



2014

ASSOCIATION OF CHRISTIAN DESIGN PROFESSIONALS

ACDP Conference

#ACDP14

ANTLERS HOTEL, COLORADO SPRINGS
NOVEMBER 13-15

BUILDING THE KINGDOM

THURSDAY

13

Disaster Response Training

2:00 pm **EMI Open House** EMI (130 KIOWA)
Come visit the EMI office just 3 blocks away! Light refreshments will be served as you learn more about the people and projects of EMI. Complete the Scavenger Hunt to enter a prize drawing!

5:00 pm **Check-In & Registration**

6:00 pm **Dinner** CARSON

Ministry in Disaster Contexts
Scott Peck – Disaster Response Ministry Director, EMI

Fellowship Time

FRIDAY

14

7:30 am **Late Check-In & Registration Opens**

8:00 am **Disaster Response – Field Security for Disaster Responders:** SUMMIT I
God's Sovereignty, Personal Security, Situational Awareness, Travel Safety, Checkpoints, Violent Encounters.
Scott Peck – Lt. Colonel Retired, Civil Affairs, US Army
Dave Snider – Lt. Colonel Retired, Special Forces, US Army

Disaster Response – Structural: SUMMIT II
In-Field & Near Event Structural Assessment & Repair
Eric Lehmkuhl, SECB, LEED AP – Structural Engineer, EMI Volunteer
California Safety [Structural] Assessment Program
Mike Young, PE – Structural Engineer, EMI Volunteer
CE HSW

12:00 pm **Lunch**

4:30 pm **Disaster Response Training Ends**

CE Engineering CE: should qualify for continuing education in all states except FL, LA

HSW AIA Health, Safety & Wellness Approved Credit

LU AIA General Learning Unit Approved Credit

Please check with your local registration board for continuing education requirements.

FRIDAY 14 ACDP

2:00 pm **EMI Open House** EMI (130 KIO-WA)
Come visit the EMI office just 3 blocks away! Light refreshments will be served as you learn more about the people and projects of EMI. Complete the Scavenger Hunt to enter a prize drawing!

5:00 pm **Check-In & Registration Opens**

6:00 pm **Dinner** SUMMIT III

7:00 pm **Welcome & Worship**

7:30 pm **Client Ministry Testimony**
Dick Lawson – Bongolo Hospital, The Christian & Missionary Alliance

7:45 pm **Building the Kingdom: Stay In Today**
John Dallmann – CEO, EMI

8:30 pm **Fellowship Time**

SATURDAY BREAKOUT TRACKS

Majority World Design A & B For those new to EMI or considering taking a lead technical role on an EMI Design Project. Learn general keys to designing in the developing world, and some discipline-specific approaches.

Appropriate Technology For those wanting to learn about how appropriate technologies can be applied in the developing world.

Cross-Cultural Ministry For those who would like to have an effective impact across cultures.

Disaster Response For those already a part of, or interested in joining, EMI's Disaster Response Team. Learn about security, WASH, shelter, and what its like to mobilize on an EMI DR response.

WASH For those interested in EMI's WASH Ministry Program and learning specifically about the technical and soft skills related to sustainable WASH in the majority world.

SATURDAY 15

7:30 am **Late Check-In & Registration Opens**

8:00 am **Worship & Devotional** SUMMIT III

8:45 am **Breakout Sessions**

9:30 am **EMI Wives Social** OLD COLORADO CITY (MEET IN LOBBY)
Enjoy a fun outing with EMI staff and volunteer wives to a local coffee/tea house and the sights and shops of Old Colorado City.
Gala Dallmann – former missionary & wife in Cameroon, EMI wife

4:30 pm **Intern Alumni Reunion** HERITAGE F
Connect with your fellow former EMI interns and hear how God is growing the Intern Program! Spouses welcome.

EMI Open House EMI (130 KIOWA)
Come visit the EMI office just 3 blocks away! Light refreshments will be served as you learn more about the people and projects of EMI. Complete the Scavenger Hunt to enter a prize drawing!

6:00 pm **Dinner** SUMMIT III

7:00 pm **Worship**

7:30 pm **Volunteer & Intern Testimonies**

7:45 pm **Building the Kingdom: Toward Maturity**
Nabeel Jabbour, Th.D. – Author, Lecturer, and Expert on Muslim Culture

8:45 pm **Fellowship Time**

SATURDAY

15 Breakouts at a glance

CE

Engineering CE: should qualify for continuing education in all states except FL, LA

HSW

AIA Health, Safety & Wellness Approved Credit

LU

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Track	Majority World Design - A	Majority World Design - B	Appropriate Technology	WASH	Disaster Response	Cross-Cultural Ministry
Room	HERITAGE F	HERITAGE E	STRATTON	SUMMIT II	SUMMIT I	BOARD ROOM
8:45 am	Design in the Developing World <i>(G. Young)</i> CE LU	Construction Management in East Africa <i>(C. Steckler, J. Pocock)</i> CE	Keys to Appropriate Technology Product Design <i>(G. Bixler)</i> CE LU	Sustainable Sanitation Concepts <i>(J. Wing)</i> CE	Security & Logistics in South Sudan DRR <i>(G. Perry)</i>	Discipleship Imperatives <i>(N. Mirza)</i>
10:30 am	Visioneering & Design in the Majority World <i>(D. Anderson)</i> CE HSW	Structural Design Keys <i>(E. Lehmkuhl)</i> CE HSW	Aquaponics in the Majority World <i>(R. Barber, M. Kelly)</i> CE HSW	Water Testing <i>(R. Beadle)</i> CE HSW	Post-Disaster Water Resources: H2O and People in Philippines <i>(A. Bowling)</i> CE HSW	The Other 2/3 of the Gospel <i>(W. Phang)</i>
12:00 pm	Lunch Table Topics: Learn more about different areas in which EMI is working and how you can be involved!			<i>West Africa Office Launch, America Latina Office Re-launch, EMI Internships, EMI Reps, EMI Canada, WASH Volunteer Next Steps, or Suggest a Topic.</i>		
1:15 pm	When Design Hurts: Healthcare Design <i>(R. Barber & D. Anderson)</i> CE HSW	The Basics of Electrical Design for Sites & Buildings in the Majority World <i>(A. Engebretson)</i> CE HSW	Sustainable Irrigation <i>(T. Podmore)</i> CE HSW	Water Treatment Introduction Lessons Learned on Water Projects <i>(J. Knight)</i> CE HSW	Lessons Learned from Disaster Response in Haiti & Philippines <i>(C. Cole)</i>	Discipleship Imperatives <i>(N. Mirza)</i>
3:00 pm	First Time on an EMI Trip <i>(Panel)</i>	EMI Reps/Staff/LTV Next Steps with EMI <i>(Panel)</i>	Bio-Sand Water Filter Programs - A Sustainable Water Treatment Option <i>(R. Jay)</i> CE HSW	Overcoming Sustainability Challenges: Malawi <i>(J. Chandler, J. Rahe)</i> CE HSW	DR Volunteer Next Steps <i>(Panel)</i>	Hidden Heroes: EMI Spouses <i>(Panel)</i> *EMI (130 E KIOWA)

8:45 am

Session 1

Majority World Design - A

Design in the Developing World

Greg Young - Executive Director & Architect, EMI-Canada

Presentation on philosophies and practical approaches for architectural and engineering design and methodologies in the Majority World through multiple applicable case studies.

HERITAGE F

CE LU

Majority World Design - B

Construction Management

*Carey Steckler - Construction Manager, EMI-East Africa
Dr. Jim Pocock - Architect & Civil Engineer, EMI Volunteer*

As a construction manager in eMi's East Africa office, Carey Steckler will explain how issues like poverty, corruption, inadequate training, planning and design affect projects in that part of the world. We will also consider how eMi and its volunteers can contribute to improving the situation.

HERITAGE E

CE

Appropriate Technology

Keys to Appropriate Technology Product Design

*Greg Bixler Ph.D., PE, - CEO & Mechanical Engineer
Design Outreach*

Creating appropriate technology for people in the Majority World is a complex challenge. An unclear aspect of this process is fully understanding and ranking user requirements, and then creatively designing a user-pulled sustainable solution. This course will address the methodology implemented by Design Outreach for appropriate technology product development using a volunteer workforce of highly skilled professionals - through a case study of a new deep well hand pump being piloted by World Vision.

STRATTON

CE LU

WASH Track

Sustainable Sanitation Concepts

Jeff Wing, PE, LEED AP - Civil Engineer, EMI Volunteer

Engineers and architects that are going to design in the majority world need to understand that there are sustainable waste disposal solutions that are available. Since these techniques may not be cost effective in a developed country, most engineers and architects have limited knowledge of their benefits. Those taking this course will learn about sustainable design of privy design, composting toilets, biodigesters and the beneficial uses of urine.

SUMMIT II

CE HSW

Disaster Response

South Sudan DRR Lessons Learned: Security and Logistics Considerations

Greg Perry, PE - Civil Engineer, EMI-West Africa

This presentation will provide EMI volunteers additional insight to the preparation and the in-country challenges of logistics and security on DRR projects, based upon the lessons learned in South Sudan.

SUMMIT I

Cross-Cultural Ministry

Discipleship Imperative

*Nate Mirza - International Student Ministries,
The Navigators*

BOARD ROOM

10:30 am

Session 2

Majority World Design - A

Visioneering and Design in the Majority World

Dirk Anderson - Architect, EMI-USA

Visioneering has been described as “the engineering of a vision, including the process of developing and maintaining that vision.” Strategic master planning and sustainable design can be catalytic to our clients, particularly expanding beyond cultural operatives and constraints. This course will discuss some effective design approaches with keys for successful engagement with clients serving in the Majority World.

HERITAGE F
CE HSW

Majority World Design - B

Structural Design Keys

Eric Lehmkuhl, SECB, LEED AP - Structural Engineer, EMI Volunteer

Each project brings it's own challenge; however, a project in a completely different county with different codes, units of measurement and building materials can be overwhelming. This course will discuss some of the things to be aware of when you are the structural engineer in a different county.

HERITAGE E
CE HSW

Appropriate Technology

Aquaponics in the Majority World

Rex Barber - Architect, EMI-USA
Matt Kelly - YWAM Emerge

Aquaponics is an incredible growing technique that will certainly play an important part in the future of world agriculture. This course will cover the basic understanding, including examples of Aquaponics systems for the Majority World.

STRATTON
CE HSW

WASH Track

Water Testing

Rod Beadle, PE - Civil Engineer, EMI Volunteer

Water quality is a critical issue in the Developing World. Every year, millions of people are afflicted by waterborne diseases and many people die from drinking contaminated water. This course will help participants to distinguish between various contaminants frequently found in Developing World water supplies and teach them effective methods of testing for them.

SUMMIT II
CE HSW

Disaster Response

Post-Disaster Water Resources: H2O and People in Tacloban, Philippines

Alan Bowling - Civil Engineer, EMI Volunteer

Water supply is a key component to securing and stabilizing a post-disaster community. Finding, working alongside, and developing local talent significantly improves access and delivery of this exxential resource. This course will identify elements for utilizing available resources to support the immediate to medium-term post-disaster WASH requirements.

SUMMIT I
CE HSW

Cross-Cultural Ministry

Other 2/3 of the Gospel

Wilson Phang, (Rev.), MSW, MAPS, MHP - Personnel Care, EMI

The Gospel is the Good News of God to mankind. Yet many, in many parts of the world and more and more in North America, they do not perceive the Gospel that we share to be Good News. This workshop considers how we can present a Gospel that is Good News in so many ways to so many people.

BOARD ROOM

3:00 pm

Session 3

Majority World Design - A

When Design Hurts: Healthcare Design

Rex Barber – Architect, EMI-USA

Dirk Anderson – Architect, EMI-USA

Healthcare design is an ever-evolving niche in global relief and development, often becoming critical cornerstones within local communities. Learn some keys to appropriate health care design from strategic partners in the Majority World.

HERITAGE F

CE HSW

Majority World Design - B

The Basics of Electrical Design for Sites & Buildings in the Majority World

Andy Engebretson, Electrical Engineer, EMI-USA

This course will equip the designer with the knowledge and resources needed to create a basic electrical design in the Majority World.

HERITAGE E

CE HSW

Appropriate Technology

Sustainable Agriculture - Irrigation

Terry Podmore, Ph.D. – Emeritus Professor of Civil Engineering, Colorado State University

EMI projects in developing countries often include agricultural components in site master planning. Sustainable agriculture can be a means to provide critical regional food supply along with vital supplemental income for project viability. In many countries that EMI works, irrigation is necessary to grow crops. The course looks at irrigation principles appropriate to projects in the Majority World, discussing the basics of irrigation demand: when to apply water and how much to apply. Included are evaluation of suitable irrigation components and application to unique project conditions.

STRATTON

CE HSW

WASH Track

Water Treatment Introduction with Lessons Learned from EWB-USA Water Projects

Joshua Knight, Ph.D., PE – Senior Engineer, Engineers Without Borders-USA

The course presents an introduction to the state of sustainable water treatment technologies for rural development projects, as well as how 12 years of EWB-USA lessons learned from its water projects have been incorporated into completing better international community-driven WASH infrastructure projects.

SUMMIT II

CE HSW

Disaster Response

Lessons Learned from Disaster Response in Haiti & Philippines

Craig Cole, PE – Structural Engineer, EMI Volunteer

The experiences of an early responder to the Jan 12, 2010 Haiti earthquake (2 weeks after event) and responding to the November 8, 2013 Typhoon Yolanda 5 months after it struck the central Philippines will be compared and contrasted.

SUMMIT I

CE

Cross-Cultural Ministry

Discipleship Imperative

Nate Mirza – International Student Ministries, The Navigators

Participants will go away identifying how Jesus described disciples or followers, how he trained them and how this can be done in a cross-cultural context.

BOARD ROOM

1:15 pm

Session 4

Majority World Design – A

First Time on an EMI Trip Panel Discussion

Matt Hood – Director, EMI USA and Panel

Learn what an EMI trip really looks like and how you can be involved.

HERITAGE F

Majority World Design – B

EMI Reps/Staff/LTV Next Steps with EMI Panel Discussion

Gary MacPhee – Recruitment & Volunteer Development, EMI

Learn how you can take your involvement with EMI to the next level by becoming an EMI Representative, joining long-term staff or volunteering long-term.

Appropriate Technology

Bio-Sand Water Filter Programs – A Sustainable Water Treatment Option for the Majority World

Robert Jay, Ph.D, PE, D.WRE – Civil Engineer & Professor

Providing all of the world's people with adequate amounts of safe drinking water represents the largest global challenge of the 21st century. It is also the "first step" in reducing poverty and illiteracy. This course will describe how to establish a sustainable water treatment program using bio-sand water filters. This point-of-use treatment option is particularly effective for the poor and marginalized people living in rural areas and refugee camps in the Majority World. The course covers the use of appropriate technology, user investment, health education, community engagement, and program assessment.

HERITAGE E

CE HSW

WASH Track

Overcoming Challenges for Sustainable WASH – Malawi Water Pipeline Remediation Case Study

Jason Chandler, PE – Civil Engineer, EMI

John Rahe, PE – Civil Engineer, EMI Volunteer

While technical components are only a fraction of what is needed for WASH projects to be sustainable in the majority world, they are still foundational to the success of these projects. In this course we will compare and contrast two WASH project case studies in Malawi and Cambodia and evaluate the elements that detracted and lent toward their ultimate success

STRATTON

CE HSW

Disaster Response

DR Volunteer Next Steps Panel Discussion

Justin Rolfs – Disaster Response, EMI-USA

Various perspectives from DR & DRR experiences, purposes for volunteering for an Assessment or Design Team, and Q&A on DR & DRR mobilizations.

SUMMIT II

Cross-Cultural Ministry

Hidden Heroes: EMI Spouse Panel Discussion

Jennifer Peck – former Army wife, EMI wife

Did you know that EMI projects could not be successful without the support of families who stay behind? You are the Hidden Heroes of EMI. Come meet and discuss the vital role you play in building the kingdom. Panel discussion includes Eileen Grehsam- Board Member wife, staff wives- Sarah Chandler and Alisha Crawford.

EMI
(130 KIOWA)