publisher Tupelo Press describes domina Un/blued as a work that “dislocates the traditional slave narrative, placing the slave’s utterance within the map and chronicle of conquest.... Kocher’s award-winning new book reaches beyond the story of historical involuntary servitude to explore enslavements of devotion and desire, which in extremity slide into addiction and carnal bondage.”
ADDITIONAL ACADEMIC ACHIEVEMENTS

Kocher is also the author of a number of other books, including When the Moon Knows You’re Wandering, winner of the Green Rose Prize in poetry; and Desdemona’s Fire, winner of the Naomi Long Madget Award for African American poets. Her poems have been translated into Persian in the Iranian literary magazine She’r and have appeared or are forthcoming in various anthologies. Kocher has also received CU Boulder’s Kayden Book Award for domina Un/blued.

Chevalier dans l’Ordre des Palmes Academiques

The Order of the Academic Palms was founded in 1808 by Napoleon Bonaparte as a decoration to recognize important educators at the University of Paris. The scope of the honor has since been expanded to include anyone who has contributed significantly to the “prestige of French culture” or who has “rendered eminent service to French education.”

Warren Motte Jr.
Professor, French and Comparative Literature

Professor Motte has been named Chevalier dans l’Ordre des Palmes Academiques (Knight in the Order of the Academic Palms) by the government of France. This honorific distinction was given to him for his extensive efforts to promote French language and culture in the United States. Motte specializes in contemporary French literature and has helped get some French authors translated into English. He joined the CU-Boulder faculty in 1987.

Motte has authored a number of books, including The Poetics of Experiment: A Study of the Work of Georges Perec, Questioning Edmond Jabès, Playtexts: Ludics in Contemporary Literature, Small Worlds: Minimalism in Contemporary French Literature; Fables of the Novel: French Fiction Since 1990; Fiction Now: The French Novel in the Twenty-First Century; and Mirror Gazing. His awards and recognitions include University of Nebraska Distinguished Service Recognition, University of Colorado Student Union Recognition of Outstanding Contributions and Achievement in Teaching, and the University of Colorado Boulder Faculty Assembly Award for Excellence in Research, Scholarly and Creative Work.
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