

welcome to jacksonville



The Jacksonville Professional Chapter and the University of North Florida Student Chapter of EWB-USA are honored to host all of you in Jacksonville, Florida this weekend. Every year, students, academics, professionals come together at the EWB-USA South East Regional Workshop for technical training, collaboration and inspiration.

Communication to Inspire Action is the theme for this year's workshop. This theme represents how EWB-USA members communicate their message not only to tell a story or to educate their audience, but to inspire action in them. The action inspired in the volunteers, donors, or community partners, creates positive change in the world.

The goals of the workshop are to:

- *Engage in technical training*
- *Share international experiences and lessons learned*
- *Network with members and guests*
- *Develop and learn best practices for international development work*

We have a weekend full of activities planned for you, so browse this packet to learn more!

Sincerely,

The Workshop Committee



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event program

Engineers Without Borders– USA
South East Regional Workshop, Jacksonville, Florida

Friday, October 14, 2011

7:00 pm—9:00 pm Registration & Reception (Hyatt, Downtown)

Saturday, October 15, 2011

7:30 am - 8:30 am Breakfast and Registration (Gallery)

8:30 am – 9:00 am Welcome from the Jacksonville Chapters and the South East Region (Auditorium) Katrina Myers (Jacksonville Prof., President)
Kristin Hink (South East Region, President)

9:00 am – 10:00 am Keynote: State of EWB-USA Address (Auditorium) Cathy Leslie (EWB-USA, Executive Director)

10:00 am – 10:15 am Break (Gallery)

10:30 am – 11:30 am Breakout Session 1

Rotary Funding Forum (Rm 2) John McCarthy and Jamie Mackey (Rotary)
EWB-USA Health & Safety (Rm 3) Dirk Bouma (EWB-USA, Tech. Advisory Committee)
Q&A with the Executive Director (Auditorium) Cathy Leslie (EWB-USA, Executive Director)

11:30 am – 12:45 pm Lunch (Gallery)

12:45 pm - 1:45pm Program Quality (Auditorium) Tiffany Martindale (EWB-USA, Project Manager)

1:45 pm - 2:00 pm Break (Gallery)

2:00 pm – 3:00 pm Breakout Session 2

Leveraging Community Support (Auditorium) Scott Kelly (JEA, Vice President)
Project Spotlight (Rm 2) UCF/VA Military Institute/Atlanta Prof. Chapter
Regional Leadership and the EWB-USA Career Path (Rm 3) Michael Kamprath/Kristin Hink (South East Region)

3:00 pm – 3:15 pm Break (Gallery)

3:15 pm – 4:15 pm Breakout Session 3

Project Sustainability (Auditorium) Tiffany Martindale (EWB-USA, Project Manager)
Slow Sand Bio-filters (Rm 2) James Crawford (South East Region, Treasurer)
Community Needs Assessment: Strategic Thinking (Rm 3) Bill Huffman (EWB-USA, Tech. Advisory Committee)

4:15 pm – 4:30 pm Break (Gallery)

4:30 pm – 5:30 pm EWB-USA Community Partnerships and Communication Cathy Leslie (EWB-USA, Executive Director)

7:00 pm Dinner on the Town

Sunday, October 16, 2011

8:00 am – 8:30 am Breakfast (Gallery)

8:30 am – 9:30 am Mentoring and Building a Chapter (Auditorium) Mark Tumeo (UNF, Dean of CCEC)

9:30 am - 9:35 am Break (Gallery)

9:35 am - 10:35 am Breakout Session 4

Project Monitoring & Evaluation (Auditorium) Tiffany Martindale (EWB-USA, Project Manager)
Ghana Project & EWB-USA in an ABET Curriculum (Rm 2) Paul Eason, Univ. of North FL
Surveying Field Techniques (Rm 3) Rich Roberts/Carlos Cepero (Jacksonville Prof.)

10:35 am – 10:40 am Break (Gallery)

10:40 am – 11:40 am Breakout Session 5

Humanitarian Tech. Challenge: Reliable Electricity (Aud.) Butch Shadwell (IEEE, UN Foundation)
Alternative Design Solutions (Rm 2) Dirk Bouma (EWB-USA, Tech. Advisory Committee)
Material Testing Field Techniques (Rm 3) Michael Krepsek/Crystal Markley (Jacksonville Prof.)

11:40 am – 12:00 pm Closing Remarks and Awards (Auditorium) Katrina Myers (Jacksonville Prof., President)

1:00 pm - 6:00 pm CPR/First Aid Training (Northeast Florida Red Cross)** **Advance Registration Required

speaker bios and



Cathy Leslie, PE, Executive Director of EWB-USA

Cathy has served as the Executive Director of EWB-USA since 2004. She oversees the operations and finances of the organization and is responsible for the consistent achievement of our mission. Cathy develops and administers the diverse programs of EWB-USA with both dedication and vision. With a passionate and dedicated Board of Directors, staff team, and membership base, Cathy is leading EWB-USA to the next level of organizational achievement.

Keynote: State of EWB-USA Address: This year is the 10th anniversary of EWB-USA. Come find out what we do, how we do it, and what we are celebrating as well as a look forward to the next 10 years.

Q&A with the Executive Director: This session offers a opportunity for people to talk with Cathy Leslie. Bring your ideas and questions!

EWB-USA Community Partnership and Communication: The most important and sometimes most challenging aspect of EWB-USA projects is communication across cultures and building strong partnerships with the communities we serve. Learn about the successes and lessons learned from Cathy, who has many experiences to share.

Scott Kelly, PE, John McCarthy and Jamie Mackey, Rotary and World Water Alliance of Florida Leaders

A wide range of support is necessary to implement any successful EWB-USA project. In Northeast Florida, several organizations have joined forces to provide that support to water/sanitation projects.

Rotary Funding Forum: Rotary International and EWB-USA have complimentary missions, and are partnered on many levels. This session educates EWB-USA chapter on the Rotary funding process and international grant process. Attendees will learn practical information about how to apply for Rotary funding for their projects.

Leveraging Community Support: This session highlights the World Water Alliance of Florida, and how this organization has successfully leveraged community support to fund EWB-USA projects. The World Water Alliance of Florida is a charitable organization whose purpose is to facilitate the development of projects to improve safe water supplies, sanitation and health and hygiene education for low income communities in developing countries.



Dirk Bouma, PE, Chair of the EWB-USA Technical Advisory Committee (TAC)

A member since 2004 of Engineers Without Borders USA, Dirk Bouma is a professional engineer with experience in international development, health and safety, site investigation, remediation, construction and planning, and project and program management.

In coordination with and supporting another professional engineer, Krista McKim, Dirk worked to build the first initiative to bring about a change in Engineers Without Borders, introducing a program now known as EWB's Health and Safety program, to encourage a mindset of health, safety and security in every phase and aspect of EWB projects. He is currently working internationally in West Africa in the Niger Delta, providing management, technical and marketing support in international development, by designing and developing a new center for Appropriate Technology Enabled Development. He continues to support the EWB project quality control system as Chairman of the South East Technical Advisory Committee, and continues as a member of the Health and Safety Committee.

EWB-USA Health & Safety: This session provides a review the EWB-USA Healthy & Safety guidelines and requirements.

Alternative Design Solutions: This session shows alternative design solutions for different environment, using examples of two schools, one in the mountains above Guatemala City and the other in the Niger Delta.



Tiffany Martindale, PE, EWB-USA Project Manager

Tiffany is part of the project management team which is responsible for ensuring that EWB-USA projects are of high quality and sustainable. In this role, Tiffany is responsible for providing guidance and technical assistance to volunteer chapters working on EWB-USA projects throughout the assessment, design, implementation, and monitoring process.

This assistance is provided primarily through the review of the project reports and consistent communication with the project teams.

Program Quality: This presentation reviews the newly established Project Submittal Rating system, which was developed to provide chapters with clearer expectations for their project work. It is the hope that with clearer expectations program quality will improve throughout the organization.

Project Sustainability: In this interactive presentation, we will discuss the principles of sustainability as they relate to our EWB-USA projects. Please bring with you any lessons learned or best practices that you would like to discuss.

Project Monitoring & Evaluation: Whether your team is preparing for your first assessment trip or finishing construction, it is important to have a clear plan for monitoring and evaluating the impact of the implemented project. This presentation will go over the status of the overall EWB-USA Monitoring and Evaluation program and provide specific guidance on how to approach your team's monitoring efforts at all phases of your project.

session descriptions

Bill Huffman, PE, EWB-USA Technical Advisory Committee, Peace Corps



Bill Huffman, PE, is a civil engineer, a member of EWB USA Jacksonville Professional Chapter and has served on several EWB USA and regional technical advisory committees. Bill is a former Peace Corps volunteer (Kenya, 1976) and has served in other emergency responses in Congo/Rwanda (1994) and Nigeria (2010). He will be serving again with the Peace Corps in Mali, West Africa in 2012-2013 as a small enterprise development advisor. The seminar's four vignettes are drawn from his overseas experiences.

Community Needs Assessment: Strategic Thinking: Using four brief day-in-the-life working mother narratives from the developed and under-developed world, this seminar asks the attendees to identify 1) those mothers' development needs, 2) the ways your chapter can provide satisfying solutions and 3) how the target community can independently sustain those solutions when the chapter eventually ends its participation and support. Small group brainstorming will be followed by full group sharing of ideas. This thought provoking exercise can be replicated at your chapter meetings to enhance your projects' sustainability and effectiveness.

Mark Tumeo, Ph.D., JD, PE, University of North Florida Dean of the College of Computing, Engineering and Construction



Dr. Tumeo recent joined the University of North Florida after a long history of EWB-USA involvement at Cleveland State University. He served as the faculty advisor for the Cleveland State chapter, and also serves on national EWB-USA committees.

Mentoring and Building a Chapter

Paul Eason, Ph.D., PE, University of North Florida Professor of Mechanical Engineering



Dr. Eason serves as a faculty advisor for the UNF Chapter of EWB-USA. He also serves as a mechanical engineering senior design professor.

The Ghana Project and EWB-USA in an ABET Curriculum: This session discusses how to successfully incorporate an EWB-USA program into an ABET curriculum. The University of North Florida Student Chapter has successfully incorporated the program in Ghana into a senior design project. This session will include a presentation by the UNF students about their recent implementation in Ghana, as well as a discussion about how to coordinate the EWB-USA project requirements with ABET.

Butch Shadwell, PE, Institute of Electrical and Electronics Engineers, United Nations Foundation



Butch Shadwell is the Chair for the Humanitarian Technology Challenge, and during this session, he will discuss this program. The Humanitarian Technology Challenge (HTC) is an innovative, collaborative endeavor that will develop and implement technological solutions to selected humanitarian challenges in developing countries. It was created by technologists, humanitarians, nonprofit organizations, students, government employees - and citizens of the world - who are coming together to identify and work to solve some of the world's most pressing challenges. With a unique, open-source collaborative concept, HTC enables volunteers to make a difference - without making a major commitment of time or resources. The HTC mission is to:

- 1) Solve three global challenges selected based upon input from leading humanitarians for their potential impact on humanity, and potential for success;
- 2) Create solutions that are sustainable, scalable and adaptable to multiple environments so they can be implemented locally within the environmental, cultural, structural, political, and socio-economic conditions where they will be deployed;
- 3) Support the work of United Nations and other humanitarian assistance groups worldwide.

Project Spotlight: University of Central FL, VA Military Institute, Atlanta Professional Chapter

During this session, EWB-USA chapters educate workshop attendees by presenting their chapter's lessons learned, successes, stories, and advice.

University of Central Florida will discuss their project in Haiti.

Virginia Military Institute, a new chapter, will talk about their first implementation project in Bolivia.

Atlanta Professionals Chapter will talk about their Refugee design competition.

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Regional Leadership and the EWB-USA Career Path: Kristin Hink, Katrina Myers, James Crawford, Michael Kamprath, Sean Corcoran

Regional Leaders provide a framework of support for EWB-USA chapters. This session will review the regional structure and discuss state, regional and national leadership roles that members can take as a part of their EWB-USA Career Path.

James Crawford, EI, South East Region Steering Committee

James Crawford was one of the founding members of the University of Central Florida Engineers Without Borders Chapter. During his time with the Chapter he served as President and travelled on several trips to Mare Briole, Haiti, for a water project which included slow sand filters and rain water harvesting. He currently works at Tetra Tech Engineering and serves as the EWB South-Central Florida Professionals Vice-President and the Treasurer for the EWB-USA Regional Board.

Slow Sand Bio-Filters: Slow sand bio-filters have been used extensively in the last few decades in developing countries. This presentation looks at the science of how the filters work, operation and maintenance issues and how to implement the filters in a developing community.

Hands-on Technical Training: Carlos Cepero, PE, Michael Krepsik, EI, Crystal Markley, PE, Rich Roberts, PE, Jacksonville Prof. Chapter

Jacksonville Professional Chapter leaders will provide hands-on training in material testing and surveying field techniques. These two sessions will provide a skill set for assessment trips. The lesson will include surveying measurements, using a GPS for field measurements, water and soil testing basics, concrete mixing and more.