



- 1:00 – 1:15 pm Workshop Introduction, Background, Goals and Objectives
Dr. C. Mark Eakin, Coordinator NOAA Coral Reef Watch
USCRTF Climate Change Working Group Co-Chair
- 1:15 – 2:45 pm **Panel: Climate Change Impacts, Management, and Adaptation**
Dr. C. Mark Eakin, NOAA Coral Reef Watch
Responding to Climate Change for Reef Managers Workshops
- Susan Julius, EPA Global Change Research Program
Synthesis and Assessment Product 4.4: Preliminary Review of Adaptation Strategies for Climate-Sensitive Ecosystems and Resources
- Dr. Greta Aeby, Asst. Researcher, Hawaii Institute of Marine Biology
Eyes on the Reef & Hawaii's Rapid Response Plan for Coral Bleaching & Disease
- Dr. Rod Salm, Director, Tropical Marine Conservation Asia Pacific Region, TNC
Resilience in MPA Design: Kimbe Bay Project
- Dr. Kitty Courtney, Marine Environmental Scientist, Tetra Tech EM, Inc.
Coastal Community Resilience and Climate Change
- Ben Namakin, Environmental Educator, Conservation Society of Pohnpei
Climate Change and Small Island Communities
- 2:45 – 3:15 pm Q&A and Discussion – Audience & Panel Members
Announcement: Pacific Islands Climate Change Portal
- 3:15 – 3:30 pm Coffee Break
- 3:30 – 4:30 pm **Panel: Renewable Energy**
Andrea T. Gill, Energy Conservation Analyst, State of Hawaii
D. Noelani Kalipi, Director, Government & Community Relations, First Wind, Maui
Michael L. Kaleikini, Plant Manager, Puna Geothermal Venture
James Loux, Vice President, Bio Energy Systems of Hawaii, Inc.
- 4:30 – 4:55 pm Q&A and Discussion – Audience & Panel Members
- 4:55 – 5:00 pm Closing Remarks

Panelist Biographies

Panel I: Climate Change Impacts, Management, and Adaptation

Dr. C. Mark Eakin, Coordinator NOAA Coral Reef Watch

C. Mark Eakin (PhD) has spent over 20 years working on the impacts of climate change on coral reefs and directs the National Oceanic and Atmospheric Administration (NOAA) Coral Reef Watch Program, which uses satellite data to provide current reef environmental conditions to quickly identify areas at risk for bleaching.

Susan Julius, EPA Global Change Research Program

Susan Julius is an assessment scientist with the U.S. EPA, Office of Research and Development, Global Change Research Program. For the last 17 years, she has been analyzing the impacts of climate and land use change on watersheds and aquatic ecosystems, and exploring potential adaptation responses. She chaired the Climate Change Science Program's (CCSP's) Ecosystems Interagency Working Group for several years, and led the effort with Jordan West to produce the CCSP's recently released *Synthesis and Assessment Product 4.4: Preliminary Review of Adaptation Options for Climate-Sensitive Ecosystems and Resources*.

Dr. Greta Aeby, Assistant Researcher at Hawaii Institute of Marine Biology

Greta Aeby is an assistant researcher at the Hawaii Institute of Marine Biology where her research interests are in understanding marine disease processes in Hawaii and other areas of the Indo-Pacific. In addition, she serves as the Climate Change and Marine Disease Local Action Strategy Coordinator for the Hawaii Division of Aquatic Resources with the current focus being on developing Hawaii's rapid response contingency plan for events of coral bleaching and disease.

Dr. Rod Salm, Director, Tropical Marine Conservation Asia Pacific Region, The Nature Conservancy

Rod Salm was raised in Mozambique, has a PhD in coral reef ecology from The Johns Hopkins University, and has been practicing marine conservation widely around the tropics of world for over 35 years. He is Director of the Nature Conservancy's Asia Pacific Tropical Marine Conservation program and Coral Triangle project and is based in Hawaii. He leads the development and application of climate change adaptation responses for the Conservancy focusing principally on building resilience to climate change into coral reef conservation activities. Rod is currently coordinating the development of nature based adaptation responses to acidification and sea level rise in the Coral Triangle.

Dr. Catherine A. Courtney, Tetra Tech EM, Inc

Kitty Courtney is a marine environmental scientist with over 24 years of experience in coastal management and marine environmental projects throughout the Pacific. She has managed contracts from USAID, NOAA, UNESCO, DOD, ADB, and the State of Hawaii to perform a range of environmental and natural resource management services. Dr. Courtney started Tetra Tech's Honolulu Office in 1990 and served as office manager there until 1996. In 1996, she moved to the Philippines to serve as the Chief of Party of Tetra Tech's Coastal Resource Management Project funded by the United States Agency for International Development (USAID) until 2002. Currently, she manages and serves as technical lead for a number of projects in Hawaii and internationally on coastal community resilience, marine debris, coastal zone and watershed management, ecosystem-based fisheries management, ocean use conflicts, and community stewardship in Hawaii, Indonesia, Thailand, Sri Lanka, and the Philippines. For the last four years, she has provided technical support to NOAA and the FWS for proposed designation of the Northwestern Hawaiian Islands as a National Marine Sanctuary and now to the Papahānaumokuākea Marine National Monument.

Ben Namakin, Environmental Educator, Conservation Society of Pohnpei

Ben Namakin, Manager of the Environmental Education & Awareness Program of the Conservation Society of Pohnpei grew up in Kiribati and Pohnpei, FSM. He holds a high school diploma in Marine Science and Agriculture from the Ponape Agriculture & Trade School (PATS). As a member of the youth delegation to the UN Climate Change Conference in Montreal, he addressed the plenary session and contributed to the declaration "Our Climate, Our Challenge, Our Future." He also spoke for the Many Strong Voices at the UN Climate Change Conference in Bali, Indonesia. Mr. Namakin is the founding chair of the International Pacific Marine Educators Network (IPMEN), and among WWF Climate Witness and also serve as a member of the International Steering Committee for a Global Summit of Indigenous Peoples on Climate Change.

Panel 2: Renewable Energy

Andrea T. Gill, Energy Conservation Analyst, State of Hawaii, Dept. of Business, Economic Development and Tourism

Born in Honolulu, Andrea has lived in Hilo since 1979. She began working for the State's energy program in 1977, managing a solar planning project for the Center for Science Policy and Technology Assessment. She is currently an Energy Conservation Analyst for the State of Hawaii Department of Business, Economic Development, and Tourism (DBEDT) Strategic Industries Division. Her focus is on renewable energy technologies and energy efficiency. She is also active in efforts such as utility Integrated Resource Planning and the Hawaii Clean Energy Initiative (HCEI); she serves as co-chair of the HCEI Energy Delivery Working Group. She has managed contracts for projects ranging from photovoltaics to remanufacturing to geothermal direct use. She has authored a number of papers on geothermal energy and ocean energy for presentation at energy industry conferences on behalf of the State of Hawaii.

D. Noelani Kalipi, Director, Government & Community Relations, First Wind, Maui

As Director of Government and Community Relations, Ms. Kalipi works with communities at the grass roots level to promote understanding of the benefits of wind energy. Ms. Kalipi also works with officials at all levels of government to advance the goals of First Wind. Prior to joining First Wind, Ms. Kalipi served as the Democratic Staff Director for the U.S. Senate Committee on Veterans' Affairs and worked in various legislative positions for Senator Daniel K. Akaka.

Michael L. Kaleikini, Plant Manager, Puna Geothermal Venture

Mike Kaleikini is the Plant Manager of Puna Geothermal Venture ("PGV"), where he is responsible for the operations and maintenance of the 30 megawatt geothermal power plant. PGV has been in commercial operation for over 15 years, and has provided approximately one fifth of the Big Island's electrical needs. Operating the plant safely and efficiently while maintaining high reliability and meeting contractual obligations are goals Kaleikini focuses upon daily. With over 25 years of combined experience in propulsion plants, operations and maintenance, and the power generation industries, Kaleikini originally hired on with PGV in 1991 as a plant operator. Previous to PGV, Kaleikini served in the US Navy as a Gas Turbine Systems Technician, with five years being spent aboard the USS David R. Ray (DD-971). Kaleikini is a graduate of Kamehameha School and attended college in California. Mike is actively involved in the community and is a member of the Hawaii Island Economic Development Board, Hawaii Island Chamber and the Japanese Chamber of Commerce. He is married and has two sons, and enjoys camping, fishing, family gatherings, and spends weekends gardening and tending to the family pets.

James Loux, Vice President, Bio Energy Systems of Hawaii, Inc

James Loux is an Electrical Engineer and the Vice President of Bio Energy Systems of Hawaii. Mr. Loux has been involved in developing renewable energy systems in Hawaii for over 25 years. He was first involved in the early 1980s with the development of one of the first wind projects on Oahu, ultimately installing 600 kW of wind machines on the North Shore of Oahu. He has subsequently worked on other wind, photo voltaic and biomass gasification projects in Hawaii and especially on Maui. In addition he has taught Sustainable Technology courses at Maui Community College covering various renewable energy issues. Bio Energy Systems is now developing a wood waste to electricity project on Maui utilizing thermal gasification. Involved with wind and biomass projects on Maui, the Big Island and Oahu, Mr. Loux continues his efforts to develop and establish significant, locally produced and sustainable sources of energy for Hawaii.