

# AQUACULTURE 2022 SESSION UPDATES

Page number refers to the page in Blue Pages in Directory where original session agenda was printed

- Page 17      Aquatic Veterinary Medicine  
12:15   Koppien-Fox      **Moved to StriperHub on March 3 at 9:00**
- Page 19      Physiological Insights  
4:15    Ott                      **Canceled**
- Page 20      Shrimp Nutrition - Added  
**12:45**   **Gabriela Gaxiola**, Grecia Montalvo, Martin Arenas, Alvaro Barreto, Karla Escalante, Gerard Cuzon  
PHYSIOLOGICAL STATUS OF *Farfantepenaeus brasiliensis* LATREILLE (1817) BROODSTOCK MALES FED VITAMIN C-SUPPLEMENTED DIETS
- Page 26      One Health Epigenomes  
**Add**  
**5:00**    **Alexandra Hrdina**, Igor Iatsenko  
THE ROLE OF METALS IN INSECT-MICROBE INTERACTIONS AND IMMUNITY: METALLOMICS OF INTERSPECIES INTERACTIONS
- Page 31      Fish Health  
1:30    Han                              **Canceled**  
4:00    Wargo                          **Canceled**
- Page 34      Flatfish  
9:30    Seo                               **Canceled**
- Page 36      IAAEM Economics and Management - Added  
**11:15**   **Andrea Monroy-Borrego**, Patricia Borrego-Kim, Roger Domínguez-May, Mariel Gullian-Klanian  
BIOECONOMIC MODELING OF OPTIMAL HARVEST TIME IN NILE TILAPIA (*Oreochromis niloticus*) CONSIDERING SIZE HETEROGENEITY AND MINIMUM MARKETABLE SIZE
- Page 38      Aquaponics – Special Session  
3:30    Schmitz                        **Moved from Aquaponics Session on March 4 at 2:45**
- Page 39      Celebrating NOAA Engagement  
8:30, 8:50, 1:30              **replace** Otoshi with Seth Theuerkauf  
3:15    **add** Megan Davis
- Page 40      Offshore Aquaculture  
11:00   Purcell                      **Canceled**  
**Added**  
**11:00**   **Tyler Korte**  
US OFFSHORE MARICULTURE: SUSTAINABLE FINFISH CULTURE THROUGH WELFARE MANAGEMENT AND ENVIRONMENTAL MONITORING  
11:30   Windham                      **Canceled**

- Page 41      Offshore  
1:30 Johanneson      **Canceled**  
**Add**  
**1:30 Rex Ito**  
SALES AND MARKETING OF SASHIMI QUALITY TUNA AND FINFISH FROM  
OFFSHORE FARMS  
  
11:00 Purcell      **Canceled**
- Page 47      Shellfish Genetics  
11:15 Krause      **Canceled**
- Page 50      Ornamentals – **Added**  
3:15 Susan Laramore  
EFFECTS OF CULTURE SYSTEM AND DIET ON AMPHIPOD *Parhyale hawaiiensis* PRODUCTION
- Page 51      Shellfish and Finfish Contaminants  
9:00 Boley      **Canceled**
- Page 53      Advances in Aquaculture Planning and Policy  
12:15 Gross      **Canceled**
- Page 55      Shellfish Planning Initiatives  
9:00 Getchis      **Canceled**
- Page 59      Shrimp Health  
11:45 Yingsunthonwattana      **Canceled**
- Page 63      California’s Aquaculture Journey - **Added**  
**4:00 Torre Polizzi**  
MICRO 2 MACRO: ADVANCING KELP FARMING ON THE WEST COAST OF THE UNITED STATES  
  
Aquacultural Engineering Society Session  
1:45 Kasera      **Canceled**  
  
**Added**  
**1:45 Matthew Moldovan, Jacob Schloss**  
RAPID VIDEO SYSTEM DEVELOPMENT WITH OPALEYE, AN OPEN SOURCE PORTABLE VIDEO  
TOOLKIT
- Page 64      Aquacultural Engineering Society Session  
4:00 Hall      **Canceled**  
**Added**  
**4:00 Bijoy Kumar Ghosh**  
HYDRAULIC IMPACT ON FISH MIGRATION IN A SARIAKANDHI FISH PASS OF BANGLADESH

Page 67 Ecology Environment and Wild Culture

4:45 McAllister **Canceled**

**Moved from 5:30**

**4:45 Gretchen Grebe**, Loretta Roberson, David Bailey, Cliff A. Goudey, Hauke Kite-Powell, Scott Lindell, Domenic Manganelli, Michael Marty-Rivera, Crystal Ng, Charles Yarish

DEVELOPMENT OF CULTIVATION SYSTEMS AND BEST MANAGEMENT PRACTICES FOR SEAWEED AQUACULTURE IN THE TROPICAL U.S. AND CARIBBEAN

Page 69 Mangrove Shellfish

4:00 Tang **Canceled**

**Add**

**4:00 Acacia Alcivar-Warren**

Mangrove Reforestation of the Chone River Estuary of Ecuador

Page 71 Finfish Genetics - **Added**

**9:45 Kimia Kajbaf**, Mosope Abanikanda, Denina Simmons, Vikas Kumar

STUDYING THE UNDERLYING MECHANISM OF GROWTH IN RESPONSE TO COMPENSATORY FEEDING REGIME: A PROTEOMICS APPROACH

Page 72 East Coast Shellfish

9:00 Barr **Canceled**

Page 73 East Coast Shellfish

10:30 Getchis **Canceled**

Genetic Engineering

9:00 Khalla **Canceled**

Page 74 Genetic Engineering

11:00 Kjaerner **Canceled**

Page 75 Parasites

11:15 Casuso **Canceled**

Page 75 Scallops – **Switch talks**

9:15 Roman is now 9:30

9:30 Clark is now 9:15

Page 76 Shrimp and Other Crustaceans – **Added**

**11:15 Dane Klinger**, Garrett Goto

A NATURE-BASED SOLUTIONS APPROACH TO SHRIMP AQUACULTURE EFFLUENT MANAGEMENT

**Page 77**      **Climate Change – Completely New Agenda – disregard full agenda in Blue Pages**

- 8:30 Cliff Cosgrove**, Michelle Rub  
NOAA's Office of Aquaculture scientists will discuss methods and results on the International Council for the Exploration of the Sea's (ICES) Workshop on Pathways to Climate-Aware Advice (WKCLIMAD).
- 8:45 Gregor Reid**, Leigh Howarth, Danielle Dempsey  
Climate Change vulnerability assessments and aquaculture
- 9:00 Daneille Dempsey**, Gregor Reid, Leah Lewis-McCrea, Nicole Torrie  
Coastal ocean monitoring at biologically relevant scales: supporting aquaculture risk management
- 9:15 Sarah Spiegler**, Jacob Boyd, Eric Herbst  
Incorporating Climate resilience into North Carolina's Shellfish aquaculture industry
- 9:30 Call Nichols**  
Finding common ground among US shellfish producers: a year on the road with the shellfish growers climate coalition
- 9:45 Angelo Depaola**  
Shellevator: scalable platform and method that automates and mobilizes shellfish aquaculture
- 10:00 Break**
- 10:30 David Peter, Mina Baya**  
Impact of climate change on fisheries and aquaculture in the developing world and opportunities for adaptation
- 10:45 Rebeca Mata**, Sara E. Boles, Tien-Cieh Hung, Jackson Gross  
Influence of rising ocean temperature on the red abalone *Haliotis rufescens* through changes in its food source, marine seaweed *Palmaria mollis*
- 11:00 Danielle Dempsey**, Gregor Reid, Ryan Orricks, Leah Lewis-McCrea  
Stocking size and growth rate estimates of Atlantic salmon under different coastal temperature profiles: guiding year-round and seasonal siting under a changing climate
- 11:15 Zhongqi Chen**, Brian Small, Chris Caudil, Ronald Hardy, Shawn Narum  
Genomic regions associated with thermal adaptation in redband trout *Oncorhynchus mykiss gairdneri*
- 11:30 Anthony (Kurt) Gamperl**, Zaman Sajid, Javier Santander, Chris Parrish, Albert Caballero-Solares, Sarah Lehnert, Ramon Filgueira, Stephanie Colombo, Cynthia MacKenzie, Gerald Singh  
Abiotic and biotic challenges facing salmon aquaculture in the era of climate change: understanding and managing interactive effects that result in mortality
- 11:45 Timothy Green**, Marissa Wright-LaGreca, Clara Mackenzie, Karen Leask  
Ocean acidification alters developmental timing and gene expression of ion transport proteins during larval development in resilient and susceptible lineages of the Pacific oyster *Crassostrea gigas*
- 12:30-1:30 Lunch**
- 1:30 Jeff Hetrick**, Alexis Valauri-Orton, Burke Hales, Jacqueline Ramsay, Kaitlyn Lowder, Maile Branson  
Adapting to the invisible: the pCO<sub>2</sub> to go as low-cost tool to address ocean acidification impacts in hatcheries
- 1:45 Don Kent**, Kat Montgomery  
Marine aquaculture can mitigate impacts of climate change and increase security of the world's seafood supply
- 2:00 Colin Beal**, Leda Van Doren, David Hazlebeck, Amha Belay, B. Greg Mitchell  
Sustainable aquafeed: producing microalgae with atmospheric CO<sub>2</sub> and solar electricity
- 2:15 Jennie Korus**  
The progress and future of automated plankton and water quality mitigation strategies in a changing climate
- 2:30 Heidi Alleway**  
Climate-friendly seafood: pathways for emissions reductions and carbon sequestration in marine aquaculture
- 2:45 Sally McGee**  
Wrap up & survey results

**Page 78**      **Education**

8:30    Brune      **Canceled**

**Page 80**      **Aquaculture Education**

4:00    Caajski      **Canceled**

Page 81      Aquaponics – Talk moved and new talk added

2:45    Schmitz moved to Aquaponics Special Session at 3:30

**Added**

**2:45    CARLOS LEON**

BIO-INTEGRATED AQUAPONICS: AN INTENSIVE COMMERCIAL PRODUCTION OF TILAPIA IN AN INTEGRATED AQUAPONICS SYSTEM USING ALTERNATIVE FISH FEED

Page 83      Fish Nutrition and Feeds –

12:00    Snyder              **Canceled**

**Added**

**12:00    Abigail Bockus**, Angela Casillo, Madison Powell, Wendy Sealey, Gibson Gaylord  
SHOULD WE BE REGULATING AQUAFEED PH?

**Added**

**12:30    Vikas Kumar**, Mosope Abanikanda, Liz Koutsos, Alejandra McComb

DIETARY SUPPLEMENTATION OF WHOLE AND/ PARTIALLY DEFATTED BLACK SOLDIER FLY LARVAL MEAL ENHANCES THE PLANT PROTEIN (SOYBEAN MEAL) UTILIZATION IN RAINBOW TROUT

Page 84      Vibriosis in Aquaculture

11:30    Kessel              **Canceled**

Page 85 & 86    Abalone

1:30    Boles              **Canceled**

2:00    Marshman        **Canceled**

2:45    Castro             **Canceled**

## POSTER ADDITIONS

**Board #123    Gianmarco David**, Evelize FS David, Vitória A Silva, Elisangela C. Caceris

REDUCING OFF FLAVOR IN TILAPIAS CULTURED IN EARTHEN PONDS BY MONITORING AND MITIGATING CIANOBACTERIA.

**Board #134    Fernando Yamamoto**, Jonathan Reifers, Penelope Lucas, Charles Walker, Matt Griffin, David Wise

LIPID SUPPLEMENTATION IMPROVED FEED EFFICIENCY AND PROTEIN UTILIZATION IN CHANNEL CATFISH (*Ictalurus punctatus*)

**Board #153    Hannah Farley**, Tim Regan, Mick Watson, Frederico Batista, David Bass, Tim Bean

EARLY EXPERIMENTS IN UNDERSTANDING THE ROLE AND OPTIMISATION OF THE MICROBIOME IN MOLLUSCAN LARVAL DEVELOPMENT

**Board #269    Beatriz Ibarra-Mendoza**, Beatriz Yáñez-Rivera, Luciana Raggi, Miguel Betancourt-Lozano, Bruno Gómez-Gil

GUT MICROBIOME DYSBIOSIS IN *Danio rerio* EXPOSED TO GLYPHOSATE

## LATE EXHIBITOR

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**124**

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