



PRiMO
PACIFIC RISK MANAGEMENT 'OHANA

THE VOYAGE TO RESILIENCE

CREATING VALUE THROUGH PARTNERSHIPS

CONFERENCE PROGRAM

MARCH 14 – 17, 2016 • HONOLULU, HAWAI'I

WWW.PRIMOHUI.ORG



What Is the Pacific Risk Management 'Ohana (PRiMO)?

The Pacific Islands face many natural and man-made challenges. Only by bringing people and organizations together, and channeling their efforts toward common goals, can communities become more resilient. PRiMO, the Pacific Risk Management 'Ohana, is the platform for this effort. PRiMO's efforts make the Pacific Islands more resilient to the impacts of natural hazards.

About the Conference

The PRiMO Annual Conference is a leading venue for emergency, disaster risk reduction, and hazards professionals to share ideas, strategize, and collaborate on solutions that address the varied challenges facing Pacific Island communities working toward resilience goals. The theme of PRiMO 2016, "The Voyage to Resilience: Creating Value through Partnerships," will highlight the transformations communities are making to prepare for the next natural disaster.

In addition to showcasing 27 sessions and professional development trainings, the conference program is thoughtfully designed to facilitate partnerships that transcend geographic boundaries and disciplines, providing unique opportunities for collaboration. Participants from diverse backgrounds are expected to attend, including representatives from state and federal agencies, non-profits, conservation groups, and the business, health, and industry sectors.

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A NOTE FROM THE CHAIR

Aloha Kākou,

I'd like to personally welcome each of you to the fourteenth annual meeting of the Pacific Risk Management 'Ohana (PRiMO). We're thrilled that you're here with us in Honolulu for what promises to be our best and most memorable PRiMO yet. We've packed all three days with distinguished leaders, thought-provoking panels, and the chance to meet amazing people from across the Pacific and beyond who are dedicated to supporting and enhancing resilient communities.

All of us here come with unique backgrounds and different experiences. But, we almost all agree on a few things: We're here because we believe that bringing people and organizations together and channeling their efforts toward common goals can help our communities become more resilient. We're here because we believe everyone needs to have access to the astounding knowledge resident within our diverse 'ohana. And, we're here because we believe that our diversity and collaborative focus is the key to advancing important causes that improve people's lives in this region, across the nation, and around the world.

This week is about recovery, adaptation, health, technology, indigenous ways of knowing, energy, and our changing climate. It's about transforming our approaches to the current challenges faced by our islands and other remote, under-served and under-represented communities into visions for a better future and plans for action. It's about coming together, learning, making new friends, and meeting new allies. It's about experiencing the creativity, insights, accomplishments, and stories of incredible leaders, like Henk Rogers, Anote Tong, Enele Sopoaga, Cecilia Aipira, and all of our 'ohana. It's about becoming part of an exciting, essential, and historic moment.

All of us working on this conference designed it with you in mind — whether you are just starting to explore these issues, or are already a seasoned expert. So, take the plunge and immerse yourself in the sessions, soak up the knowledge and wisdom, tap into your creative self, roll up your sleeves at a hui session, and don't forget to save your energy for Wednesday's Community Night. Help to shape the future of PRiMO. Get ready to inspire and be inspired. It all starts here.

Me Ke Aloha,

Bill Thomas
Chair, PRiMO Navigators' Council

PACIFIC RISK MANAGEMENT 'OHANA LEADERSHIP

PRiMO Executive Director, Adam Stein, NOAA Office for Coastal Management

Navigators' Council

PRiMO Chair, Bill Thomas, Office for Coastal Management

PRiMO Vice-Chair, Karl Kim, National Disaster Preparedness Training Center

PRiMO Council Secretary, Jeffrey Payne, Office for Coastal Management

Cheryl Anderson, University of Hawai'i

Chris Chiesa, Pacific Disaster Center

Derek Chow, U.S. Army Corps of Engineers, Civil and Public Works Branch

Richard Ferrero, U.S. Geological Survey, Pacific Region

Victoria Keener, East-West Center

Kristina Kekuewa, Office for Coastal Management

David Kennard, Federal Emergency Management Agency

John Marra, NOAA National Climatic Data Center

Ed Young, NOAA National Weather Service (Ret.)

Sally Ziolkowski, Federal Emergency Management Agency

Senior Advisors

Eddie Bernard, NOAA (Retired)

Stanley Boc, U.S. Army Corps of Engineers

Margaret Davidson, NOAA

John McCarroll, Environmental Protection Agency

Penehuro (Pene) Lefale, Joint Center for Disaster Research

Eileen Shea, Partnership for Pacific Resilience

Michael Shulters, U.S. Geological Survey (Retired)

Hui Steerpersons

Communications

Jimmy Lagunero, University of Hawai'i

H. Ginger Porter, University of Hawai'i

Health Security

Deon Canyon, University of Hawai'i

Indigenous Knowledge and Environment

Jean Tanimoto, NOAA Office for Coastal Management

Ramsay Taum, Life Enhancement Institute of the Pacific

Information Access and Geospatial Technology

Eric Yamashita, National Disaster Preparedness Training Center

Training and Education

Ray K. Tsuchiyama, National Disaster Preparedness Training Center

Risk Assessment and Planning

Kitty Courtney, TetraTech

Doug Harper, The Baldwin Group at NOAA



MONDAY, MARCH 14

	304AB	306B
8:00AM – 12:00PM TRAINING	FEMA Incorporating Whole Community Inclusive Planning into the Emergency Management Process	Natural Disaster Awareness for Community Leaders
12:00PM – 1:00PM		
1:00PM – 5:00PM TRAINING		Coastal Community Resilience

TUESDAY, MARCH 15

8:00AM – 9:00AM	313					
	Registration and Continental Breakfast					
9:00AM – 10:00AM	<p align="center">Plenary Welcome and Opening <i>Opening:</i> Bill Thomas, Chair, PRiMO Council of Navigators, The Honorable Kirk Caldwell, Mayor, City and County of Honolulu, and The Honorable Timothy Manning, Federal Emergency Management Agency Deputy Administrator</p>					
10:00AM – 10:30AM	Break and Group Photo on Stairs Outside of 313					
10:30AM – 12:00PM MORNING HUI	304AB	306A	306B	307AB	308AB	313
	Information Access and Geospatial Hui	Health Security Hui	Communications Hui	Risk Assessment and Planning Hui	Indigenous Knowledge and the Environment Hui The Indigenous People's Climate Change Working Group	Training and Education Hui
12:00PM – 1:00PM	Lunch on Your Own					
1:00PM – 2:30PM CONCURRENT SESSIONS	304AB	306A	306B	307AB	308AB	313
	Unmanned Aircraft Systems/ Drones and Disaster Management		Precovery Planning for Resort Communities	PDC: Response Support for Earthquakes in the Pacific and Beyond	Building Resilient Communities with Open Data	
2:30PM – 3:00PM	Break – Pa Kaloka Courtyard					
3:00PM – 4:30PM CONCURRENT SESSIONS	304AB	306A	306B	307AB	308AB	313
	Social Capital	Cool Tools: A Roadmap for Better Precovery and Recovery	Lessons Learned from Typhoon Soudelor	21st Century Emergency Management	Community Model Interface for Tsunamis	
5:00PM – 7:00PM	313					
	<p align="center">Exhibitors' & Networking Reception Co-hosted by the National Disaster Preparedness Training Center and R3ADY Asia-Pacific</p>					



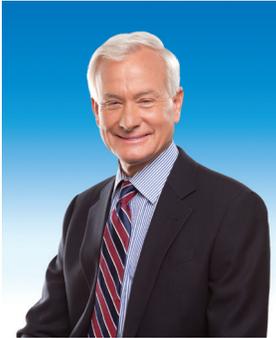
WEDNESDAY, MARCH 16

8:00AM – 9:00AM	313			
	Registration and Continental Breakfast			
9:00AM – 10:00AM	Plenary <i>Plenary Speakers:</i> First Lady of the Republic of Kiribati, Madame Meme Bernadette Tong and First Lady of Tuvalu, Madame Salilo Enele Sopoaga			
	Break			
10:00AM – 10:30AM	Break			
	306A	306B	307AB	308AB
10:30AM – 12:00PM CONCURRENT SESSION	Reflective or Reflexive: Indigenous Voices in Resilience	Community Model Interface for Tsunamis	Territorial School Repair	Health Implications of a Category 4 Hurricane on O'ahu
12:00PM – 1:30PM	313			
	Award Luncheon NDPTC Awards • PRiMO Awards <i>PRiMO Awards Speaker:</i> His Excellency Anote Tong, President, Republic of Kiribati			
1:30PM – 3:00PM CONCURRENT SESSION	306A	306B	307AB	308AB
	Tools Available for Planning	Potential Challenges from Climate Migration to Hawai'i and U.S. Territories	Partnerships for Resilience: Collective Impact through Local Knowledge	Emerging Disease Threat and Indigenous Populations
3:00PM – 3:30PM	Break – Pa Kaloka Courtyard			
3:30PM – 5:00PM	306A	306B	307AB	308AB
	Insurance in Hawai'i: How It Really Works	Crisis Communication <i>(By invitation only)</i>	Hawai'i Climate Adaptation Initiative	Interactive Session on How To Make Cities More Resilient
5:00PM – 8:00PM	313			
	Hawai'i Prepares 2016 <i>Keynote Speaker:</i> His Excellency Enele Sosene Sopoaga, Prime Minister of Tuvalu			

THURSDAY, MARCH 17

	313
8:00AM – 9:00AM	Registration and Continental Breakfast
9:00AM – 10:00AM	Plenary <i>Plenary Speakers:</i> Mr. Henk Rogers, Blue Planet Energy Systems and His Excellency Anote Tong, President, Republic of Kiribati
10:00AM – 10:15AM	Break
10:15AM – 11:45AM	Energy Panel
11:45AM – 12:00PM	Closing Ceremony

MEET OUR KEYNOTE SPEAKERS



The Honorable **Kirk Caldwell**, Mayor, City and County of Honolulu

Kirk Caldwell was born in Waipahu and raised in Hilo, the oldest son of a plantation and country doctor. He studied Urban Planning and Economics at Tufts University, earned an M.A. from the Fletcher School of Law and Diplomacy, and received his law degree from the U.H. William S. Richardson School of Law.

Kirk was Managing Partner at the law firm of Ashford and Wriston, and began his public service career in 2002, when he was elected to the Hawaii State House of Representatives, and quickly rose to become the House Majority Leader.

In January 2009, Kirk was appointed Managing Director for the City and County of Honolulu, and later served as Acting Mayor in 2010. During his tenure at the City, Kirk was the primary point person for two of O'ahu's biggest issues, transit and homelessness. He successfully expedited \$150 million in road repaving, was at the helm at Civil Defense during the 2010 tsunami, and was part of the team that balanced the City's budgets during the Great Recession, while protecting vital public services.

Kirk is married to Donna Tanoue, who served as State Commissioner of Financial Institutions in the Ariyoshi administration, was appointed by President Bill Clinton as Chair of the U.S. Federal Deposit Insurance Corporation (FDIC), and is today Vice Chair for Bank of Hawaii. They have a daughter, Maya, who recently started college.



The Honorable **Tim Manning**, Deputy Administrator of FEMA for Protection and National Preparedness

Timothy W. Manning was confirmed by the U.S. Senate as the Deputy Administrator of FEMA for Protection and National Preparedness in May of 2009. Working with partners at all levels of government, the private sector, and community organizations across the country, and through the coordination of FEMA's preparedness, prevention, and protection initiatives, Mr. Manning is responsible for the federal government's efforts toward building whole community-based resilience.

Prior to joining FEMA, Mr. Manning served as Secretary of the New Mexico Department of Homeland Security and Emergency Management and Homeland Security Advisor to former Governor Bill Richardson, in which he directed the State's efforts on border security, information and intelligence sharing, and disaster response. Tim is a former firefighter, EMT, mountain rescue specialist, and geologist; he has served in a variety of emergency management positions at the state and local levels and in non-governmental organizations, including Director of the New Mexico Office of Emergency Management and Deputy Secretary of the New Mexico Department of Public Safety for Emergency Services. He has served on regional and national policy boards and committees across the Homeland Security spectrum, and has been actively involved in the training and education of homeland security professionals throughout his career. He brings two decades of diverse, frontline emergency management experience to FEMA.

Deputy Administrator Manning earned a Bachelors of Science in Geology from Eastern Illinois University, a Masters of Letters in the study of Terrorism and Political Violence from the University of St. Andrews, and is a graduate of the Center for Homeland Defense and Security Executive Leaders Program at the Naval Postgraduate School.



Henk B. Rogers, Founder of the Blue Planet Foundation and Blue Planet Energy

Henk B. Rogers is a Dutch-born entrepreneur and clean energy visionary, who has dedicated the past decade of his career to the research, development, advocacy, and implementation of renewable energy sources in his adopted home of Hawai'i.

Rogers studied computer science at the University of Hawai'i and spent his early career in Japan as a video game designer, gaining distinction for producing the country's first major role-playing game, *The Black Onyx*. Rogers went on to revolutionize the video game industry by securing the rights for the blockbuster *Tetris*, which 30 years later remains a bestseller and global icon of gaming culture.

Today, Rogers serves as chairman of Blue Planet Software, the sole agent for the *Tetris* franchise; founder of Blue Planet Foundation, the state's leading nonprofit clean energy advocate; founder of Blue Startups, Hawaii's first venture accelerator for local technology entrepreneurs; and founder of Blue Planet Research, which is working on off-grid solutions and exploring the hydrogen economy.

Through educational outreach, policy advancement, and the development of statewide programs, Blue Planet Foundation is on the front line as Hawai'i progresses toward energy independence to meet its 100 percent clean energy goal. Blue Planet Foundation's annual energy report card has become a key marker, assessing the state's renewable energy efforts and areas of improvement.

Most recently, Rogers founded Blue Planet Energy Systems to advance his mission of ending the use of carbon-based fuel worldwide, with Hawai'i leading the charge. He led the development of Blue Ion, a prepackaged energy storage solution combining Sony's industry-leading battery technology with proprietary system architecture and energy management software.

Available on the market since August 2015, Blue Ion offers a safe, reliable, fully automated renewable energy solution to aid the adoption of off-grid photovoltaic systems and reduce Hawaii's reliance on carbon-based fuels. Using Blue Ion technology, Rogers declared both his residences in Honolulu and Kailua-Kona completely energy independent.



His Excellency **Enele Sosene Sopoaga**, Prime Minister, Republic of Tuvalu

Enele Sosene Sopoaga was sworn in as the new Prime Minister of Tuvalu on April 10, 2015. He also covers the portfolios of Public Utilities and Infrastructure. He is a Tuvaluan diplomat and politician who has been Prime Minister of Tuvalu since 2013. Sopoaga was first elected as a Member of Parliament for the island of Nukufetau in 2010.

Sopoaga was the Tuvalu Ambassador and Permanent Representative to the United Nations from 2001 – 2007; one of the three Core Coordinators of Friends of the ROC in the U.N.; AOSIS representative to the Bureau of the COPs 8, 9, 10, 11 & 12, of the UNFCCC and Chief Negotiator on Climate Change; AOSIS Vice-Chairman 2002 – 2006; AOSIS Chairman 2005 – 2006; AOSIS representative to the JREC, and AOSIS representative to the Adaptation Fund Board (2007 – 2008).

During the period 2007 – 2010, Sopoaga was the Permanent Secretary covering the portfolios of Communications, Transport, Tourism and Foreign Affairs. While he was the Permanent Secretary for Foreign Affairs in 2007 – 2009, he was also the Tuvalu Ambassador to the Republic of China.

He has a Master of Arts degree in International Relations from the University of Sussex (UK) and a post-graduate certificate in diplomatic studies from the University of Oxford. He also attended the Australian foreign service training in Canberra and has a post-graduate diploma in ESL (Sydney University).

He is married to Salilo Enele and has three children.

His sibling, Saufatu Sopoanga, was a former Prime Minister of Tuvalu.

He has a passion for fishing, tennis, reading, and being close to nature – the village people, sea, bush and islands.



His Excellency **Anote Tong**, President, Republic of Kiribati from 2003-2015

Anote Tong is the former president of the island nation of Kiribati. Assuming office in 2003, he recently completed his final, four-year term as president at the end of December 2015.

During his time as president, he built worldwide awareness of the potentially devastating impacts of climate change. Anticipated increases in sea level could render Kiribati completely uninhabitable by the middle of this century. While working closely with international partners to fight global warming and reduce the threat from climate change, President Tong has also been proactive in creating programs to facilitate planning for the eventual relocation of the entire population of Kiribati if current trends in climate and sea level change continue. A graduate of Canterbury University with a degree in Science, President Tong also holds a Masters in Economics degree from the London School of Economics. A committee has been established to campaign for President Tong to receive the Nobel Peace Prize as a result of his efforts to promote international awareness of climate change threats.

MONDAY, MARCH 14

PRE-CONFERENCE TRAINING SESSIONS

8:00AM – 5:00PM • ROOM 304AB

FEMA: Incorporating Whole Community Inclusive Planning into the Emergency Management Process

Hosts: FEMA Whole Community Continuing Training Grant Program

FEMA National Training and Education Division (NTED)/Continuing Training Grants (CTG) programs and BCFS Health and Human Services Emergency Management Division have teamed to develop the Incorporating Whole Community Inclusive Planning into the Emergency Management Process Course. This is a 6.5-hour mobile training, designed to increase the understanding of emergency managers, planners, and other stakeholders' on comprehensive emergency management practices, using a whole community approach. This course provides a unique and exciting opportunity by utilizing subject matter experts in the areas of disability, diversity, and emergency management as facilitators to introduce participants to inclusionary emergency management planning. Participants will become familiar with whole community inclusive principles and strategies, learn the importance of identifying and integrating community strengths into the planning process, study ways of engaging and empowering community stakeholders, and learn to recognize the significance of whole community planning in building local and national resilience. The course places a strong emphasis on identifying and engaging all parts of the community, particularly groups historically underrepresented in civic governance.

At the completion of the course, participants will be able to accomplish the following:

- define the various types of communities, whole community planning, universal accessibility and access, and functional needs based on FEMA's most recent lexicon;
- describe the impact of culture, community uniqueness on the planning process, and the steps to achieving culturally competent engagement strategies;
- identify the benefits and barriers to whole community inclusive planning and strategies to overcoming barriers, both actual and perceived, that are inherent in the process;
- understand the roles and responsibilities of stakeholders in the community in producing plans that are representative of community needs, and the essential need for stakeholder preparedness as a strategy for whole community engagement;
- state the importance of identifying and engaging all parts of the community in emergency management planning;
- describe how child reunification planning is a critical element and an exemplar of whole community inclusive planning;
- identify ways to integrate whole community planning concepts into emergency management programs;
- describe whole community planning principles and strategies that facilitate planning based on analysis of risks to the entire community, including people with disabilities, people with access and functional needs, and other historically underrepresented segments of the community; and,
- recognize examples of whole community planning that are being modeled throughout the country in a variety of cultures and communities.

This is an awareness level course that will provide participants with a certificate of completion.



8:00AM – 12:00PM • ROOM 306B

AWR 310: Natural Disaster Awareness For Community Leaders

Hosts: National Disaster Preparedness Training Center

You never know where you will be or what you will be doing at the time of a disaster. You also never know if you will be called to be a leader in that moment. This four-hour course will provide participants with an understanding of the necessary plans and tools needed to prepare for natural disasters, learn to understand and identify resources (people, agencies, organizations, businesses) in the community that are equipped to address response and recovery, and identify and define roles and responsibilities beforehand to be prepared in the event of an emergency.

1:00PM – 5:00PM • ROOM 306B

AWR 228c: Coastal Community Resilience

Host: Lyon Associates, Community Outreach & Training Division

Coastal communities around the world are experiencing unprecedented change, resulting from population growth in coastal regions and increased vulnerability to natural hazards. Resilient coastal communities are better able to plan for and take action to mitigate the risks from coastal hazards, increase the pace of recovery from destructive events, and adapt to changing environments.

This interactive course provides participants with a real life understanding of resilience and how it applies to a community. The unifying framework of community-based planning, preparedness, response, and recovery emphasizes target capabilities within a community's known (history) and unknown (magnitude or frequency not yet known or experienced) experience with low-level to catastrophic events. This course will demonstrate how to integrate risk-based, community-based, and collaborative strategies into plans and programs to create or enhance preparedness and response efforts within a coastal community.

TUESDAY, MARCH 15

8:00AM – 9:00AM • ROOM 313

Registration and Continental Breakfast

9:00AM – 10:00AM • ROOM 313

Welcome and Opening

Opening: Bill Thomas, Chair, PRiMO Council of Navigators;
The Honorable Kirk Caldwell, Mayor, City and County of Honolulu;
The Honorable Timothy Manning, Deputy Administrator,
Federal Emergency Management Agency

10:00AM – 10:30AM

Break and Group Photo on Stairs Outside of 313

10:30AM – 12:00PM

Morning Hui Sessions

Information Access and Geospatial Hui • ROOM 304AB

Steersperson: Eric Yamashita, National Disaster Preparedness Training Center

This session supports the collection and integration of hazards data, application of data framework and metadata standardization, and improvements in the accessibility and usability of risk management data and products.

Health Hui • ROOM 306A

Steersperson: Deon Canyon, University of Hawai'i

This hui supports preparation for, and responses to, public health threats, minimizing the transboundary movement of disease.

Communications Hui • ROOM 306B

Steerspersons: H. Ginger Porter, University of Hawai'i; Jimmy Lagunero, University of Hawai'i

This hui assists the providers of hazard and warning information in delivering their messages to every jurisdiction in a timely manner that is readily understood by the end users.

Risk Assessment and Planning Hui • ROOM 307AB

Steerspersons: Kitty Courtney, TetraTech; Doug Harper, NOAA Office for Coastal Management

This session explores methods, strategies, and best practices regarding natural hazard risk and vulnerability assessment, disaster risk reduction, and climate adaptation as well as their implications for sustainable planning and development practices.

Indigenous Knowledge and The Environment Hui • ROOM 308AB

Steerspersons: Jean Tanimoto, NOAA Office for Coastal Management; Ramsay Taum, Life Enhancement Institute of the Pacific

This hui ensures that PRiMO integrates traditional knowledge and modern science in a respectful and purposeful manner throughout the organization and other hui.



The Indigenous People's Climate Change Working Group • ROOM 308AB

Steerspersons: James Burke; Dr. Daniel Wildcat, Haskell Environmental Research Studies; Dr. Bull Bennett, Kiksapa Consulting, LLC; Robert Gough, Intertribal Council on Utility Policy

The Indigenous People's Climate Change Working Group (IPCCWG) regularly convenes a group of climate advocates and experts from tribal colleges, other Native American/Indigenous organizations, including the Intertribal Council on Utility Policy, environmental NGOs, and collaborating federal agencies to address the most pressing problems of climate change. They share a pursuit of knowledge that is applicable and adaptable, and expertise that is practical, ethical, and urgently needed.

This session is open to all PRiMO participants interested in learning about the IPCCWG, and how they can help move the organization forward in addressing climate change challenges to tribes and all other under-served, under-represented communities faced with these issues. You will learn who is IPCCWG, what they do and what they have accomplished so far, and be a part of helping IPCCWG to envision what its future could be. In the process, you will also learn about the role of Tribal Colleges in preparing us all to understand and address the effects of climate change.

Training and Education Hui • ROOM 313

Steersperson: Ray K. Tsuchiyama, National Disaster Preparedness Training Center

This hui improves coordination and encourages collaborative training efforts within agencies and across organizations through partnership development. During this time, Karl Kim will give a Social Capital training.

12:00PM – 1:00PM

Lunch on Your Own

Please grab some friends (old and new) for lunch.

1:00PM – 2:30PM

Concurrent Sessions

Unmanned Aircraft Systems/Drones and Disaster Management • ROOM 304AB

Speakers: Ray Tsuchiyama, National Disaster Preparedness Training Center; Jennifer Davidson, National Disaster Preparedness Training Center; Ted Ralston, National Disaster Preparedness Training Center
“Unmanned Aerial Vehicles” (UAV) or drones are an emerging technology, and also on the verge of revolutionizing disaster management. The speakers will give a “What are UAVs” overview, including the latest FAA Unmanned Aircraft Systems (UAS) regulations and related laws, and how UAVs would enhance a disaster mission, like in a post-super hurricane recovery Hawai'i.

Recently, the Honolulu-based National Disaster Preparedness Training Center held a pilot course in San Diego — the first in the nation to address Unmanned Aircraft Systems and disaster management.

Small, unmanned aircraft can be essential tools for finding lost or trapped people using infrared sensors; for post-disaster damage assessment imagery of infrastructure, transportation, and buildings; for delivering critical items, such as medicine to stranded people; for providing a temporary communications network when the primary system is damaged by a disaster; for ongoing infrastructure analysis as part of disaster mitigation; and for providing early storm warning public audio announcements via an onboard speaker system, among many other uses.

Precovery Planning for Resort Communities • ROOM 306B

Speakers: Karl Kim, National Disaster Preparedness Training Center; Jan Yamane, Waikiki Business Improvement District Association; Connie Ozawa, Portland State University; Laurie Johnson, California Consultant; Akiko Otani, R3ADY Asia Pacific

This session will focus on efforts to develop pre-disaster recovery plans in Pacific tourism destinations. Tourism is a growth industry, especially in this region. Many destinations are located in beautiful, yet often hazardous locations exposed to many different threats. The session will link to efforts by the National Disaster Preparedness Training Center to develop and test training materials for engaging communities in risk and vulnerability assessment, stakeholder identification, agenda and goal setting, model disaster recovery ordinances, authorization to plan, and processes to engage communities, emergency managers, and the visitor industry. The panel will include those working on projects in Hawai'i, the Pacific Northwest, and the Asia-Pacific Region.

Response Support for Earthquakes in the Pacific and Beyond • ROOM 307AB

Speakers: Julie Greenly, Pacific Disaster Center; Michael Chatman, Pacific Disaster Center

This session will provide an overview of Pacific Disaster Center's (PDC) response support capabilities for earthquake events in Hawai'i and the Pacific. This session will also highlight the importance of working together in planning and preparedness activities before a disaster happens. Presenters will also demonstrate how the Pacific Disaster Center used GIS and other technologies to support response to large earthquake events outside the Pacific Region, and how these same capabilities can be translated to support our region.

Building Resilient Communities with Open Data • ROOM 308AB

Speakers: Burt Lum, Hawai'i Open Data

This session presents several collaboration models that engage citizens with disaster preparedness agencies. We will discuss the idea of a CrisisCamp, which is a combination of hackathon and code challenge, focused on disaster response and recovery. We will also discuss the state of open data in Hawai'i and the local citizen coding group, called "Code for Hawai'i."

In the second half of the session, we break the attendees into three groups to discuss ideas to build resilient communities. For example, we will answer the questions of how to crowdsource damage to optimize deployment of road clearance crews, and how to match donations to community needs and the location of shelters and resources.

The goal for this session is to identify the necessary components to build a solution based on the ideas discussed. The follow-up action is to build a prototype, which can take place after the conference, but the aim is to kickstart that process.

2:30PM – 3:00PM

Break – Pa Kaloka Courtyard

3:00PM – 4:30PM

Concurrent Sessions

Social Capital • ROOM 304BA



Cool Tools: A Roadmap for Better Precovery and Recovery • ROOM 306A

Speakers: Bob Gough, Intertribal Council on Utility Policy; Carla Johnson, Earthvisionz

This working session will introduce participants to Earthvisionz's state-of-the-art tools and show you how you can better prepare your organization, program, government or community for severe weather response and for improved disaster preparedness, response, recovery and restoration. These easy-to-use and cost-effective tools can save hours of searching and mapping, ensure data accuracy, and improve your overall effectiveness and efficiency. Participants will learn how to: get real time severe weather and disaster alerts mapped directly to your assets; eliminate hours of searching weather feeds; eliminate hours of matching those feeds to your assets; ensure data asset accuracy; and improve your overall effectiveness and efficiency. During this session, you'll be able to produce maps and other products that you have created for your specific situation and issues.

Lessons Learned from Typhoon Soudelor • ROOM 306B

Speakers: Dana Okano, National Oceanic and Atmospheric Administration; John Riegel, Commonwealth Utility Corporation; John Hirsch, Red Cross Commonwealth of the Northern Marianas Islands Chapter; Ryan Brown, Federal Emergency Management Agency; Marvin Seman, Commonwealth of the Northern Marianas Islands Homeland Security and Emergency Management

Typhoon Soudelor ripped through the island of Saipan on August 2, 2015, taking many by surprise. Impacts were severe and recovery was a long and complicated process. While hazard planning was integrated into Saipan agencies, the implementation of those plans was reduced due to unaccounted for obstacles. Factors such as remoteness of the island had tremendous impacts on everything from securing emergency supplies from neighboring areas, insufficient transportation of supplies in quantities needed, delays in bringing in emergency service providers, and relocation of those needing emergency housing assistance.

Partnerships with neighboring jurisdictions provided key help in these areas; however, it also highlighted that more regional coordination is needed in the hazard planning phase to expedite the aid in the post-disaster period. Lessons learned will be discussed from those who lead on-the-ground post-disaster assistance from a range of participating agencies, including the Commonwealth Utilities Corporation, the Red Cross, the Federal Emergency Management Agency, and the Commonwealth of the Northern Mariana Islands (CNMI) Homeland Security and Emergency Management.

21st Century Emergency Management • ROOM 307AB

Speakers: Dawn Skaggs, BCFS Health and Human Services' Emergency Management Division; Lynn Shipp, BCFS Health and Human Services' Emergency Management Division; Emergency management disability and diversity education subject matter experts

This session will explore the symbiotic relationship between modern comprehensive emergency management principles and whole community planning, as they relate to the internal, and cultural strengths of diverse, closed, and indigenous communities. It will look at the changing role of the local emergency manager and the paradigm shift that occurs when the emergency manager facilitates an inclusive whole community planning strategy. This session places a strong emphasis on identifying, reaching, and engaging all parts of the community, particularly groups historically underrepresented in civic governance to build on the inherent capacity within each community and their organic ability to strengthen the resilience of the whole community. Within this discussion, key terms that direct perceptions, plans, and actions of all stakeholders will be clarified.

Throughout this session, participants will become familiar with whole community inclusive planning principles and strategies, and learn the importance of identifying and integrating the unique strengths of each community into the planning process. They will review best practices and collaborate on strategies to integrate indigenous planning practices with current emergency management principles to achieve a relevant and sustainable community plan. Participants will discuss best practices for these strategies occurring in local communities throughout the U.S., the Pacific, and globally that exemplify an effective inclusive planning process for diverse communities, and why the Pacific communities are poised to become exemplars of effective whole community preparation, response, recovery, and mitigation planning.

Community Model Interface for Tsunamis • ROOM 308AB

5:00 – 7:00PM • ROOM 313

Exhibitors' Showcase & Networking Reception

Co-hosted by the National Disaster Preparedness Training Center
and R3ADY Asia-Pacific



WEDNESDAY, MARCH 16

8:00AM – 9:00AM • ROOM 313

Registration and Continental Breakfast

9:00AM – 10:00AM • ROOM 313

Plenary

Plenary Speakers: First Lady of the Republic of Kiribati Madame Meme Bernadette Tong and First Lady of Tuvalu Madame Salilo Enele Sopoaga

10:00AM – 10:30AM

Break

10:30AM – 12:00PM

Concurrent Sessions

Reflective or Reflexive: Indigenous Leadership Training • ROOM 306A

Community Model Interface for Tsunamis: A Web-Based Tool for Resilient Communities • ROOM 306B

Speakers: Vasily Titov, National Oceanic and Atmospheric Administration; Chris Moore, National Oceanic and Atmospheric Administration; Karl Kim, National Disaster Preparedness Training Center

The Community Model Interface for Tsunamis (ComMIT) is a web-based community model, developed by NOAA's Pacific Marine Environmental Laboratory, that provides tools for the construction of tsunami inundation maps under different scenarios and for real-time tsunami forecast applications. ComMIT's internet-based approach creates a virtual regional and global community of modelers, using the same tools and approaches to understanding tsunami threats. It provides an avenue to transfer modeling expertise and capabilities to countries that are vulnerable to the tsunami hazard. As a critical tool for building tsunami resilient communities, ComMIT training has been offered throughout the Pacific Islands since 2005. This session proposes to bring ComMIT users to discuss and showcase results of ComMIT use for tsunami hazard assessment studies and projects. The session will provide the forum for sharing information and insights of tsunami modeling hazard assessments with the goal of increasing capacity to understand and model the tsunami hazard. ComMIT is planned to become a part of the NDPTC training capabilities.

Territorial School Repair and Capacity Building Initiative and Resilience Building Opportunities • ROOM 307AB

Speakers: Dane Sjoblom, HHF Planners; Tom Fee, HHF Planners; Lyle Carden, Martin & Chock

This session will introduce an ongoing U.S. Department of the Interior Office of Insular Affairs/territorial governors' initiative that is allocating four million dollars of OIA CIP grant funds per year, for five years, to public school repairs in American Samoa, the Commonwealth of the Northern Mariana Islands, Guam, and the U.S. Virgin Islands. Presenters will provide an overview of the school facility conditions, costs of repairs, and funding limitations of the initiative, as well as parallel initiatives to build capacity through training and education. A major element of capacity building is to help define future school investment objectives, such as relocating schools away from high hazard areas and raising structural standards to improve earthquake, wind load, storm surge, and tsunami resistance. Examples exist where schools are located in high hazard areas, and where buildings are not adequately built or equipped to withstand natural hazard events and meet community sheltering needs.

The presentation will touch on the central role schools play in community resilience by providing places of refuge during hazard events, shelter after disasters, as well as safe healthy places for children to go during recovery to facilitate "return to normalcy." Many steps are needed for schools to improve student and community safety, and this session helps prioritize steps that can be taken, and connect organizations that are interested in working with the Office of Insular Affairs on improving the quality of life in these territories. The presentation will show how limited funds are being prioritized and allocated, the schools and building types most at risk, and the high priority needs that ABC's funding cannot address. The "Talk Story" session will seek input from participants on other public school related concerns not covered in the presentation, additional project possibilities and funding opportunities, and group input on examples of accomplishments of similar initiatives.

Health Implications of a Category 4 Hurricane on O'ahu • ROOM 308AB

Speakers: Dr. Deon Canyon, University of Hawai'i; Gregg Nakano, State of Hawai'i; Dr. Bill Scruggs, U.S. National Guard

This session will present a scenario in which a Category 4 Hurricane lands on O'ahu, and explore aspects of the response that are related to health security.

The goal will be to provide a greater understanding of the roles each player will assume, their capacities, the challenges they would face, and limitations or gaps that would result in an escalation of casualties.

12:00PM – 1:30PM • ROOM 313

Award Luncheons • NDPTC Awards • PRiMO Awards
PRiMO Awards Speaker: His Excellency Anote Tong,
President, Republic of Kiribati



1:30PM – 3:00PM

Concurrent Sessions

Tools Available for Planning • ROOM 306A

Potential Challenges from Climate Migration to Hawai'i and U.S. Territories • ROOM 306B

Speakers: Doug Harper, The Baldwin Group at the National Oceanic and Atmospheric Administration; Hideyo Hattori, American Samoa; Dana Okano, Commonwealth of the Northern Mariana Islands; Adrienne Loerzel, Guam

Arguably, no place on Earth will suffer the impacts of climate change more than the islands of the Pacific. With a population that is uniquely dependent on local resources due to economic and geographic considerations, and an ecosystem that is especially vulnerable to small changes, communities in Pacific countries will confront an almost insurmountable challenge in maintaining their way of life. Where communities are unable to adapt, many will be forced to leave. Where these climate refugees will end up is difficult to say but, undoubtedly, the U.S. and U.S.-flagged territories will see increased migration.

This session will include an overview of current local conditions in the territories and how these areas might be challenged by a large influx of people. Discussions will include a look into potential cultural issues, resource conflicts, existing and new partnerships for addressing needs, and the potential siting issues. A fourth speaker will present the projections and concerns with those displaced by climate change in the Pacific. Following the presentations, the session will focus on facilitating a dialogue between speakers and session attendees on appropriate next steps for the territories and what role PRIMO can play.

Partnerships for Resilience: Collective Impact Through Local Knowledge • ROOM 307AB

Speakers: Ethan Allen, Pacific Resources for Education and Learning

Supported by the National Science Foundation, Water for Life (WfL) builds Pacific Island communities' water security while improving their water literacy. Organized and run through Pacific Resources for Education and Learning (PREL), and coordinated by professional educators, environmentalists, and water systems staff in Chuuk, Yap, Palau, and the Marshall Islands, WfL melds engaging and relevant informal science education with powerful professional and community service learning components. Core Teams in each site prioritize, plan, implement, and evaluate projects. Central to the Core Teams' work is the building of active, productive alliances among stakeholder groups to improve both science education and access to clean water.

Session participants will learn how to foster and sustain such alliances. We hope for a rich dialogue around both the challenges and benefits of establishing good, working relationships among groups that have no history of prior collaboration. Concrete outcomes based on WfL will be used to seed such a conversation, which should elicit and capture more ideas from participants.

Emerging Disease Threat and Indigenous Populations • ROOM 308AB

Speakers: Jason Krause, National Center for Biomedical Research and Training; Peter Katona, National Center for Biomedical Research and Training; Kelly Hamilton, National Center for Biomedical Research and Training

The panel will discuss the topic of "Emerging Disease Threat." The panel will look at how emerging diseases are a component of global health security strategy. It will also identify considerations to indigenous populations. Additionally, the panel will cover questions such as, "How prepared do we need to be?" "How prepared are we?" and "What training is available to help us prepare?"

3:00PM – 3:30PM

Break – Pa Kaloka Courtyard

3:30PM – 5:00PM

Concurrent Sessions**Insurance in Hawai'i: How it Really Works • ROOM 306A**

Speakers: Mike Hamnett, Moderator; Keith Taketa, First Insurance Company of Hawaii; Jim Newberry, Island Insurance LLC; Jeff Payne, NOAA Office for Coastal Management; Tim Waite, Simpson Strong-Tie Company / BIA

This panel session will provide a frank discussion about how insurance works in Hawai'i and how to minimize risk of loss from natural disasters. Learn about: (1) What goes into your policy and how are rates determined (includes discussion of risk assessment, reinsurance costs, etc.); and (2) How to lower rates and minimize risk (includes discussion of techniques for retrofitting existing structures to improve hurricane resistance and build new structures to be resilient). Insurance isn't just important; it's essential. Now that you understand risk, rates, and reality, it's time to get prepared and stay prepared. Disaster will strike — it's not a matter of "if" but "when."

Crisis Communication: Talking Points and Resources for Media During Disasters • ROOM 306B (BY INVITATION ONLY)**Hawai'i Climate Adaption Initiative • ROOM 307AB**

Speakers: Kitty Courtney, TetraTech

In 2014, the Hawai'i State Legislature declared, through the passage of the Hawai'i Climate Adaptation Initiative Act (Act 83, Session Laws of Hawai'i), that climate change is the paramount challenge of this century, posing both an urgent and long-term threat to the State's economy, sustainability, security, and way of life. Act 83 notes that, "Hawai'i is one of the few coastal states that has not adopted a statewide climate adaptation plan, yet is among the most vulnerable." Act 83 calls for the establishment of an Interagency Climate Adaptation Committee (ICAC), attached administratively to the Hawai'i Department of Land and Natural Resources (DLNR) and co-chaired by the Board of Land and Natural Resources (BLNR) and the director of the Hawai'i Office of Planning (OP). The first task of the ICAC is to develop a statewide Sea Level Rise Vulnerability Assessment and Adaptation Report (SLR Report) by December 31, 2017.

This panel will feature ICAC members and key collaborators from University of Hawai'i School of Ocean and Earth Science and Technology, the University of Hawai'i Sea Grant College Program, the Pacific Islands Ocean Observing System, the Pacific Islands Climate Change Cooperative, and Tetra Tech, Inc. The panel will provide an update on ICAC's efforts. This is also an opportunity for partners across the Pacific to engage in and discuss local efforts, and identify adaptation actions relevant to Pacific Island communities.



Interactive Session on How to Make Cities More Resilient • ROOM 308AB

Speakers: Deon Canyon, University of Hawai'i

This is a follow-up session for Health Implications of a Category 4 Hurricane on O'ahu, but with a more general application.

Local government officials are faced with the threat of disasters on a daily basis and need better access to policies and tools to effectively deal with them. The Hyogo Framework for Action (HFA) 2005-2015: "Building the Resilience of Nations and Communities to Disasters" offers solutions for local governments and actors to manage and reduce urban risk. Urban risk reduction provides opportunities for capital investments through infrastructure upgrades and improvements; building retrofits for energy efficiency and safety; urban renovation and renewal; cleaner energies; and slum upgrading. Local governments are the closest level of government to citizens and their communities. They play the first role in responding to crises and emergencies. They deliver essential services to their citizens, such as health, education, transportation, and water services, which need to be made resilient to disasters. Based on the five priorities of the Hyogo framework for Action, a ten-point checklist for making cities resilient was developed that local governments can use. By doing so, local governments commit to implement disaster risk reduction activities along these Ten Essentials.

5:00PM – 8:00PM • ROOM 313

Hawai'i Prepares 2016

Keynote Speaker: His Excellency Enele Sosene Sopoaga, Prime Minister of Tuvalu

This year's PRiMO conference will include a special free public event on March 16th, focused on helping Island families prepare for hurricanes and other disasters. This event will offer free admission and free validated parking (with a donation to Hawaii Foodbank). Conference attendees and the general public is invited to enjoy free access to selected PRiMO conference sessions, learn about community resiliency from expert speakers, explore interesting exhibits, and win free prize giveaways relating to disaster preparedness.

FREE PRiMO sessions (from 3:30 p.m. to 5:00 p.m.) open to the public for this event include:

Insurance in Hawai'i: How it Really Works; Hawai'i Climate Adaptation Initiative; and, Interactive Session on How to Make Cities More Resilient.

We will also be featuring evening speakers, from 5:30 p.m. to 6:30 p.m.:

Ray Tanabe, Pacific Region Director, NOAA / National Weather Service, will share information about hurricane preparedness; **Vern Miyagi**, Administrator of Hawai'i Emergency Management Agency, will share information about tsunami and other types of disaster preparedness; and, His Excellency **Enele Sosene Sopoaga**, Prime Minister of Tuvalu

Special exhibitors:

Hawaii Foodbank: Displaying examples of emergency food supplies; **Red Cross of Hawaii:** Providing information about hurricane shelters; and, **Aloha Council, Boy Scouts of America:** Providing information about scouting and emergency preparedness

In addition, the 2016 PRiMO conference exhibit hall will be open to the public including information and interactive displays from PRiMO, NOAA, The Baldwin Group, Island Insurance LLC, RevoluSun, National Disaster Preparedness Training Center, First Insurance of Hawaii, the Disaster Drone Club, Blue Planet Energy Systems, and R3ADY Asia Pacific.

This free public forum is a great opportunity for PRiMO attendees to invite family members, friends, and colleagues to come see what PRiMO is all about, while helping the community become better prepared and more resilient.

THURSDAY, MARCH 17

8:00AM – 9:00AM • ROOM 313

Registration and Continental Breakfast

9:00AM – 10:00AM • ROOM 313

Enabling 100% Renewable Energy Standards for Pacific Islands

Presented By: Henk Rogers, Founder, Blue Planet Foundation and His Excellency Anote Tong, President, Republic of Kiribati

Many are familiar with Henk Rogers' history of environmental passion and advocacy. As the creator of the Blue Planet Foundation, Rogers has set in motion a major philanthropic effort focused on helping Hawai'i achieve its conservation and renewable energy goals. After years of lobbying and advocacy by the Blue Planet Foundation and others, the State of Hawai'i finally announced a commitment to 100% renewable energy by 2045. Now, Rogers is setting his sights on the rest of the Pacific.

Inspired, in part, by a meeting with Kiribati President Anote Tong and other concerned stakeholders on board marine ecologist Sylvia Earle's "Mission Blue II" voyage in 2015, Rogers decided to apply his experience and resources to help remote coastal and island communities achieve energy security and independence.

In this casual Q&A interview-style presentation, Henk Rogers will describe his upcoming plans to visit island nations throughout the Pacific, engage with leaders and stakeholders, and assist them in fast-tracking energy resiliency and independence programs. Rogers' vision is to help facilitate a wider adoption of 100% renewable energy commitments from Pacific island nations. This is in advance of the upcoming World Conservation Congress (to be held in Hawai'i for the first time ever in September 2016).

10:00AM – 10:15AM

Break

10:15AM – 11:45AM • ROOM 313

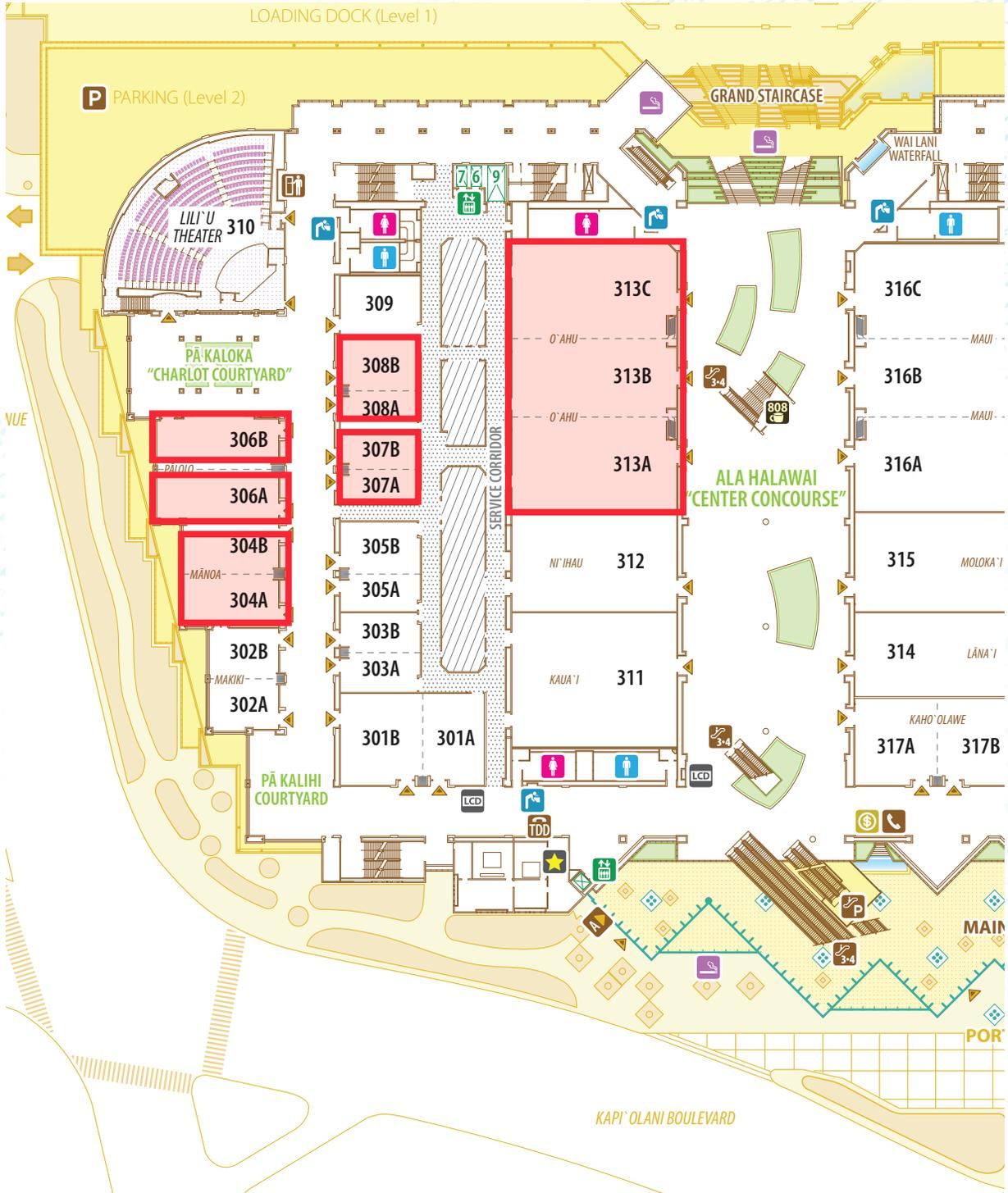
Energy Panel

This panel will engage in a conversation that will highlight advances in renewable, affordable and sustainable energy systems and the issues and challenges of development and delivery of energy to remote and underserved locales. In addition to the panel members, the audience will be encouraged to engage in a two-way conversation on issues, challenges and solutions.

11:45AM – 12:00PM • ROOM 313

Closing Ceremony

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