North Carolina State University

Dr. William Rasdorf

CCEE Department

• 3 BS Degree Programs - (EAC-ABET)
  – Civil Engineering 170 CE
  – Construction Engineering & Management 29 CEM
  – Environmental Engineering 16 ENE
  – 1,000 Undergraduate Students

• MCE, MS, PhD - Civil Engineering
  – 300 Graduate Students

• 13th in program quality (US News & World Report)
CCEE Department

- 40+ Faculty Members
- 3rd Largest NCSU Engineering U/G Program
- 2nd Largest NCSU Engineering Grad Program
- 3rd best buy in public universities
  - (US News & World Report)
- 4.4 M$ in research expenditures 2009-10

Trends

"kids": sharp + aware (responsive to "ads")

- overall: growth
- CEM
  - 9/11 (w/ CE)
  - 25% unempl.
- ENE
  - market
  - "green"

![Enrollment Trends](image)
CFL - Research & Development

- Large Structural Systems
- Construction Materials & Processes
- Geotechnical Engineering Systems

Construction Engineering & Management

- 1964: NCSU - Construction Extension Program
  - established in cooperation with Carolinas AGC
- 1976:
  - Graduate program in CEM grows significantly
  - ABET: Construction Engineering Program Criteria
    - NC State faculty + ASCE, AGC & others
  - NC State BSCEC under new criteria, renamed
  - BS in Construction Engineering & Management (CEM)
Construction Engineering & Management

• 1980: CE Distance courses offered
  – College of Engineering’s Master of Engineering (MoE)

• 2000: Distance courses increase; more CEM
  – improvements in technologies and demand

• 2002: Master of Civil Engineering, distance only
  – approved by Graduate School
  – Construction Engineering & Manag’t - 1 of 5 specialties
    • about 50 CE courses taught - students in 28 states

Outreach

• Engineering On-Line
• Construction Extension
  DOD, DOT, CM diploma

Distance

Extension
  about 60 short courses & workshops per year
  with about 2500 industry attendees
Construction Engineering & Management

• Faculty:
  – David Johnston - retiring in December
  – Mike Leming (NCSU ’77)
    • Coordinator of Advising; CEM Program Coord'r
  – Min Liu
  – Extension Specialist - Roberto Nunez

looking for more

Construction Engineering & Management

• Topics
  – Construction Materials; Soils; Steel; Concretee…
  – Construction courses:
    • Time Value of Money; Decision Making
    • Estimating
    • Planning and Scheduling
    • Legal Aspects of Construction
    • Construction Equipment & Methods
    • Building Construction
  – Others (Mech-Elec; accounting, econ, …)