Engineering and Public Policy (EPP)

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What is Engineering and Public Policy (EPP)?

• We work on **policy problems where the technical details matter**

• We work on **science and technology innovation**

• We are highly interdisciplinary ... **technical details are not the only things that matter**
We Have Expertise In...

- **Energy**: decarbonization, deregulation, grid stability and security
- **Environment**: climate change, air pollution, water
- **Privacy and security**: usable security, online crime
- **Risk**: risk perception and communication, behavioral psychology
- **Technological change**: innovation, advanced manufacturing, science policy
- **Telecoms**: internet and cellular, spectrum regulation
- **Developing world**: all of above, connections to CMU Africa
Who We Are

• Faculty
  • Primarily engineers and computer scientists
  • ...but also expertise in economics, business, political science, psychology, decision science, organizational behavior
  • Many joint appointments across campus

• Students
  • Primarily engineers and computer scientists
  • ...but also other technical fields (e.g. physics, applied math)
  • ...and a few others (economics, statistics)

• Emphasis is on merging substantive engineering analysis in broader policy or business context
Our Department Is Unique

- More and more interdisciplinary programs have started in recent years

- We are a full academic department in CMU’s College of Engineering

- Vibrant intellectual community
  - about 65 PhD and 40 MS students
  - 21 professors regularly appointed, many courtesy and affiliated

- We have a 40+ year history of doing interdisciplinary work
Degree Programs

• Master’s in EPP
  • For technical students seeking advanced technical training and wanting to add broader policy, decision, and social analysis skills to their skill set

• PhD in EPP
  • For technical students seeking to become independent researchers doing analysis at the technical-policy interface

• Master’s in Engineering & Technology Innovation Management (ETIM)
  • For technical students to develop specialized business skills to manage innovation and create value
  • “Innovation is about taking good technology and wrapping it in a great business model” (Prof. Jimmy Williams, ETIM Director)
Do I have to work in government? No...

- EPP may be for you if you...
- Work in a highly regulated industry
- Work in an industry that’s in the public eye
- Manage innovation
- Value quantitative policy and decision analysis skills
- Care about how science and engineering interact with rest of society
Thanks

• I hope to see many of you in EPP’s breakout session

• https://cmu.zoom.us/j/95162181881?pwd=SVlSZjdpcVZ1K0pUK2xtb1MrUEdmdz09

• (in case trouble accessing, Meeting ID: 951 6218 1881 and Passcode: 577111)