FACULTY CONDUCTING SUSTAINABILITY RESEARCH Data from research.berkeley.edu, Faculty Expertise, pulled 1/18-23/2013.
Only UC Berkeley faculty members with permanent academic appointments are listed in this database.

Name	Expertise	Department	Sust research? (y)
Michelle Wilde Anderson	environmental law, land use, local government	Boalt Hall School of Law	y
Daniel A. Farber	constiutional law, environmental law, freedom of speech	Boalt Hall School of Law	y
Peter Larsen	Arctic, economic impacts of climate change, energy economics, energy efficiency, energy services companies, environmental economics, extreme events, infrastructure, policy, resource	Boalt Hall School of Law	y
Peter S. Menell	entertainment law, environmental law & policy, intellectual property, property law	Boalt Hall School of Law	y
Joseph L. Sax	environmental law and policy, environmental regulation	Boalt Hall School of Law	y
Leo K. Simon	economics	College of Natural Resources, Department of Agricultural & Resource Economics	y
Sofia Villas-Boas	economics, industrial organization and applied econometrics	College of Natural Resources, Department of Agricultural & Resource Economics	y
Paul L. Gersper	agriculture, ecosystem science, forestry, soils	College of Natural Resources, Department of Environmental Science, Policy & Management	y
Louise N. Glass	biotechnology, plant and microbial biology	College of Natural Resources, Department of Plant and Microbial Biology	y
Steven E. Lindow	bacterial plant diseases, microbial biology, microbial ecology, plant biology, plant disease epidemiology, plant frost control	College of Natural Resources, Department of Plant and Microbial Biology	y
Sheng Luan	microbial biology, plant biology	College of Natural Resources, Department of Plant and Microbial Biology	y
Michael Anderson	environmental economics, health economics	Department of Agricultural & Resource Economics	y
Peter Berck	agricultural & resource economics, agricultural production, environmental economics, natural resource economics	Department of Agricultural & Resource Economics	y
Anthony C. Fisher	economics of climate change, environmental and natural resource economics	Department of Agricultural & Resource Economics	y

Meredith Fowlie	energy efficiency, energy markets, industrial organization, market-based environmental regulation, renewable energy resources.	Department of Agricultural & Resource Economics	y
Ann E. Harrison	economics, environmental policy, labor management & policy	Department of Agricultural & Resource Economics	y
Larry S. Karp	economics, environmental policy	Department of Agricultural & Resource Economics	y
Jeffrey T. LaFrance	agricultural policy, consumer choice, econometrics and statistics, economics, environmental policy, natural resource use, nutrition and health	Department of Agricultural & Resource Economics	y
Jeffrey M. Perloff	agricultural economics, antitrust, econometrics, economics, industrial organization, labor, marketing, trade	Department of Agricultural & Resource Economics	y
Gordon Rausser	bargaining and negotiation theory, biotechnology, environmental policy, futures and options markets, industrial organization and antitrust analysis, regulatory policy, resource economics	Department of Agricultural & Resource Economics	y
Elisabeth Sadoulet	agriculture, economics, labor management & policy	Department of Agricultural & Resource Economics	y
David Sunding	economics of law, endangered species, environmental economics, water, water quality, wetlands	Department of Agricultural & Resource Economics	y
Brian Wright	agricultural policy, catastrophe insurance, commodity markets, economics, innovation, intellectual property, patents, speculation, storage	Department of Agricultural & Resource Economics	y
David Zilberman	agricultural and environmental policy, biofuels, biotechnology, marketing, natural resources, risk management, the economics of innovation, water	Department of Agricultural & Resource Economics	y
Maximilian Auffhammer	air pollution, climate change, econometrics, energy economics, environmental economics	Department of Agricultural & Resource Economics, International and Area Studies	y
Donald Moore	Africa, and identity, cultural politics, development, environment, ethnicity, governmentality, postcolonial theory, race, spatiality and power	Department of Anthropology	y
Laura Nader	comparative ethnography of law, comparative family organizations, conflict, contemporary U.S., controlling processes, dispute resolution, ethnology of the Middle East, Latin America, Mexico, social anthropology, the anthropology of professional mind-sets	Department of Anthropology	y

Mark S. T. Anderson	architecture, architecture in China, architecture in Japan, BIM, building construction, building design, building integrated modeling, design-build, housing design, integrated project delivery, IPD, modular, net zero energy desig, nurban design, prefabricated, school design, urban water	Department of Architecture	y
Edward Arens	architectural aerodynamics, building environmental control, indoor environment, occupant surveys, thermal comfort, ventilation, wind	Department of Architecture	y
Harrison S. Fraker	architecture, daylighting, environmental design, passive solar, sustainable design, sustainable systems, transit oriented neighborhoods, urban design, urban design principles	Department of Architecture	y
Maria Paz Gutierrez	biologically inspired technologies, multifunctional materials, next-generation building systems, self-regulated facades	Department of Architecture	y
Stefano Schiavon	building energy efficiency, energy simulation, indoor air quality, indoor environment quality, personal environmental control system, post-occupancy evaluation, simulation and verification, surveys, sustainable building design, thermal comfort, underfloor air distribution	Department of Architecture	y
Susan Ubbelohde	architecture, California residential industry, climate and architecture, Correa, culture and practice, daylighting design tools, Doshi, India, Kahn, Le Corbusier, low-energy design, sky simulator design, software evaluation	Department of Architecture	y
Adam Arkin	bioenergy, Biomedicine, Bioremediation, Environmental Microbiology of Bacteria and Viruses, Systems and Synthetic Biology	Department of Bioengineering	y
Jay D. Keasling	biochemical engineering, biodegradable polymers, biofuels, chemical engineering, degradation of environmental contaminants, environmentally friendly synthesis, metabolic engineering of microorganisms, mineralization of organophosphate nerve agents, pesticides	Department of Bioengineering, Department of Chemical Engineering	y
Harvey W. Blanch	applied enzymology, biochemical engineering, biofuels, bioproduct recovery, biotechnology, chemical engineering, DNAelectrophoresis, Mammalian Cell Metabolism, protein interactions	Department of Chemical Engineering	y
Enrique Iglesia	alkane activation deoxygenatiion and desulfurization catalysis, catalytic materials, chemical engineering, chemical reaction engineering, heterogeneous catalysis, hydrogen generation, methane and biomass coversion processes, refining processes, zeolites	Department of Chemical Engineering	y
Danielle Tullman-Ercek	bioenergy, bionanotechnology, protein engineering, synthetic biology	Department of Chemical Engineering	y
Wenjun Zhang	biofuel synthesis, biomolecular engineering, chemical biology, enzyme discovery and characterization, natural product biosynthesis, synthetic biology	Department of Chemical Engineering	y
A. Paul Alivisatos	nanoscience, physical chemistry, semiconductor nanocrystals	Department of Chemistry	y
Christopher J. Chang	bioinorganic chemistry, chemical biology, chemistry, general physiology, inorganic chemistry, neuroscience, new chemical tools for biological imaging and proteomics, new metal complexes for energy catalysis and green chemistry, organic chemistry	Department of Chemistry	y
Samuel Markowitz	environmental chemistry, nuclear chemistry, nuclear reactions for chemical analyses	Department of Chemistry	y

T. Don Tilley	and reactivity studies on transition metal compounds; catalysis; new chemical transformations; advanced solid state materials; renewable energy; solar fuels, inorganic, organometallic, polymer and materials chemistry; synthetic, structural	Department of Chemistry	y
Kristie Boering	atmospheric chemistry, carbon dioxide, climate change, earth and planetary science, environmental chemistry, isotopic compositions of atmospheric trace gases, methane, molecular hydrogen, nitrous oxide, ozone, physical chemistry, stratospheric ozone	Department of Chemistry, Department of Earth and Planetary Science	y
Ronald C. Cohen	air pollution, analytical chemistry, atmospheric chemistry, climate, clouds, CO2, environmental chemistry, nitrogen oxides, ozone, physical chemistry, water	Department of Chemistry, Department of Earth and Planetary Science	y
Robert B. Cervero	city and regional planning, international transportation, transportation & land use, transportation & urban development, transportation planning	Department of City & Regional Planning	y
Daniel Chatman	agglomeration, housing, transportation, travel behavior, urban planning	Department of City & Regional Planning	y
Elizabeth Deakin	city and regional planning, energy and the environment, institutions and organizations, land use policy and planning; legal and regulatory issues, new technologies, planning and analysis, transportation policy, urban design	Department of City & Regional Planning	y
Malo Hutson	community development, population health, urban and regional planning, urban policy	Department of City & Regional Planning	y
Elizabeth Macdonald	urban design	Department of City & Regional Planning	y
Paul Waddell	land use models, transportation models, urban sustainability, UrbanSim	Department of City & Regional Planning	y
John D. Radke	city and regional planning, database design and construction, geographic information systems, landscape architecture and environmental planning, pattern recognition computational morphology, spatial analysis	Department of City & Regional Planning, Landscape Architecture & Environmental Planning	y
Michael Southworth	analysis, city and regional planning, design, design of public space, environmental planning, landscape architecture, management, morphology of the post-industrial city	Department of City & Regional Planning, Landscape Architecture & Environmental Planning	y
Norman Abrahamson	civil and environmental engineering, earthquake ground motions, spectral attenuation relations	Department of Civil and Environmental Engineering	y
Lisa Alvarez-Cohen	biodegradation of environmental contaminants, biological hazardous waste treatment, bioremediation of groundwater pollutants such as PCE, BTEX, DCA, DCE, Dioxane, environmental microbiology, fire-fighting foams, metagenomics, microbial carbon cycling, molecular tools for microbial ecology, MTBE, NDMA, PBDEs, PFOA, PFOS, TCA, TCE, VC	Department of Civil and Environmental Engineering	y
Abolhassan Astaneh-Asl	blast protection, bridges, composite structures, connections in steel structures, progressive collapse, seismic design, Steel structures	Department of Civil and Environmental Engineering	y
Robert G. Bea	construction, decommissioning, design, human and organizational factors, maintenance, ocean engineered systems, operations, quality assurance, quality control, reliability, risk assessment, risk management	Department of Civil and Environmental Engineering	y
Fotini Chow	atmospheric boundary layer flow, coupled land-atmosphere modeling, environmental fluid mechanics, flow over complex terrain, large-eddy simulation, turbulence modeling, urban dispersion modeling, wind energy applications	Department of Civil and Environmental Engineering	y
Armen Der Kiureghian	earthquake engineering, random vibrations, risk analysis, structural reliability	Department of Civil and Environmental Engineering	y
John A. Dracup	hydroclimatology, surface water hydrology, water resources systems	Department of Civil and Environmental Engineering	y
Ashok Gadgil	buildings energy efficiency, developing countries, drinking water, energy efficiency, fuel-efficient stoves, indoor air quality	Department of Civil and Environmental Engineering	y

Robert Harley	air pollution, air quality, atmospheric chemistry, diesel, emission inventory, gasoline, motor vehicle emissions, ozone, photochemical air quality modeling, sustainable transportation	Department of Civil and Environmental Engineering	y
Slawomir W. Hermanowicz	biofilms, biological processes for water quality, membrane processes, physical sustainability, water quality management, water reuse	Department of Civil and Environmental Engineering	y
Alexander J. Horne	behavior of pollutants in an aqueous environment, water pollution	Department of Civil and Environmental Engineering	y
Arpad Horvath	biofuels, construction, energy, environmental management, green design, infrastructure systems, LCA, life cycle assessment, sustainability, transportation, water	Department of Civil and Environmental Engineering	y
James R. Hunt	environmental data management, quantification of contaminant transport processes in natural and altered environments, water resources	Department of Civil and Environmental Engineering	y
David Jenkins	biological wastewater treatment, wastewater chemistry, water chemistry	Department of Civil and Environmental Engineering	y
Samer Madanat	transportation infrastructure management, transportation sustainability, transportation systems analysis	Department of Civil and Environmental Engineering	y
Povindar K. Mehta	admixtures, aggregates, cements, composite materials, concrete, industrial waste management and waste reuse	Department of Civil and Environmental Engineering	y
Jack P. Moehle	earthquake engineering, high-rise buildings, laboratory testing, lifeline systems, performance-based earthquake engineering, rehabilitation (retrofitting), reinforced concrete, structural engineering	Department of Civil and Environmental Engineering	y
William W. Nazaroff	aerosols, bioaerosol dynamics, control techniques, environmental tobacco smoke, exposure analysis, indoor air quality, pollutant-surface interactions, semivolatile organic compounds, source characterization, transport/mixing phenomena	Department of Civil and Environmental Engineering	y
Kara L. Nelson	appropriate technologies, detection and inactivation of pathogens in water and sludge, natural systems for water, wastewater treatment	Department of Civil and Environmental Engineering	y
Yoram Rubin	contaminant transport, geostatistics, hydrogeology, risk assessment	Department of Civil and Environmental Engineering	y
David L. Sedlak	engineered treatment wetlands, fate and transport of and transformation of chemicals in the aquatic environment, urban water infrastructure, water reuse and water recycling	Department of Civil and Environmental Engineering	y
Raymond B. Seed	geotechnical earthquake engineering, performance of dams, slope stability, soil/structure interaction, waste fills	Department of Civil and Environmental Engineering	y
Nicholas Sitar	geotechnical earthquake engineering, groundwater remediation, rock erosion, seismic earth pressure, seismic slope stability, wireless sensors	Department of Civil and Environmental Engineering	y
Jerome F. Thomas	applied chemistry: air, corrosion, water	Department of Civil and Environmental Engineering	y
Sally E. Thompson	arid and semi-arid watersheds and ecosystems, Ecohydrology, nonlinear dynamics, pattern formation, plant physiology, spatial ecology, surface hydrology, water resource sustainability	Department of Civil and Environmental Engineering	y
Iris D. Tommelein	adative leadership, building information modeling BIM, civil infrastructure systems, construction process engineering, design management, integrated project delivery IPD, lean construction, lean production, life-cycle engineering, megaproject delivery, supply-chain management, sustainability, virtual design and construction VDC.	Department of Civil and Environmental Engineering	y
Richard Allen	seismology earthquakes earthquake hazard mitigation earth structure tomography natural hazards	Department of Earth and Planetary Science	y
James K. B. Bishop	aquatic chemistry, Carbon Explorer, Carbon Flux Explorer., chemical oceanography, land - ocean biogeochemistry, marine biogeochemistry, ocean carbon cycle dynamics, ocean sensors and autonomous observing systems, remote sensing	Department of Earth and Planetary Science	y

George H. Brimhall	earth and planetary sciences, geology, mineral exploration science, non-renewable resource issues, ore-forming processes, photo-voltaic semi-conductor resources	Department of Earth and Planetary Science	y
James Kirchner	biogeochemistry, earth and planetary sciences, evolutionary ecology, geomorphology, watershed hydrology & geochemistry	Department of Earth and Planetary Science	y
Chi-Yuen Wang	earth & planetary science	Department of Earth and Planetary Science	y
Inez Fung	ecosystem scienes, environmental policy, global change	Department of Earth and Planetary Science, Department of Environmental Science, Policy & Management	y
Kurt M. Cuffey	climate, climate history, continuum mechanics, geographical thought, geomorphology, glaciers, glaciology, stable isotopes	Department of Earth and Planetary Science, Department of Geography	y
Lynn Ingram	California climate change, earth and planetary science, geochemical data, geography, geology, geophysics, paleoclimate, paleoclimatic and paleo-environmental reconstruction in aquatic environments using sedimentological, paleontological, paleosalinity, shellmounds, stratigraphy with strontium isotopes	Department of Earth and Planetary Science, Department of Geography	y
Edward Miguel	Africa, civil conflict, development economics, education, ethnic divisions, health, human capital, pre-analysis plans, social capital, war, water.	Department of Economics	y
Reginald H. Barrett	environmental science, human impact on wildlife, introduced species, land use planning, policy & management, species and land use ecology, terrestrial vertebrates, tule elk, wild pigs	Department of Environmental Science, Policy & Management	y
John J. Battles	adaptive management, carbon ecology and storage, community ecology, ecological integrity, ecosystem dynamics, forest ecology, forest inventory and analysis, forestry, Hubbard Brook, northern forest, Sierra Nevada, tree demography	Department of Environmental Science, Policy & Management	y
Justin S. Brashares	conservation, ecology, management	Department of Environmental Science, Policy & Management	y
Stephanie Carlson	conservation biology, evolutionary ecology, fish ecology, freshwater ecology, northern California rivers, Pacific salmon, stream ecology	Department of Environmental Science, Policy & Management	y
Claudia Carr	economics, environmental policy, environmental science, labor management & policy, water resource	Department of Environmental Science, Policy & Management	y
Ignacio Chapela	agriculture, biotechnology, environmental science, microbial biology, policy and management	Department of Environmental Science, Policy & Management	y
Mary K. Firestone	environmental policy, environmental science, miicrobial biology, policy & management, soils, wildlife	Department of Environmental Science, Policy & Management	y
Louise P. Fortmann	community control, democratizing science, gender, participatory research, poverty, property, Science and Technology studies, society	Department of Environmental Science, Policy & Management	y
Douglas W. Fuerstenau	colloid chemistry to mineral/water systems; fine particle science, extraction of metals, extractive metallurgy; application of surface, flotation, mineral processing, pelletizing; hydrometallurg, technology; principles of comminution	Department of Environmental Science, Policy & Management	y
Matteo Garbelotto	forestry, microbial biology, plant biology, plant pathology ecosystem sciences, sudden oak death	Department of Environmental Science, Policy & Management	y
Wayne M. Getz	Africa, disease ecology, resource management, wildlife conservation	Department of Environmental Science, Policy & Management	y
Allen Goldstein	air pollution, atmospheric chemistry, biogeochemistry, environmental science, global change	Department of Environmental Science, Policy & Management	y
David H. Kavanaugh	Climate Change Science, phylogenetics, Systematic Entomology	Department of Environmental Science, Policy & Management	y
Carolyn Merchant	environmental history, ethics, philosophy	Department of Environmental Science, Policy & Management	y

Max Moritz	climate change, ecosystem resilience, fire ecology and management, landscape ecology, spatial modeling	Department of Environmental Science, Policy & Management	y
Céline Pallud	biogeochemical cycles, biogeochemistry, fate and transport of nutrients, iron reduction, littoral sediments, metals and contaminants, nitrate reduction, selenium kinetics of organic matter degradation, soil aggregates, soil and environmental biogeophysics, spatial variation in biogeochemical processes, sulfate reduction, wetland soils	Department of Environmental Science, Policy & Management	y
Jerry A. Powell	biodiversity, biosystematics, comparative biology, entomology, environmental science, microlepidoptera, morphology, moth rearing, moths	Department of Environmental Science, Policy & Management	y
Vincent H. Resh	ecology, monitoring, pollution, water resources, water-borne diseases	Department of Environmental Science, Policy & Management	y
Scott L. Stephens	environmental biology/ecology, fire, fire behavior, fire ecology, forestry, global change, soils, sudden oak death	Department of Environmental Science, Policy & Management	y
Neil Tsutsui	Argentine ants, chemical ecology, genetics, genomics, honey bees, insect behavior, pheromones	Department of Environmental Science, Policy & Management	y
Kipling Will	environmental science, health and nutrition, pest management, policy and management	Department of Environmental Science, Policy & Management	y
David L. Wood	forestry, microbial biology, pest management	Department of Environmental Science, Policy & Management	y
Rob York	forest dynamics, forest ecology, forest management, forest operations, forest regeneration, Giant sequoia, mixed conifer forest, silviculture	Department of Environmental Science, Policy & Management	y
John E. Casida	environmental science, insect biology, molecular toxicology, pest management, pesticides	Department of Environmental Science, Policy & Management, Department of Nutritional Sciences & Toxicology	y
John Chiang	climate change, climate dynamics, ocean-atmosphere interactions, paleoclimate	Department of Geography	y
Norman Miller	climate change impacts to sociology-economic and ecological sectors, hydroclimate modeling and assimilation and analysis	Department of Geography	y
Robert Rhew	atmospheric chemistry and composition, boreal forest, chaparral, coastal salt marsh, desert, geography, grassland, halogen biogeochemistry, stratospheric ozone depletion issues, terrestrial-atmosphere exchange of trace gases, tundra	Department of Geography	y
Nathan Sayre	climate change, community-based conservation, endangered species, environmental geography, environmental history, human-environment interactions, pastoralism, political ecology, ranching, range science and management, rangelands, scale, Southwestern US, suburbanization	Department of Geography	y
Richard A. Walker	California, capitalism, cities, class, economic geography, environment, geography, politics, race, regional development, resources, urbanism	Department of Geography	y
Michael J. Watts	Africa, development, geography, Islam, Marxian political economy, peasant societies, political ecology, political economy, social and and cultural theory, social movements, South Asia, U.S. agriculture	Department of Geography	y
Harry N. Scheiber	American constitutional development, American legal history, federalism and state-federal relations, Law of the Sea (international law), ocean law and policy	Department of History	y
David Ackerly	adaptation, california biodiversity, climate change	Department of Integrative Biology	y
Anthony D. Barnosky	biogeography, climate change, conservation biology, ecology, evolution, extinction, global change, macroecology, mammals, paleobiology, paleoecology, paleontology	Department of Integrative Biology	y

Roy L. Caldwell	aggressive behavior, animal behavior, behavioral ecology, cephalopods, communication, coral reef restoration, crustaceans, ecology, evolution, Invertebrates, marine biology, mating systems, octopus, sensory ecology, stomatopods	Department of Integrative Biology	y
Thomas J. Carlson	Africa, Asia, ecology, ecosystem management, ethnobotany, ethnoecology, ethnoepidemiology, evolution of human disease, medicine, molecular biology, North America, nutritional ethnobotany, Pacific Islands, pharmacology, South America, systematics	Department of Integrative Biology	y
Todd Dawson	adaptations of plants, carbon, ecosystem processes, evolutionary plant ecology, nitrogen, physiological plant ecology, water	Department of Integrative Biology	y
William Lidicker	conservation biology, ecology, mammalogy	Department of Integrative Biology	y
Jere Lipps	Antarctic habitats, astrobiology, Charles Darwin, coral reef, ecology, evolution of marine biotas, molecular phylogenetics, paleoenvironments, paleontology, seismic histories	Department of Integrative Biology	y
Craig Moritz	demography, diversity of faunas, eastern South America, ecology, molecular evolution, northeastern Australia, rainforest biotas, western North America	Department of Integrative Biology	y
Thomas M. (Zack) Powell	aquatic ecology, climate, estuaries, fish, Invertebrates, lakes, ocean, oceanography, planktonic ecosystems, remote sensing	Department of Integrative Biology	y
Mary E. Power	acid mine drainage, food webs, freshwater ecology, northern California rivers, trophic dynamics, watersheds	Department of Integrative Biology	y
David Wake	evolutionary and conservation biology	Department of Integrative Biology	y
Donald P. Weston	bioaccumulation, deposit-feeding invertebrates, ecotoxicology, environmental effects of antibiotics, invertebrate ecology, management of contaminated sediments, pesticides, pollutant exposure	Department of Integrative Biology	y
Junqiao Wu	energy materials, nanotechnology, semiconductors	Department of Materials Science and Engineering	y
M. Reza Alam	Fluid Flow Control, Nonlinear Dynamical Systems, Nonlinear Wave Mechanics, Ocean and Coastal Waves Phenomena, ocean renewable energy, Ocean Renewable Energy (Wave, Theoretical Fluid Dynamics, Tide and Offshore Wind Energy)	Department of Mechanical Engineering	y
Francesco Borrelli	automotive control systems, distributed and robust constrained control, energy efficient buildings, manufacturing control systems, model predictive control.	Department of Mechanical Engineering	y
Van P. Carey	biothermodynamics, computer aided thermal design, mechanical engineering, microscale thermophysics, non-equilibirum thermodynamics, statistical thermodynamics, thermodynamic analysis of green manufacturing	Department of Mechanical Engineering	y
David Dornfeld	flexible/lean manufacturing systems, green and sustainable manufacturing, intelligent sensors and signal processing, mechanical engineering design, precision manufacturing processes, process modeling.	Department of Mechanical Engineering	y
Carlos Fernandez-Pello	biofuels, combustion, fire, heat transfer, ignition and fire spread, small scale energy generation, smoldering and flaming, wildland fire spotting	Department of Mechanical Engineering	y
Michael Frenklach	chemical kinetics; computer modeling; combustion chemistry; pollutant formation (NOx, diamond powders; interstellar dust formation, silicon carbide, soot); shock tube; chemical vapor deposition of diamond films; homogeneous nucleation of silicon	Department of Mechanical Engineering	y
Ralph Greif	bio heat transfer, buoyancy transport, cooling at the chip level, fuel cells, heat and mass transfer, laser surface interactions, materials processing, micro scale transport, nuclear reactor safety, phase change, reacting flows, semiconductor wafers	Department of Mechanical Engineering	y

Costas P. Grigoropoulos	energy systems and technology, heat transfer, laser materials processing, nano-manufacturing	Department of Mechanical Engineering	y
Patrick Pagni	fire modeling, fire physics, fire safety engineering, post earthquake fires	Department of Mechanical Engineering	y
Robert F. Sawyer	air pollutant formation and control, combustion chemistry, health effects of air pollution, motor fuels, motor vehicle emissions, regulatory policy	Department of Mechanical Engineering	y
Ronald W. Yeung	green ships, Helmholtz resonance, hydromechanics, mathematical modeling, multi-hull flow physics, naval architecture, numerical fluid mechanics, ocean energy, ocean processes, offshore mechanics, separated flows, ship motion instabilities, stratified fluid flow, tank resonance, tidal energy, vortex-induced vibrations, wave-vorticity interaction	Department of Mechanical Engineering	y
Kameshwar Poolla	control, cybersecurity, estimation, integrated circuit design and manufacturing, modeling, renewable energy, smart grids	Department of Mechanical Engineering, Division of Electrical Engineering/EECS	y
Alexander Glazer	design of fluorescent probes, environmental sciences, macromolecular complexes, natural resource management, photosynthetic systems, phycobiliproteins, protein structure-function relationships	Department of Molecular & Cell Biology	y
Joonhong Ahn	environmental impact of severe accidents, mathematical safety assessment of deep geologic repository, radioactive waste management, transport of radionuclides in geologic formations	Department of Nuclear Engineering	y
Paul L. Chambré	analytical and numerical methods in neutron transport theory, analytical methods in radioactive waste management, applied mathematics, coupled thermal-hydraulic-neutronic reactor analysis, nuclear engineering, space-time reactor kinetics	Department of Nuclear Engineering	y
William E. Kastenberg	ethical issues in emerging technologies, nuclear reactor safety, risk assessment, risk management	Department of Nuclear Engineering	y
Per F. Peterson	heat and mass transfer, multiphase transport, nuclear engineering, nuclear materials management, nuclear reactor design, radioactive waste, safety, thermal hydraulics	Department of Nuclear Engineering	y
George Chang	food safety, health and nutrition, microbial biology	Department of Nutritional Sciences & Toxicology	y
Chris D. Vulpe	copper, ecotoxicogenomics, ecotoxicology, environmental, gene expression, genetics, genomics, iron, susceptibility, toxicology, water quality	Department of Nutritional Sciences & Toxicology	y
Buford Price	climate research, evolution, glacial ice, metabolism, microbes, neutrino astrophysics, volcanism	Department of Physics	y
Arthur Rosenfeld	building technologies, building ventilation, compact fluorescent lamps, DoE-2 computer program for the energy design of buildings, electronic ballasts for fluorescent lamps, energy analysis, indoor environment, low-emissivity, physics, selective windows	Department of Physics	y
Anastasios Melis	bioenergy, biofuels, biophysics, enzymology, photosynthesis	Department of Plant and Microbial Biology	y
Chris Somerville	arabidopsis, biochemistry, bioenergy, biofuels, biotechnology, cell biology, cell walls, cellulose, cellulose synthase, polysaccharides	Department of Plant and Microbial Biology	y
Robert A. Kagan	corporations, environmental law, labor law, labor relations	Department of Political Science	y
Alison Post	infrastructure, regulation, water and sanitation	Department of Political Science	y
Cari Kaufman	Bayesian statistics, climate, functional data analysis, spatial statistics	Department of Statistics	y
Ali Javey	energy, nanoelectronics, nanotechnology	Division of Electrical Engineering/EECS	y
Seth R. Sanders	electric machine design, high frequency power conversion circuits, nonlinear circuit theory, renewable energy, system theory	Division of Electrical Engineering/EECS	y

Costas J. Spanos	energy efficiency, integrated circuits, semiconductor manufacturing, sensors, smart buildings, solid-state devices	Division of Electrical Engineering/EECS	y
Duncan Callaway	and system analysis of energy technologies and their impact, modeling and control of aggregated storage devices, power management	Energy & Resources Group	y
John Harte	biodiversity, biogeochemistry, climate change, energy, environmental policy, environmental science, field manipulation experiments, global change, mathematical modeling, study of patterns in nature, theoretical ecology	Energy & Resources Group	y
Daniel Kammen	energy, environmental resource management, hazard assessment, methodological studies of forecasting, nuclear engineering, public policy, renewable energy technologies, resources, risk analysis as applied to global warming	Energy & Resources Group	y
Richard B. Norgaard	ecological economics, energy, energy economics, environmental epistemology, environmental problems challenging scientific understanding, globalization effects, policy process, resources, tropical forestry and agriculture, understanding of systems	Energy & Resources Group	y
Isha Ray	access to water for the rural and urban poor developing countries, common property resource management, energy, non-profit sector, on-farm water use, politics and economics of water, resources, sustainable rural development, transnational river conflicts	Energy & Resources Group	y
Catherine Koshland	air pollution, chlorinated hydrocarbons, control strategies in urban airsheds, energy, environmental human health, industrial ecology, mechanistic analyses of combustion products in flow reactors, metals, particulates, pollutant formation, resources	Energy & Resources Group, Goldman School of Public Policy	y
Barbara Allen-Diaz	biodiversity, grasslands, grazing, oak woodlands, plant ecology, rangeland ecology, rangeland management, water resources, wetlands	Environmental Science, Policy & Management	y
Miguel Altieri	agriculture, environmental science, pest management	Environmental Science, Policy & Management	y
Ronald G. Amundson	ecosystems, environmental history & ethics, environmental science, isotope biogeochemistry, pedology, soils, soilsbiogeochemistry	Environmental Science, Policy & Management	y
Dennis Baldocchi	biometeorology, biosphere-atmosphere trace gas fluxes and exchanges, environmental policy, plant canopy micrometeorology	Environmental Science, Policy & Management	y
James W. Bartolome	biodiversity, environmental science, fire, grasslands, grazing, mediterranean ecosystems, plant ecology, rangelands	Environmental Science, Policy & Management	y
Steven R. Beissinger	behavioral and population ecology, climate change, conservation biology, endangered species, environmental science, ornithology, wildlife	Environmental Science, Policy & Management	y
Richard S. Dodd	environmental policy, environmental science, forestry, plant biology, policy & management, wildlife	Environmental Science, Policy & Management	y
Sally K. Fairfax	environmental policy, environmental science, forestry, plant biology, policy & management, wildlife	Environmental Science, Policy & Management	y
Gordon W. Frankie	& management, environmental policy, environmental science, pest management, policy	Environmental Science, Policy & Management	y
Rosemary G. Gillespie	evolution and conservation biology, insect biology, oceanic islands, spiders, systematics	Environmental Science, Policy & Management	y
J. Keith Gilless	environmental policy, forest economics, forestry, resource economics, wildland fire	Environmental Science, Policy & Management	y
Peng Gong	digital image analysis, ecological measurement, ecosystem modeling, environmental science, forests, remote sensing, sensors, spectral analysis	Environmental Science, Policy & Management	y
Andrew P. Gutierrez	agricultural ecosystems, environmental policy, environmental science, pest management, transgenic crops	Environmental Science, Policy & Management	y

Lynn Huntsinger	conservation biology, ecosystems, livestock, Native American history, natural resources, rangeland ecology and management	Environmental Science, Policy & Management	y
Nina Maggi Kelly	ecosystem sciences, forests, geoinformatics, participatory web, remote sensing, wetlands	Environmental Science, Policy & Management	y
Isao Kubo	agriculture, insect biology, pest management	Environmental Science, Policy & Management	y
John G. McColl	ecosystem sciences, forest soils, land management, nutrient cycling, soil science	Environmental Science, Policy & Management	y
Dale R. McCullough	environmental science, wildlife biology, wildlife management	Environmental Science, Policy & Management	y
William McKillop	forest economics, forest management, forest policy, forestry economics, timber supply	Environmental Science, Policy & Management	y
Nicholas J. Mills	biological control of insect pests, Cydia pomonella, ecology of insect parasitism, environmental science, griculture, Hyalopterus pruni, microbial biology, natural enemy biology, parasitoids, pest management	Environmental Science, Policy & Management	y
Katharine V. Milton	conservation, dietary ecology, digestive physiology, environmental science, host-parasite interactions, human ecology, primatology, tropical forests	Environmental Science, Policy & Management	y
Kevin L. O'Hara	environmental science, forest management, forest restoration, forestry, silviculture, stand dynamics	Environmental Science, Policy & Management	y
Kate O'Neill	ecological modernization theory, environmental movements, environmental politics and policy, globalization, hazardous waste, multilateral environmental agreements	Environmental Science, Policy & Management	y
Dara O'Rourke	consumers, environmental justice, globalization, information-based regulation, labor and environmental policy, supply chains, sustainability	Environmental Science, Policy & Management	y
Nancy Lee Peluso	environmental policy, environmental sociology, environmental studies, forestry, geopolitics of resource control, political ecology, resource management and policy, rural development	Environmental Science, Policy & Management	y
Matthew Potts	bioeconomics, biological reserve design, mathematical and theoretical ecology, modeling of coupled human-natural systems, spatial ecology, sustainable forest management, tropical ecology	Environmental Science, Policy & Management	y
George Roderick	biodiversity, climate change, conservation, invasive species, population genetics	Environmental Science, Policy & Management	y
Whendee Silver	biogeochemistry, climate change, ecosystem ecology, global change, greenhouse gases, management, rangelands, soils, tropical forestry	Environmental Science, Policy & Management	y
David Winickoff	bioethics, biotechnology, constitutional law, international law, scientific ethics, technology and society, university technology transfer	Environmental Science, Policy & Management	y
Lee Friedman	climate change, criminal justice, economic organization, environmental markets, public policy, school finance, utility regulation	Goldman School of Public Policy	y
Margaret Taylor	climate change, engineering, environmental management, environmental markets, environmental policy, intellectual property, international R&D policy, organizational behavior/learning, public policy, regulation, technological innovation, technology policy	Goldman School of Public Policy	y
Sara Beckman	business, environmental supply chain management, innovation, management, operations strategy, product development	Haas School of Business	y
Severin Borenstein	airline competition, applied microeconomics, electricity deregulation, energy markets, industrial organization, market pricing & competition	Haas School of Business	y
Christine Rosen	American business history, corporate environmental management industrial ecology, history of pollution regulation, new developments in corporate environmental management	Haas School of Business	y

Catherine Wolfram	climate change, energy and environmental markets, energy efficiency, regulation of business	Haas School of Business	y
Walter Hood	citizen participation, community development, design of architecture and landscape, environmental planning, landscape architecture, landscape design, urban design	Landscape Architecture & Environmental Planning	y
Linda Jewell	environmental planning, landscape architecture, landscapes and structures, on-site design decisions, site planning, sustainable construction, urban design	Landscape Architecture & Environmental Planning	y
G. Mathias Kondolf	ecological restoration, environmental geology, environmental impact assessment, environmental planning, fluvial geomorphology, hydrology, landscape architecture, riparian zone management	Landscape Architecture & Environmental Planning	y
Joe R. McBride	urban forestry	Landscape Architecture & Environmental Planning	y
Marcia McNally	activism and collaboration, citizen participation, decision making tools, environmental planning, landscape architecture, neighborhood landscape as training ground, planning and decision making	Landscape Architecture & Environmental Planning	y
Judith Stilgenbauer	emergent urbanism, green infrastructure, landscape architecture, planting design, process-driven design, urban landscape design	Landscape Architecture & Environmental Planning	y
Michael Pollan	agriculture, cooking, environment, food, gardening, journalism, nutrition, obesity, science	School of Journalism	y
Patricia Buffler	cancer epidemiology, childhood cancers, environmental health, molecular epidemiology, public health	School of Public Health	y
S. Katharine Hammond	environmental health sciences, public health	School of Public Health	y
James Robinson	environmental health sciences, health policy and management, health services and policy analysis, public health	School of Public Health	y
James Seward	environmental health sciences, public health	School of Public Health	y
Allan Smith	biostatistics, environmental health sciences, epidemiology, public health	School of Public Health	y
Kirk R. Smith	air pollution, climate change, environmental health science, international health, public health	School of Public Health	y
Robert Spear	environmental health science, public health	School of Public Health	y
Ira Tager	aging, biostatistics, environmental health sciences, epidemiology, maternal & child health, public health	School of Public Health	y

Total # faculty members	1928
# doing sustainability research	217