1. Today: Profile Packets placed in attendance folders earn +1 bonus!
2. Speaker next week: Prof. Jim Jones, ME opportunities
3. Also next week: All additional Profile Packets are due next week; Video Assignments are also due—please use .wmv format.
4. All remaining assignments—posted on ME Blackboard with due dates!
5. Today: Global opportunities and…a writing sample in class (last 15 minutes).
Caterpillar welcome in Wuxi China R&D Center January 2015—class size semester program!
Purdue ME’s in Cat’s CRDC
Wuxi January 2015

3D Immersion and more...
Integration has been core to the design of “ME Global”—Initiated by E. D. Hirleman--Head of ME in 2000 when zero (0) ME’s “studied abroad. “
ME School Global Initiatives

Different and strategic approach: global skills are essential.

Global experience for “all students,” not just the few.

Encourage every student to find a way to include international programs in their particular Plan of Study.

Offer multiple paths for obtaining global experience:

- **Global Design Teams**—Cameroon and others, 10 days or so in country, multiple semester design project on campus

- **Short courses**—Winter Break (India), May-mester (China), 5-7 week summer commitments (Germany)

- **Semester programs**—Engineering Terms Abroad (ETAs), semester plus summer internship (GEARE)
Added to ME School Curriculum

› Global Engineering Professional Seminar—for new students in the School—only one with “global” focus
  - Current readings—global markets, globalization...and “The Second Machine Machine Age” (Brynjolfsson)
  - Interactions with ME students returning from international programs around the world,
  - Partner companies—guest presentations

› Global Internship Opportunities Connections to ME alums with international experience in multinationals through Office of Professional Practice, Office for Industrial Experience
Goal: Multi-dimensional Global Competency

- **Academic components**: global markets, design for diverse populations, intercultural communications and collaborations, awareness of diverse patterns of development and differences in communication styles, reading about current events and on-going processes of globalization.

- **Language/culture**: option to build on previous language study; China ETA includes one semester Chinese, GEARE requires 4 semesters language study.

- **Global experience**: Global Design Team, Short Course, Summer Term, Semester Engineering Term Abroad, Semester plus Summer Internship.
Engineering courses abroad are taught in English with local students enrollment—an attractive proposition for outstanding students in our partner universities.

Credit equivalencies established in advance and Designed to fit into Purdue academic calendar.

- Example: Add January & February module to Chinese (International) academic calendar
- Students can complete on-going co-op and internship obligations on Purdue calendar.
Largest program—Engineering Terms Abroad—class-size in China at SJTU

› Designed to enable student participation
  - Credit equivalencies established in advance
  - Designed around Purdue academic calendar

• Example: Add January & February module to Chinese (International) academic calendar

• Students can complete on-going co-op and internship obligations on Purdue calendar
Currently, industrial experience prior to graduation is obtained by more than 90% of our ME students.

We expect to also reach that saturation point for global experience:

- *We have the advantage of a diverse student population—that helps here at “home”*

- *Currently about 35% of our Bachelor of Science in Mechanical Engineering students have global experience.*
We have a diverse international student enrollment.
Currently: about 35%--and growing—of our graduating class has significant global experience
Cumulative curriculum

› Target **junior year**, especially second semester—semester 6

› ME Faculty work with **colleagues on-site**, reviewing course topics, syllabi, lab components

› Ensure “follow-on” course experience smooth

› Preserves capstone senior year design and job search opportunities for **final year** in program
Purdue Travel Awards:

› $1,000 for short-term programs

› $2,000 for summer programs

› $3000 for semester or longer programs

- Especially important to off-set air fare and other relocation expenses
Current investments—a focused approach for Purdue ME Global:

› **China**—second largest economy, fastest growing; class-size program in Shanghai with Shanghai Jiao Tong University

› **Spanish-speaking** sites (80% of our students have some Spanish language): Madrid (expensive), Colombia (less expensive)

› **India**—high-tech, English-speaking, growing—partnerships available

› Visit: ME Curriculum page for POS, Global Engineering Programs, Purdue Study Abroad!