CIVIL AND ENVIRONMENTAL ENGINEERING FACULTY 2018-2019

Additional info: **http://cee.engr.ucdavis.edu/people/faculty-directory/**

Norm Abrahamson 3021 Ghausi Hall, 752-0896 naa2@pge.com
Geotechnical; Probabilistic seismic hazard analyses including complete statistical treatment of variability (randomness vs uncertainty)

Michele Barbato 3149 Ghausi Hall, Phone # TBD, mbarbato@ucdavis.edu
Nonlinear structural analysis; structural dynamics; structural reliability; stochastic dynamics; finite element methods; sustainable construction materials; performance-based engineering; climate adaptation

Heather Bischel 3109 Ghausi Hall, 752-6772, hbischel@ucdavis.edu
Environmental; Resource-oriented sanitation; pathogens and micropollutants; sustainable international development; water quality and reuse; natural systems

John E. Bolander 3121 Ghausi Hall, 752-8226, jebolander@ucdavis.edu
Structural analysis; structural design; composite materials; nondestructive testing; optimization

Fabian Bombardelli 3105 Ghausi Hall, 752-0949, fabombardelli@ucdavis.edu
Theoretical and numerical aspects of turbulence in multi-phase flow dynamics; environmental flows

Ross W. Boulanger 3151 Ghausi Hall, 752-2947, rwboulanger@ucdavis.edu
Earthquake engineering; soil-structure interaction; laboratory testing; ground improvement

Colleen Bronner 3118 Ghausi Hall, 752-7523, cebronner@ucdavis.edu
Engineering education (K - 20); aquatic ecosystem restoration and management; groundwater remediation

Christopher Cappa 3135 Ghausi Hall, 752-8180, cdcappa@ucdavis.edu (Department Vice Chair/Graduate Adviser)
Air quality; atmospheric chemistry; atmospheric particulate matter; climate change

Y.H. Rob Chai 3133 Ghausi Hall, 752-2404, yhchai@ucdavis.edu
Seismic retrofit of structures; bridge structures; earthquake engineering; reinforced concrete and masonry structures

Lijuan Dawn Cheng 3161 Ghausi Hall, 754-8030, dawcheng@ucdavis.edu
Infrastructure design and renewal using composites and engineered recycle materials; bridge design and analysis; large-scale testing

Yannis F. Dafalias 3131 Ghausi Hall, 752-3423, jfdafalias@ucdavis.edu
Continuum mechanics; structural mechanics; soil mechanics; constitutive models for metals, polymers, soils; large deformations; micromechanics

Jeannie L. Darby 3134 Ghausi Hall, 752-5670, jdarby@ucdavis.edu (Department Vice Chair/Undergraduate Adviser)
Water and wastewater treatment; water quality; disinfection; arsenic, nitrate, and chromium removal from water

Jason T. DeJong 3101 Ghausi Hall, 754-8995, jdejong@ucdavis.edu
In-situ and laboratory characterization; soil behavior; sensor and device development; bio-mediated soil improvement; earthquake engineering, foundation design

Yueyue Fan 3137 Ghausi Hall, 754-6408, yyfan@ucdavis.edu
Network optimization and control; stochastic system modeling and analysis; risk management of transportation networks; applied mathematics/computation on transportation systems

Alex Forrest 3155 Ghausi Hall, 754-9428, alforrest@ucdavis.edu
Lakes, reservoirs and ice; autonomous underwater vehicles; environmental fluid mechanics; aquatic chemistry and ecosystems

Susan Handy 2142 Wickson Hall, 752-5878, slhandy@ucdavis.edu
Transportation; Grad Group: Travel behavior research; transportation-land use interactions; bicycling behavior and planning; transportation policy and planning

Thomas Harter 125 Veihmeyer Hall, 752-2709, thharter@ucdavis.edu
Water Grad Group: Groundwater and vadose zone hydrology; monitoring, modeling, and assessment of groundwater resources and groundwater quality at the groundwater-agriculture nexus

John T. Harvey 3153 Ghausi Hall, 754-6409, jtharvey@ucdavis.edu
Pavement materials, design, analysis, rehabilitation, construction, management, and quality; pavement environmental life cycle assessment

Jonathan Herman 3138 Ghausi Hall, 752-8870, jdherman@ucdavis.edu
Water resources planning and management; multi-objective optimization; system dynamics simulation

Miguel A. Jaller 3143 Ghausi Hall, 752-7062, mjaller@ucdavis.edu
Sustainable urban transportation systems, city logistics; humanitarian logistics; supply chain management; operations research

Boris Jeremić 3147 Ghausi Hall, 754-9248, jeremic@ucdavis.edu
Computational geomechanics; finite element methods; parallel computing; computer aided engineering

Amit Kanvinde 3139 Ghausi Hall, 752-2605, amkanvinde@ucdavis.edu (Department Chair, 2049 Ghausi Hall)
Fracture and fatigue of steel structures; nonlinear structural analysis and design; performance based earthquake engineering

M. Levent Kavvas 3165 Ghausi Hall, 752-2518, mlkavvas@ucdavis.edu
Hydrology; watershed hydrology; hydrometeorology; hydraulic models; erosion/sediment transport

Alissa Kendall 3167 Ghausi Hall, 752-5722, amkendall@ucdavis.edu
Energy systems analysis; renewable energy efficiency, transportation energy; life cycle analysis

Maureen Kinyua 3120 Ghausi Hall, 752-7857, mnkinyua@udavis.edu
Biological wastewater treatment, waste to energy, developing world systems and global health

Michael J. Kleeman 3125 Ghausi Hall, 752-8386, mjkleeman@ucdavis.edu
Urban and regional air quality; heterogeneous atmospheric chemical reactions; aerosols; air pollution source characterization; parallel computing

Sashi K. Kunnath 3019 Ghausi Hall, 754-6428, skkunnath@ucdavis.edu
Structural dynamics; earthquake engineering; extreme loading on structures; nonlinear modeling and simulation

Frank J. Loge 3163 Ghausi Hall, 754-2297, fjloge@ucdavis.edu
Water and energy efficiency in urban and agriculture systems, water/energy demand management, sustainable building design, water reuse, conservation based water rates, data privacy/security, and data analytics

Patrick Lucia 3021 Ghausi Hall, plucia@ucdavis.edu
Geotechnical; Adj. Professor

Jay R. Lund 3023 Ghausi Hall, 752-5671, jrlund@ucdavis.edu
Environment and infrastructure systems analysis; management; optimization; economics

Brian Maroney 3021 Ghausi Hall, brian.maroney@dot.ca.gov
Structural; Associate Adj. Professor; Seismic analysis and design; Cement-based composites; Nondestructive testing; Material and structural design optimization

Alejandro Martinez 3116 Ghausi hall, 752-5476, amart@ucdavis.edu
Geotechnical; Focus on soil-structure interfaces, deep foundatins, and soil behavior

Sabbie Miller 3157 Ghausi Hall, 754-6407, sabmil@ucdavis.edu
Environmental; Designing sustainable infrastructure materials, Bio-based composites, Integration of sustainability into structural design, Durability of civil engineering materials

Mark Modera 3120 Ghausi, 754-7671, mpmodera@ucdavis.edu
Energy efficiency; heat and mass transfer properties; air flow modeling and measurement; indoor air quality.

Veronica Morales 3136 Ghausi Hall, 752-4008, vermorales@ucdavis.edu
Water; Focus on fate and transport of particle contaminants in groundwater, biochar engineering, non-fickian transport through porous media, colloid-interface interactions

Debbie Niemeier 3127 Ghausi Hall, 752-8918, dniemeier@ucdavis.edu
Sustainable urban design; transportation-air quality modeling; vehicle emissions modeling; environmental policy

Joan Ogden 3116 Wickson Hall, 754-6888, jmogden@ucdavis.edu
Transportation; Grad Group; Technical and economic assessment of new energy technologies, especially in the area of alternative fuels; fuel cells; renewable energy and energy conservation

Holly Oldroyd 3129 Ghausi Hall, hjoldroyd@ucdavis.edu
Water; Environmental fluid dynamics, turbulent transport processes, evapo-transpiration, land-water-atmosphere interactions

Mark M. Rashid 3123 Ghausi Hall, 752-7013, mmrashid@ucdavis.edu
Computational solid mechanics/inelasticity; large-deformation finite element methodology; constitutive modeling of engineering materials

Samuel Sandoval Solis 135 Veihmeyer Hall, 750-9722, samsandoval@ucdavis.edu
Water Grad Group: Cooperative Extension Specialist in Water Management

S. Geoffrey Schladow 3111 Ghausi Hall, 752-6932, gschladow@ucdavis.edu
Lake and reservoir modeling; environmental fluid mechanics; ecosystem modeling; sediment-water column exchange processes; saline lakes

Daniel Sperling 1715 Tilia St., Room 1109, West Village, 752-7434, dsperling@ucdavis.edu
Energy systems; air pollution; alternative energy systems; energy policy; environmental policy; transportation planning

Natarajan Sukumar 3159 Ghausi Hall, 754-6415, nsukumar@ucdavis.edu
Computational solid mechanics, applied mathematics, finite elements and meshfree methods, fracture mechanics, ab initio (Kohn-Sham equations of density functional theory) electronic-structure calculations, computational geometry, level set and fast marching methods, convex optimization, parallel computing

Anthony Wexler 2046 Bainer, 754-6558, aswexler@ucdavis.edu
Air pollution aerosol particles related to urban smog, human health and global warming; biomedical interests in particle effects on lungs and functional electrical stimulation of muscle

Thomas M. Young 3113 Ghausi Hall, 754-9399, tyoung@ucdavis.edu
Environmental chemistry; water quality; remediation of contaminated soils and sediments

Bassam A. Younis 3107 Ghausi Hall, 754-6417, bayounis@ucdavis.edu
Computational environmental fluid mechanics; turbulence simulation and modeling; transport processes

H. Michael Zhang 3145 Ghausi Hall, 754-9203, hmzhang@ucdavis.edu
Transportation systems management; traffic operations; traffic flow modeling; air pollution

Katerina Ziotopoulou 3141 Ghausi Hall, 752-1707, kziotopoulou@ucdavis.edu
Geotechnical; Geotechnical earthquake engineering, constitutive modeling of soils, liquefaction effects on structures and lifelines, numerical modeling of soil-structure systems, laboratory testing, development of numerical tools, geotechnical systems engineering