

## **2018 GCSP Annual Meeting Idea Board**

### **How can the GCSP network office support you, your program, or your students?**

- Exchange field experience among students – University of Rome, Italy
- Providing small grants to fund outreach activities to schools, industry, multicultural activities, etc.
- Create central online space for GCSP portfolios to live – promote GCSP – share example portfolios with others – track outcome
- Alumni/professionals involve with GCSP, come and speak at schools for recruitment
- Advertise how the program benefits students
- Alumni network / database or a better communication system for graduates
- Student internships and research opportunities at ORNL
- Increased corporate connections
- Provide suggestions for achievable projects that scholars can undertake and complete
- Recruitment / mission video with student experience sharing
- Provide a nice NAE certificate that we can award to graduates
- Create a portal on GCSP website for students to register and stay connected with others
- Brand the program as prestigious and valuable to the student experience
- Micro grants to support building infrastructure
- Opportunities for students to apply for support to help offset some costs associated with attending the GC summit events
- Continue connectivity with other GCSPs in relevant locations (regional) and in general

### **What unique or exciting activities on your campus support or align with the GCSP?**

- Recruit undergrad students who are already working in research labs in the university
- Texas Tech requires all undergrad engineering students to study abroad
- McMaster University – MacChangers
- Interdisciplinary capstone and senior design with business and design school
- Vertically Integrated Projects – credit-bearing, peer-mentored research experience – multidisciplinary
- Humanitarian engineering / social entrepreneurship study abroad in Guatemala
- Oregon State University college of engineering leadership academy
- Trip to Iceland to study renewable energy technologies and utilize entrepreneur skills (partnered with the GREEN program)
- Honors pathways programs at Michigan Tech
- North Dakota State University, Fargo – we offer GCSP as a transcriptized honors in engineering – offer a one-credit seminar course in the freshman year
- Global projects program at Worcester Polytechnic Institute
- Grand challenge scholars alliance
- Campus changemakers project solve sustainability problems on campus
- Have an induction function for new GCSP students
- Socially engaged engineering and computing institute
- Grand challenges grand council student steering organization
- Field study abroad in Central America and east Africa – University of Rome
- Engineers Without Borders (EWB)
- Miami University center for assisted technology

- Make approved proposals easy to find on the complex website
- University of Texas Arlington Maverick Advantage: 1. Study abroad 2. Undergrad research 3. Leadership 4. Community engagement 5. Career advantage
- Montgomery College (community college) get students started so they started about GCSP and start on their competencies to bring to the transfer university

#### **How can we better connect GCSP to form a vibrant network?**

- Make a listserv
- Faculty sharing resources (syllabi, modules, etc.)
- Graduate research opportunities and partnerships (somewhat like the VEST scholars program)
- A GCSP session, maybe a plenary at ASEE annual meeting to share with large number of institutions
- Graduate research opportunity / partnerships shared across the network
- Provide events to meet / connect with GCSP scholars from other universities
- Include more NAE members at respective universities!
- Engineers Without Borders – University of North Dakota
- Monthly intercollegiate newsletters
- Platform to engage GCSP alumni
- Create regional groups of GCSP programs for better engagement
- Awareness in high school to first entering college
- Arrange “study around” for students to study / do research at other GCSP universities (at “no” cost)
- Connected campuses
- Common challenging field study together – University of Rome, Italy
- Make annual meeting attendees and contact information available

#### **What grand challenge inspires you?**

- Providing clean drinking water
- Engineer better medicines
- Better infrastructure!
- Clean energy for all – University of Rome, Italy
- Provide energy from fusion
- Engineering tools of scientific discovery
- GCSP study abroad program
- Making solar energy affordable ALL \*renewable \*global \* energy \* access \*equity \*climate \*environment
- Better education for all!
- Improve urban infrastructure (specifically in Hamilton, Ontario, Canada)
- Better territories
- Make solar energy economical!!!!
- Improved healthcare and subsequent quality of life
- Disease modeling for neurodegenerative diseases
- Oceans for econ, energy, food/feed
- Manage nitrogen cycle