Please help me remember our friend and colleague, Roger Schmitz, and his wife Ruth.
First and Foremost,

Thank you to all of our faculty, staff, and students for another outstanding year in which the quality, size, and impact of our programs have continued to grow.
Overview of Talk

① Summary of our growth
② Challenges
③ Strategic plan
④ Campaign and funding plan
⑤ Questions and answers
At Notre Dame, consistent with our Catholic identity, we engineer a peaceful, healthy, and sustainable world.
Snapshot 2014

- 124 T/TT Faculty
- 330 Senior BS Degrees
- 30 Filled Endowed Chairs
- 550+ Graduate Students
- $41 M Research
- 62 PhD’s
- 1600+ Undergrads
Total Enrollment

YEAR

2 3 4 5 6 7 8 9 10 11 12 13 14

ENGINEERING ENROLLMENT

Soph-Sen
First Year
BS Degrees

YEAR

BACHELOR DEGREES GRANTED
PhD Degrees

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Engineering Research – World Class

① Computational and Data Science and Engineering
② Electronic Materials and Devices
③ Natural Hazard Mitigation
④ Flow Physics and Control
⑤ Sustainable Energy: clean fossil, wind, solar, nuclear
⑥ Diagnostics, Lab on Chip, Precision Medicine
⑦ Biometrics
⑧ Wireless
⑨ Cyber Physical Systems, Control and Systems
Recent Hires: 2013-2014

- Amy Hixon – CEEES
- David Richter – CEEES
- George Mavroeidis – CEEES
- Timothy Weninger - CSE
- Joel Boerckel – AME
- Melissa Burke – CEEES
FY 2014-2015 Offers

• Ken Christensen - AME
• David Chiang - CSE
• Jon Whitmer – CBE + AOV
• Jennifer Schaefer – CBE + AOV
• Tom Degnan – CBE + AOV
• Nasim Annabi – CBE + AOV
FY 2014-2015 Offers

- Tom Juliano - AME
- Hirotaka Sakaue – AME
- Zhangli Peng – AME + AOV
- Kyle Doudrick – CEEES
- Dong Wang – CSE + AOV
- Chaoli Wang – CSE + AOV
FY 2014-2015 Offers

• Soumyajit Mandal – EE + AOV hire
• Pinar Zorlutuna – AME

Record hiring year (14 faculty) but placing very large strain on financial resources and available space
Game Plan 2020

- 150+ T/TT Faculty
- 400+ BS Degrees
- Nine (9) Engineering Buildings
- Community Partner
- More Interdisciplinary Major Centers
- $80 M Research Expenditures
- USNWR Top 30 Ranking

The College of Engineering
at the University of Notre Dame
How do we get there:

① Space – Research Complex I and II
② Research Centers – Proposal support, build on strengths, broad impacts, more shots on goal
③ Junior Faculty Mentoring
④ Endowments for Chairs
⑤ World class faculty hires at senior level
⑥ Endowments for Excellence
⑦ PhD Fellowships
How do we get there (con’t):

⑧ Using EfEs for Staff and Creating Release Time
⑨ Continuing to Innovate in our Educational Offerings: More experiential learning, leadership, community engagement, entrepreneurship
⑩ Partnering with South Bend to make City more attractive
Capital Campaign Update

• Jay Jordan Science/Technology gift $75M
• Two new $5 M gifts in Engineering Merit Scholarships
• New endowed chair gifts
Campaign Goals

- Research Complex Phase 2
- Cluster Hires in Bioengineering, Computational and Data Sciences, Materials
- Additional Chaired Professorships
- PhD Graduate Fellowships
- Teaching Faculty Hires
- Strategic Research Area Support
- MEP/WEP
- Undergraduate Teaching Lab Fund
Biomedical Engineering Department

- Keeling & Associates Consultation
- Report Due Late Fall 2014
C-SWARM

• $10M over 5 years (ND, IU, and Purdue)
• Paolucci, Matous, Tryggvason, Kogge, Powers, Mukasyan, Lumsdaine (IU), Sterling (IU), Son (Purdue)
• 33 initial submittals, 6 chosen for funding after 3 rounds
Summer Abroad
Summer Abroad

- 4 Programs
- 151 Students (+300%)
- 6 Faculty (+100%)
Engineering Leadership and Community Engagement Program

• Connecting deeply with South Bend
• Strategy to enhance the City (includes entrepreneurship, Research Institute, partnering with small to medium companies)
• Leadership program: whole person and T-shaped students
• Joint Engineering Council pilot behaviors model
• Leadership modules in FYS and Senior Design core engineering classes enhances student team effectiveness
• Distinguished engineering leaders speaker series
• Academic community engagement service projects
Questions/Comments?