

ENVIRONMENTAL ENGINEERING FACULTY



Dr. Rob Griffin, Chairman
Atmospheric Chemistry



Dr. Pedro Alvarez
Environmental Biotechnology & Nanotechnology
Director, NEWT Center



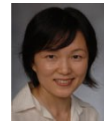
Dr. Phil Bedient
Hydrology & Water Resources
Director, SSPEED Center



Jim Blackburn, Professor in the Practice
Environmental Law & Sustainability
Co-Director, SSPEED Center



Dr. Daniel Cohan
Atmospheric Modeling & Policy



Dr. Qilin Li
Advanced Technologies for Water Quality
Associate Director, NEWT Center



Dr. Lauren Stadler
Micro/Biological Processes for Water Treatment



Dr. Mason Tomson
Fate & Transport of Pollutants in Sediments,
Brine Chemistry



Dr. Calvin (Herb) Ward, Professor Emeritus
Remediation Technology Development

CIVIL ENGINEERING FACULTY



Reginald DesRoches, Dean of Engineering
Resilient Infrastructure Systems



Dr. Leonardo Dueñas-Osorio
Complex Systems Modeling Infrastructure Reliability



Dr. Satish Nagarajaiah
Dynamic Systems & Control, Smart Structures



Dr. Jamie Padgett
Reliability & Risk Assessment, Bridge Engineering



Ed Segner, Adj. Professor in the Practice
Project Management & Engineering Economics



Dr. Rouzbeh Shahsavari
Computational Nanoscience for Green Infrastructure



Dr. Pol Spanos
Dynamic & Vibrations of Structural Systems



Dr. Ilinca Stanculescu
Computational Mechanics & Nonlinear Dynamics



Joseph M. Cibor, Adj. Professor in the Practice
Soil Mechanics and Foundation Engineering



CEVE

CIVIL AND ENVIRONMENTAL ENGINEERING

CEVE is for future leaders of smart & resilient cities. Graduates study global trends of mega-urbanization, population growth, climate change-related disasters, degrading infrastructure, air & water pollution/treatment, energy security, and decreasing natural resources.

Our challenges have never been clearer or more urgent.



KECK HALL 116 | CEVE@RICE.EDU | 713.348.4949 | CEVE.RICE.EDU
LOCATION | EMAIL | PHONE | WEBSITE

CEVE.RICE.EDU

OVERVIEW

- 13.5 Faculty + 1 Professor in the Practice
- 50 Undergraduate Students
- 62 Graduate Students
- 48 Doctoral Candidates
- 8 Masters Students & 6 Professional Masters
- 10 Postdoctoral Fellows
- 6 Research Scientists
- Graduate Programs ranked 25 (Civ) & 15 (Env)
- ~\$4.6M Annual research expenditure



WHY CEVE?

Track Record: 100% job placement in the CEVE field

Student Research Opportunities: Get real life experience within a CEVE Center

ABET Accredited: B.S. Degree

Size: High faculty to student ratio

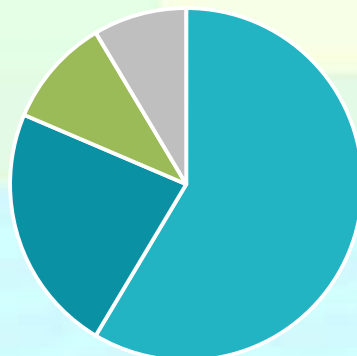
Flexibility: Four focus areas to choose from

Interdisciplinary: leadership in the integration of expertise & use of advanced models for complex problems



LIFE AFTER THE PROGRAM

- Stay for a CEVE M.S. or Ph.D.
- Consulting
- Research Lab
- Industry
- Government
- Non-Profit



DEGREES OFFERED

The department offers two degrees: B.S. Civil Engineering and B.A. Civil and Environmental Engineering. Both tracks offer students a robust curriculum, with small class sizes and hands-on opportunities for research and design.

B.S. Civil Engineering (ABET Accredited) – 133 hrs.

The B.S. is designed to prepare students for a career in engineering and offers innovative and challenging courses while still providing significant flexibility to the student.

Contact Dr. Bedient: bedient@rice.edu

B.A. Civil & Environmental Engineering – 122 hrs.

The B.A. offers a Civil or Environmental Engineering emphasis and allows both tracks to be tailored to the specific needs of each student.

Contact Dr. Tomson: mtomson@rice.edu



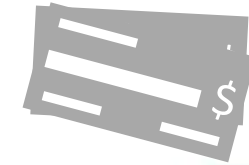
RESEARCH AREAS & INTERESTS

CEVE faculty offer an array of research interests in which undergraduate students have opportunities to get involved.

- Environmental Nanotechnology
- Urban Hydrology & Flood Prediction
- Air Quality and Environmental Policy
- Water Quality & Sustainable Water Management
- Hazardous Waste Remediation
- Dynamics of Smart Structures
- Computational & Stochastic Mechanics
- Reliability of Civil Infrastructure & Complex Urban Systems

BEYOND THE CLASSROOM

- Work for a Research Center
- Research in the Netherlands through NSF-PIRE
- Senior Design
- Internships with Companies & Government Agencies
- Complete Rice Faculty-Led CEVE Courses Abroad (TBA)



CHOOSE YOUR FOCUS



Environmental Engineering

Advisor: Dr. Mason Tomson
mtomson@rice.edu | 713.348.6048



Urban Hydrology & Water Resources

Advisor: Dr. Philip Bedient
bedient@rice.edu | 713.348.4953



Structural Engineering & Mechanics

Advisor: Dr. Satish Nagarajaiah
satish.nagarajaiah@rice.edu | 713.348.6207



Urban Infrastructure & Management

Advisor: Dr. Leonardo Dueñas-Osorio
leonardo.duenas-osorio@rice.edu | 713.348.5292

OPT FOR A MINOR IN SUSTAINABILITY

Students completing this minor in sustainability will be better prepared for global society that is attempting to understand and address the challenge of meeting the basic needs of an expanding population in light of a clearer realization of natural resource limitations.

Advisor: Jim Blackburn | blackbur@rice.edu | 713.348.4246

RESEARCH CENTERS



Nanosystems Engineering Research Center for Nanotechnology-Enabled Water Treatment (NEWT) is applying nanotechnology to develop transformative and off-grid water treatment systems that both protect human lives and support sustainable economic development. For more info: newtcenter.org



The Severe Storm Prediction, Education and Evacuation from Disasters (SSPEED) Center organizes leading universities, researchers, emergency managers, and private and public entities to better address severe storm prediction and its impact on the Gulf Coast area. Check us out: speed.rice.edu