### SCHOOL OF ENGINEERING FACTS

- Rensselaer Polytechnic Institute, founded in 1824, is America’s first Technological research university
- Located in Troy, NY 150 miles North of New York City
- 546 Graduate students
- 3,600 Undergraduate students
- 31 Degree programs (12 UG and 19 G)

### RESEARCH HIGHLIGHTS

- 12 Engineering focused Research Centers
- 2 NSF Engineering Research Centers (ERC’s)

### SCHOOL FACULTY

- 21 Endowed chairs or professorships
- 24 Faculty Members received National Science Foundation (NSF) Early Career Development Awards (2010-2018)
- 48 Early Career Awards (e.g., NSF CAREER, Young Investigator) among current faculty

### CONTACT US

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(518) 276-6360

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### ABOUT THE DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING

#### STUDENTS (FALL 2018)

- 217 Undergraduate Civil
- 63 Undergraduate ENVE
- 53 Graduate (12 M.E./11 M.S./30 PhD)

Ranked 40th in 2017 US News & World Report Graduate Rankings

#### DEGREES OFFERED

- Civil Engineering (B.S., M.E., M.S., Ph.D.)
- Environmental Engineering (B.S., M.E., M.S., Ph.D.)
- Transportation Engineering (M.E., M.S., Ph.D.)

#### DEGREES AWARDED IN AY 2017-18

- 47 B.S. Civil Engineering
- 17 B.S. Env. Engineering
- 16 M.S./M.E. Civil Engineering
- 15 M.S./M.E. Env. Engineering
- 2 M.S./M.E. Transp. Engineering
- 2 Ph.D. Civil /Env./Trans. Engineering

#### GRADUATE STUDENT SUPPORT

93% of graduate students received financial support

#### UNDERGRADUATE RESEARCH SUPPORT

30 Students per semester participated in Undergraduate Research Projects

### AFFILIATED RESEARCH CENTERS

- Geotechnical Centrifuge Center www.nees.rpi.edu
- Center for Infrastructure, Transportation, and the Environment transp.rpi.edu/~CITE
- Darrin Fresh Water Institute rpi.edu/dept/DFWI

### RESEARCH AREAS

#### Earthquake Engineering Research

- 4th Largest geotechnical centrifuge (150g-ton) in the U.S.
- Response of structures to earthquakes
- Analysis of New Orleans levee failures
- Analysis of critical pipeline failures

#### Natural Hazard Research (Structural)

- Snow Load Hazard
- Wind Load Hazard
- Natural Hazards, infrastructure and future climate scenarios

#### Transportation Systems and Operations

- Transportation Planning & Economics
- Disaster Response
- Intelligent Transportation Systems
- Transport Network Modeling & Simulation Control
- Advanced Econometrics

#### Computational Mechanics (Civil)

- Modeling & Simulation of civil systems
- Micromechanical & multiple-scale modeling
- Automated finite element & discrete element modeling techniques
- Adaptive analysis procedures & design using knowledge-based techniques

#### Environmental

- Pollutant Fate and Transport
- Water Treatment
- Site Remediation and Bioremediation
Department of Civil and Environmental Engineering

FACULTY

- Tarek Abdoun, Thomas Iovino Chair Professor
- Mohammed Alnaggar, Assistant Professor
- Victoria Bennett, Assistant Professor
- Ricardo Dobry, NAE, Institute Professor and Director, NEES-NSF Geotechnical Centrifuge Research Center
- Yuri Gorby, Howard N. Blitman ’50 P.E. Career Development Chair Associate Professor in Engineering
- Xiaozheng (Sean) He, Assistant Professor
- Jose Holguín-Veras, William H. Hart Chair Professor
- James (Chip) Kilduff, Associate Professor
- Chris Letchford, Professor, Department Head
- Marianne Nyman, Associate Professor
- Michael O’Rourke, Professor
- John (Jack) Reilly, Professor of Practice
- Mark S. Shephard, Samuel A. Johnson ’37 and Elizabeth C. Johnson Professor of Engineering
- Michael Symans, Associate Professor
- Shun Uchida, Assistant Professor
- William Wallace, Yamada Corporation Professor
- Xiaokun (Cara) Wang, Associate Professor
- Mourad Zeghal, Professor
- Thomas Zimmie, Professor

Pictured below from left to right—NYSDOT Traffic Center (TMC) student tour, our new Hydraulics Lab, Order of the Engineers Ceremony, and the Tappan Zee Bridge trip.