From Research to the Real World: My GSCP Experience

Andrew Mang
17 May 2019 | University Politehnica Bucharest
Disclaimer

• Views mentioned here are strictly my own and do not represent the views of any of the following institutions or companies:
  • Aswanet Rwanda Ltd.
  • The Inogen Environmental Alliance or any Inogen Associates
  • Duke University
  • University Politehnica Bucharest
  • The National Academy of Engineering
Who am I?

2008 Duke University 2012 yext 2017 aswanet 2019 aswanet

Grand Challenge: Provide Access to Clean Water
My GCSP Experience - Duke

• Engineers Without Borders – Uganda
  • Community assessment trip – Summer 2010
  • Technical Survey – Summer 2011

• Independent Research – Dr. Josiah Knight
  • Researched a new kind of handpump for rural villages

• Duke Startup Challenge
  • Participated in Social Entrepreneurship track
Importance of the GCSP

Observation 1: A unified area of focus across the different pillars of the program creates a much deeper understanding of complex global issues than exploring those pillars separately

• No technical problem exists in a vacuum!
  • Social context
  • Business/Financial context
  • Policy context
Importance of the GCSP

**Observation 2:** Scholars quickly develop knowledge and experience normally held only by people with years/decades of experience in a given field

- People with strictly technical knowledge can only participate in tactical discussions about very specific problems
- People with broader knowledge can participate in strategic discussions about global trends and future planning
Importance of the GCSP

Observation 3: The future is TODAY – these problems are urgent!

• Governments, corporations, and other stakeholders are already considering different Grand Challenges in their long-term planning!

• Most of the useful advisors with applicable knowledge are at retirement age
Future of GCSP and Global Promotion

• GCSP should become the standard for global education

• Global problems are local problems and require local solutions – localization and spread of GCSP must happen!

• Outreach to GCSP alumni can help develop and refine programs
Contact

Andrew G. Mang

+1 952 237 9225
amang@aswanet.com
andrew.mang@alumni.duke.edu
Skype: andrewgmang