Global Research

Summary

Motivators

- Global challenges
  - E.g. ocean research program (Minster)
  - water, energy, …
- Local upgrading of capacity/quality/innovation
  - CREATE – Singapore
  - China/India collaborations
  - Qatar (Doha campuses – Texas A&M, Cornell)

Industry Motivation

- Texas A&M – Brazil-Texas corporate connection (KB)
- Total – Photo-Voltaics (J-FM)
- Singapore – "use inspired", knowledge economy – IP (KC)
- IPFGRU (6^{th})
  - Seoul, organized by KAIST, last week
  - Knowledge Creation, Technology Transfer, and Entrepreneurship
  - Declaration – includes (now) fundamental research – "pipeline"
- Issue

Corporate university

vs

Academic freedom

Questions

- Is it different in engineering?
  - there *is no* fundamental research?
- When we discussed Global Research:
  - Once we would talk about PI collaboration
  - Now we hear about: IP sharing

Consider

Is

IP opposed to PI

preferred behavior?

or is

IP a reflection of PI

responsibility

More Motivators

- Dan Mote
  - Multi-disciplinarity – leverage experts
  - Footprint of engineering colleges
  - Cost sharing – infrastructure/HR
  - Global view

Innovation

- *In* Engineering Education
  - Technology, blending, flipping, MOOCs, etc

- *By* Engineering Education
  - Educate for innovation, entrepreneurship
    - Work with business schools