

Industry Collaboration: Perspectives from Penn State

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Preamble

- **Penn State:**
 - Over 82,000 students on 24 'Commonwealth' campuses across PA
 - Main campus is University Park with about 45,000 students
 - University Park is located in Central PA (3-4hrs from Philadelphia, Washington DC, New York, Pittsburgh, Cleveland, etc.)
- **Architectural Engineering:**
 - One of 12 Depts/Programs in College of Engineering
 - About 500 students (400 UG and 100 grads)
 - About 25 faculty (7 of whom are adjunct)
 - **Department was 100 years in 2010 !!!**
- **Degree Programmes:**
 - 5 year B.A.E
 - Integrated B.A.E./M.A.E + Integrated B.A.E./M.S.
 - M.S., M.Eng., Ph.D. in Architectural Engineering

AE Dept.'s Latest Claim to Fame: \$129m Energy Efficient Buildings Research Grant



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Industry Interaction in Teaching

- Practitioner Instructor (PI) Program
- Adjunct Faculty
- Occasional Guest Lectures
- City/Site Visits – Chicago, DC, New York...
- Study Abroad – Rome, Shanghai

Industry Interaction in Research

- Over 50 companies engaged in research as collaborators
- Several companies directly sponsor research
- About 12 companies are partners in EEB Hub (with over 70 others in support roles)
- Partnership for Achieving Construction Excellence (PACE):
 - Fall Roundtable
 - Spring Research Seminar

Industry Placement and Internships

- Penn State has 100% placement of AE graduates
- 90 – 100% of AE students have an internship experience (including Graduate students)
- Graduate interns actively engaged in firms
- AE Annual Career Fair:
 - 125 -150 companies participate
 - Usually in the Fall
 - Minority colleges sometimes participate

New Industry Initiatives

- Integrated BAE/MS Program
 - Industrial graduate fellowships for MS component
 - Loosely based on EngD (Engineering Doctorate) model
- ASAE (Alumni Society) revitalized:
 - Providing mentoring
 - Access to case study materials
 - Etc.

Summary

- Industry routinely involved in Penn State:
 - Teaching
 - Research
 - Placement/Internships
- Scope for greater engagement
- Strong use of AE alumni

Thank You!

Questions

