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THLU: Lunch

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PNLA: Panel Session: When Hardware Meets Software - How Humanitarian NGOs Balance Social Dimensions with Technical Interventions

Facilitator: Sam Temple, Colorado School of Mines

Panelists:

- iDE - Offers affordable technologies to rural farmers in Africa, Asia, and Central America
- Sanivation - Provides waste management technologies and systems for secondary cities across East Africa
- Maji Safi Group - Expands access to safe drinking water and sanitation in East Africa
- Engineers Without Borders - Supplies engineering support and technology interventions in North America, Africa, Asia, and Central/South America

Room: Friedhoff 1

Overview: Colorado is home to more than 200 humanitarian assistance organizations, ranging from small, context-specific groups to large-scale global missions. These organizations support initiatives aligned with the Sustainable Development Goals, addressing issues from poverty alleviation to climate action. This panel will feature 4 Colorado-based NGOs that specialize in technology-enabled interventions aimed at improving livelihoods in communities around the world. The participating organizations will share context-specific examples of how technology is being used in the field and will discuss the challenges and opportunities that arise when navigating social, cultural, environmental, economic, and political factors. Rather than focusing on "best practices," the panel will offer an honest exploration of both the successes and failures in implementing humanitarian technologies globally.

Thursday, October 23 13:15 - 13:45 (America/Denver)

BK3: Networking & Refreshments Break

Room: Lobby

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BK4: Networking & Refreshments Break

Room: Lobby

Thursday, October 23 15:30 - 16:30 (America/Denver)

SS1: Special Session: Current US Policy Trends Shaping Technology

Erik Heilman, IEEE USA

Room: A

Overview: IEEE-USA Government Relations will provide an overview of policy priorities relevant to technologists. This session will discuss opportunities and challenges for those seeking to align technology solutions with evolving policy landscapes.

SS2: Special Session: Colorado School of Mines Labriola Innovation Tour

Room: B

Overview: Join us for a tour of the brand new Labriola Innovation Hub - the heart of design and creativity of Colorado School of Mines! The space is home to a metal shop, wood shop, composite and paints shop, electronics shop, and a maker space with over 30 3D printers. Join us on your conference break to peak your creativity!

Thursday, October 23 15:30 - 17:00 (America/Denver)

WKSP3: Workshop 3: Grid Down Scenario - Table Top Exercise

David Vaughn, Clemson University

Room: Friedhoff 2

Overview: The Grid Down Scenario workshop provides a unique, interactive platform for exploring humanitarian technology solutions under extreme conditions. It bridges academic research, community engagement, and technological innovation by immersing participants in a real-world-inspired crisis. The session will demonstrate how resilience planning, GIS tools, and collaborative decision-making can empower underserved communities. By fostering experiential learning and ethical considerations, it highlights the urgency of disaster preparedness in our interconnected world. This workshop will engage diverse stakeholders and leave them with actionable strategies for enhancing community resilience and equity.

Thursday, October 23 17:00 - 17:30 (America/Denver)

BK5: Networking & Refreshments Break

Room: Lobby

Thursday, October 23 17:30 - 19:30 (America/Denver)

BANQ: Dinner Banquet and Keynote

Room: Friedhoff 1

Friday, October 24

Friday, October 24 7:30 - 8:15 (America/Denver)

FBK: Breakfast

Room: Friedhoff 1

Friday, October 24 7:30 - 12:00 (America/Denver)

FREG: Registration

Room: Foyer

Friday, October 24 8:15 - 9:00 (America/Denver)

HTB: Educational Resources to Deploy Technology for Social Impact and Their Gaps - An Interactive Workshop

Stephanie Gillespie, IEEE Educational Activities Board

Room: Friedhoff 1

Overview: This session will highlight IEEE Humanitarian Technologies' focus on education materials and training for humanitarian engineering project practitioners. The session will be designed to be interactive, with questions posed to the audience to gauge interest in IEEE HT's programs, educational resources, and ways to get involved. The audience will also have opportunities to provide feedback on what educational resources for starting or supporting humanitarian engineering projects may not already be readily available that IEEE HT could develop and provide.

Friday, October 24 9:00 - 9:15 (America/Denver)

BK 6: Networking & Refreshments Break

Room: Lobby

Friday, October 24 9:15 - 10:15 (America/Denver)

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Friday, October 24 10:15 - 10:30 (America/Denver)

BK7: Networking & Refreshments Break

Room: Lobby

Friday, October 24 10:30 - 12:00 (America/Denver)

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Room: Friedhoff 1

Friday, October 24 12:30 - 13:15 (America/Denver)

PNLB: Panel Session: Educating Engineers for Global Impact - Humanitarian Technologies in the Classroom and Beyond

Facilitator: Yael Perez, University of California Berkeley

Room: Friedhoff 1

Overview: This panel will explore how engineering education can better prepare the next generation of engineers to design, develop, and deploy appropriate technologies in low-resource and underserved communities. Drawing from diverse academic programs, panelists will examine strategies for integrating human-centered design, community engagement, interdisciplinary collaboration, and sustainability into engineering curricula. Through this panel, we aim to collectively reflect on this trend-examining its potential, challenges, and impact-and consider how we might shape the future of humanitarian engineering education as a recognized and robust area within both academic and professional practice.

Friday, October 24 13:15 - 13:45 (America/Denver)

BK8: Networking & Refreshments Break

Room: Lobby

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