



Panama/US Workshop in support of the LSAMP-NICE Center of Excellence

Salón Coiba, Second Floor, SENACYT, Feb 28-March 1, 2019

Wednesday, Feb 27, 2019. Arrival - Check in to City of Knowledge housing, *Dinner on your own.*

Thursday, Feb 28, 2019. US Delegates 8:00-9:00 am breakfast on your own at the food court

09:00 - 09:15 am	Welcome and Introductions (Canal Authority, SENACYT, LSAMP-NICE)
09:15 - 9:30 am	Overview of LSAMP-NICE, Randy Duran LSU
09:30 - 10:30 am	<i>Poster Session 1 – Americans –Networking around posters</i>
11:00 - 11:45 am	The Fulbright Program in Panama, Sarah Ferguson de Cano, Cultural Affairs Attache, US Embassy in Panama
11:45 - 12:00 md	Coffee Break
12:00 - 12:45 pm	The National Research System (SNI) and the importance of International collaboration, Omar Lopez (SNI)
12:45 - 01:30 pm	Gamma Rays from Lightning – Measurements from CENAMEP– Mike Cherry (LSU) and Javier Arias, CENAMEP
01:30 - 03:00 pm	Lunch
03:00 - 03:45 pm	Panama Canal Watershed Socio environmental Management, by Angel Ureña, MSc., Panama Canal Authority
03:45 - 04:30 pm	A century of Smithsonian science in Panama, Matt Larsen, STRI Director
04:30 - 06:00 pm	<i>Poster Session 2 - Panamanians - Networking around posters</i>
06:00 - 08:00 pm	Networking dinner at the City of Knowledge, Taberna del Canal
08:30 pm	Drinks at the Atlantic and Pacific Restaurant – Miraflores locks second floor balcony Panama Canal





Friday, Mar 1, 2019. US Delegates 8:00-9:00 am breakfast on your own at the food court

09:00 - 9:15 am	Announcements and Day 2 workshop charge, Randy Duran and Steve Dupuis
9:15 - 10:00 am	Reflections on Puerto Rico LSAMP connections with Panama/Conectando a Puerto Rico y Panamá mediante la colaboración científica y el programa PR-LSAMP Pablo A. Llerandi Román, University of Puerto Rico, Rio Piedras
10:00 – 10:30 am	Collaborations with the Ngabe Bugle Peoples, Evidio Adams, University of Panama
10:30 – 11:00 am	Informal comments on the histories of the Ngabe and Bugle Peoples, Richard Cooke, STRI
11:00 – 11:45 am	The Heritage/Ngäbe-Buglé collaboration - Jessica Black, Heritage University and Celestino Mariano Gallardo, Commissioner of International Affairs, Ngäbe-Buglé peoples.
11:45 - 12:30 md	Water Management in the Panama Canal, by Abelardo Bal, MSc. Panama Canal Authority
12:30 - 01:30 pm	Lunch
01:30 - 02:15 pm	Best Practices for Mentoring LSAMP and Undergraduates in Research-Ann Nalley, Cameron University and Oklahoma LSAMP
02:15- 02:30 pm	Closing remarks – Claudia Guerrero, Director of International Partnerships, SENACYT





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US Delegates

1. **Puerto Rico LSAMP** – Pablo A. Llerandi Román, the longtime PR LSAMP Associate Director will report on numerous student successes involving the Canal Authority, STRI, SENACYT and universities. He will also introduce some newer faculty interests across the twelve universities in his alliance
2. **California State University LSAMP** – Buck Banks who runs the CSU-LSAMP summer research program in Costa Rica will attend. He has extensive experience in Costa Rica and is particularly interested in sustainable coffee. His own campus at CSU Monterey Bay has extensive interests in areas of interest to the Canal Authority, STRI, and others. He has connected with the CSU LSAMP main office and will serve as a representative for the 23 universities in this LSAMP.
3. **California LSAMP** – Rich Cardullo, the overall CAMP PI at UC Riverside will participate based on broad interest involving several research areas. Interests at his own campus of UC-Riverside include Conservation Biology, Environmental Sciences, Tropical Ecology, Marine Biology, and potential public policy issues that are related to STEM disciplines (especially as they relate to LatinX populations). This AMP includes eight other universities from the University of California system: UC Santa Cruz, Merced, Santa Barbara, Berkeley, UCLA, Irvine, Davis, and San Diego. It includes numerous faculty that have published with STRI and other Panamanian stakeholders.
4. **Iowa LSAMP IINSPIRE** Sharmin Sikich, Doane College will attend as an Assistant professor, but she is working with AMP leadership and the Iowa State VP Research office to give a holistic poster. Iowa State has numerous interactions with Panama across agricultural research, infectious disease and other themes and an active NSF grant (1556853) on co-diversification of figs and fig wasps. Iowa LSAMP has 15 additional universities
5. **New Mexico LSAMP** – Bruce Harrison, Associate Professor in Earth & Environmental Sciences at New Mexico Tech– and LSAMP liaison has extensive experience with Panama. Interests span agriculture and environmental science to hydrology to materials science. New Mexico LSAMP comprises 12 other institutions.
6. **Texas A&M LSAMP and Centennial Fisheries PIRE** – Chris Bird TAMU Corpus Christi will represent the alliance, Dr. Bird has an active international research program addressing bioinformatics, marine conservation genomics and fisheries management and directs the Genomics Core Laboratory which services molecular research world-wide. Dr. Bird is very interested in starting new relationships and building upon an existing collaboration enabled by the Diversity of the Indo-Pacific Network (coPI), an NSF-funded research coordination network that seeks to promote research in molecular ecology across the Indo-Pacific region and serves on the network's steering committee with Panamanian researcher, Dr. Harilaos Lessios (STRI)., he is co-PI of NSF Diversity of the Indo-Pacific Network (coPI) with Panamanian researcher, Dr. Harilaos Lessios (STRI). Chris is also co-PI of PIRE: Centennial Genetic and Species Transformations in the Epicenter of Marine Biodiversity and seeks Panamanian collaborators (NSF 1743711 with focus on the Philippines). Texas A&M LSAMP includes dozens of other researchers across its four institution and currently collaborating or eager to collaborate with Panama across engineering, environmental, and many other areas.





CANAL DE PANAMÁ



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7. **All Nations LSAMP** Steve Dupuis is the Director and also PI of LSAMP-NICE., He has been supported by NSF for more than 20 years. All Nations LSAMP involves more than 30 Tribal Serving institutions in thirteen US States.
8. **Heritage Univ** is an Hispanic Serving Institution and Tribal Serving institution adjacent to the Yakama reservation in Washington State. Jessica Black, Heritage, and Celestino Mariano Gallardo of the Ngabe Bugle peoples will team to give one presentation. Their research involves MOUs between the Nagbe Bugle Comarca and UNACHI and Univ Panama on water and other environmental themes that span multiple indigenous communities in the US, Panama, and Costa Rica. At the invitation of Rectora of UNACHI, this group will be leading a pre-workshop visit to UNACHI and also to the Comarca
9. **The Ciguatera PIRE** , Mindy Richlen from the Woods Hole Oceanographic Institute is one of the co-PIs of this new multimillion dollar NSF award (1743802) will attend. PI Alison Robertson, coPI Mindy and collaborators at Woods Hole, Texas-Austin, Univ. Virgin Islands, and Florida Gulf Coast seek Panamanian collaborators in the theme of global strategies for ciguatera fish poisoning, and several other marine science areas.
10. **Michigan LSAMP** Todd Troutman is the Dean of Science and Mathematics at Mott Community College. He is also leading his institutions efforts in the bridge to the baccalaureate program and the associated research experiences. The six institutions in Michigan LSAMP also include the University of Michigan, Ann Arbor
11. **Peach State (Georgia) LSAMP** , Angela Birkes, the director will attend. Univ Georgia maintains a campus in central America. This LSAMP includes Georgia Tech as well and Angela will be seeking collaborators in a range of research fields from all six additional institutions in this LSAMP
12. **CISTAR ERC**, Adrian Thomas will represent this brand new NSF Engineering Research Center that has a focus on catalysis and chemical transformation and spans Purdue, Univ New Mexico, Texas-Austin, Northwestern Univ., and Notre Dame
13. **LSU**, Michael Cherry is a professor of physics and chairman of the chemistry department. He will attend as a delegate and is a collaborator with CEMAMEP and recipient of several grants.
14. **Oklahoma LSAMP** , Ann Nalley of Cameron University will represent OK LSAMP and its 11 other institutions. Dr Nalley, a chemist, is a passionate and long-lime LSAMP mentor, past president of the American Chemical Society, Chairperson of the Malta Conferences, and 2019 IUPAC Woman of the Year in Science
15. **Amanda Wendt**, Amanda will represent the Organization for Tropical Studies and is on the faculty at the La Salva research station. Dr Wendt also directs the NSF OTS summer REU program.

