

Tuesday October 04

10:00 Registration

10:30 **Welcome ceremony**

Dr. Alfredo Ortega Rubio, Managing Director of CIBNOR

Dra. Gracia Gómez Anduro, Director of Graduate Studies, CIBNOR

11:00 **Dr. Anthony Charles**, Professor, St. Mary's University, Canada
Sustainable Fishery Systems: Bio-Socio-Economic Perspectives and Social-Ecological Systems

Keynote speech

12:00 Coffee break

Fishery bioeconomics session

12:20 **Alvaro Hernández-Flores**, Universidad Marista de Mérida
Bioeconomic spatial modeling to address the Allee effect in a fishery.

12:40 **Victor G. Vargas-López**, Centro Interdisciplinario de Ciencias Marinas-Instituto Politecnico Nacional

Co-management of a high-value specie with a territorial use right for fishing: a spatial bioeconomic approach with environmental variability.

13:00 **Oswaldo U. Rodríguez García**, Universidad Autónoma de Baja California Sur
Recovery timelines of vulnerable high-value species under moratoria: Dealing with uncertain levels of illegal fishing

13:25 **Juan Carlos Padilla Hernández**, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional

Is the green abalone (*Haliotis fulgens*) fishery from Mexico at risk?: The consequences of no action

13:40 **Thelma Monica Ruiz Barreiro**, Centro Interdisciplinario de Ciencias Marinas-Instituto Politecnico Nacional

Viability of reactivation of a sports-recreational totoaba fishery (*Totoaba macdonaldi*, Gilbert 1890) in the Upper Gulf of California

14:00 Recess

15:00 **Ricardo Anthony Morris**, Universidad Marista de Mérida
Bioeconomic and Spatial Analysis for the Ecosystem Approach to Fisheries Targeting Benthic Density-Dependent Species: A case study of queen conch (*Aliger gigas*) on the Pedro Bank, Jamaica.

15:20 **Mayra Benítez-Arellano**, Universidad Marista de Mérida
A disaggregated model to analyze short-term decisions in a small-scale fishery.

- 15:40 **Noé Vallejo Bañuelos**, Universidad Autónoma de Baja California Sur
High-frequency thermal variability of geoduck clam (*Panopea globosa*) habitat
in the lagoon complex Magdalena-Almejas, BCS, Mexico.
- 16:00 **Germán Ponce Díaz**, Centro Interdisciplinario de Ciencias Marinas- Instituto
Politecnico Nacional
Book presentation: Gobernanza Pesquera México-España
- 16:40 Transportation to La Paz 17:00

Wednesay October 05

10:00 **Session to Honor Dr. Daniel Lluch Belda**, Professor of the Inter-institutional Doctoral Program in Bioeconomics of Fisheries and Aquaculture
Dr. Alfredo Ortega Rubio, Managing Director of CIBNOR
Dr. Pablo Arenas, General Director of INAPESCA
Ms. Olga Freda Cota de Lluch
Dr. Fernando Aranceta Garza, Former PhD student

Fishery bioeconomics session

11:00 **Leopoldo E. Palomo Cortés**, Universidad Marista de Mérida
 Economic Impact of the Flat fishing in Quintana Roo Mexico.

11:20 **Francia K. G. Zamora-Sarabia**, Centro Interdisciplinario de Ciencias Marinas- Instituto Politecnico Nacional
 Bioeconomic assessment of the thread herring (*Opisthonema spp*) fishery in the southern Gulf of California

11:40 **Pablo Mora-Zamacona**, Centro de Investigaciones Biológicas del Noroeste, S.C.
 Bioeconomic analysis of Pacific hake (*Merluccius productus*) in Baja California Sur, Mexico: management alternatives for an emerging fishery

12:00 Coffee break

12:20 **Ernesto A. Chávez**, Centro Interdisciplinario de Ciencias Marinas- Instituto Politecnico Nacional
 Stock effect of bio-economic indicators in an over-exploited fishery of the Gulf of Mexico.

12:40 **Sergio Hernández Casas**, Centro de Investigaciones Biológicas del Noroeste, S.C.
 Price forecast for mexican red spiny lobster (*Panulirus spp.*) using artificial neural networks (ANNs).

13:00 **Manuel J. Zetina-Rejón**, Centro Interdisciplinario de Ciencias Marinas- Instituto Politecnico Nacional
 Simulated ecosystem effects for data-poor small-scale fisheries using science-based and local ecological knowledge-based models.

13:20

Addiel U. Perez, Bonefish & Tarpon Trust, Miami, Florida

13:40	<p>Evaluation of the flats fishery to formulate a strategic conservation plan to address fisheries and protected areas management in the Yucatan Peninsula of Belize and Mexico.</p> <p>Hector Reyes Bonilla, Universidad Autónoma de Baja California Sur Socioeconomic effects of COVID-19 pandemic on fisheries in Baja California Sur, Mexico.</p>
14:00	Poster session & Recess
15:00	<p>PingSun Leung, Professor Emeritus, University of Hawaii, Manoa, Hawaii A humble journey and reflection of a bioeconomic modeler Keynote speech</p>
16:00	<p>Víctor Hernández Trejo, Universidad Autónoma de Baja California Sur Climate variability effects on economic returns for the Mexican Pacific small pelagic fishery.</p>
16:20	<p>Luis Cesar Almendarez, Centro Interdisciplinario de Ciencias Marinas- Instituto Politecnico Nacional The bioeconomic effect of the environmental variability on natural mortality in a low mobility species</p>
16:40	Trasportation to La Paz 17:00

Thursday October 06

Aquaculture bioeconomics session

- 10:00 **Humberto Villarreal Colmenares**, Centro de Investigaciones Biológicas del Noroeste, S.C.
Aquaculture: current status and future trends.
President of the World Aquaculture Society
Keynote speech
- 11:00 **Daniel Peñalosa Martinell**, Centro de Investigaciones Biológicas del Noroeste, S.C.
Building confidence in innovation: a novel approach to valuating new technologies in aquaculture
- 11:20 **Babatunde Olaseni Musa**, Universidad Marista de Mérida
Bioeconomic analysis of intensive African Catfish *Clarias gariepinus* cultivation with three sources of uncertainty occurring simultaneously.
- 11:40 **Raul Villanueva Poot**, Universidad Marista de Mérida
Bioeconomic modelling as a tool to assess genetic improvement technology facing possible climate change effects on aquaculture.
- 12:00 Coffee break
- 12:20 **Lavinia Númez Amao**, Universidad Autónoma de Baja California Sur
Stochastic analysis of production dynamics of male and female redclaw crayfish (*Cherax quadricarinatus*).
- 12:40 **José A. Duarte Canul**, Universidad Marista de Mérida
Bioeconomic analysis of the potential effects of ocean acidification on the cultivation of a resilient calcifier species.
- 13:00 **Nallely Estrada Pérez**, Escuela Nacional de Ingeniería Pesquera, Universidad Autónoma de Nayarit (UAN)
Economic risk scenarios for semi-intensive production of *Penaeus vannamei* shrimp affected by acute hepatopancreatic necrosis disease (AHPND)
- 13:20 **Alberto E. Beltrán Medina**, Universidad Marista de Mérida
Bioeconomic analysis of Yellowtail snapper (*Ocyurus chrysurus*) production with a price differentiation considering the size heterogeneity
- 13:40 **Visit to CIBNOR aquaculture facilities**

- 15:00 **Victor. H. Fuentes-Andraca**, Centro Interdisciplinario de Ciencias Marinas- Instituto Politecnico Nacional
Modeling the growth of an intensive pre-growout of nile tilapia *Oreochromis niloticus* in a biofloc system
- 15:20 **Marco A. Martínez-Muñoz**, Instituto Politécnico Nacional - Unidad Profesional Interdisciplinaria de Ingeniería y Ciencias Sociales y Administrativas
Experimental analysis with prototype trawls that allow the escape of non-target fauna in shrimp fishing in the south Pacific, Mexico.

Socioecological session

- 15:40 **Claudia María Fumero-Andreu**, Centro Interdisciplinario de Ciencias Marinas- Instituto Politecnico Nacional
Structural patterns that condition the resilience of the governance system of two MSC certified fisheries: red lobster in Baja California and small pelagics in Sonora
- 16:00 **Eva Coronado Castro**, El Colegio de la Frontera Sur - Unidad Campeche
What do we know about the artisanal fisheries socio-ecological system in the petroleum area from the Southwest Gulf of Mexico?
- 16:20 **Jorge E. Gerónimo-Salaya**, Centro Interdisciplinario de Ciencias Marinas- Instituto Politecnico Nacional
State of the food security in the small-scale fishing sector of the Gulf of Ulloa, in the Baja California peninsula, Mexico
- 16:40 Transportation to La Paz 17:00

Friday October 07

- 10:00 **Andrés M. Cisneros-Montemayor**,
Ocean Nexus, School of Resource and Environmental Management, Simon Fraser University, British Columbia, Canada
Mexican fisheries subsidies: myths and realities on paper and at sea
Keynote speech
- 11:00 **Addiel U. Perez**, Bonefish & Tarpon Trust, Miami, Florida
Common perspectives and new paradigms in coastal fisheries management of Belize and southern Mexico
- 11:20 **Manuel J. Zetina-Rejón**, Centro Interdisciplinario de Ciencias Marinas- Instituto Politecnico Nacional
Stakeholder diversity correlates with governance network performance in two artisanal fisheries in Northwest Mexico
- 11:40 **Marian Rodríguez Fuentes**, Centro Interdisciplinario de Ciencias Marinas- Instituto Politecnico Nacional
Resilience of the shrimp fishery supply network in Magdalena-Almejas Bay, Mexico.
- 12:00 **Leopoldo E. Palomo Cortés**, Universidad Marista de Mérida
The Mexican Caribbean Flat Fishery: A Social-Ecological System Approach
- 12:20 **Humberto Villarreal Colmenares**, Centro de Investigaciones Biológicas del Noroeste, S.C.
Economic implications of redclaw crayfish, *Cherax quadricarinatus*, culture intensification in Mexico
- 12:40 **Closing ceremony**
- Dr. Alfredo Ortega Rubio**, Managing Director of CIBNOR
Dra. Gracia Gómez Anduro, Director of Graduate Studies, CIBNOR

Poster session	
1	Enrique Alfonso González Durán , Facultad de Ciencias Químico Biológicas, Universidad Autónoma de Campeche Sustainability, gender and distribution of economic benefits from ecotourism in Isla Arena, Campeche, Mexico
2	Gabriel de Jesús Rodríguez Jordan , Centro de Investigación en Computación - Instituto Politécnico Nacional Temperature assessment fuzzy model for <i>Litopenaeus vannamei</i> culture
3	Jennifer Judith Peniche Burgos , Universidad Veracruzana Basic biological features of crab fisheries in a coastal lagoon in the southwestern Gulf of Mexico
4	José Luis Aragón Gastélum , Facultad de Ciencias Químico Biológicas, Universidad Autónoma de Campeche Field activities to study the density of sea cucumber <i>Holothuria floridana</i> in Isla Arena, Campeche, Mexico
5	José Luis Cruz Sánchez , Universidad Marista de Mérida La pesquería secuencial de camarón rosado (<i>Farfantepenaeus duorarum</i>) en el sur del golfo de México
6	Magda Estela Domínguez Machín , Universidad Marista de Mérida Bioeconomic analysis of american oyster culture in the coastal lagoon of Rio Lagartos, Yucatán
7	Oswaldo Rodríguez García , Universidad Autónoma de Baja California Sur The involvement of organized crime in the geoduck clam illegal fishing in Bahía Magdalena, Baja California Sur: from anecdotal evidence to scientific assessment