Synergy between the GCSP and Aligned Programs

Engineers without Borders – International

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EWB-I President 2014 – 2018

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Engineers Without Borders International (EWB-I) is an international association of national EWB/ ISF groups.

EWB-I helps the member groups develop their capacity to assist developing communities in their respective countries.
**EWB-I VISION**

A sustainable world where engineering enables long term positive social and global development for the benefit of people and the environment everywhere.

**EWB-I MISSION**

To be the beating heart of the engineering movement for sustainable global development, building and evolving engineering capacity throughout the world.

**EWB-I APPROACH**

Promoting collaboration among our members so that collectively we achieve more than the sum of our parts. EWB-I recognizes that addressing the challenges of sustainable global development requires the expertise, innovation, resources and problem-solving skills existing in the global engineering community.
Global coverage of EWB International

65 Member Associations

By the Human Development Index:
• 27 MA’s from Very High Countries
• 13 MA’s from High Countries
• 13 MA’s from Medium Countries
• 12 MA’s from Low Countries

Professional and Student Chapters in many countries.

Today’s Reach – over 150,000 young, excited, inspired, engineers of tomorrow!
CONNECTING PEOPLE:
• Forums / Networks / Knowledge
• Partners’ projects between EWB Member Associations

PROVIDING STRUCTURES & SYSTEMS:
• 501C in the USA
• Funding through grants
• Strong support by interested corporations and companies

EFFECTIVENESS AND ACCOUNTABILITY:
• Impact and scale of change
• Efficiency
• Feasibility / Risk
• Capability to deliver
EWWs produce Engineers that are:

- Systems thinking
- Socially minded
- Having global perspective
- Having strong leadership
- Understanding complexity
- Having better communication

Undergraduate engineering students actively participate on the projects incorporating the experience in their formal courses and new projects.

Tomorrow’s Reach – Million’s of young T-shaped Engineers!

Every engineer is an agent of change to create a just and sustainable society.
ENGINEERS HAVE THE POWER TO change THE WORLD.
Synergies with the Grand Challenges Scholars Program

- **Talent Competency**: mentored research/creative experience on a Grand Challenge – like topic, much like EWB programs
- **Multidisciplinary Competency**: understanding multidisciplinarity of engineering systems solutions developed through personal engagement
- **Viable Business/Entrepreneurship Competency**: understanding, preferably developed through experience, of the necessity of a viable business model for solution implementation.
Synergies with the Grand Challenges Scholars Program

• **Multicultural Competency**: understanding different cultures, preferably through multicultural experiences, to ensure cultural acceptance of proposed engineering solutions.

• **Social Consciousness Competency**: understanding that the engineering solutions should primarily serve people and society reflecting social.

• **Already Established Cooperation**: EWB Hong Kong is running the “EWB Global Citizenship Program” supported by 4 universities in Hong Kong. This is one of the recognized programs by City University of Hong Kong which has the GCSP program at the same time.

• **EWB GCP** has been presented on the GCSP Workshop, organized in August 2018 in Hong Kong.
Synergies with the Grand Challenges Scholars Program

**Partnership with EWB USA is under development:** jointly developing a system to process GCSP outcomes:

- **Central Steering Committee** to manage and provide oversight of the entire GCSP at EWB USA
- **Local Steering Committees** at each academic institution to do the local management and oversight of the scholars
- **Faculty Advisors and Mentors** to take care of working with each individual scholar and ensuring that they have exhibited sufficient learning in each of the 5 core competencies by NAE
- **A Backbone Learning Management System** that can track all the scholars

...expected to be formalized soon.
Continuation of life on the planet, making our world more sustainable, safe, healthy, and joyful.

Courtesy of 2008 NAE report on Grand Challenges for Engineering for the 21st century

Engineers Create Solutions for the Welfare of Humanity and the Needs of Society.

An inspiring definition of Engineering:

Courtesy of NAE President C. Dan Mote
THANK YOU

www.ewb-international.com