Engineers Without Borders-USA
MN Professional Chapter

Pathways to Involvement for Professional Engineers

CEAM Annual Conference

January 30, 2014
EWB-USA Organization

- Community driven development through sustainable engineering practices
- 13,800 volunteer members
- Over 300 chapters (in the United States)
  - Professional chapters
  - Student chapters
EWB-USA Development Model

- Partner with an in-country NGO
- Minimum 5-year commitment from implementation
- Varying projects in scope and scale
EWB-USA MN Professional Chapter

- 30-40 registered members from varying disciplines
- Established c. 2005
- Provide Mentorship to the U of M – Twin Cities Chapter and other campuses in Minnesota

“5 billion people on the planet live below the poverty line. It is no longer an option for engineers to address the needs of these people, it is an obligation.”

– Dr. Bernard Amadei (Founder of Engineers Without Borders)
Active Programs

- Agua Caliente, & Simajuleu Guatemala (Prof.)
  - water supply/hydraulic ram pumps
  - water distribution system

- Sulaco, Honduras (Prof.)
  - water supply system design complete

- Kalisizo, Uganda (UMN)
  - rainwater harvesting completed in nearby community
  - water source treatment and infrastructure

- Yulo, Bolivia (UMN)
  - Water resources emphasis
Program Needs for Mentors

- Technical support and guidance on engineering projects
  - Variety of project types...or at least a variety of skills needed

- Interested in project travel. Will sleep in hammock.
  - Manual labor and providing direction
  - Unique travel experience to another country

- Project management and communication
  - Students
  - Community
  - NGO
Mentorship – Technical Support
Mentorship – Project Travel is Hard Work...
...and Full of Unique Experiences!
Mentorship – PM and Communication
Additional Involvement Options

  - Multiple documents are required for program activities

- Support for TAC meetings and approvals
  - Practice TAC attendance as a fresh set of eyes

- Email distribution lists and project resources
  - Can stay involved with the program progress
  - Provide technical resources on specific topics
Please contact our chapter if you are interested in joining us