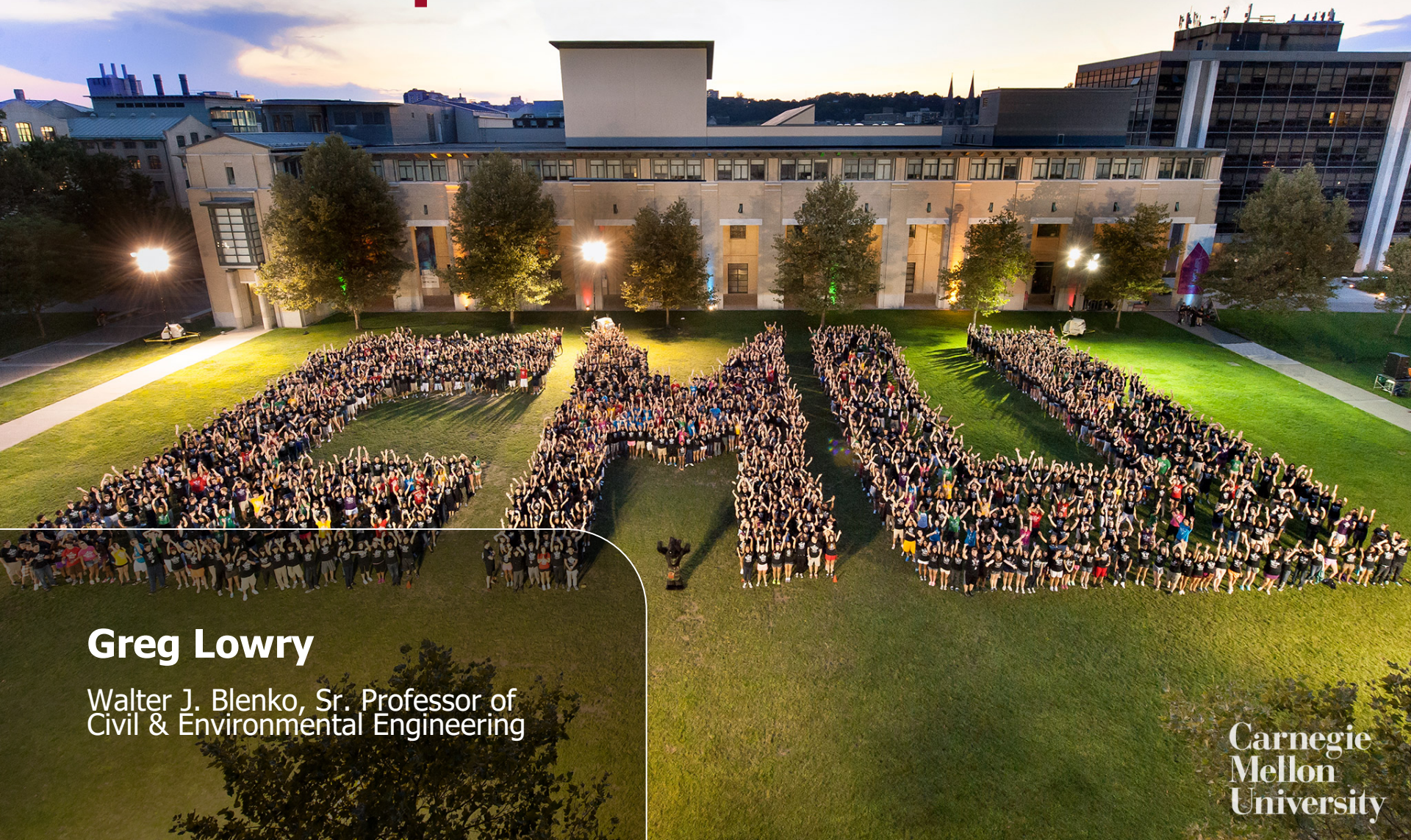


Civil and Environmental Engineering Department Overview



Greg Lowry

Walter J. Blenko, Sr. Professor of
Civil & Environmental Engineering

Carnegie
Mellon
University

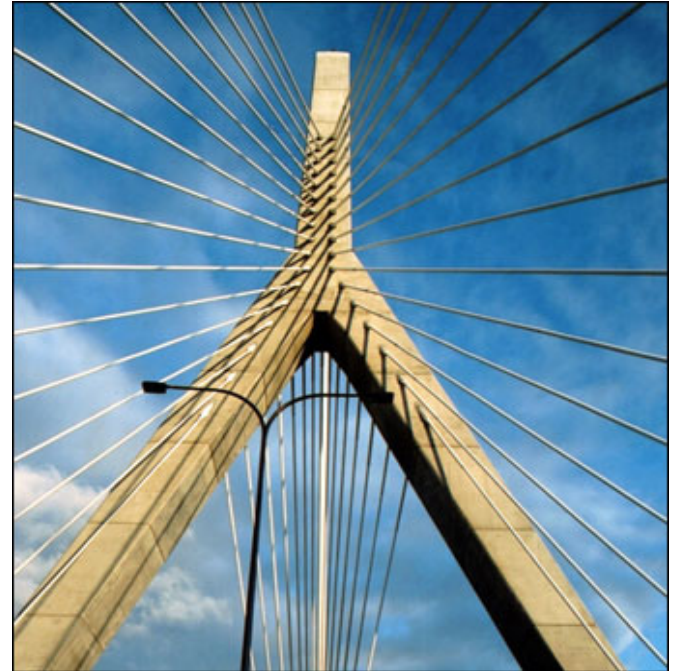
CEE Mission

- Create infrastructure for a sustainable, livable, and equitable world
 - Sustainable, resilient, infrastructure
 - Clean water and air for all
- Achieved through
 - **Innovation** in civil and environmental engineering education and research
 - **Impact of our alumni** in our core research areas
 - A **collegial, collaborative and welcoming environment** in which to learn and work

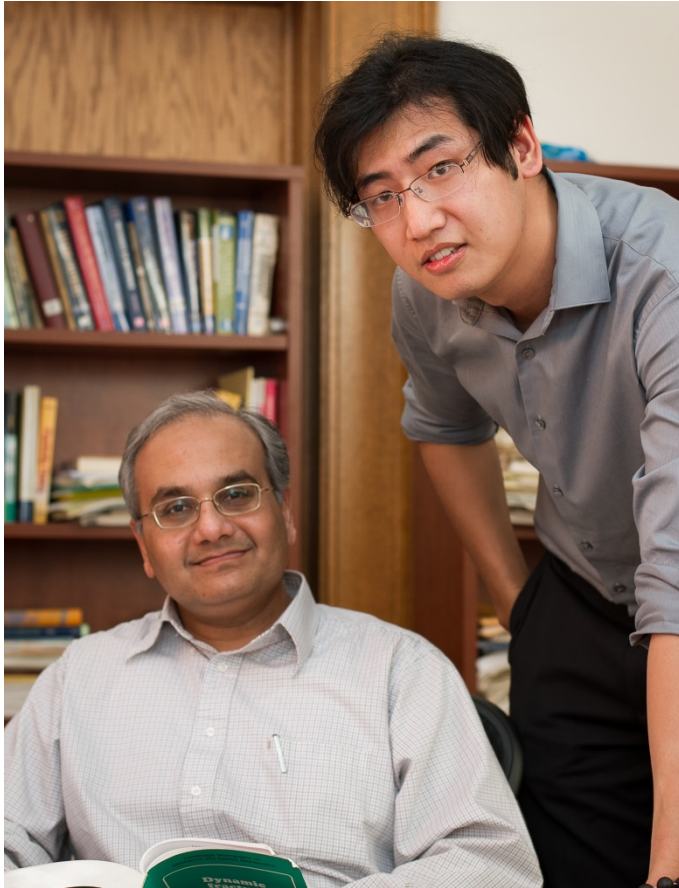


CEE Values

- Our People are our Core Strength
- Respect for All
- Collegiality
- Integrity
- Excellence
- Innovation
- Interdisciplinarity
- Community Engagement
- Continuous Improvement



CEE Faculty/Graduate Student Statistics 2020-21



- 23 Faculty Members
- 69 PhD Students (FTE)
- 110 MS Students (FTE)
- 47% Female Grad Students

CEE: an International Graduate Program

- Brazil
- Chile
- China
- Colombia
- Germany
- Honduras
- India
- Iran
- Israel
- Jamaica
- Mexico
- Nepal
- Nigeria
- Peru
- Portugal
- Saudi Arabia
- Singapore
- South Korea
- Taiwan
- Thailand
- Trinidad and Tobago
- Turkey
- USA

What Makes CEE@CMU Unique?

- Focus in **emerging areas** for the field - unique compared to more traditional departments
- Innovative, **flexible** graduate programs
 - Advanced Infrastructure Systems (AIS)
 - Environmental Engineering, Sustainability, and Science (EESS)
 - Mechanics, Materials and Computing (MMC)
- **Interdisciplinarity** in education and research
 - Cross-listed courses; 6 faculty joint appts (EPP, Arch, Heinz); collaborative research

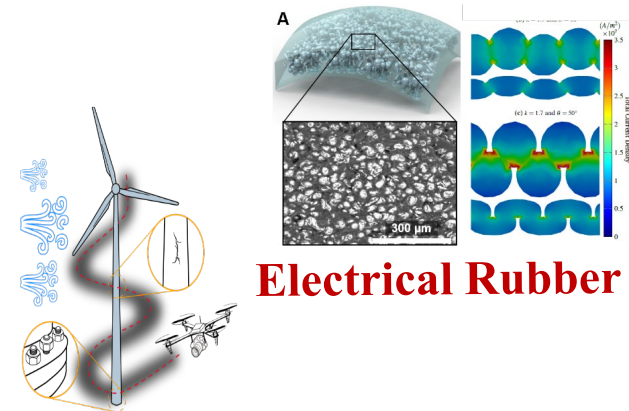
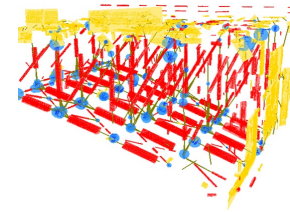
US News & World Report 2021 Graduate Program Rankings



- 8 - Environmental Engineering
- 10 - Civil Engineering
- 4 - College of Engineering

Graduate Focus Areas and Concentrations

- **AIS**
 - Smart Structures
 - Smart Facilities and Infrastructure Systems
 - Smart Transportation /Mobility
- **EESS**
 - Climate Change Adaptation (CERCA)
 - Air Quality Engineering and Science (CACES)
 - Sustainable Water/Remediation
 - Environmental Decision Support
- **MMC**
 - Mechanics, Data Science, and Materials
 - Mechanics, Structures, and Materials
- **Cross-Cutting Programs**
 - Civil and Environmental Engineering Data Analytics
 - Energy Infrastructure Systems
 - Civil and Environmental Systems Engineering
 - Materials for Environmental Systems



Electrical Rubber

Wind-farm Structural Integrity with Robotic Inspections