GCSP Workshop August 8, 2019 Belo Horizonte, Brazil

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Workshop Objectives (Learn, Reflect, Write)



Understand the Grand Challenges of Engineering (GC) & their importance; and the Scholars Program (GCSP) elements and requirements



Realize the required elements to create a successful GCSP in your institutions Start writing a GCSP proposal to be submitted to the US National Academy of Engineering

[action!]



Workshop Logistic

- Reflection, brainstorming, writing. Make notes.
- Informal atmosphere: question, stand up, share, take break as needed.
- If you are here with a team from your institution, please sit together.
- You may also want to sit near others from your region in order to discuss potential partnerships.



Individual Exercise – 3 minutes

List the top 10 global challenges



The World's Grand Challenges

The US NAE Grand Challenges for Engineering The UN Sustainable Development Goals

The WEF World Grand Challenges

Activity: Please write down those that you think are important for your city/region/country

NATIONAL ACADEMY OF ENGINEERING FOR ENGINEERING

Sustainability

Energy Environment Global Warming

Security

Reducing Vulnerability to Human and Natural Threats

<u>Health</u>

Improve Medicine and Healthcare Delivery

Joy of Living

Expand and Enhance Human Capability



NATIONAL ACADEMY OF ENGINEERING

The UN Sustainable Development Goals



https://www.un.org/sustainabledevelopment/sustainable-development-goals/

WEF 10 Biggest Global Challenges

- 1. Agriculture & Food Security
- 2. Economic Growth & Social Inclusiveness
- 3. Climate Change
- 4. Environment & Natural Resource Security
- 5. The World of Work
- 6. The Future of the Global Financial System
- 7. The Future of the Internet
- 8. Gender Parity
- 9. International Trade & Investment
- 10. Long Term Investing, Infrastructure & Development

https://www.weforum.org/agenda/2016/01/what-are-the-10-biggest-global-challenges/



Group Exercise – 10 minutes

Consider all the Grand Challenges shared and the individual list you have.

Review your notes and as a group, select the top 5 challenges for your city/region/country.

Are there other grand challenge(s) not on the list that you think are pertinent for your city/region/country?



Exercise – 15 minutes

On a scale of 1 to 10, assess your institution's readiness in the 5 key "competencies" of the GCSP.

Research/Creativity

Mentored research or project experience to enhance technical competence



Multidisciplinarity (curriculum)

Understanding of the multidisciplinary character of implementable solutions



Business/Entrepreneurship

Understanding that viable business models are necessary for successful implementation



Global/Multicultural

Understanding that serious consideration of cultural issues is mandatory for all viable solutions



Technical depth

Breadth

Viability

Planetary mindset

Desirability

served by the GC



Launching and Implementation

Creating an Operational Document -- that is, drafting your GCSP proposal



Proposal Contents

- Cover page with the name of the candidate school, name and signature of the engineering dean, name and signature of the GCSP director, and the GCSP director contact information.
- GCSP vision for your school, noting existing and planned GC-related activities, program administration, program funding, etc.
- GC Scholar selection and support, including anticipated number of students involved, selection and training of faculty mentors, assisting students with completing the GCSP requirements, securing funding for GCSP initiatives and student activities, etc.
- Execution and completion of the five GC program competencies at your school.
- Assessment and tracking of the GC scholars, including promotion of early student engagement in GC-related activities, as well as fostering intramural and extramural networking among GC scholars.



Describing Your Institution and Goals





Articulating Your GCSP Goals

Your GCSP Goals

My institution is creating a GCSP because...

A successful GCSP at my institution would...

A GCSP could help my institution to ...

Our students would like a GCSP because...

Grand Challenge Scholars Program



Realistically Assessing Your Situation





Recognize Institutional Obstacles



Constraints and Obstacles

A GCSP at my institution would have to...

It will be hard to create a GCSP because...

Grand Challenge Scholars Program



Planning GCSP Options

		GRAND CHALLENGES
Interdisciplina	ary Curricolum	
Entrepreneurs	ship	
Olobal Vincens	ion	
Service Learn	ing	
Grand Challen	nge Project	
	Grand Challenge	e Scholars Program



Essential Characteristics of a Good GCSP

- 1. Selecting a **diverse cohort** of engineering students
- Educating students with appropriately innovative and institutionally tailored GCSP experiences (to include <u>curricular</u>, <u>co-curricular</u> and <u>extra-</u> <u>curricular</u> opportunities, as well as <u>multiple paths</u> for completing requirements for each competency)
- 3. Building thematic connectivity into each student's scholarly plan
- 4. Establishing a well-designed GCSP administration



Grand Challenges Scholar Selection

Objective: Identify a diverse cohort of students that will be educated to design and create solutions to the NAE Grand Challenges and grand Challenge-like problems.

- Each GCSP will determine how student selection is best accomplished within the mission and character of the individual school. In general, students selected for a GCSP should
 - 1. be a student in good standing, (as determined by the institution)
 - 2. be committed to the Grand Challenges, and
 - 3. be aware of the importance of social and local & global issues.



GCSP Activities

Objective: Acquire and integrate the engineering and non-engineering curricular, co-curricular and extra-curricular expertise necessary to tackle a Grand Challenge theme or specific Grand Challenge problem.

- The 5 competencies:
 - Each individual GC Scholar's trajectory must be deep, broad and coherent in terms of its connection to the Grand Challenges and mechanisms should be in place to track and assess student performance on each component in each individual program.
 - Well-designed and well-documented meta-curricular activities.
 - Continuous mentorship



Thematic Connectivity

Objective: Ensure thematic connectivity across the five program components and a Grand Challenge theme or a specific Grand Challenge problem.

- Awareness of unintended consequences, responsible conduct in research, and ethical considerations should be embedded across the five components.
- It is recommended that each GC scholar select or be assigned a GC advisor to monitor student progress and ensure thematic continuity and connectivity.



Administration

- Institutional level the Steering Committee
 - The dean and director of the institutional GCSP collectively govern
- Responsibilities
 - promote the GCSP
 - recruit new GCSP members (students, faculty, partners)
 - oversight of implementation, individual student and programmatic assessment
 - prepare the annual report to the NAE
- Each GCSP is also required to establish institutionally-tailored criteria and mechanisms for assuring that all Grand Challenge Scholars comply with the goals and spirit of the program.



Your Proposal

- Review 2-3 examples of successful proposals from the list: http://www.engineeringchallenges.org/File.aspx?id=31133&v=20d87b6e
- Start drafting your proposal (digital or paper), starting with why/what, then who, when, and how
- You will have the rest of the morning to work
- We will ask a couple of teams to share the major elements of their proposal



What happens after today?

- Find partner universities (if needed)
- Develop a draft proposal idea
- Share the idea and plans with deans, colleagues, and students
- Continue refining your proposal with the help of an assigned mentor
- Follow the process outlined by the GCSP to submit your proposal



Steps for Developing a Strong GCSP Proposal Unique to Your School The Grand Challenges Scholars Program (GCSP), inspired by the NAE Grand Challenges for Engineering, reflects the rapidly evolving nature of engineering education. The GCSP calls for developing five critical competencies, namely **Talent**, **Multidisciplinary**, **Entrepreneurship**, **Multicultural** and **Social Consciousness**. The following steps will guide you as you develop a strong GCSP proposal that is unique to your school and delivers the five competencies to your students.

- The first step to develop a new program and to get more information is to get in touch with either the GCSP Network Office - Dr. Rama Ramakrishna at <u>RRAMAKRISHNA@NAE.EDU</u> or GCSP Proposal Review Committee – Dr. Katie Evans at <u>KEVANS@LATECH.EDU</u>. We will connect you to resources, assign a mentor if you wish and help you in every way as you prepare your GCSP proposal.
- Start developing a GCSP proposal, using the operational document template as it walks you through each step of creating a GCSP and offers suggestions.

http://www.engineeringchallenges.org/File.aspx?id=20142&v=83c13f48

You will find it helpful to review the operational documents of the existing programs.

http://www.engineeringchallenges.org/File.aspx?id=31133&v=ede1a614

The rubric the committee uses to evaluate proposals can be found at the following link.

http://www.engineeringchallenges.org/File.aspx?id=31944&v=948830c4

- 3) Begin with painting the picture of your university and its unique ecosystem, the strategic vision/goals of the school and describe how it is in alignment with GCSP vision. Take full advantage of all the strengths and existing resources at your university. The uniqueness of your program should come out clearly as you articulate how you will be able to leverage existing programs, industry connections, international partnerships, etc. to deliver the 5 required competencies to the students.
- Develop a good plan for recruiting students it is recommended that the students start thinking about GCSP in their freshmen year. Create an infrastructure to support and advise GCSP students through all 4 years.
- 5) In your proposal, communicate clearly, what is expected of students to graduate as GCSP scholars. We encourage you to consider that students write a short reflection paper to describe how their activities across the 5 competencies are connected to the grand challenge theme and combine to provide a richer and more coherent educational experience.
- 6) We will assist you to tailor your proposal to the needs and strengths of your institution. Email your operational document proposal to Dr. Katie Evans at <u>KEVANS@LATECH.EDU</u> for review.
- 7) Once the proposal is accepted, you are officially a member of the NAE GCSP network!





Rubric for Evaluating GCSP Proposals

 B. 1. Clarity of the vision/mission of school 2. Articulation of alignment between institution and proposed local GCSP goals 3. Explicit mention of the four themes of the NAE grand challenges and any restriction on themes that may be pursued in the proposed GCSP C. 1. Plan for scholar recruitment and selection of a diverse cohort (including if appropriate a plan for seamless integration of students transferring from community colleges into their GCSP) 2.a. Does the proposal make clear the requirements and expectations for students to demonstrate each competency? Has the institution articulated the minimum activity level required to satisfy each competency and given consideration that options are comparable in terms of student time/engagement? 2.b. If applicable, detail of courses/modules/subjects that are key in supporting a scholar's journey in the attainment of the 5 competencies. This includes the outline of the course, its assessments, associated rubrics, etc. 2.c. Process for students to demonstrate how the depth and length of time of their experience(s) support fulfilling competencies. Note: Well-designed meta-curricular experiences could contain aspects that satisfy more than one of the competencies. 3. Demonstration of how continuity and connectivity of the five competency areas of student activity are aligned with the grand challenge topic or theme 4.a. Plan for program and student assessment 4.b. Processes for tracking students and determining if students are in good standing in the program 5.a. Strength of the administrative structure to support local GCSP governance (must have a director, steering committee recommended) 5.b. Are there sufficient resources for program sustainability? (e.g. support for mentoring, advising, student community, research, service, annual meeting) 	А.	Cover Page with required endorsements		
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 5.a. Strength of the administrative structure to support local GCSP governance (must have a director, steering committee recommended) 5.b. Are there sufficient resources for program sustainability? (e.g. support for mentoring, advising, student community, research, service, annual meeting,) 		the program		
have a director, steering committee recommended) 5.b. Are there sufficient resources for program sustainability? (e.g. support for mentoring, advising, student community, research, service, annual meeting,)		5.a. Strength of the administrative structure to support local GCSP governance (must		
5.b. Are there sufficient resources for program sustainability? (e.g. support for mentoring, advising, student community, research, service, annual meeting,)		have a director, steering committee recommended)		
mentoring, advising, student community, research, service, annual meeting,)		5.b. Are there sufficient resources for program sustainability? (e.g. support for		12
	mentoring, advising, student community, research, service, annual meeting,)			
6. Plan for mentoring GCSP students and faculty		6. Plan for mentoring GCSP students and faculty		1
				2
7. Plan for recognizing students upon program completion	7. Plan for recognizing students upon program completion			
D./E. Unique Aspect and Other Information (if applicable)	D./E. Unique Aspect and Other Information (if applicable)			
Specific Checklist Items for 2-year Colleges Only	Specific Checklist Items for 2-year Colleges Only			
Plan for dealing with the challenges of reduced time (e.g., must advertise, identify, recruit				
participating scholars more quickly than most 4-year programs)		1		
Plan for smooth transfer of scholars to GCSP programs at receiving 4-year institutions?	Plan for smooth transfer of scholars to GCSP programs at receiving 4-year institutions?			



Thank You! Muito Obrigados!