

SPECIAL SESSIONS PLANNED FOR AQUACULTURE 2019 IN NEW ORLEANS

The following special sessions, among others, are planned for Aquaculture 2019, the triennial conference of WAS in New Orleans, Louisiana from 7-11 March 2019. Potential contributors are urged to submit abstracts online through the WAS website as soon as possible.

AQUATOOLS: SMART SITING AND ENVIRONMENTAL MANAGEMENT - TOOLS FOR A GROWING AQUACULTURE INDUSTRY (NAA SPECIAL SESSION)

We live in a time when the need to manage aquaculture sustainably meets unprecedented technological capabilities. Good spatial planning, site selection, and farm design are critical to minimizing environmental impacts and ensuring business success. Environmental monitoring is often required to ensure environmental compliance, but similar approaches can also be used by farmers to improve production yield. We invite farmers, scientists, and policymakers to present on new innovations in this field. We particularly welcome topics that provide a cross-sectional perspective on the intersection of environmental management and smart business management.

Example topics could include, but are not limited to:

- Spatial planning and siting tools to inform management and business decisions for new aquaculture operations,
- New or innovative applications of environmental monitoring technologies for aquaculture (e.g. sensors and drones),
- Use of “big data” or remote sensing to inform aquaculture business and management,
- Integrated farm management and environmental monitoring approaches.

As an NAA Special Session, abstracts are welcome but not required for this session. Scientific and non-scientific talks are welcome, but presentations should be easily understood by a general audience. Session organizers are James Morris, NOAA National Ocean Service; Robert Jones, The Nature Conservancy. Contact Tiffany Waters(tiffany.waters@tnc.org) for more information.

PLANNING STRATEGICALLY FOR MARKETING AND FINANCIAL SUCCESS (NAA SPECIAL SESSION)

Sound business and marketing plans are crucial elements for success in both existing and start-up aquaculture businesses. Periodic evaluation of financial statements, reviewing and revising the business plan, and making small improvements each year are part of the recipe for success. We would like to invite you to share with us your experiences, knowledge, and tips for achieving marketing and financial success in aquaculture. Example topics could include, but are not limited to:

- Developing a business plan
- Identifying your target: “commodity” and/or “niche” markets
- Adapting to changing market trends
- Tools and software to help you stay on top of your finances
- What to do when nothing goes according to plan

As an NAA Special Session, abstracts are welcome but not required for this session. Scientific and non-scientific talks are

welcome, but presentations should be easily understood by a general audience. Session organizers are Ganesh Karunakaran (gkk27@msstate.edu) and Jonathan van Senten (jvansenten@vt.edu).

INTERACTIONS BETWEEN AQUATIC ANIMALS AND CONTAMINANTS OF EMERGING CONCERN

Microplastics, nanomaterials, and other contaminants of emerging concern (CEC) have received increased attention over the past decade because of their potential to produce deleterious effects on life stages of aquatic animals ranging from eggs to adults, and to transfer anthropogenic materials through the food chain. This special session will bring together a broad range of scientists whose research focuses on the ingestion, accumulation, trophic transfer, and impacts of emerging contaminants on commercially important aquatic species. Session co-chairs are Evan Ward, University of Connecticut (evan.ward@uconn.edu), Aswani Volety, University of North Carolina – Wilmington (voletya@uncw.edu), and John Scarpa, Texas A&M University – Corpus Christi (john.scarpa@tamucc.edu).

TAURINE

Taurine has garnered much interest in aquaculture research for the past two decades. We now know more about its requirement in several species, its biosynthetic pathway(s), and some functional use. Yet there are still many unanswered questions about that do-it-all beta amino acid. We welcome abstracts pertaining to biosynthetic pathway regulation across species, life stages and environments; impacts on other sulfur metabolism pathways; interactions with other nutrients; practical consequences on requirements, feed formulations, and feed management. The session organizer is Guillaume Salze (gsalze@auburn.edu).

PLANNING INITIATIVES TO GROW AQUACULTURE

This session will provide an opportunity to share information on targeted state, regional, or national planning efforts to grow aquaculture. We want to hear from industry, government, non-profits, extension, and other groups leading the charge to create or expand aquaculture opportunities in your region. Contact Tessa Getchis (tessa.getchis@uconn.edu) or Beth Walton (beth@oystersouth.com) for more information.

AQUACULTURE EDUCATION, EXTENSION AND OUTREACH

This session will provide an opportunity for presenters to showcase aquaculture education, extension, and outreach programs. Designed to be inclusive in scope, program updates, STEM, demonstration projects, innovative technology use, communication, and program evaluation techniques from around the world may be presented. Aquaculture awareness and the transfer of credible aquaculture information to stakeholders, regulators and the public remains one of the most important issues facing a growing industry. Session organizers are Kathryn Mitchell, Anoushka Concepcion, Kenneth Thompson and Forrest Wynne (fwynne@uky.edu).

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transfer and cooperation for the development of the industry and has been collaborating on research contracts with over 25 companies, including fish farmers, feed producers and pharmaceutical companies.

WAS FELLOWS

Dinesh Kaippilly

Dinesh Kaippilly is Head of the Department of Aquaculture at Kerala University of Fisheries and Ocean Studies (KUFOS) in India. He has had professional experience of more than 20 years in various institutions, including 15 years of teaching. He was the Head of the Fisheries Station, Puduveyypu, for more than five years. He has been associated with the fishing community, scheduled tribes, aquaculture farmers and the general public for two decades through various government projects. He has been an integral part of research and social projects worth more than US\$ 1 million as principle or co-principle investigator. In his capacity as a Director on the Board of the Asian Pacific Chapter of WAS (2016-2018), he was instrumental in organizing three international academic programs.

Rex Dunham

Rex Dunham is a Professor and Aquaculture Geneticist in the School of Fisheries, Aquaculture and Aquatic Sciences at Auburn University. He served as Program Leader for the Genetic Enhancement and Breeding Program, ICLARM, Philippines, and was on the GIFT Tilapia Foundation Board of Trustees. He also served as Scientific Director for Eagle Aquaculture, Auburn, Alabama for 12 years and as the President of the International Association of Genetics in Aquaculture from 2009-2012. Dr. Dunham has been a WAS member/participant for more than 30 years, was a contributing editor and associate editor for JWAS, and formed a regular Hybrid Catfish Session at WAS conferences. His research team was the first to demonstrate that selection works for the genetic improvement of channel catfish, the first to release genetically improved fish (catfish) in the United States, made the first transgenic fish in the United States and the first outdoor evaluation of performance of any transgenic animal in the world. His research led to two major changes in the genetic type of fish used in the US catfish industry, the last resulting in the transformation of the US channel catfish industry into a majority hybrid catfish industry.

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52 farms reached over 1 million due to high-temperature water in early August, with losses estimated to be worth 1.86 billion won (about US\$ 1.69 million).

UPCOMING EVENTS

Professor Emeritus Chung Ik Kyo (WAS Korean Chapter President, Pusan National University) and Professor Kawai Hiroshi (Kobe University) will convene a mini-symposium at the 23rd International Seaweed Symposium on “Seaweed and Climate Change” from April 28 – May 3, 2019 at the International Convention Center in Jeju. The theme of the symposium is related

to the ever-increasing recognition of seaweeds as blue carbon in the context of climate change. We will focus on potential strategies for coping with climate change in the coastal region and open sea, as well as immediate and practical measures for adaptation to and mitigation of global warming. Under the new climate regime we can volunteer ‘Nationally Determined Contributions’ to reduce greenhouse gas emissions and adapt to climate change. We welcome members of the Asian Network of Algae as Mitigation and Adaptation Measures (ANAMAM) and hope to engage collaboration with other regional and global networks.

— *Ik Kyo Chung, President*

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DOWN ON THE FARM

This NSA-sponsored session will provide a platform to share research and extension programs on shellfish aquaculture activities with application to industry. We encourage presentations from all sectors including industry, extension, agency, and research. Session chairs are LeRoy Creswell (creswell@ufl.edu) or Leslie Sturmer (Inst@ufl.edu).

SEAFOOD: ENHANCING POST-HARVEST PRACTICES, THE WORKFORCE, AND OUR CONSUMER BASE

This session will provide a platform to share research and extension programs on seafood post-harvest safety and quality control as well as seafood education in general. Presentations from all sectors including industry, extension, agency, and research are encouraged. Session organizers are Anoushka Concepcion (anoushka.concepcion@uconn.edu), Catherine (Chengchu) Liu, and Julie Anderson Lively.



NEW BOOK IN THE WAS ONLINE STORE

Sea Bass and Sea Bream — A Practical Approach to Disease Control and Health Management by Pierpaolo Patarnello and Niccolò Vendramin. The aim of this book is to provide practical advice and awareness of health management and disease control in sea bass and sea bream, the most widely-farmed fish in the Mediterranean region. ISBN: 9781910455791