Civil and Environmental Engineering
Department Overview
Graduate Open House

Dave Dzombak
Hamerschlag University Professor and Department Head
College of Engineering is about ~25% of Carnegie Mellon
CEE is about ~10% of the College of Engineering
CEE Vision

• Continue to achieve national and international recognition through innovation in civil and environmental engineering in education and research,

• Achieve impact of our alumni and our research in three core areas: advanced infrastructure systems; mechanics, materials and computing; environmental engineering, sustainability, and science

• Maintain in our department a collegial, collaborative and welcoming environment in which to learn and work.
Our People are our Core Strength
Excellence
Integrity
Respect for All
Collegiality
Interdisciplinarity
Innovation
Continuous Improvement
Community Engagement
CEE Faculty/Student Statistics 2017-18

• 23 Faculty Members
  - 7 joint appointments
  - dean, 2 assoc deans

• 70 PhD Students (FTE)

• 170 MS Students (FTE)

• 40% Female Graduate Students
Center for Environmental Engineering and Sustainability (CEES)

Carnegie Mellon University
Civil and Environmental Engineering

CEE International Make-Up

- South America: Brazil, Chile, Columbia, Ecuador, Peru
- North America: Canada, Mexico, Trinidad, USA
- Africa: Morocco, Nigeria
- Europe: Spain, Turkey
- Asia: China, Hong Kong, India, Iran, Kuwait, Lebanon, South Korea, Taiwan, Thailand
US News & World Report
2019 Graduate Program Rankings

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

Carnegie Mellon University
Civil and Environmental Engineering
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
  • Environmental Engineering, Sustainability, and Science
  • Mechanics, Materials and Computing

• Systemic interdisciplinarity in education and research
  – Cross-listed courses; 7 faculty joint appts (EPP, Arch, Heinz); collaborative research

• Significant external recognition for work in these areas
  – national awards, journal editorships, conference chairs, competitive in national grant competitions
Graduate Focus Areas and Concentrations

**AIS**
- Advanced Infrastructure Systems Technology Development and Applications
- IT-Based Sustainable Global Infrastructure and Construction Management
- Climate Change Adaptation for Infrastructure
- Air Quality Engineering and Science

**EESS**
- Water Quality Engineering and Science
- Energy Infrastructure Systems
- Sustainability and Green Design

**MMC**
- Computational Modeling and Monitoring for Structural and Material Systems
CEE Social Events

- Kennywood
- Ski Trip
- Arsenal Lanes
- Gateway Clipper