



5TH Annual
**Assembly of Planners
Symposium 2020**



**CREATING A CLEAR VISION
IN A CHANGING CLIMATE**



**FEBRUARY 20, 2020
DUSIT THANI GUAM RESORT
8 AM - 5 PM**

UFISINAN I MAGA'HÅGA
OFFICE OF THE GOVERNOR

LOURDES A. LEON GUERRERO
MAGA'HÅGA • GOVERNOR



JOSHUA F. TENORIO
SIGUNDO MAGA'LÅHI • LIEUTENANT GOVERNOR

MESSAGE FROM THE GOVERNOR AND LT. GOVERNOR

Håfa Adai!

Our island has many opportunities before us to improve our quality of life and expand economic prosperity that will benefit all our people. For this reason, we are very pleased with the commencement of the 2020 Assembly of Planners Symposium. Now in its fifth year, this annual event continues to elevate and enhance long-term planning for our island. Here we can share information on plans and objectives by leading public and private sector entities and work together to make these plans a reality.

The theme of this year's symposium, "Creating a Clear Vision with a Changing Climate," is not only timely but also underscores our Administration's efforts to tackle head-on the needs of today and long-term challenges of the future, specifically sustainable development and climate change. By utilizing input from government planners, academic researchers, and concerned citizens, our Administration has embarked on several initiatives over the past year. This includes the creation of a Climate Change Resiliency Commission, the implementation of a new Coral Reef Resiliency Strategy, the adoption of the United Nations Sustainable Development Goals, and the establishment of a Zero Waste Working Group to advance measures for recycling and the realization of a Green Economy.

We hope that the discussions and exchange of views at the 2020 Assembly of Planners will generate new ideas and perspectives that will inform future government policy. We also want to congratulate the Bureau of Statistics and Plans and all those who helped make this event possible.

Si Yu'os Ma'åse!

Lou Leon Guerrero
LOURDES A. LEON GUERRERO
Maga'hågan Guahan
Governor of Guam

Joshua F. Tenorio
JOSHUA F. TENORIO
Sigundo Maga'låhen Guahan
Lieutenant Governor of Guam





Office of the Speaker

TINA ROSE MUÑA BARNES

I Mina'trentai Singko Na Liheslaturan Guåhan

From the Speaker's Desk

Buenas Yan Hafa Adai! On behalf of *I Mina'trentai Singko Na Liheslaturan Guåhan*, I would like to congratulate the Bureau of Statistics and Plans on the 5th Annual Assembly of Planners Symposium.

As a People, the *CHamoru's*, our *Sainas*, have always come together. It is because of this sense of *Inafa'maolek*, we have been able to persevere and overcome adversities.

In that spirit, planners from every sector of our community and in the region, are coming together to develop resiliency strategies for our Island and region and as a *CHamoru* people, we are humbled to showcase our hospitality.

As we continue these discussions centered around preservation, and promotion of community development, I look forward to hearing your ideas and solutions to the evolving challenges we face every day. Thank you for your contribution as we develop a more sustainable Guam and Blue Continent.

Tina Rose Muña Barnes

Speaker, *I Mina'trentai Singko Na Liheslaturan Guåhan*



MESSAGE FROM THE BUREAU OF STATISTICS AND PLANS

Hafa Adai,

Welcome to the 2020 Assembly of Planners Symposium! Now in its fifth year, the theme of this year's symposium is "Creating a Clear Vision with a Changing Climate." Meeting the needs of a growing population in a community of limited land space necessitates a serious examination of the long term issues related to Guam's future development and how best to plan for it. With this in mind the agenda prepared for this year's symposium will take on concerns central to determining our island's future course.

After opening remarks by Governor Lourdes Leon Guerrero, our agenda kicks off with a presentation by the Climate Change Resiliency Commission on the outlook for how this global phenomena will impact Guam. We then move to the first of three tracts for the symposium starting with an examination of flooding problems on the island as well as potential solutions. The second tract takes up the issue of land use and how best to plan, regulate, and set policy in order to secure a sustainable future. The third tract for the symposium provides updates on the research and demonstration projects overseen by the Governor's Zero Waste Working Group. This tract will also explore strategies to secure a sustainable Green Economy. Also scheduled is a keynote address by Lt. Governor Joshua Tenorio and sessions dealing with federal consistency review, the Guam Forest System Plan, public access to Guam's coasts, and the tools and support services made available by our federal partners, the National Oceanic and Atmospheric Administration (NOAA) and the US Army Corps. of Engineers.

I look forward to an exciting and productive symposium. My deepest thanks to all those who made this possible, in particular, the participating government of Guam agencies, our federal and private sector partners, and especially the staff of the Bureau of Statistics and Plans and its Guam Coastal Zone Management Program.

Si Yu'os Ma'åse!



Tyrone J. Taitano
Director, Bureau of Statistics and Plans

Address: 163 W. Chalan Santo Papa Hagåtña, GU 96910

Phone: (671) 477-2520/2521 / Email: speaker@guamlegislature.org / Website: www.guamlegislature.org



8:00 am – 8:30 am
Ball Room A&B



Registration, Light Refreshments and Exhibit Tables



8:30 am – 8:45 am
Ball Room A&B



Welcome Remarks

Tyrone Taitano, Director, Bureau of Statistics and Plans

8:45 am – 9:00 am
Ball Room A&B



Opening Remarks

The Honorable Lourdes A. Leon Guerrero,
Governor of Guam



9:00 am -9:15 am
Ball Room A&B



Climate Change Resilience Commission Report



• Evangeline D. Lujan, Chair

Vangie has been appointed as the Chair for the Climate Change and Resiliency Commission. Presently she is a Senior Regulatory Analyst with the Guam Waterworks Authority. Her primary responsibility at GWA is to ensure compliance environmental regulations. She was the Administrator for the Guam Coastal Management Program and the GIS Manager for the Bureau of Statistics and Plans. She is also appointed by the Governor as Focal Point for the Micronesia Challenge for Guam. She received her Bachelor of Arts in Mathematics from the University of Guam and a Master of Science in Engineering from the Arizona State University, and has completed her Certification in Public Management with Arizona State University.

9:15 am -10:15 am
Ball Room A&B



Track 1 Flood Control

This session will discuss real life scenarios of flooding issues around the island. Agencies will provide an overview of agency mandates to dispel common misconceptions and look at the challenges and gaps with managing flood as well as offer potential solutions for flooding on Island.



• Moderated by Marie Auyong, NOAA Coastal Zone Management Liaison

Marie Auyong is the Guam Coral and Coastal Program Management Liaison to NOAA. One of her primary duties is to provide technical assistance on NOAA-funded projects, which includes anything from taking kids on a hike, grants help, navigating environmental regulations, and teaching people how to snorkel--among other exciting tasks. When she's not working, she's swimming or walking her two dogs.

• CDR Brian G. Bearden, P.E., BCEE, Chief Engineer, U.S. Public Health Service, / Water Division Director, Guam EPA



CDR Brian Bearden is a commissioned officer with the U.S. Public Health Service, detailed to the U.S. Environmental Protection Agency, and currently assigned to the Guam EPA. As Chief Engineer, CDR Bearden oversees all activities of Guam EPA's Water Division. CDR Bearden received a bachelor's degree in Mechanical Engineering from Colorado State University, and a master's degree in Environmental Engineering and Science from Johns Hopkins.



• Masoud Teimoury, P.E., Ph.D. Chief of Engineering, Department of Public Works

Masoud K. Teimoury completed his Bachelor's degree in Civil Engineering from the University of Kentucky in 1980. He joined the Civil Engineering program at the University of Louisville where he received his Master of Science degree in Civil Engineering with concentration in the areas of geotechnical and structural design in 1983. He received his PhD in environmental studies and water security with concentration on the impacts of climate change on the island of Guam.

• Paul Santos, Chief of Cadastre, Department of Land Management



Paul Santos is the Chief of Cadastre for the Department of Land Management. Paul is also a licensed surveyor with the Guam Board of Registration for Professional Engineers, Architects and Land Surveyors.

10:15 am -10:30 am



Break Networking

10:30 am - 11:30 am
Ball Room A&B



Workshop Session 1

US Army Corps of Engineers

Strategies, Actions, and Implementation - Crossing the divide from assessment to Design and Construction.



• **Jeff Herzog,**

USACE Silver Jackets Coordinator

Jeffrey A. Herzog is a former U.S. Army First Sergeant and Veteran of 17 years in the military. After leaving active duty, Jeff became a member of the USACE Team in July 2015. He currently serves as a Supervisory Program Manager within the Honolulu District Civil and Public Works Branch of the US Army Corps of Engineers.

Jeff is the Program Manager for the Ala Wai Canal Flood Risk Management Project, the largest Civil Works Project in the history of the Pacific Ocean Division. He serves as the Program Manager for the PL 84-99 Flood Control Emergency Repair Program; the Pacific Islands Silver Jackets Coordinator for interagency collaboration in Hawaii, Guam, CNMI, and American Samoa; as well as the USACE Liaison to the State of Hawaii Emergency Operations Center.



• **Edwin Reyes,**

Administrator Guam
Coastal Management Program

10:30 am - 11:30 am
Salon 1



Workshop Session 2

An Introduction to Federal Consistency

Federal actions, projects funded with federal funds, and projects requiring federal permit. Find out how Federal Consistency applies.



• **Mr. Julian Janssen,**

Federal Consistency Coordinator, Guam
Coastal Management Program Federal
Consistency Coordinator

Mr. Julian Janssen is the Federal Consistency Coordinator of the Guam Coastal Management Program. He worked in the Guam Legislature and in the United States Congress for a total of ten years as a policy analyst and researcher. Mr. Janssen earned his Bachelor of Arts in Political Science from the University of Guam in 2008.

10:30 am - 11:30 am
Salon 2



Workshop Session 3

Decisions Support Tools - Digital Coast

Examples on ways to see our landscape through a compressive lens.



• **Jean Tanimoto,** Acting Director, Office for Coastal Management, Pacific Islands.

Jean Tanimoto is the Acting Regional Director for the NOAA Office for Coastal Management - Pacific Islands Region. Jean has been with the Office for Coastal Management for fifteen years and has worked on strategic planning, budget and administration, and partnership building with community and government agencies throughout the region. She serves as a Steersperson for the Pacific Risk Management Ohana's Indigenous Knowledge of the Environment working group and is on the Steering Committee for Rising Voices, a collaborative group with a focus on looking at issues facing communities related to climate change from an indigenous perspective.



• **Esther Taitague,** Planner IV, Guam Coastal Management Program

Esther Marie G. Taitague is a Land Use Planner specialized in watershed management with the Guam Coastal Management Program, Bureau of Statistics and Plans. She was influential in the successful development and implementation of watershed and conservation action plans for the Piti Asan watershed. Through strong network partnerships with government agencies, community members, and the Guam Contractors Association, several low impact development (LID) projects were successfully implemented including the Piti rain garden at the Santos Memorial Park, a green roof at the University of Guam's Center for Island Sustainability building, and a rain water catchment system at the Department of Corrections. As a member of the Application Review Committee, she advocated best management practices for coastal resilience and motivated developers and engineers to incorporate LID practices into project design plans.

11:30 am - 12:00 pm
Ball Room A&B



Keynote Speaker

The Honorable Joshua F. Tenorio, Lieutenant Governor of Guam



12:00 pm - 12:30 pm
Ball Room A&B



Working Lunch

Guam Forest System Plan

This presentation will cover how the Guam Forest System Plan, as authorized by the Legacy Act of Guam, will serve as the instrument to work across agencies to ensure critical forests ecosystems are managed and protected.

Guam Forest System Plan



- **Chelsa Muña-Brecht**, Director, Guam Department of Agriculture
Chelsa Muña-Brecht currently serves as the director of Guam Department of Agriculture. Previously, she served our community as a Project Director for the Guam Department of Education for the last four years, successfully managing a multi-million dollar curriculum project. Prior to that Ms. Muña-Brecht developed and managed a workforce development project for the Guam Community College where she collaborated with the private sector, GDOE, and several government agencies. She also gained policy experience working in the legislature first as a policy writer then as a Chief of Staff for Senator Muña Barnes. An honors graduate from the University of Guam with a degree in psychology and minors in sociology and women and gender studies, Chelsa also holds a teaching certification in education and has received training in project planning and development, grant management, writing, and board development.

- **Jathan Muna Barnes**, Land Use Planner, Guam Coastal Management



Mr. Muna-Barnes is a Land Use Planner with the Guam Coastal Management Program. An alumni of the University of Guam's Agriculture program, with over ten years of experience in the Agriculture field, Mr. Muna-Barnes is dedicated to promoting conservation and island sustainability.

12:30 pm – 1:00 pm
Ball Room A&B



Working Lunch

GCMP Public Access Report

Jay R. Merrill, MRD will share the findings from a study on barriers to public access.



- **Jay R. Merrill**, MRD

Mr. Jay R. Merrill, President, Market Research & Development Inc. (MR&D): Mr. Merrill, holds a B.A. in Economics from the University of California at Davis (with honors) and is the founder of MR&D. He has a wealth of experience in the field of market research in California and Guam that includes development of information objectives, questionnaire design, analysis, and strategic planning. Market Research and Development, Inc. was Guam's first full service consumer and business market research and public opinion polling firm. Established in 1984 MR&D has created the market research protocols for GVB and initiated the first public policy research service on Guam.

1:00 pm – 2:00 pm
Ball Room A&B



Track 2 – Land

Moderated by **Edwin Reyes**, Administrator GCM Program

This track will discuss the state of Guam's lands, as well discuss issues and solutions to ensure that land-uses promote economic growth and sustainable development.
The discussion will also focus on the feasibility of modernizing the
Guam Comprehensive Development Plan.



- **Celine Cruz**, Acting Territorial Chief Planner, Department of Land Management

Celine Cruz is the Acting Chief Planner of the Department of Land Management and has been with the Department since 2009. She began her career with the Government of Guam in 2000, working at the One-Stop Career Center with the Department of Labor / Agency for Human Resources Development. Ms. Cruz is a 1998 graduate of the University of Guam and holds a Bachelor's Degree in Business Administration.



- **Jack E. Hattig, III**, Administrative Director, Chamorro Land Trust Commission
Jack Eugene Hattig, III currently serves as the Administrative Director of Chamorro Land Trust Commission. Jack holds an undergraduate degree in Secondary Education from the University of Guam and has post-graduate credits from the University of Oklahoma in Human relations.

- **Tyrone J. Taitano**, Director, Bureau of Statistics and Plans



2:00 pm – 2:15 pm
Ball Room A&B



Track – 3 – Zero Waste

Moderated by **Patti Arroyo**, Sorenson Media Group

2:15 pm – 2:55 pm
Ball Room A&B



Introduction of Zero Waste Initiative

Biosolids Composting Demonstration Project

Progress on Guam's first biosolids composting demonstration project. In this session, you will learn about the purpose, methods, and initial monitoring and testing results.
Discussion on potential long-term strategy for managing this organic resource.



2:15 pm – 2:55 pm
Ball Room A&B

Introduction of Zero Waste Initiative



• **Conchita Taitano**, Division Administrator, Air and Land Division, Guam EPA

Conchita has been with the Guam Environmental Protection Agency (Guam EPA) for 29 years and working as the Air and Land Division Administrator for over 22 years overseeing the Air Program, Pesticides Program, Hazardous Waste Program (which includes RCRA C, RCRA I and SPCC), and the Solid Waste Program.

Conchita received her Bachelor of Science in Biology and Masters of Science degrees from the University of San Francisco. In addition, she studied Environment and Sustainable Development from the United Nations University in Tokyo, Japan. She also studied Environmental Policy Making from the UNESCO Water Institute in the Delft, Netherlands.



• **Todd O. Williams, P.E., BCEE**, Jacobs

Mr. Williams has a 39-year career in environmental engineering with operating and design experience and a specific emphasis on biosolids management planning, and product utilization. Todd has assisted many wastewater cities, agencies and communities throughout North America in developing sustainable biosolids management programs. He has direct experience with new and emerging biosolids treatment technologies such as digestion, drying, pyrolysis, gasification and composting. Todd is the past Chair of the Water Environment Federation's Residuals and Biosolids Committee and currently serves as Jacobs Engineering's Residuals Resource Recovery Global Technology Leader.



• **Walter Leon Guerrero**, Guam EPA Administrator

Walter S. Leon Guerrero began his career with the Agency in 1995 with the Solid Waste Management Program as an environmental technician. In 1998, Leon Guerrero would continue to build his comprehensive experience in environmental protection as an environmental health specialist with the agency's Underground Storage Tank Program, Environmental Monitoring and Analytical Services Division and Emergency Response Program. Leon Guerrero then oversaw the Agency's the Defense-State Memorandum Of Agreement (DSMOA), a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) – a Superfund based program, along with the Brownfields 128a program. In 2016, Leon Guerrero was appointed as administrator by the Governor of Guam. He was then reappointed in January 2019 under the Leon Guerrero Tenorio administration and received unanimous consent from the Guam EPA Board of Directors.



• **Robert Salas**,
Founder,
Director & Owner,
LMS Guam

Over the past 25 years, Bob has built a reputation of excellence, developing industry best practices, incubating new business models, inspiring employees and building trust in the community. Mr. Salas stands at the forefront of the fastest growing landscape industry trend: sustainability. He's spent the past nearly 20 years evangelizing a shift to zero green waste for Guam and has positioned LMS as a leader in the space.

3:00 pm – 3:30 pm
Ball Room A&B

Track – 3 – Zero Waste

Guam Food Waste Report & Food Recovery Opportunity

Release of the food waste data for Guam; Introduction of new food recovery project between the Hyatt Regency Guam, Salvation Army, and Guam Department of Public Health and Social Services.



• **Cory Hinds, P.E.**, Jacobs

Mr. Hinds is the Jacobs Project Manager for the development and implementation of a sustainable materials management program for Guam. With 25 years of experience in planning, design, construction administration, solid waste, wastewater, transportation, site development, and facilities, Mr. Hinds has developed a reputation for developing practical, cost-effective technical solutions tailored to the project need. He has direct experience in sustainable materials management; landfill design, construction and operation; and biosolids composting. He has personally worked on this Guam food donation project for over 10 months.



• **Lourdes Hongyee**,
Program Coordinator, Salvation Army

Lourdes (Lou) Hongyee is a Program Coordinator at The Salvation Army Lighthouse Recovery Center where she writes grants and coordinates the needs of the programs. Her most recent accomplishment is leading the LRC team in writing a grant for a Women's Recovery Treatment Facility which was awarded a HUD Community Development Block Grant for more than 2 million dollars in 2019. Lou graduated with a Bachelors' degree in Business Administration at the University of Guam. She is currently the Treasurer of the Guam Homeless Coalition and a past board member of Government of Guam's Civil Service Commission from 2005 to 2019. Lou resigned as a board member of the Civil Service Commission holding the title of Vice-Chair.

3:00 pm – 3:30 pm
Ball Room A&B



Track – 3 – Zero Waste



- **Mirko Agostini**, Executive Chef, Hyatt Regency Guam

Mirko Agostini is the Executive Chef at Hyatt Regency Guam. Chef Agostini has spent more than 20 years perfecting his culinary expertise in Italy, his native country, Switzerland, London, Australia, Korea and Bali. A resident of Guam since 2012, Chef Agostini inspires the island with his culinary innovation through creative signature dishes featuring local flavors at Hyatt Regency Guam's Al Dente and Café Kitchen.

- **Katherine Del Mundo**,
Food and Safety Program Manager,
DPHSS

3:35 pm – 3:50 pm



Break

3:55 pm – 4:35 pm
Ball Room A&B



Track – 3 – Zero Waste

Waste Composition Study

Knowing what you are throwing away helps guide zero waste solutions. Release of data from the study on the composition of waste disposed in the landfill and illegal dumpsites. Discussion on recommendations for reducing and diverting waste from the landfill.

- **Cory Hinds, P.E.**, Project Manager, Jacobs
- **Edwin Reyes**, Administrator, Guam Coastal Management Program



4:35 pm – 4:45 pm
Ball Room A&B



What's Next?

Update on the efforts on zero waste community outreach and education for Guam.



- **Cathy Gogue**, Director, Client Services, Greenlight Media Productions

Cathy Gogue, has extensive experience in marketing and public relations within the travel industry in Guam and Asia/Pacific. Cathy holds a Master's in Business Administration, and is responsible for overseeing several international markets for the Guam Visitors Bureau. Cathy also served as the Assistant Director of Communications & Promotions for the Guam Community College.



- **Therese Arroyo-Matanane**, Managing Partner, Greenlight Media Productions

Therese Arroyo-Matanane, is a seasoned professional with over 30 years in marketing and advertising. Currently, Arroyo-Matanane is President and Managing Partner of GreenLight Media Productions, Inc. a women owned marketing and advertising firm. She is also a part-owner and operator of programming and content development for television channel 25 on the GTA Digital Network system.

4:50 pm – 5:00 pm
Ball Room A&B



Closing and 2/21/2020 Fieldtrip Debriefing

- **Conchita Taitano**, Division Administrator, Air and Land Division, Guam EPA

Day Two



February 21, 2021 EPA Led Field Day