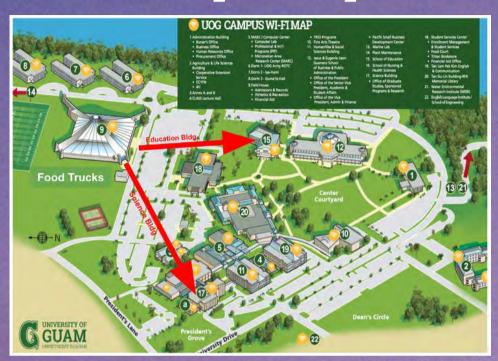


Campus Map



Booth Directory List

UOG Biological Sciences Club

UOG Chapter for the Society for Advancement of Chicanos/Hispanic Native Americans in Science (SACNAS)

UOG Marine Opportunities and Nature Association (MO'NA)

UOG American Medical Student Association (AMSA)

UOG Post Society of American Military Engineers (SAME)

UOG Community Nutrition Education Program

Center for Island Sustainability / UOG SEA Grant

Coast 360 Federal Credit Union

Guam Environmental Protection Agency

USDA - APHIS - Wildlife Services

UOG Marine Lab

Guåhan Sustainable Culture/Americorps Guåhan

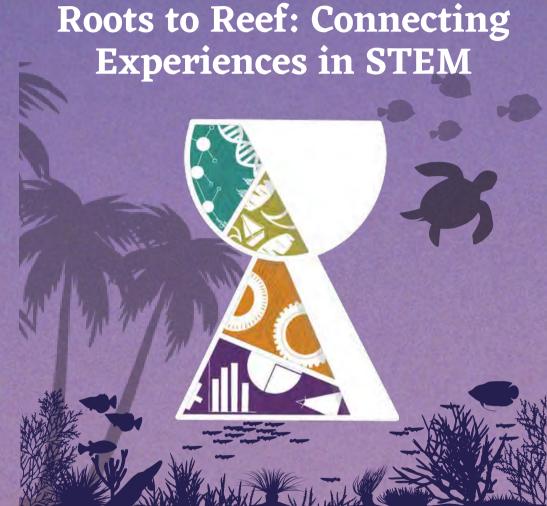
Sustainable Culture

4H Youth Development

UOG WERI
Lovebylibby
Guam LEAF
Sadie Ann Art
MSKP Scentcerely Yours
RaiRoseRue Collection
SENG 2 Plus 2 Program
Isla Charms
Numa'lo Refillery
Fressia Guam
Simply Chante

Lovali Made Jewelry

Hekela Raine



UOG CNAS STEM Conference



April 7-8, 2023 UOG Calvo Field House

Day 1 Agenda

April 7, 2023

UOG CALVO

UOG CALVO

FIELD HOUSE

FIELD HOUSE

9:00 AM - Welcoming Remarks
10:00 AM Dr. Lee Yudin

Cultural Welcome
Guma' Råsan Åcho' Latte

Land Acknowledgement
Victoria Manley

Emcees
Kyle Mandapat, Amanda Dedicatoria

10:00 AM - Student Poster Presentations

11:00 AM

Student Poster Presentations

UOG CALVO
FIELD HOUSE

10:00AM - Food Trucks Open UOG CALVO FIELD HOUSE 50 Calzone, Pokeyz, Lyn's BBQ Stix OVERFLOW PARKING LOT

11:00 AM - Expo Hall UOG CALVO 12:00 PM FIELD HOUSE

12:00 PM -Volunteers and Citizen Science in GuamSCIENCE BUILDING12:45 PMOlympia TerralRM 101

12:00 PM - Sloan Workshop: Understanding the Hidden
1:45 PM Curriculum for Improved Access to Graduate
Programs and Research Opportunities
Dr. Cheryl Sangueza, Natasha Suba, Dr. Mary Cruz

SCHOOL OF
EDUCATION
RM 108

1:00 PM - Crossing the Boundaries: The SCIENCE BUILDING Relationship of Art and Science Emily Stergar

2:00 PM - Opportunities at Guam National SCIENCE BUILDING
2:45 PM Wildlife Refuge RM 101
Marybelle Quinata

University of Guam Drone Corps
Keanno Fausto, John Borja

SCIENCE BUILDING
RM 200

3:00 PM - Keynote Address
4:30 PM Dr. Ernesto Guades
Day 1 Closing Remarks/Recap
Announcements

Si Yu'os ma'åse'!

NIYOK





GUASÅLI









MAFUTE'











SPECIAL ACKNOWLEDGEMENTS

































Si Yu'os ma'ase' from our team to you!



Lee S. Yudin, Ph.D.

UOG CNAS Dean/Director

On behalf of the entire CNAS administration and faculty we want to wish you a very successful 2023 STEM conference. This year marks the 3rd year the STEM majors in CNAS have devoted their time and energy to make this event take place. The first two conferences were held online due to COVID restrictions however this year we are in person at the UOG Calvo Fieldhouse. Being able to meet face to face and personally interact with each other will make this conference different than the previous ones. Please take the time to listen to the keynote speakers, meet the poster presenters and outside speakers and take advantage of networking. Introduce yourself to others and build relationships that can last a lifetime.



Maika Vuki, Ph.D. **UOG CNAS Division Chair**

The STEM Conference is growing to become an important capstone experience for our STEM students. It will showcase some of our finest in both research and communication. I congratulate the organizers and all the presenters for this year's conference. Biba CNAS! Biba UOG!



Gabriella Prelosky **UOG 3rd CNAS STEM Conference Organizer**

Buenas everyone! Thank you all for joining us for the 3rd Annual STEM Conference! We are so great full to have this conference in person, for the first time. My fellow CNAS students and I have worked very hard to make sure this conference showcases amazing work done by UOG students, and Guam. We hope you all enjoy what it has to offer! Biba STEM!

Si Yu'os ma'ase' to the committee for making this event possible: **Committee Chairs:**

Gabriella Prelosky Louise Pascua Anna Aguirre Anela Duenas

Sabrina Zhi Britney Sison Hilary Tirazona Jacquelyn Cabusi Nico Valencia Laura Caser

Committee Members:

Aryanna Sanele Angelica Rico Jerson Monton Keanu Masga Veronica Manicsic Sarai Vega

Kyle Dahilig 🗻 Lynn Galang Paul Dumaraos Zillian Unsay Edward Ju

Reina Evangelista Ariana Orallo Franchesca Tibavan Julie Laxamana And all our amazing volunteers!

Day 2 Agenda

April 8, 2023

UOG CALVO

RM 200

FIELD HOUSE

9:00 AM -**Welcoming Remarks** 10:00 AM Dr. Maika Vuki

Keynote Address Dr. Else Demeulenaere

Emcees

Kyle Mandapat, Amanda Dedicatoria

10:00 AM -**Student Poster Presentations UOG CALVO** 11:00 AM FIELD HOUSE

10:00AM -Food Trucks Open **UOG CALVO FIELD HOUSE** 2:00PM 50 Calzone, Pokeyz, Lyn's BBQ Stix OVERFLOW PARKING LOT

11:00 AM -Expo Hall **UOG CALVO** 12:00 PM FIELD HOUSE

UH Manoa College of 12:00 PM -SCIENCE BUILDING 12:45 PM **RM 101** Engineering SCIENCE BUILDING

Guam's Coral Reef Fisheries Leilani Sablan

Elevating Our Environmental 1:00 PM -SCIENCE BUILDING 1:45 PM **Opportunities RM 101**

Kyle Dahilig

2:45 PM

Mental Wellness and the SafeGU SCIENCE BUILDING **RM 200** Mobile App

Jaime Pangelinan, Anthony Dujmovic

[INVITATION ONLY] Sloan Workshop: Near SCHOOL OF Peer Mentorship for Researc **EDUCATION RM 108**

Dr. Cheryl Sangueza, Natasha Suba, Dr. Mary Cruz

2:00 PM -**HOME Program - Summer Internship** SCIENCE BUILDING

> Opportunity for Pre-Medical Students Dr. Amanda del Rosario

Bee Keeping in Guam Chris Rosario

Student Presentation Awards Day 2 Closing Remarks/Recap Announcements

SCIENCE BUILDING RM 200

> **UOG CALVO** FIELD HOUSE

RM 101

Keynote Speakers



Ernesto J. Guades, Ph.D.Sustainability of Guam Civil Infrastructures: Research Accounts and Proposed Interventions

Dr. Ernesto J. Guades is currently an Assistant Professor in Civil/Structural Engineering at the University of Guam (UOG). Prior to joining at UOG, he was a Marie S. Curie Post-Doctoral Research Fellow in Structural Engineering at the Technical University of Denmark. He obtained his PhD in Structural Engineering at the University of Southern Queensland (Australia) and Master of Engineering at Saitama University (Japan. He has a 20-year of combined

teaching, research, administrative and structural designing experience in Civil and Structural Engineering. He published around 40 technical papers in journals and conference proceedings and a reviewer of several high-ranking journals in Structural Engineering and Construction Materials.



Else Demeulenaere, Ph.D.

Connecting Land, Ocean, and People through Biocultural Research Approaches

Else Demeulenaere is the Associate Director for Natural Resources, at the University of Guam's Center for Island Sustainability and Sea Grant. Her team conducts research on forest and watershed restoration, endangered species protection and recovery. Else is committed to promoting sustainable practices and preserving Guam's irreplaceable natural and cultural heritage. Else holds a Master's in Botany (Ecology) from the University of Ghent and a PhD

Biogeography, Ethnobotany, and Policy (Interdisciplinary Studies) from the University of Alaska Fairbanks in a joint program with the University and of Guam. Through her dissertation "Rooted in Environmental Justice: Phytogeography and Ethnoecology of Serianthes," she investigated the interdisciplinary connections between Guam's species, ecosystems, sacred spaces, and people to advocate for policies that would benefit their conservation and cultural connections.

Student Poster Presenters

April 7, 2023

Sophie D.V Santos

Total Phenolics, Antioxidant Activity, Quality, and Methylglyoxal Content of Local Multifloral Honeys

Edward S. Ju

Finding the Magic in Coding Theory: An Error-Correcting Magic Trick using the 9 Element Field

Edina Lee

Anti-diabetic Potential, Total Phenolic Content, and Antioxidant Capacity in Guam's Local Mango (Mangifera indica L.) Leaves for Health Benefits

Renee S. Crisostomo

Phenotypic plasticity in Acropora aspera and its implications for Coral Restoration

Daniel Encio

Developing Agroforestry Techniques for the Prevention of Sedimentation in Degraded Watershed Basins in Southern Guam

Rckaela Aquino

Food Insecurity and dietary habits of University of Guam College students: findings from the 2021 Pacific Islands Cohort of College Students (PICCS)

Brandon Salas

Association of Alcohol Consumption and Stress Amongst College Students

Angelica R. Rico

The Relationship Between Physical Activity and Mental Health Among Adults in Guam

Maria S.Minas

Playing the Global Game: Modeling Effective Strategies to Combat COVID-19 on Guam

Zia B. Crytser

Diversity and distribution of Fusarium sp. in soil and leaf litter of a premontane rainforest of southern Costa Rica

Cabrini C Aguon

Breast cancer incidence trends in Guam. Guam Cancer Registry

Victoria Mapa

Sensory Evaluation of Rosketti Incorporated with Calamansi (Citrus microcarpa) Peel Powder

Jerson Monton

Patterns of Betel-Nut Use Among Adolescents in Guam: Understanding Ethnic Differences on Perceived Social Norms, Social Influence, Accessibility, and Permissiveness on Betel-Nut Use

April 8, 2023

Merry J.U. Remetira

The Relationship between Seagrass Cover and Water Physicochemical Parameters in Achang Bay, Guam

Atasha Bautista

Evaluating the Vulnerability of Guam's Water Production Wells Through a Solute Transport Model

David Quichocho

A Comparison of "Adult Generation Z" and "Baby Boomer" Perceptions on Chamorro Traditional Healing

Britney J. Sison

Assessing the Impact of COVID-19 on the Mental Health of College Students in Guam

Liann Torres

The Relationship between Sleep and Stress among University of Guam Students