



GALLOGLY COLLEGE OF ENGINEERING

## SCHOOL OF SUSTAINABLE CHEMICAL, BIOLOGICAL AND MATERIALS ENGINEERING

The UNIVERSITY of OKLAHOMA



Research in the School of Sustainable Chemical, Biological and Materials Engineering is characterized by innovation and impact, leading to patents, technology licenses, companies and sought-after graduates.

### Research Areas

#### Sustainable Energy and Chemicals

Catalytic biomass conversion to fuels and chemicals, catalytic hydrogen production, biomass decomposition, molecular thermodynamics, computational modeling of turbulent transport and reaction, surface active particles and molecules

#### Bioengineering/ Biopharmaceuticals

Genetic engineering, protein production, bioseparations, metabolic engineering, biological transport, cancer treatment, orthopedic tissue engineering.

#### Environmental Processes

Carbon-free process engineering, membrane separation, soil and aquifer remediation, plastics recycling, sustainable energy production, environmental sustainability and resilience, hydrogen generation, transport and storage, water-energy nexus.

#### Materials Science and Engineering

Carbon nanotube production and functionalization, Soft matter engineering, Janus particle synthesis, surface characterization, polymer characterization and structure-property relationships, environmentally friendly coatings, polymers from renewable resources.

### Faculty Members

**Vivek Bajpai**

Ph.D. University at Buffalo-SUNY, 2015

**Ngoc Bui**

Ph.D. University of Connecticut, 2014

**Steven P. Crossley**

Ph.D. University of Oklahoma, 2009

**Reza Foudazi**

Ph.D. Cape Peninsula University, South Africa 2010

**Michele Galizia**

Ph.D. University of Bologna, Italy, 2010

**Jie Gao**

Ph.D. Joint at East China University of Science & Technology and EPFL, Switzerland, 2010

**Brian P. Grady**

Ph.D. University of Wisconsin-Madison, 1994

**Kasun Gunasooriya**

Ph.D. Ghent University, Belgium 2019

**Horst Hahn (NAE)**

Ph.D. Technische University, Berlin, 1982

**Roger G. Harrison, Jr.**

Ph.D. University of Wisconsin-Madison, 1975

**Liangliang Huang**

Ph.D. North Carolina State University, 2012

**John Klier (NAE)**

Ph.D. Purdue University, 1989

**Lance L. Lobban**

Ph.D. University of Houston, 1987

**M. Ulli Nollert**

Ph.D. Cornell University, 1987

**Edgar A. O'Rear, III**

Ph.D. Rice University, 1981

**Dimitrios V. Papavassiliou**

Ph.D. University of Illinois at Urbana-Champaign, 1996

**Sepideh Razavi**

Ph.D. The City College of New York, 2015

**Daniel E. Resasco**

Ph.D. Yale University, 1983

**Vassilios I. Sikavitsas**

Ph.D. University of Buffalo, 2000

**Alberto Striolo**

Ph.D. University of Padova, Italy, 2002

**Farid Talebnia**

Ph.D. Chalmers University of Technology, 2008

**Bin Wang**

Ph.D. Ecole Normale Supérieure de Lyon, France 2010

### Contact us!

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