



El Colegio de la Frontera Sur (ECOSUR) – Unidad Chetumal
Universidad de Quintana Roo (UQROO)
University of Belize (UB)
Embassy of Mexico in Belize (EMBAMEX)
Universidad Juárez Autónoma de Tabasco (UJAT)

Presentation

The purpose of this event is to promote human empowerment, social cohesion and mutual binational understanding through collaboration on research and academic projects among institutions, and by sharing knowledge on current activities involving students, teachers and researchers from both countries. These projects demonstrate the vitality, as well as the potential of academic interaction in our common region. Our expectation is for this initiative to become the foundation for continued scientific exchange between Mexico and Belize.

Due to the relevance of the topic of Sustainable Development in the Maya World, this 4th Binational Seminar aims at: a) identifying past and current academic cooperation activities in this field; b) systematizing these activities; and c) seeking strategies to promote and strengthening sustainable development in the two countries.

Agenda

Day/Time	Activities
Thursday October 4	
8:00 am-8:30 am	Registration/Proceedings/Poster Exhibition at <i>The George Price Centre for Peace and Development</i>, Belmopan, Cayo
8:30 am-9:00 am	Keynote speech-Introduced by Ambassador Carlos Quesnel Susan Morrice Founder & Chairperson, <i>Belize Natural Energy</i> (BNE) “Dare to dream big together... for our students, ourselves, our communities and the entire region: Education in Action”
9:00 am-9:20 am	Q & A
SESSION 1: ENVIRONMENTAL PROTECTION (I) MODERATOR: DR. SANTOS CHICAS (UB)	
9:20 am-9:35 am	Dra. Elva Escobar Directora ICML-UNAM “Colaboración del ICML con la Universidad de Belice”
9:35 am-9:50 am	Dr. Kenrick Leslie Caribbean Community Climate Change Centre (CCCCC) “Climate change and development”
9:50 am-10:05 am	Coffee break
10:05 am-10:20 am	Janelle Chanona <i>Oceana</i> , Belize “Esfuerzos de protección de la barrera de coral de Belice”
10:20 am-10:35 am	Jané Salazar, Andreina Acosta and Leandra Cho-Ricketts ERI-UB “Turneffe Atoll, Belize: Insights into commercial fishing at an offshore atoll”
10:35 am-10:50 am	Ninon Martinez and Leandra Cho-Ricketts ERI-UB “The early effects of fisheries legislative and practical reform on fish biomass, diversity and abundance within the Turneffe Atoll”
10:50 am-11:05 am	Armando León, Inocente Bojórquez and Alfonso González UQROO “Solid waste management and its relationship with tourist activity. From the end of the 19th Century to the beginning of the 21st Century in Chetumal, Mexico”
11:05 am-11:30 am	Q & A

11:30 am-13:00 pm Lunch

SESSION 2: ENVIRONMENTAL PROTECTION (II)
MODERATOR: DR. ELMA KAY (UB)

13:00 pm-13:15 pm **Mtro. Andrés Galván**
CILA México-Belice
"Management of hydraulic resources in the International Border and Water Commission between Mexico and Belize"

13:15 pm-13:30 pm **Hugo Lazcano, Javier Arellano and Héctor Hernández**
CONACYT/ECOSUR
"Metodología para el análisis espacio-temporal de datos satelitales: Caso de uso del Banco Chinchorro"

13:30 pm-13:45 pm **Arlenie Rogers**
ERI-UB
"*Holothuria floridana* and *Isostichopus badiotus* sea cucumber culture in former shrimp ponds; A Belize case study"

13:45 pm-14:00 pm **Coffee break**

14:00 pm-14:15 pm **Luis Mejía, Jair Valladares, Marilú López, Jesús Cupul and Oscar Frausto**
UQROO-Cozumel
"Decapod crustaceans' diversity in streams, caves and rivers in Belize"

14:15 pm-14:30 pm **Rebecca Wooldridge**
UB
"The functional role of scent-marking in the social organization of large sympatric neo-tropical felids"

14:30 pm-15:00 pm **Q & A**

SESSION 3: TOURISM, ENTREPRENEURSHIP AND WEALTH CREATION
MODERATOR: DR. MANUEL ELÍAS GUTIÉRREZ (ECOSUR)

15:00 pm-15:15 pm **John M. Burgos**
BTIA
"Environmental protection and management in the tourism sector"

15:15 pm-15:30 pm **Karla González**
UQROO
"Análisis de las políticas de género en el sector de servicios turísticos hoteleros"

15:30 pm-15:45 pm **Coffee break**

15:45 pm-16:00 pm **Francisco J. Güemez Ricalde, Samantha Hernández and Celeste Cauch**
UQROO
"Environmentally certifiable tourist destinations: A market strategy"

16:00 pm-16:15 pm	Guillermo Velázquez UQROO “Zonas arqueológicas, visitantes y desarrollo sostenible: Normatividad como base”
16:15 pm-16:30 pm	Francisco J. Güemez Hernández and Francisco J. Güemez Ricalde UACoahuila “Psychophysiological analysis of advertising archetypes for the promotion of tourism”
16:30 pm-16:40 pm	Jair Santoya Central Bank of Belize “Cultural Tourism in Belize: Analyzing the Archaeological segment”
16:40 pm-16:50 pm	Q & A

SESSION 4: RECOVERING/PROTECTING RESOURCES
MODERATOR: MS. KAREN BAUTISTA (UB)

16:50 pm-17:05 pm	Anabel Ford, Cynthia Ellis Topsey and Narciso Torres Exploring Solutions Past ~ The Maya Forest Alliance “El Pilar Archaeological Reserve for Maya Flora and Fauna and the Maya Forest Garden”
17:05 pm-17:20 pm	Pilar Barradas and Mónica Chargoy UQROO “Gestión de recursos forestales”
17:20 pm-17:40 pm	Candelario de los Santos, Laura Díaz, María de los Ángeles Olán, Miguel Ángel Hernández and Angélica López UJAT “Application of biogenic calcium carbonate for the removal of aqueous metals”
17:40 pm-18:00 pm	Q & A
18:00 pm-19:00 pm	POSTER SESSION (see list below)
19:00 pm – 21:00 pm	Institutional Leaders Meeting

Day/Time	Activities
----------	------------

Friday October 5

Proceedings at *The George Price Centre for Peace and Development*, Belmopan, Cayo

8:30 am-9:00 am	Keynote speech-Introduced by Professor Emeritus Clement Sankat Dr. Mario González Espinosa, Director General, ECOSUR “Papel de ECOSUR en el desarrollo sustentable de la Frontera Sur de México y el Caribe”
9:00 am-9:30 am	Q & A

SESSION 5: MIGRATION AND RURAL DEVELOPMENT (I)
MODERATOR: DR. JAVIER ARELLANO (ECOSUR)/DR. LUIS MEJÍA ORTIZ (UQROO)

9:30 am–9:45 am	Dr. Guillermo Ramírez Armas UJAT “Proceso migratorio en la frontera sur”
9:45 am-10:00 am	María Guadalupe Ortíz ECOSUR-San Cristobal “Marco de gobernanza sobre las migraciones: Un análisis de las políticas del gobierno mexicano”
10:00 am-10:15 am	Oscar Reyes, Lorenzo Reyes, Miguel Ángel Barrera COLEF “Análisis cualitativo de contenido de los planes estatales de desarrollo de Quintana Roo (2005-2016) respecto a lo Maya como sujeto de política pública, rural y social”
10:15 am-10:45 am	Q & A
10:45 am-11:30 am	Transportation to BNE facilities in Spanish Lookout

SPECIAL SESSION AT BELIZE NATURAL ENERGY (BNE)
MODERATORS: DRA. LAURA LORENA DÍAZ FLORES (UJAT) /
CARLOS ERNESTO LOBATO GARCÍA (UJAT)

11:30 am-11:50 am	Chief Executive Officer BNE “An overview of BNE”
11:50 am-12:05 am	Albert García BNE “Education in Action: BNE as a case study”
12:05 am-12:20 pm	Q & A
12:20 pm-13:00 pm	Lunch
13:00 pm-14:00 pm	Tour of BNE facilities

SESSION 6: MIGRATION AND RURAL DEVELOPMENT (II)
MODERATOR: DRA. MARTHA GARCÍA (ECOSUR)

14:00 pm-14:15 pm	Rene Chuc IOM “Perspectives of immigration in Belize”
-------------------	--

14:15 pm-14:30 pm	Emma Velázquez UQROO-Cozumel “Turismo y capital social cognitivo: Paradigma emergente para el desarrollo rural sustentable de las comunidades Mayas”
14:30 pm-14:45 pm	Q & A
14:45 pm-15:00 pm	Coffee break
15:00 pm-15:15 pm	María Cristina Osorio Universidad Anáhuac Mayab-Mérida “Enhancing sustainable rural development through girls’ education”
15:15 pm-15:30 pm	Patricia Susial and Birgit Schmook ECOSUR “Challenges to scaling out agro-ecological systems for food sovereignty and social equity in the highlands of Chiapas, Mexico: A case study around the <i>Tianguis ‘Comida Sana y Cercana’</i> ”
15:30 pm-15:45 pm	Kelleen Corrigan UNHCR “The MIRPS Process: How Refugee Protection can Promote Sustainable Development in Belize and the Region.”
15:45 pm-16:15 pm	Q & A
16:15 pm-16:30	Vote of Thanks/Closing Remarks Professor Emeritus Clement Sankat
16:30 pm	End of event and return to UB Belmopan Campus

LIST OF POSTERS

UJAT, **Jorge Reyes, Dora Frías and Ebelia Meráz**, “Cuantificación de contaminantes climáticos a través de escenarios de demanda energética en el sector transporte”

UJAT, **Jorge Torres, Luis Roa and Carlos Lobato**, “Aplicación de criterios de sustentabilidad en una secuencia sintética”

UJAT, **Jorge Antonio, Nancy Romero and Carlos Lobato**, “Un método verde para la síntesis de chalconas sustituidas con flúor”

UQROO, **Abymael Durán, Daniel Farah and Norma Urzúa**, “RCP Hands Only más necesario que nunca: Implementación de talleres en la División de Ciencias de la Salud, Universidad de Quintana Roo”

UQROO, **Héctor May, Jacinto Mendoza and Norma Urzúa**, “Analysis of pharmacological and

bio-informatic studies of natural products of traditional Maya use in Quintana Roo”

UQROO, **Jennifer Ruiz, Adrián Cervantes and Martha Gutiérrez**, “Propuesta de una área de protección especial para el ecosistema de manglar en Playa del Carmen, Quintana Roo”

UQROO, **Jennifer Ruiz, Oscar Frausto and Víctor Delgado**, “Resiliencia de Playa del Carmen, Quintana Roo: Aplicando la herramienta *Coastal Resilience Index (CRI)*”

UQROO, **Roger Quiñones Esparza**, “Water from a risk management perspective”