GLOBAL CONNECTIONS

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NAE GRAND CHALLENGES FOR ENGINEERING

14 Grand Challenges for a sustainable, economically robust, and political stable future

GCSP - Educating the future leaders of the NAE Grand Challenges

Five Components:
1. Research
2. Multidisciplinary
3. Entrepreneurship
4. Global Dimension
5. Service Learning

GLOBAL DIMENSION:
- The Grand Challenges are GLOBAL (one common planet)
- Preparing students to work on global problems - anywhere in the world!
- Global Awareness is not enough-deeper understanding of the local context is needed (cultural, political, social, ethical, economic)

GLOBAL CONNECTIONS
GLOBAL DIMENSION
(GCSP Preparing students to work on global problems - anywhere in the world)

I) Key considerations:
• Diverse context (cultural, political, social, ethical, economic)
• Challenges are context-specific
• Solutions must be appropriate to the local context (context-sensitive) and include the people of the region.
• Technology should be integrated with society
• Diverse ways of understanding Globalization

II) Current approaches (delivering a multicultural/global experience)

Abroad
• Study Abroad - Exchange programs (degree seeking, visiting, summer immersion)
• Projects and Co-op abroad
• Faculty-led overseas research
• Establishing campuses abroad

At home:
• Global Studies Courses, Workshop, Webinars Internships/Co-op with Multi-national Corp
• Research/Projects of global relevance
• Organizations with Global reach (i.e. EWB)
• Global oriented activity on/outside campus
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Building Global Connections – Generating Global interest and adoption of GCSP

• International Academic Institutions
  (Research and Educational collaborative programs, student exchange)

• Global or International Regional Networks
  (e.g. IFEES -International Federation of Engineering Education Societies, GEDC- Global Engineering Deans Council, GINET-Global Innovation Network for Entrepreneurship and Technology, IUCEE - Indo Universal Collaboration for Engineering Education, ISTEC – Ibero-American Science and Technology Education Consortium, etc.)

• Global Organizations of similar goals
  (e.g. UN SDGs, World Bank, USAID, UNESCO, OAS, etc.)

• Global/Multi-national Corporations

• Foreign Governments (developing countries)
Thank You