

A Celebration of Faculty Achievement

Fall 2016



University of Colorado
Boulder







ONE OF THE GREATEST PROFESSIONAL ACHIEVEMENTS any of us can receive is when our colleagues recognize our teaching and scholarly work as being of the highest quality. Across the various colleges, departments, fields, theoretical frameworks and generations, we seek the approval of our peers within the academy. The faculty colleagues named in this publication not only have expanded our collective understanding of how the world operates, but have done so in ways that will continue to be impactful for years or decades.

As faculty, two of our primary duties are the creation and dissemination of new knowledge.

To do this properly, we must be afforded the opportunity to ask questions and seek answers. Often, these questions may challenge the status quo, require us to rethink the way we've always operated or even push society into uncomfortable situations. That said, it is my firm belief that not asking those questions and allowing potential solutions to remain unknown is more dangerous than pursuing difficult areas of inquiry.

If we were to list, the academic achievements of all of our faculty members at CU Boulder, it would fill volumes while still omitting the daily work we all do to improve the lives of individual students and our community. Only a small portion of our faculty are named in this specific publication, but we all should be proud of the work described. Because while we all may not have spent hours looking through microscopes, writing and rewriting chapters, creating and perfecting new performances or artistic expressions, coding and analyzing data or developing novel scientific techniques, we all can celebrate the work of our peers.

National and International CU Faculty Recognition

- 5 Nobel laureates
- 4 National Medal of Science winners
- 9 MacArthur fellows
- 23 members of the National Academy of Engineering
- 29 members of the American Academy of Arts and Sciences
- 34 members of the National Academy of Sciences

I want to congratulate everyone named in this publication. Whether you earned tenure or promotion to the rank of full professor, received fellowships or academic prizes, have been designated as CU Boulder Distinguished Faculty or have been recognized as a member of national academic societies, you are vital contributors to the university, the state of Colorado and the nation. Thank you and congratulations.

Russell Moore
Provost and Executive Vice Chancellor for Academic Affairs

FACULTY TENURE AND PROMOTION

Tenure Recipients

(Effective August 2016)

Francisca Antman, Economics
Ryan Bachtell, Psychology and Neuroscience
Robin Bernstein, Anthropology
Jennifer Bird-Arvidsson, College of Music
David Boromisza-Habashi, Communication
Joseph Bryan, Geography
Brian Cadena, Economics
Celine Dauverd, History
Justin Desautels-Stein, School of Law
Alireza Doostan, Aerospace Engineering Sciences
Gordana Dukovic, Chemistry and Biochemistry
Michael Dulock, University Libraries
Samuel Flaxman, Ecology and Evolutionary Biology
Mara Goldman, Geography
Gerardo Gutiérrez, Anthropology
Emily Harrington, English
Jill Harrison, Sociology
Juan Herrero-Senés, Spanish and Portuguese
Mark Hoefer, Applied Mathematics
Leigh Holman-Johnson, College of Music
Amy Javernick-Will, Civil, Environmental and Architectural Engineering
Miriam Kingsberg, History
Matthew Koschmann, Communication
Kelty Logan, Advertising, Public Relations and Media Design
Julie Lundquist, Atmospheric and Oceanic Sciences
Kevin Mahan, Geological Sciences
Jason Marden, Electrical, Computer and Energy Engineering
Brett Melbourne, Ecology and Evolutionary Biology
Tamara Meneghini-Stalker, Theatre and Dance
Jeffrey Nytch, College of Music
Cindy Regal, Physics
Laurialan Reitzammer, Classics
Mark Rentschler, Mechanical Engineering
Juan Restrepo, Applied Mathematics
Jennifer Shannon, Anthropology
Megan Shannon, Political Science
Núria Silleras-Fernández, Spanish and Portuguese
Seema Sohi, Ethnic Studies
Seth Spielman, Geography
Zoltan Sternovsky, Aerospace Engineering Sciences
Dmitri Uzdensky, Physics
Edward Van Wesep, Leeds School of Business
Xiang Wang, Chemistry and Biochemistry
Bianca Williams, Ethnic Studies
Lawrence Williams, Leeds School of Business

Promotions to Full Professor

(Effective August 2016)

Kenneth Anderson, Computer Science
Suzanne Anderson, Geography
Thomas Andrews, History
Peter Blanken, Geography
William Boyd, School of Law
Scott Bruce, History
Michelle Ellsworth, Theatre and Dance
Yonca Ertimur, Leeds School of Business
Suranjan Ganguly, Film Studies
Diego Garcia, Leeds School of Business
David Gatten, Film Studies
Donna Goldstein, Anthropology
Patrick Greaney, Germanic and Slavic Languages and Literatures
Weiqing Han, Atmospheric and Oceanic Sciences
David Hasen, School of Law
Rebecca Maloy, College of Music
James Medlin, Chemical and Biological Engineering
Shivakant Mishra, Computer Science
Mutsumi Moteki, College of Music
Dimitri Nakassis, Classics
Roseanna Neupauer, Civil, Environmental and Architectural Engineering
Peter Simonson, Communication
Jeremy Smith, College of Music
Marcelo Sousa, Chemistry and Biology
Michael Stallings, Psychology and Neuroscience
Conrad Stoldt, Mechanical Engineering
Tammy Sumner, Computer Science
Paul Sutter, History
Ronggui Yang, Mechanical Engineering

CU BOULDER DISTINGUISHED PROFESSORS

The University of Colorado extends the title of “distinguished professor” to recognize the outstanding contributions of CU faculty members to their academic disciplines. Candidates nominated for a distinguished professorship must demonstrate accomplishments in accordance with university-wide criteria.

Robert S. Anderson

Professor, Geological Sciences; Institute of Arctic and Alpine Research



Professor Anderson specializes in geomorphology—the mechanics and chemistry of processes operating at the Earth’s surface, and the landscapes that result from those processes. Although he is interested in the entire spectrum of processes on Earth’s surface, his most recent work focuses on the roles of rivers and glaciers in modifying large-scale landscapes. In most cases his research projects involve both field work (mapping and instrumentation) and computer modeling.

Anderson was awarded the Hazel Barnes Prize at CU Boulder in 2014 and was elected an American Geophysical Union fellow in 2006. He has published 125 peer-reviewed journal articles and written three books, including *The Little Book of Geomorphology: Exercising the Principle of Conservation*, which he has made available at no cost for student and teacher use. In addition to teaching several courses yearly, he is a fellow of the Institute of Arctic and Alpine Research, where he has led research on glaciation, bedrock incision, geochronology, sand transport and numerous other geomorphic subjects.

George Born (deceased)

Professor, Aerospace Engineering Science



After earning his PhD in aerospace engineering in 1968, George Born worked on the Apollo Program at the Manned Spacecraft Center in Houston, and then at the Jet Propulsion Laboratory in Pasadena, California, where he was assigned to the Mariner 9 Project, the Viking missions to Mars, the Seasat Project and various interplanetary missions. He was instrumental in the design and implementation of the TOPEX/Poseidon oceanographic mission, a joint project between NASA and the French space agency. During that time, he won seven NASA awards for his technical and managerial contributions.

In 1983 he joined the University of Texas at Austin as a senior research scientist at the Center for Space Research. In 1985 he began teaching aerospace engineering sciences at CU Boulder. He then founded the Colorado Center for Astrodynamics Research (CCAR) at the university, which quickly became internationally known for its contributions to spacecraft guidance, control and navigation. Professor Born taught graduate courses on statistical orbit determination, orbital mechanics and interplanetary mission design. During his career he served as PhD advisor to 39 students and published well over 100 peer-reviewed papers, as well as a textbook on statistical orbit determination. He died in Boulder on January 21 of this year, at the age of 76.

CU BOULDER DISTINGUISHED PROFESSORS

Active Distinguished Professors

Kristi S. Anseth, Chemical and Biological Engineering

Daniel N. Baker, Astrophysical and Planetary Sciences

Christopher Bowman, Chemical and Biological Engineering

Marvin H. Caruthers, Chemistry and Biochemistry

Thomas R. Cech, Chemistry and Biochemistry

James T. Hynes, Chemistry and Biochemistry

Leslie Anne Leinwand, Molecular, Cellular and Developmental Biology

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

Daniel J. Scheeres, Aerospace Engineering Sciences

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

Frank Barnes, Electrical, Computer and Energy Engineering

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

Andrzej Ehrenfeucht, Computer Science

Margaret A. Eisenhart, School of Education

Delbert S. Elliott, Sociology; Institute of Behavioral Science

Barbara Alpern Engel, History

Fred W. Glover, Leeds School of Business

Kris Gutiérrez, School of Education

Richard Jessor, Psychology and Neuroscience; Institute of Behavioral Science

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

George Born, Aerospace Engineering Sciences

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

Robert L. Linn, School of Education

Keith R. Porter, Molecular, Cellular and Developmental Biology

David M. Prescott, Molecular, Cellular and Developmental Biology

Gilbert White, Geography



PRESIDENT'S TEACHING SCHOLARS AT CUBOULDER

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 for their achievements in improving education and enlarging its possibilities across the university. They serve as ambassadors for teaching and for research focused on improving teaching and learning.

Andrew Martin

Professor, Ecology and Evolutionary Biology



Andrew Martin is an innovative, highly effective educator who helps faculty in his department and beyond to transform teaching by encouraging experimentation to better engage students. He has sponsored and led several workshops on various teaching techniques, emphasizing the need to collect and analyze data about such changes. Martin mentors graduate, undergraduate and high school students in his laboratory. He also brings his expertise into the community, leading outreach activities with teachers from the Boulder Valley School District and others.

An outstanding evolutionary biologist with a rich publication record and strong track record in acquiring grant funding, Martin designs and undertakes research in the field of evolutionary genetics, working to assemble evolutionary trees that are used to test ecological hypotheses. These methods in turn help address conservation concerns about endangered species, such as the desert pupfish and greenback cutthroat trout, by providing valuable insight into the composition of microbial communities.

PRESIDENT'S TEACHING SCHOLARS AT COUBOLDER

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
- Elsbeth Dusinberre**, Classics
- Michael Eisenberg**, Computer Science
- John L. Falconer**, Chemical and Biological Engineering
- Noah Finkelstein**, Physics
- David Klaus**, Aerospace Engineering Sciences
- Clayton Lewis**, Computer Science
- Roseanna Neupauer**, Civil, Environmental and Architectural Engineering
- Helen Norton**, School of Law
- Valerie Otero**, School of Education
- 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
 - Michael Grant**, Ecology and Evolutionary Biology
 - 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

CU BOULDER FACULTY AWARDS

2016 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

David A. Brain, Astrophysical and Planetary Sciences

Nikolaus Correll, Computer Science

Juliet Gopinath, Electrical, Computer and Energy Engineering

Adam Omar Hosein, Philosophy

Joel L. Kaar, Chemical and Biological Engineering

Tenured

Stephanie J. Bryant, Chemical and Biological Engineering

Ben Kirshner, School of Education

Christopher A. Lowry, Integrative Physiology

Fernando Rosario-Ortiz, Civil, Environmental and Architectural Engineering

Kathleen M. Ryan, Journalism

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.

Warren Motte

Professor, French and Italian



CU Boulder's newest professor of distinction has an unusual claim: he is CU Boulder's sole chevalier, or knight, in the French Order of the Academic Palms. The award, first created by Napoleon Bonaparte in 1808, recognizes the efforts made by both French citizens and foreigners who are dedicated to the promotion of French culture.

Motte, who specializes in contemporary French literature with an emphasis on experimental, avant-garde and other subversive forms of fiction and poetry, joined the CU Boulder faculty in 1987. He is author of seven books, most recently *Mirror Gazing* (Dalkey Archive Press, 2014), a study of over 12,000 mirror scenes in literature. Additionally, he has edited eight volumes of literary criticism, including the first published study of the renowned French writer Georges Perec, the authoritative book on the form of experimental writing known as Oulipo and innovative studies of other writers.

CU BOULDER FACULTY AWARDS

Robert L. 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.

Kathy Escamilla

Professor, School of Education

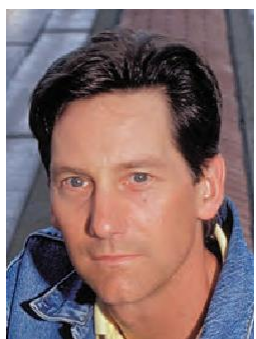


Professor Escamilla's research centers on educational issues related to Spanish-speaking students in U.S. schools. She is specifically interested in issues related to the development of bilingualism and biliteracy in early elementary grades. Her recent research has examined assessment practices and the impact of high stakes testing on these students. As project director of the BUENO Center (Bilinguals United for Education and New Opportunities) in the School of Education, she works to facilitate equal educational opportunities for culturally and linguistically diverse students as well as students with special needs.

Escamilla is a member of numerous professional organizations in education and has served two terms as the president of the National Association for Bilingual Education. She has recently been appointed co-editor of the *Bilingual Research Journal* and has served as the chairperson of the Bilingual Special Interest Group for the American Education Research Association. She is on the Colorado Department of Education steering committee for educational issues relating to Limited-English-proficient students.

James W. C. White

Professor, Geological Sciences; Director, Institute for Arctic and Alpine Research



Climatologist Jim White is a trailblazing research scientist who couples deep expertise with broad interests in climate and the environment. He has been a member of deep ice coring projects in Greenland and Antarctica and is an affiliate of NOAA, working closely with the Carbon Cycle Group there. His scholarship has deepened our understanding of the global carbon cycle, reconstructed ancient environments and illuminated the degree to which plants can absorb atmospheric carbon dioxide. A committed citizen of CU Boulder, he launched the Environmental Studies Program, has guided faculty searches inside the sciences and out and has earned a reputation for sound judgment and cool-headedness. He also led development of the campus's new Sustainability,

Energy and Environment Complex.

Despite White's exalted stature among researchers, he routinely teaches undergraduate courses, including "Introduction to Environmental Studies," and speaks at middle and high schools, public libraries and retirement homes.

Distinguished Research Lectureship

The Distinguished Research Lectureship is among the highest honors bestowed by the faculty upon faculty members at CU Boulder. It honors tenured faculty members 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.

David Korevaar

Professor, College of Music

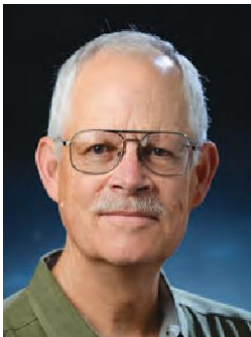


Beginning his piano studies at age six, David Korevaar by age 20 had earned his bachelor's and master's degrees from the prestigious Juilliard School. After completing his doctor of musical arts at Juilliard, he taught for many years at the Westport School of Music in Connecticut before joining CU Boulder in 2000. Currently a member of the Boulder Piano Quartet (Boulder Public Library's ensemble in residence), Korevaar has performed as a guest artist with the Takács, Manhattan and Colorado quartets. He was a founding member of the Young Concert Artists award-winning piano and wind ensemble Hexagon, with whom he toured for many years.

In addition to teaching at CU Boulder, where he is the Peter and Helen Weil Professor of Piano, Korevaar teaches and performs at the Music in the Mountains summer festival in Durango, Colorado, and at the Music Center Japan. His growing discography includes a recent release of two of Schubert's piano sonatas and a soon-to-be-released recording of favorite Chopin works.

Thomas T. Veblen

Professor, Geography



A faculty member at CU Boulder since 1981, Tom Veblen directs the Biogeography Lab of the Geography Department and teaches both lower- and upper-division lecture courses and seminars. He researches forest ecology and vegetation dynamics, using tree rings to date past disturbance events such as fire and insect outbreaks. He has spent his career looking at how fire, blow down, bark beetle outbreaks and other events interact in the forested landscapes of the Colorado Rocky Mountains. The southern Andes of Chile and Argentina have also benefited from his research, largely supported by the National Science Foundation.

Veblen is recipient of more than 20 honors, awards and fellowships in observance of his forestry expertise. He has presented keynote addresses at numerous forestry and climate-change conferences and symposiums. In 2011 he organized and produced the CU Natural History Museum outreach exhibit "Burning Issues: The Four Mile Canyon Fire."

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, this 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 the award-winning book.

Deepti Misri

Associate Professor, Women and Gender Studies



In *Beyond Partition: Gender, Violence, and Representation in Postcolonial India* (University of Illinois Press, 2014), Professor Misri shows how the 1947 partition—which resulted in the creation of Pakistan—started an era of politicized animosity associated with the differing ideas of “India” held, on one hand, by communities in particular regions, and, on the other hand, by the political-military Indian state. She goes on to examine myriad forms of gendered violence in the postcolonial life of India, including custodial rape, public stripping, deturbanning and enforced disappearances. Her investigation into gendered violence adds greatly to the post-colonial scholarship and provides readers with a nuanced under-

standing of postcolonial India.

Misri is interested in transnational feminist studies, feminist theory and criticism, South Asian fiction and cinema and postcolonial studies. She has taught courses on feminist theory, women in Islam and gender and violence.

Kayden Book Award—Honorable Mention

Antje Richter

Associate Professor, Asian Languages and Civilizations

Letters and Epistolary Culture in Early Medieval China (University of Washington Press, 2013)

Núria Silleras-Fernández

Associate Professor, Spanish and Portuguese

Chariots of Ladies: Francesc Eiximenis and the Court Culture of Medieval and Early Modern Iberia (Cornell University Press, 2015)

Timmerhaus Teaching Ambassador Award

Klaus Timmerhaus believed the University of Colorado's teaching prowess should be recognized throughout Colorado and that students always come first. He left a majority portion of his estate gift to support a Timmerhaus Teaching Ambassador Award under the auspices of the university's President's Teaching Scholars Program. The award honors strong teaching and is meant to showcase the high caliber of faculty on CU's four campuses. Because Dr. Timmerhaus felt the outstanding quality of the faculty was not well-enough known in Colorado, honorees make presentations throughout the state.

Noah Finkelstein

Professor, Physics



Professor Finkelstein serves as a director of the Physics Education Research (PER) group at Colorado, one of the largest research groups in physics education in the country. He has also directed CU's Center for STEM Learning, which has become one of eight national demonstration sites for the Association of American Universities' STEM Education Initiative. His research focuses on studying the conditions that support students' interest and ability in physics. These research projects range from investigating how students learn particular concepts to understanding how to make educational transformation at the departmental and institutional scales sustainable. This research has resulted in over 100 publications and nearly 400 public presentations.

Finkelstein has been a key figure in building the physics education research community in the United States. Recently he has also been establishing a national network among university-based centers of STEM education, in partnership with the Association of Public and Land-grant Universities (APLU). He is increasingly involved in policy, and in 2010 he testified before Congress on the state of STEM education at the undergraduate and graduate levels. Finkelstein serves on many national boards in physics education, including the board of trustees for the Higher Learning Commission, which accredits more than 1,000 institutions of higher education in the United States.

CU SYSTEM FACULTY AWARDS

Elizabeth D. Gee Memorial Lectureship Award

This award recognizes and honors an outstanding faculty member for efforts to advance women in academia through interdisciplinary scholarly contributions and distinguished teaching. Instituted in 1992, the award is named for Elizabeth Gee, a faculty member in the CU Anschutz Medical Campus School of Nursing and the late wife of former CU president Gordon Gee. The Gee Award is the only award in the CU system that specifically recognizes outstanding work on women's issues and represents a concerted effort to advance women in the academy.

Terra McKinnish

Professor, Economics; Institute for Behavioral Science



Professor McKinnish teaches courses in labor economics, public economics and economic demography. She has a strong interest in poverty and gender-related issues. Recent research topics include welfare migration, female labor force participation and divorce, location decisions of dual-career couples and the causes and consequences of neighborhood gentrification. She is also a faculty associate of the CU Population Center in the Institute for Behavioral Science. Her work has been funded by both the National Science Foundation and the National Institute of Child Health and Human Development. In 2010 she was appointed to the board of the Committee on the Status of Women in the Economics Profession (CSWEP), and she currently serves as the associate chair and director of mentoring.

She joined the Institute for the Study of Labor (IZA), an independent economic research institute based in Bonn, Germany, as a research fellow in March 2016.

McKinnish earned a joint PhD from the Heinz School of Public Policy and the Department of Statistics at Carnegie Mellon University. She is author or co-author of peer-reviewed articles and papers on a variety of topics, most recently "Same-Occupation Spouses: Preferences and Search Costs" and "Seasonality in Birth Defects, Agricultural Production and Urban Location."

BOULDER FACULTY ASSEMBLY AWARDS

Excellence in Teaching and Pedagogy

Suzanne Magnanini

Associate Professor, French and Italian



Current department chair Suzanne Magnanini has been an inspiration to her colleagues, developing a classroom centered on experiential, collaborative, task-oriented exchange—in a word, conversation. Drawing inspiration from the sixteenth-century Italian writer Stefano Guazzo, she notes that conversation is a way of shaping and validating knowledge. She has inspired such conversations in classes small and large, and those exchanges are not only joyful and infectious but, more important, profoundly generative. Professor Magnanini has also had a profound influence in reshaping much of her department’s curriculum.

Her efforts extend far across campus, to curricular initiatives that even include the College of Engineering and Applied Science and the Leeds School of Business. Her students regale her with praise: “She is the total package.” “She teaches because he loves what she teaches, and she wants to pass that love on to her students.” “Far and away my favorite professor in all my years here at CU. She inspired me to take an active role in my learning. I wish Suzanne were my professor for everything.”

Brian Cadena

Associate Professor, Economics



Eschewing the traditional economics course, with its focus on statistical theory and mathematical modeling, Professor Cadena emphasizes the practical applications of methods and data typical of social science research. He has reshaped a core aspect of the undergraduate curriculum, notably improved the honors theses sponsored by the department and transformed the graduate curriculum.

Cadena has assembled his own course packets—more accurately, an entire pedagogical universe—with readings, modeling tips, instructions and a wealth of real-world data sets. He has shared these widely with CU faculty as well as faculty at key institutions

in the U.S., among them, the University of Chicago. Colleagues from across the country praise his creative pedagogy, his disciplinary insight and his unfailing generosity. But it is the students with whom he has worked who provide the most moving testimony. One student writes: “What I loved about his class is that he presented many real-world models using multiple data sets with large sets of variables. He included the class in solving problems, and he always used the skill of questioning very effectively. He truly allowed students to ‘see inside his mind.’”

BOULDER FACULTY ASSEMBLY AWARDS

Charles Rogers

Professor, Physics



A beloved teacher in the Physics Department for some 24 years, Chuck Rogers excels in a department known for its teaching excellence. Paul Beale, the department chair, writes that Rogers has “distinguished himself as an outstanding classroom teacher, curricular innovator and effective research mentor. He has gone far out of his way to introduce innovations into his classes, and many students over the years have told me he was their favorite CU professor.”

Rogers was one of the early leaders in a curricular and pedagogical transformation that has reshaped physics education. He is a leader in employing Concept Tests in a peer-learning environment and has pioneered the use of Socratic methods tailored to large classroom environments. He was an early advocate of clicker technology to make peer interaction more immediately available in the classroom. He has had, writes Beale, “a profound effect on teaching pedagogy in our department.” Rogers breathed new life into the engineering physics program, transforming it into what is today a robust and popular option. He has likewise modernized many of the department’s laboratory courses. He uses humor to draw students into the discussion and recognizes the importance of enthusiasm in reaching his students.

Phoebe S.K. Young

Associate Professor, History



Professor Young’s commitment to students as learners and as individuals, as well as her pedagogical scholarship and use of technology to develop innovative teaching and learning strategies, are among the many reasons she was nominated for this award by her department. Her courses are challenging, innovative and strikingly original. She has implemented numerous collaborative reading and studying strategies, thereby encouraging her students to prepare for class in new ways. She has used new platforms for learning and student publishing that are at the cutting edge of pedagogical research and has won grants to bring them to the CU campus.

Now in her seventh year at CU Boulder, Young has advised seven graduate students as their primary mentor and a staggering fifteen more beyond that. She has done foundational work on developing a certificate program in digital humanities. She has also been heavily involved in K-12 teaching and mentorship, an important part of CU’s outreach. She is, as one colleague puts it, one of the university’s “‘go-to’ faculty member on matters relating to teaching excellence.”

BOULDER FACULTY ASSEMBLY AWARDS

Excellence in Research, Scholarly and Creative Work

Jeffrey Thayer

Professor, Aerospace Engineering Sciences; Director, Colorado Center for Astrodynamics Research



Professor Thayer's broad and important research in the general area of atmospheric and space science has greatly contributed to our understanding of phenomena associated with the coupling between the sun and near-earth space environments, including atmospheric electricity, dynamics, clouds and aerosols. His fundamental contributions have arisen from innovative combinations of theoretical approaches with numerical modeling, experiments and data analysis techniques; moreover, he has developed and applied some novel instruments. His cutting-edge work to advance his field has extended to a community leadership role in the field of solar-terrestrial coupling.

As director of the Colorado Center for Astrodynamics Research, Thayer has overseen its "capacity to go from cradle to grave of an entire space mission." His expertise, combined with that of CCAR's other knowledgeable staff, has resulted in a close involvement with major governmental panels, such as the Intergovernmental Panel on Climate Change and NASA missions.

James Nagle

Professor Physics



Combining experimental and theoretical methods in his research, Professor James (Jamey) Nagle has contributed greatly to our understanding of nuclear matter under extreme conditions, such as those that describe the early universe. He is a lead scientist at the Relativistic Heavy Ion Collider (RHIC) facility at the Brookhaven National Laboratory and has coauthored several groundbreaking papers on quark-gluon plasmas, a state of matter at very high temperatures that existed in the earliest moments of the universe and in the cores of neutron stars. Nagle is also interested in biological physics: he has investigated how mutations in simple organisms interact to balance genetic diversity and evolutionary selection. He is a previous holder of a Sloan Foundation

Fellowship and Department of Energy Outstanding Junior Investigator recipient.

BOULDER FACULTY ASSEMBLY AWARDS

Steven Graham Jones

Professor, English



Professor Jones is a prolific writer, having published some eighteen novels, six collections of stories and two novellas. He has established himself to be one of the most exciting avant-garde novelists on the current U.S. literary scene. Among his most recent works are the young adult *Floating Boy and the Girl Who Couldn't Fly* (Dzanc, with Paul Tremblay), *After the People Lights Have Gone Off* (horror collection, Dark House), and *Once Upon a Time in Texas* (Trapdoor), the second installment of his Bunnyhead Chronicles. He also has had several hundred short stories published, appearing in venues from literary journals to truck-enthusiast magazines, from textbooks to anthologies to best-of-the-year annuals. Jones has been an NEA Fellow and a Texas Writers League Fellow, and he won the Texas Institute of Letters Award for Fiction and the Independent Publishers Multicultural Award. His areas of interest, aside from fiction writing, are horror, science fiction, fantasy, film, comic books, pop culture, technology and American Indian Studies. He is genuinely inspiring and considered by his colleagues to be “a gem in our midst.”



BOULDER FACULTY ASSEMBLY AWARDS

Excellence in Leadership and Service

Katherine Eggert

Professor, English



A contributor to various aspects of campus life for the past 25 years, Professor Eggert has served two terms as chair of the English department and is currently director of the Center for British and Irish Studies. She has been an active participant in the Academic Review and Planning Advisory Committee, where she helped redesign the process for evaluating academic programs.

Over a three-year period, her vision helped shape what is now the College of Media, Communication and Information, and she has served on numerous search committees, advisory boards and steering committees on campus. As a renowned scholar of English Renaissance literature, she has served as a leader in that international community. Eggert has brought the prestigious journal *The Spenser Review* into the electronic age, a project that also compelled her to rewrite what she calls “the truly terrible Wikipedia articles on Spenser and his works.”

Martin Walter

Professor, Mathematics



A member of the CU Boulder faculty for more than 40 years, Professor Martin Walter is not one to avoid answering tough questions or discussing difficult issues when he feels the welfare of his students, the university or even the planet may be at stake. He has served the Boulder Faculty Assembly in many capacities and currently chairs its Faculty Affairs Committee, and he was instrumental in creating the Arts and Sciences Council. Nationally, he has been a pioneer in the integration of environmental studies and math.

He is the author of the textbook *Mathematics for the Environment*, and he helped form the Environmental Math Special Interest Group at the Mathematical Association of America. Professor Walter also serves the Boulder community as a member of the Boulder County Mosquito Control Citizens' Advisory Board.

BOULDER FACULTY ASSEMBLY AWARDS

Ann Schmiesing

Professor, Germanic and Slavic Languages and Literatures



Though she may be best known in the College of Arts and Sciences as co-chair of this year’s revision of the core curriculum, Professor Schmiesing’s service and leadership are multifaceted. As an assistant professor at CU Boulder she lost her hearing, and since that time she has worked tirelessly to improve the campus’ ability to accommodate disabled persons at every level. She has chaired her department, provided substantive service to the University Libraries and the Office of International Education and served as faculty director of the Sewall residential academic program. She is currently Vice Provost and Interim Dean of the Graduate School. The selection committee was impressed with her own take on the transformative nature of service: “We work together to imagine how the experiences of our students, our colleagues and our community as a whole could be made better, and then set out to transform that vision into reality.”

Paul Sutter

Professor, History



In the six years since he joined CU Boulder, Professor Sutter has made significant contributions to the History department, the campus and the Boulder community. As graduate director, he has taken the department’s graduate program to new heights, and he is known across campus as an outstanding mentor to graduate students. Sutter has served on numerous campus committees and was a key strategist in envisioning a potential School of the Environment and Sustainability. In pursuing his research specialty—environmental history—he has been a leader in bringing students and faculty together in conferences on the environmental history of the western United States, often in remote locations for field work. He is active in program planning for the broad-based American Historical Association. Locally, he helps uphold the quality of the Boulder Public Library by chairing its Library Commission.

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.

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. The academy is renowned for providing reasoned commentary on matters of public policy, governance and education.

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)
- 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)
- Norman Pace**, Molecular, Cellular and Developmental Biology (1991)
- 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; University Museum (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 internationally esteemed scholarly organization, the American Philosophical Society promotes the creation of useful knowledge in the sciences and humanities, encouraging excellence in scholarly research by supporting professional meetings and publications, and by providing library resources and opportunities for 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.

Active Members

Thomas R. Cech, Chemistry and Biochemistry

Margaret Murnane, Physics

Deceased Members

Kenneth Boulding, Economics

Gilbert White, Geography

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

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

Karolin Luger, Professor, Chemistry and Biology

Roy Parker, Professor, Chemistry and Biochemistry

Howard Hughes Medical Institute Alumni

Natalie G. Ahn, Professor, Chemistry and Biochemistry

Robert Boswell, (1994–1998), Professor, Molecular,
Cellular and Developmental Biology; Vice Chancellor,
Office of Diversity, Equity and Community Engagement

Society of Howard Hughes Medical Institute Professors

Leslie Leinwand, (2006-present), Distinguished
Professor, Molecular, Cellular and Developmental Biology

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*. Fellows of the association are elected by their peers in recognition of their scientifically or socially distinguished efforts to advance science or its applications.

Michael King

Senior Research Scientist, Laboratory for Atmospheric and Space Physics (LASP)



Prior to joining LASP in 2008, Dr. King served as project scientist for NASA's Earth Radiation Budget Experiment and as senior project scientist for NASA's Earth Observing System at the Goddard Space Flight Center. His research experience includes conceiving, developing and operating multispectral scanning radiometers from a number of aircraft platforms, which he has used in the field to study atmospheric conditions ranging from arctic stratus clouds to smoke from the Kuwait oil fires and biomass burning in Brazil and Africa. As leader of the Moderate Resolution Imaging Spectroradiometer team on the Terra and Aqua satellites, King led the development of formulas for determining five

science algorithms that are routinely run to process MODIS data, including the algorithm for determining, for example, how much sunlight is scattered by clouds back into space. These algorithms have enabled scientists to gain a more precise picture of the complex atmospheric conditions of our planet.

King has authored more than 89 papers published in refereed scientific journals and has edited or authored numerous book chapters and scientific documents. He is a coeditor of *Our Changing Planet: The View from Space* (Cambridge University Press, 2007).

Cora Randall

Professor, Atmospheric and Oceanic Studies; Laboratory for Atmospheric and Space Physics (LASP)



After an initial research career investigating the optical characteristics of proteins, Dr. Randall joined the University of Colorado in 1989 to work on the Hubble Space Telescope. In 1993 she began studying the Earth's atmosphere. Her main area of expertise is satellite remote sensing of the Earth's middle atmosphere, with particular emphasis on the polar regions. She investigates the dynamic interactions between atmospheric layers, focusing particularly on processes related to stratospheric ozone depletion and the formation of anomalous high-altitude polar mesospheric clouds. Her research contributes to a growing body of research into the causes of changes in the Earth's atmosphere. Dr. Randall

teaches courses in chemistry, climate, radiative transfer and remote sensing. She is a current or prior member of numerous international satellite science teams and is principal investigator on the Cloud Imaging and Particle Size (CIPS) experiment for the NASA Aeronomy of Ice in the Mesosphere (AIM) satellite mission.

Randall is the current chair of the Department of Atmospheric and Oceanic Sciences and is also a faculty member in the Laboratory for Atmospheric and Space Physics. She has published more than 100 papers in refereed scientific journals.

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

Retired Academy Members

- Frank Barnes**, Electrical, Computer and Energy Engineering (2001)
- Lewis Branscomb**, Physics; JILA
- Delores Etter**, Electrical, Computer and Energy Engineering (2000)
- Fred Glover**, Leeds School of Business (2002)
- Martin Mikulas**, Aerospace Engineering Sciences (1999)
- Jacques Pankove**, Electrical and Computer Engineering (1986)
- Richard Strauch**, Electrical, Computer and Energy Engineering (1989)
- Valerian Tatarskii**, Cooperative Institute for Research in Environmental Sciences (1994)
- Kaspar William**, Civil, Environmental and Architectural Engineering (2004)

Deceased Academy Members

- George Born**, Aerospace Engineering Sciences (2004)
- Adolph Busemann**, Aerospace Engineering Sciences (1970)
- Steve Clifford**, Cooperative Institute for Research in Environmental Sciences (1997)
- Earl Gossard**, Cooperative Institute for Research in Environmental Sciences (1990)
- Don Hearth**, Aerospace Engineering Sciences (1989)
- 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 Education

The National Academy of Education advances high-quality education research and encourages 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 significant 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

Gene Glass, School of Education (2000)

Lorrie Shepard, School of Education (1992)

Carl Wieman, Physics; JILA (2009)

Retired Academy Members

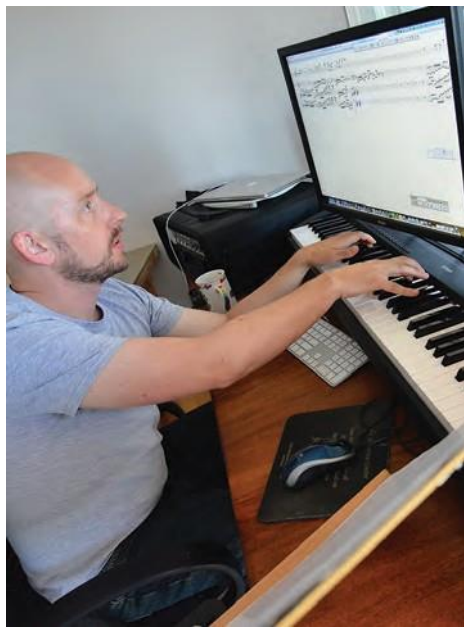
Margaret Eisenhart, School of Education (2004)

Kris Gutiérrez, School of Education (2010)

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

Deceased Academy Members

Robert Linn, School of Education (1990)



ADDITIONAL ACADEMIC ACHIEVEMENTS

American Council of Learned Societies Fellows

The American Council of Learned Societies is the leading private institution supporting scholars in the humanities and related social sciences at the doctoral and postdoctoral levels. In the 2015–2016 competition year, the ACLS awarded over \$18 million in fellowships and grants to individual scholars for excellence in research in the humanities and related social sciences.

Gerardo Gutiérrez

Associate Professor, Anthropology



Professor Gutiérrez’s research explores how political and economic processes shape landscapes, as human social groups establish, maintain and contest territorial boundaries. Particularly interested in prehistoric peoples, he draws upon diverse sources of information, including archaeology, epigraphy, indigenous writing systems, primary historical documents in archives and modern and historical cartography and ethnography; he is also an expert in Geographic Information Systems (GIS). His ACLS fellowship project looks into the creation of indigenous *títulos primordiales*, a type of documentation developed during the seventeenth and eighteenth centuries in colonial Mexico that narrated a community’s origins.

Rebecca Maloy

Professor, Musicology



A specialist in early medieval music with two books in print, in her current work Professor Maloy examines the Old Hispanic chant of the Iberian Peninsula from many perspectives, considering notation, melodic analysis and the relationship between words and music. Her ACLS fellowship project explores how the Old Hispanic chant was integrated with other liturgical elements, how it relates to the traditions of biblical exegesis studied on the peninsula and how it is connected to other western chant traditions. This project will facilitate scholars gaining a more nuanced understanding of the medieval world, one that maps the dynamic interconnections among liturgy, the arts and intellectual life.

ADDITIONAL ACADEMIC ACHIEVEMENTS

Mithi Mukherjee

Associate Professor, History



Professor Mukherjee specializes in the legal, political and cultural history of modern India. Her ACLS fellowship has contributed to her research into the life and work of Radhabinod Pal, arguably the most important Asian jurist of the twentieth century. Pal won worldwide attention with his lone dissenting judgment in the Tokyo Trials of 1946. Mukherjee’s project locates Pal’s counter-discourse of international law within the long history of anticolonialism and Pan-Asianism and highlights the critical role non- western thinkers have played in the history of international law.

Previous CU Boulder ACLS Fellows

- | | |
|---|---|
| Marilyn Ruth Brown , Art and Art History (1988) | Mark Pittenger , History (1994) Isaac |
| Andrew Cowell , Linguistics; French and Italian (2009) | Reed , Sociology (2014) Elizabeth |
| Virginia DeJohn Anderson , History (1999) | Robertson , English (1998) Edward |
| Elspeth Dusingher , Classics (2006) | Ruestow , History (1977) Phoebe |
| David Ferris , Humanities (2002) | S.K. Young , History (2009) Erin |
| Paul Gordon , Humanities (1994) | Shay , Linguistics (2012) |
| Arthur Joyce , Anthropology (2005) | |
| Nicholas Lee , Germanic and Slavic Languages (1975) | |
| Stephen Lekson , Anthropology; Museum (2003) | |
| Patricia Limerick , History (1989) | |
| Marjorie McIntosh , History (1972) | |
| Robert Pasnau , Philosophy (2003) | |

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)
- Marvin Caruthers**, Chemistry and Biochemistry (1994)
- Thomas R. Cech**, Chemistry and Biochemistry (1987)
- Noel Clark**, Physics (2007)
- 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)
- Roy Parker**, Chemistry and Biochemistry (2012)
- Margaret Tolbert**, Chemistry and Biochemistry; Cooperative Institute for Research in Environmental Sciences (2004)
- Carl Wieman**, Physics; JILA (1995)
- David Wineland**, Physics (1992)
- Jun Ye**, Physics; JILA (2011)

Retired Academy Members

- Lewis M. Branscomb**, Physics; JILA
- Richard McCray**, Astrophysical and Planetary Sciences; JILA (1989)
- J. Richard McIntosh**, Molecular, Cellular and Developmental Biology (1999)
- Norman Pace**, Molecular, Cellular and Developmental Biology (1991)
- William B. Wood**, Molecular, Cellular and Developmental Biology (1972)

Deceased Academy Members

- Kenneth Boulding**, Economics (1975)
- Edward U. Condon**, Physics; JILA (1945)
- Linda Cordell**, Anthropology; University Museum (2005)
- Stanley Cristol**, Chemistry and Biochemistry (1972)
- Charles DePuy**, Chemistry and Biochemistry (1999)
- George Gamow**, Physics (1953)
- David M. Prescott**, Molecular, Cellular and Developmental Biology (1974)
- Stanislaw M. Ulam**, Mathematics (2013)
- John Wahr**, Physics; Cooperative Institute for Research in Environmental Sciences (2012)
- Gilbert White**, Geography (1973)



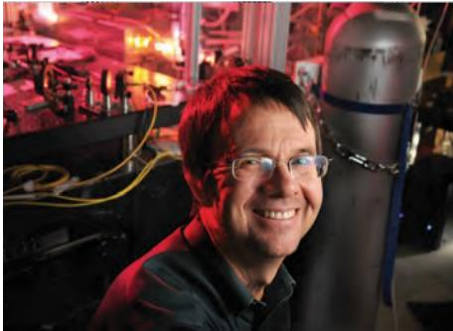
ADDITIONAL ACADEMIC ACHIEVEMENTS

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.



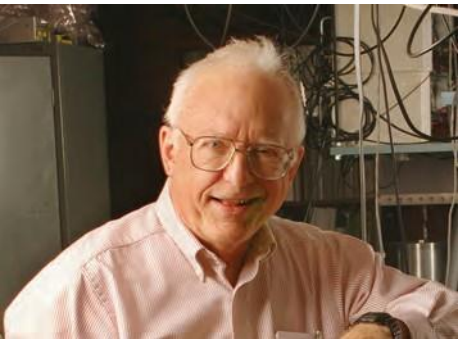
1989
Thomas R. Cech
Chemistry and Biochemistry



2001
Eric Cornell
Physics; JILA

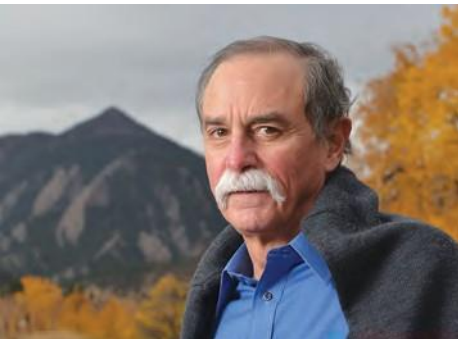


2001
Carl Wieman
Physics; JILA



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.

Michelle Ellsworth

Professor, Theatre and Dance; Associate Director, ATLAS Center for Media, Arts and Performance



A CU faculty member since 2000, Professor Ellsworth is unique among the dance faculty for teaching dance, theatre and interdisciplinary courses that combine dance and theatre with science, music and film. She uses dance, video, text, performance art, sculptures and the web to explore topics ranging from pharmaceutical art to experimental surveillance. Her work has been commissioned by the National Performance Network, Diverseworks, Dance Theater Workshop, On The Boards and Danspace Project, and she has received three National Performance Network Creation Fund commissions. Ellsworth was featured in the *New York Times* article “Best of Dance 2015” under the heading “Dances with Gadgets.”

During the term of her Guggenheim Fellowship she has been at work on a piece entitled “Post Verbal Social Network,” a live performance work that investigates what a physically productive, non-language-based, nonmediated, preindustrial, 3D dance/communication looks and feels like.

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)

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)

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; deceased)

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) | Karla Kirkegaard , Molecular, Cellular and Developmental Biology (1989) |
| Kristi S. Anseth , Chemical and Biological Engineering (1997) | Milos Popovic , Electrical, Computer and Energy Engineering (2013) |
| Elizabeth Bradley , Computer Science (1995) | John Price , Physics (1990) |
| Barbara Demmig-Adams , Ecology and Evolutionary Biology (1992) | Leo Radzihovsky , Physics (1998) |
| Michael Hermele , Physics (2010) | Cindy Regal , Physics; JILA (2011) |
| Pieter Johnson , Ecology and Evolutionary Biology (2008) | Alexis Templeton , Geological Sciences (2006) |
| David Jonas , Chemistry and Biochemistry (1996) | Shijie Zhong , Physics (2001) |

ADDITIONAL ACADEMIC ACHIEVEMENTS

National Endowment for the Humanities Public Scholar Award

The National Endowment for the Humanities, an independent federal agency created in 1965, is one of the largest funders of humanities programs in the United States. The NEH Public Scholar Program supports well-researched books in the humanities conceived and written to reach a broad readership.

Thomas Andrews

Professor, History



Professor Andrew’s research interests include Western, Native American and environmental history as well as labor history and the scholarship of teaching and learning in history. His first book, *Killing for Coal: America’s Deadliest Labor War* (Harvard University Press, 2008), won six awards, including the distinguished Bancroft Prize. In *Coyote Valley: Deep History in the High Rockies* (Harvard University Press, 2015) he provided an environmental history of the Colorado headwaters region of Rocky Mountain National Park. His 2016 NEH Public Scholar Award contributed to his researching and writing of an animals’-eye view of U.S. history since 1400. The forthcoming book explores the human-animal relationship within the context of changes in broader American culture and life.

Sloan Research Fellowship—Computer Science / Alfred P. Sloan Foundation

Sloan Research Fellowships seek to stimulate fundamental research by early-career scientists and scholars of outstanding promise. These two-year fellowships are awarded yearly to 126 researchers in recognition of distinguished performance and a unique potential to make substantial contributions to their field.

Shaun Kane

Assistant Professor, Computer Science



Professor Kane is director of CU Boulder’s Superhuman Computing Lab, a research group in the Department of Computer Science devoted to research on accessible, mobile and wearable technologies. In particular, the lab focuses on projects that enhance people’s physical, sensory and creative abilities. Among the questions he and his team are considering: how do we make new personal fabrication devices such as 3D printers more accessible to novice users, hobbyists and people with disabilities? And, how can we design mobile and wearable computing equipment to support users on the go, especially when those users are working in distracting environments?

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.

Alton Byers

Senior Research Associate, Institute of Arctic and Alpine Research



The Himalayas and Andes are just two of the mountain systems that have benefited from Dr. Byers' research initiatives. His work in alpine conservation and restoration, particularly in tourist-impacted mountainous regions in Nepal and Peru, has resulted in the establishment of a variety of teacher training programs and local workshops. Since 2012 he has co-managed the High Mountains Adaptation Partnership (HiMAP) with the University of Texas at Austin, where he developed approaches to integrating research on the risks posed to glacial lakes in order to improve the local adaptation plan-of-action (LAPA) process. Among his active research projects is assessing earthquake damage to glacial lakes in

Nepal. He is currently writing a book entitled *Change: 60 Years of Climate, Culture, and Landscape Change in the Mt. Everest Region of Nepal*.

Byers earned his PhD from the Department of Geography at CU Boulder in 1987. He has worked and lived in Rwanda and Nepal and is the recipient of several prestigious awards, including the National Geographic Explorer award (2012) and the Sir Edmund Hillary Mountain Legacy Medal (2007).

John Patrick Kociolek

Professor, Ecology and Evolutionary Biology; Director, CU Boulder Museum of Natural History



Professor Kociolek's research focuses on the taxonomy, systematics, evolution and ecology of diatoms—microscopic plants that live in marine and freshwater ecosystems. Worldwide, these organisms produce more oxygen through photosynthesis than all the rainforests combined, and they produce lipids, molecules that store energy, making them of interest as renewable biofuels. Kociolek studies both living and fossil species of diatoms and currently is looking at freshwater diatoms in California, Colorado, China, Africa, Europe and Lake Baikal in Russia.

In addition to his teaching role, Kociolek heads CU Boulder's Museum of Natural History. As a visiting Fulbright scholar in Szczecin, Poland, he will continue his research on algal biofuels, diatoms and phylogenetic bioprospecting.

ADDITIONAL ACADEMIC ACHIEVEMENTS

Roseanna M. Neupauer

Professor, Civil, Environmental and Architectural Engineering



Professor Neupauer specializes in hydrology engineering, water resources and environmental fluid mechanics. She is particularly interested in researching groundwater flow and transport modeling, stream-aquifer interaction, groundwater remediation and chaotic advection, a state-of-the-art approach to investigating transport and mixing problems in fluid flows. As a President’s Teaching Scholar, she has helped to research, establish and develop individual, departmental and campus-wide projects to assess classroom learning, cultivate engaged teaching and learning, integrate research into teaching and provide more effective mentoring. You can find her original rap explaining Darcy’s

Law of Hydrogeology on YouTube.

Professor Neupauer spent her fellowship in Guayaquil, Ecuador. Her project title is “Water Management Evaluation in Coastal Surface Water and Groundwater Systems.”

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)

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)

Kevin Krizek, Environmental Design (2014)

Adam Levy, Institute of Behavioral Science (2015)

Thea Lindquist, University Libraries (2012)

Robert McNown, Economics (2006)

Steven Mojzsis, Geological Sciences (2015)

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)

Richard Regueiro, Civil, Environmental and Architectural Engineering (2015)

Brenda Romero, Music (2011)

Elisabeth Sheffield, English (2014)

Mark Williams, Geography; Institute of Arctic and Alpine Research (2014)

ADDITIONAL ACADEMIC ACHIEVEMENTS

National Academy of Inventors Fellows

The National Academy of Inventors is a nonprofit member organization that includes U.S. and international universities alongside governmental and nonprofit research institutes. The academy has over 3,000 individual inventor members and fellows spanning more than 200 institutions. The NAI Fellows program supports 582 fellows worldwide. Collectively, NAI Fellows hold more than 21,000 issued U.S. patents.

Kristi S. Anseth

Distinguished Professor, Chemical and Biological Engineering; BioFrontiers Institute



Dr. Anseth and her research group pioneered the development of biomaterials to serve as synthetic analogs to the extracellular matrix (ECM), a network of macromolecules that surround cells and thus define key features of the biochemical and biophysical aspects of a cell's niche—an environment that is not only tissue specific but can be strikingly heterogeneous and dynamic.

Unique to her approach is the ability to create cell-laden matrices in three-dimensional space in which the matrix properties can be changed on demand—so-called 4D biology. Ultimately, Anseth's research seeks to understand how cells sense, store and exchange information with the ECM. This knowledge can then be used

to engineer biomaterial niches as cell delivery vehicles for tissue regeneration, in vitro models of disease and physiologically relevant models for drug discovery and screening. Her materials-first approach provides tools to perform unique cell biology experiments and address major hurdles in regenerative medicine.

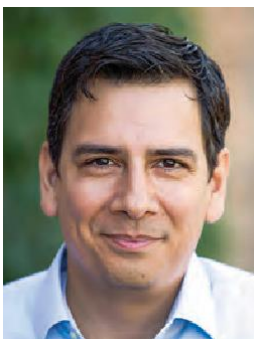
ADDITIONAL ACADEMIC ACHIEVEMENTS

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.

Dimitri Nakassis

Professor, Classics



Dr. Nakassis studies the material and textual production of early Greek communities, especially of the Mycenaean societies of Late Bronze Age Greece. His book *Individuals and Society in Mycenaean Pylos* (Brill, 2013) developed new methods for investigating individuals named in the early Greek administrative texts and argued from this evidence that Mycenaean society was far less hierarchical and much more dynamic than had been thought. He has published articles and book chapters on Homer and Hesiod, Greek religion and history, archaeological surveying and the economy, society and prosopography of the Mycenaean world. He is currently writing a book on political authority in Mycenaean

Greece. He is co-director (with Sarah James and Scott Gallimore) of the Western Argolid Regional Project (WARP), an archaeological survey in southern Greece that moves across time periods, and co-director (with Kevin Pluta) of the “Digital Nestor” project, which involves the digital documentation of all the administrative documents from the Palace of Nestor at Pylos.

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)

Ana Maria Rey, Associate Research Professor, Physics; JILA (2014)



The University of Colorado Boulder does not discriminate on the basis of race, color, national origin, sex, pregnancy, age, disability, creed, religion, sexual orientation, gender identity, gender expression or veteran status in admission and access to and treatment and employment in, its educational programs and activities. The university takes affirmative action to increase ethnic, cultural and gender diversity; to employ qualified disabled individuals; and to provide equal opportunity to all students and employees.

Produced by the Office of Strategic Relations, 2016.

In accordance with CU Boulder's long-standing commitment to sustainability, this publication has been printed using vegetable-based ink. The paper stock carries two Chain of Custody certifications (FSC, SFI) and contains recycled pulp that is processed chlorine free (PEFC).

appropriate logo(s) go here, supplied by printer