

BLUE FOOD

GREEN SOLUTIONS

AQUA 2024

August 26-30, 2024

Bella Centre, Copenhagen, Denmark



CO-ORGANIZED BY



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AQUACULTURE
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BLUE AQUA



BLUE FOOD, GREEN SOLUTIONS

Aquatic food is a major component of our food future, and Blue Food from all species in marine and freshwater production, is rightly in the spotlight for its potential to provide healthy, tasty and highly nutritious food for the planet.

Food systems transformation is a crucial requirement to mitigate climate impacts and offer enhanced food safety and security to billions. Aquaculture has demonstrated its resilience to change and is increasingly recognised for its environmental responsibility, reduced footprint and high efficiency in protein transformation and provision.

As our knowledge increases, so does our potential ability to offer Green Solutions throughout the aquaculture (and seafood) value chain. These solutions need not only to be financially feasible, they must also be based on the intelligent and sustainable utilisation of resources to maintain a measurable and limited footprint.

Blue Food production must grow. Green Solutions will help it to do so.

AQUA 2024 will take place from August 26-30 in the Danish capital of Copenhagen. It will comprise a scientific conference, trade exhibition, industry forums, workshops, student events and receptions. The event will highlight the latest aquaculture research and innovation to underpin continued growth of this exciting food production sector.

It will be a showcase for Denmark, and its innovation leadership in several key technologies crucial for future aquaculture, but also a meeting and exchange platform for experts from around the world.

The AQUA events are co-organised by the European Aquaculture Society (EAS) and the World Aquaculture Society (WAS) and are held every six years. Past events were held in Nice (2000), Florence (2006), Prague (2012) and Montpellier (2018).



Steering Committee

Conference Chair: Bjørn Myrseth (EAS), Norway
EAS Rep: Bente Torstensen, Nofima, Norway
WAS rep: Michael Schwarz, Virginia Tech, USA
Ragnar Tveterås, University Stavanger, Norway
Tarald Kleppa, Blue Planet, Norway

Programme co-chairs

EAS: Luisa Valente, CIIMAR, Portugal
WAS: Lorenzo Juarez, Mexico
Local: Kjell Maroni, FHF, Norway
Local: Anne Cooper, ICES, Denmark

Local Organising Committee

Rasmus Nielsen, UCPH
Martin Winkel Lilleøre, Danish Export Association/Fish Tech
Christian Philip Unmack, Eurofish
Dennis Lisbjerg, DTU, Denmark

Technical Program Covers The Latest Research

Sessions and workshops at AQUA2024 will cover all aspects of global aquaculture. We propose the following topics and species groups. We invite you to submit abstracts to the session topics. If you do not find a specific topic, you may submit your abstract to one of the species sessions.

Aquaculture in Society

The blue economy
Aquaculture policy and regulations
Coastal and marine spatial planning
Communicating with society
Social sciences
Consumer awareness and perception
Social license to operate and permitting
Food security
Development, welfare, and poverty alleviation
Society concerns regarding animal welfare
Development of qualified talent for aquaculture

Aquaculture Economics

Government policies and aquaculture investments and growth
Economics and management
Markets and marketing
Aquaculture value chains
Financing of aquaculture

Aquaculture, Environment, Biodiversity and Climate Change

Impact of climate change and ocean acidification on aquaculture
Environmental impact of aquaculture: assessment, monitoring and minimization
Low carbon footprint aquaculture
Circular economy; use of by-products & reuse of materials
Impacts of escapees (genetic, behavioural, ecological, disease, etc.)
Environmental and economic impacts of non-native and GMO species
Micro and nano-plastics
Resource-use optimization, incl water and energy
Transport and distribution

Aquaculture standards, certification, costs, and benefits

Measuring sustainability in a changing world
Social certifications and labour welfare
Integrating finance into sustainability models
Organic aquaculture

Aquaculture and Human Health

Health attributes
Bioactives and functional foods
Advances in processing, value-adding, and packaging
Food safety

Production Systems

Hatchery technologies
Cage-culture technologies
Recirculation systems
Advances in off-flavour research and application
Raceway systems/flow through systems
Emerging production systems: open, semi-contained and fully contained systems
Pond & reservoir-based aquaculture
Offshore, exposed & multi-use aquaculture
Sludge and particle removal
Aquaponics
Biofloc systems / Symbiotics
Integrated multi-trophic aquaculture (IMTA)
Multi-use and co-location with other industries
Capture-based aquaculture
Aquaculture under desert conditions
Precision farming
Predictive Farming: Use of models and sensors
Sustainable intensification

Nutrition, Feeds, and Feeding Technologies

Nutrition and feeding strategies
Feed Technologies
Feed additives
Fish meal and oil extension (IFO)
Alternative feedstuffs and aquafeeds
Live feeds
Automatic and AI-controlled feeders
Feedstuffs carbon footprint

Genetics, Genomics, Biotechnology

Selective breeding
Population genetics
Hybridization
Sex determinism and control
Gene editing
Biotechnology

Animal Science

Morphology, Histology, and Embryology
Physiology
Behaviour

Animal health and welfare

Biosecurity, disease prevention
Microbiome & health management/preventive measures
Vaccines, immunology, and pathology
Antimicrobials in aquafeeds, prebiotics and probiotics
Diseases, bacteria & virus
Fungal infections
Parasites, including sea lice
Cleaner fish – wrasses, lumpfish & other
Drugs and therapeutics
Production environmental management, i.e. water quality etc
Production disorders – i.e. malformations, gill damages etc
Technology for animal welfare, incl slaughtering
Welfare indicators and documentation

General culture

Reproduction and broodstock management
Larval culture and management
Grow-out
Restoration projects using aquaculture organisms
Conservation aquaculture

Special Topics

Education, extension, and technology transfer
Horizon Europe - EU project updates- The EU Research Programme

Species sessions

Bivalves: Oyster, Mussels, other
Crustaceans: Crayfish, Freshwater prawns, Marine shrimp
Macro- and Micro-algae (culture, bioenergy and bioproducts; potential to use as food and feed)
Ornamentals
Amphibians and reptiles
Plankton
Low trophic species: Sea cucumber, sea urchins, polychaetes
Warmwater marine fish
Coldwater marine fish
Warmwater Freshwater fish
Coldwater Freshwater fish

Advanced technologies for aquaculture

Digitalization
Artificial Intelligence
Automation
Sensing technologies

CALL FOR PAPERS - ***SUBMIT YOUR PAPERS NOW!***

DEADLINE: April 5, 2024

AQUA24 represents an excellent opportunity via its extensive technical program to showcase the latest developments in the aquaculture world. The AQUA24 Committee encourages the submission of high quality oral and poster presentations.

We strongly encourage authors to consider poster presentations as the poster session will be an integral part of the program. Papers submitted for oral presentation only may not be accepted as oral presentations due to the limited number of available time slots.

All abstracts must be in English - the official language of the Conference.

Each oral presenter shall be entitled to no more than 15 minutes for a presentation, plus 5 minutes for questions. Oral presentations should use PowerPoint. Overhead projectors and video players will not be available or allowed.

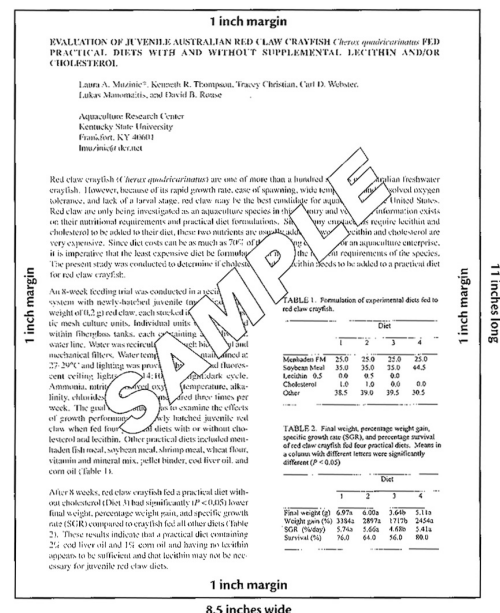
All presenters are required to pay their own registration, accommodation and travel expenses. AQUA24 will not subsidize registration fees, travel or hotel costs.

No Abstract Book will be printed - an Abstract Book will be available online.

INSTRUCTIONS FOR PREPARATION OF ABSTRACTS

Extended Abstract Format – Please refer to the sample.

- 1. TITLE OF PAPER :** The paper title is printed in CAPITAL LETTERS, with the exception of scientific names which should be Upper/lower case and italicized. Scientific names should not be preceded or followed by commas or parentheses or other markings.
- 2. AUTHOR(S) :** The first name should be the presenting author. Use *after the presenting author. Type in upper/lower case.
- 3. ADDRESS AND EMAIL :** Type only the presenting author's institution, address and email. Type in upper/lower case.
- 4. MAXIMUM LENGTH :** One Page
- 5. PAGE SIZE :** Standard 210mm x 297mm A4 paper (portrait)
- 6. MARGINS :** 1-inch margin throughout(left/right/top/bottom)
- 7. SPACING :** Single spaced
- 8. PARAGRAPHS :** Paragraphs should be separated by a blank line and should not be indented.
- 9. FONTS :** Character fonts should be 12 point type.
- 10. FIGURES & TABLES :** Figures and tables are highly recommended. They should be reduced to the appropriate size for a one page abstract and should be clearly readable at the reduced size in black print only. The reduced figures and tables should be included in the abstract in camera-ready form.
- 11. MEASUREMENTS :** Use metric units of measurement. When needed, English equivalents may be given in parentheses.



PLEASE SUBMIT YOUR ABSTRACT ONLINE

Submit abstracts via the internet at the meeting website : www.was.org Follow the complete instructions on the online submission.

If you are unable to submit your abstract online, contact the Conference Manager for alternative methods at : worldaqua@was.org or Fax: +1-760-751-5003



AQUA 2024

August 26-30, 2024

Register online: USA – www.was.org

Return address for payments
in USD:
Conference Manager
P.O. Box 2302
Valley Center, CA 92082 USA
Tel: +1 760 751 5005
Fax: +1 760 751 5003
Email: worldaqua@was.org

Online registration is preferred at www.was.org in USD OR www.aquaeas.eu in Euros OR fax or mail both sides. Use one form per person.

PLEASE PRINT CLEARLY OR TYPE ALL REQUESTED INFORMATION

BADGE INFORMATION: (As you want your name badge to read – No titles, please)

First Name _____ SURNAME (FAMILY NAME) _____

Company or Institution _____
(Limited to 40 Letters & Spaces)

Country _____

Email _____ Alternate Email _____

MAILING Postal Address _____

City _____ State / Prov _____ Postal Code _____ Country _____

Phone _____ Fax _____ Title: (circle one) Dr. Mr. Ms. Mrs.
(Include country and city code) (Include country and city code)

REGISTRATION FEES: To pay is US\$, go to www.was.org. To pay in Euro, go to www.eas.eu.

TYPE OF REGISTRATION	Register by July 1, 2024	Register by August 1, 2024	Register after August 1, 2024	
FULL CONFERENCE & TRADE SHOW <i>In order to receive the Pre-Registration discount rate, this form and payment must be received by the date above</i>				
ASSOCIATION MEMBER	<input type="checkbox"/> US\$490 / €440	<input type="checkbox"/> US\$590 / €540	<input type="checkbox"/> US\$660 / €600	* To qualify for Member Rate you <u>must</u> complete the Association Memberships section on the reverse side. • • • • • Trade Show is <u>included</u> in the Full Conference Registration Rate.
STUDENT MEMBER RATE*	<input type="checkbox"/> US\$220 / €200	<input type="checkbox"/> US\$220 / €200	<input type="checkbox"/> US\$280 / €250	
Non-Member Rate	<input type="checkbox"/> US\$590 / €535	<input type="checkbox"/> US\$695 / €635	<input type="checkbox"/> US\$770 / €700	
<input type="checkbox"/> Spouse Rate Name _____	<input type="checkbox"/> US\$430 / €390	<input type="checkbox"/> US\$540 / €490	<input type="checkbox"/> US\$600 / €550	TOTAL REGISTRATION FEE US\$/€ _____
TRADE SHOW PASS (Trade show pass is included with the Full Conference Registration) Good for 3 days admission to exhibits only – August 27, 28, 29 <input type="checkbox"/> US\$55 / €50 TOTAL TRADE SHOW PASS US\$/€ _____				
INDUSTRY TOURS – To be announced later.				
MEMBERSHIP DUES – Enter amount from Membership Application on other side if applicable. TOTAL MEMBERSHIP DUES US\$/€ _____				
Do not mail registration after August 1, 2024 or fax after August 1, 2024. After August 1, 2024, bring this form with you to register at the show.			➔ TOTAL AMOUNT US\$/€ _____	
Registration Confirmation and Receipt will be emailed after processing.				

CANCELLATION POLICY: Cancellation of registration must be received - in writing - no later than July 15, 2018. Refunds for registration fees will be subject to a 20% handling fee. Refunds are processed after the conference. No refund will be made for cancellations received after July 15, 2018 or for "no shows". After July 15, 2018, no refunds will be made for professional or personal emergencies, flight cancellations, denied visa, weather related cancellation or other travel emergencies. Fees for memberships are non-refundable.

For bank transfer details, contact us.

☐ Check # _____ ☐ Visa ☐ Mastercard ☐ American Express ☐ Discover ☐ Diners Club

Card # _____ Expiration Date _____ Sec Code _____

Name on Card _____ Date _____ Signature _____

Credit Card Billing Address _____

Registration Form - Side 2

ASSOCIATION MEMBERSHIPS : Please check all boxes for associations of which you are a current member to receive the member rate on the registration fees. You can join an association at any time before registering to qualify for the member rate.

- | | |
|--|---|
| <input type="checkbox"/> European Aquaculture Society | <input type="checkbox"/> Latin American & Caribbean Chapter WAS |
| <input type="checkbox"/> World Aquaculture Society (WAS) | <input type="checkbox"/> US Chapter of WAS (USAS) |
| <input type="checkbox"/> Asian-Pacific Chapter WAS | <input type="checkbox"/> International Assn of Aquaculture Economics and Mgmt |
| | <input type="checkbox"/> Aquacultural Engineering Society |

MEMBERSHIP APPLICATION

☐ NEW APPLICATION

☐ RENEWAL

Join the EUROPEAN AQUACULTURE SOCIETY (EAS)!



EAS MEMBERSHIP includes automatic receipt of the Aquaculture Europe Magazine and newsletter, online networking, annual membership list, reductions on international aquaculture press and websites, as well as big reductions on registration for EAS and WAS co-organised meetings, etc. Online access to the peer reviewed Journal Aquaculture International (bimonthly) is also offered as part of individual membership. **Details: www.aquaeas.eu.**

An EAS membership year comprises 12 months and starts on the date of payment.

EAS offers free membership to students/retirees.

EAS Membership Categories

- ☐ EAS Individual Membership
- ☐ EAS Individual Membership - 3 years
- ☐ EAS Institutional Membership
- ☐ EAS Life Membership**
- ☐ EAS Corporate Membership

Standard

€ 90
€ 255
€ 300
€ 720
€ 1000

Reduced Rate*

€ 60

€ 200

—

Total Amount for EAS Membership

€ _____

Please enter this amount under "Membership dues" on the previous page.

Retired persons (certification of retired status required)
Students (copy of current student card required)

*Reduced membership fees are available for:

- Individuals residing in European and non-European Mediterranean countries with Gross National income (GNI) lower than US\$ 15.000 per capita. These countries are: Albania, Algeria, Azerbaijan, Belarus, Bosnia and Herzegovina, Bulgaria, Egypt, Iran, Iraq, Kazakhstan, Montenegro, Morocco, Romania, Russian Federation, Serbia, Tunisia, Turkey, Turkmenistan, Ukraine
- Institutes if based in one of the above mentioned countries.

**Life membership offers the general EAS benefits for full lifetime duration.

Join online at: <http://www.aquaeas.eu>

WORLD AQUACULTURE SOCIETY (WAS) APPLICATION www.was.org

For details on the different types of memberships and options, please contact the WAS home office at

Tel: +1-225-347-5408 Fax: +1-225-347-5408 Email: judya@was.org

MEMBERSHIP CATEGORY: (Indicate only one)

- ☐ **Individual** (USD 90/yr) Applies to an individual only
- ☐ **Full Student** (USD 45/yr) Has all benefits and rights of regular membership including voting for all candidates on the ballot (Copy of Student ID or Signature of Professor required)
- ☐ **Comp Student** (No charge) Has all benefits of regular membership but voting only allowed is for the Student Director and not for the full ballot. (Copy of Student ID or Signature of Professor required)
- ☐ **Sustaining** (USD 155/yr) Applies to any one individual from a company
- ☐ **Corporate** (USD 295/yr) Allows all employees of one company to attend meeting at Member Rate
- ☐ **Lifetime** (USD 1400 with one chapter) Applies to an individual only

**Discounted rates available for individuals in countries based on World Bank List of Low Income Economies. Must sign-up on website only for this category.

CHAPTER OPTIONS:

One chapter included in membership.
Mark the chapter you choose.

- ☐ **African Chapter**
- ☐ **Asian Pacific**
- ☐ **Korea**
- ☐ **Latin American/Caribbean**
- ☐ **United States (USAS)**
- ☐ **None** (deduct USD 5)

You can add extra Chapters for USD 5

Fees for memberships are non-refundable.

Total Amount for WAS Membership USD _____
Please enter this amount under "Membership Dues" section on opposite side of this form.

For membership in other associations, please contact them directly.

If you need a phone number, contact the Conference Manager (+1-760-751-5005).

Show Events

INDUSTRY FORUMS

Special industry oriented sessions will be organized on the Monday and Tuesday to address industry challenges and discuss ways to overcome these. More information will be provided on the AQUA 2024 website.

FARM TOURS

There will be several Farm tours arranged. More information will be provided on the AQUA 2024 website.

YOUR FULL CONFERENCE REGISTRATION INCLUDES:

- Admission to all sessions, seminars and the trade show.
- Admission to the Receptions.
- Conference bag and Show Directory (except for spouse).
- Refreshment Breaks and Cash Bar Happy Hour.
- Students receive the full registration package plus the Student Reception. To qualify for the student rate, a copy of your student I.D. is required.
- Only pre-registered attendees are guaranteed materials.

SPECIAL HOTEL RATES

For hotel information please check our websites:
www.aquaeas.eu
www.was.org

When available a list of hotels will be placed on the website.



Bella Sky Hotel, Copenhagen

TRADE SHOW SCHEDULE

AUGUST 2024

TUESDAY 27 EXHIBITS OPEN 10:00 - 18:00	WEDNESDAY 28 EXHIBITS OPEN 10:00 - 18:00	THURSDAY 29 EXHIBITS OPEN 10:30 - 16:00
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For Trade Show information, contact: Mario Stael mario@marevent.com

FOR MORE INFORMATION:

AQUA 2024 Conference Manager

P.O. Box 2302 • Valley Center, CA 92082 USA

Email: worldaqua@was.org • www.was.org • www.aquaeas.eu

REGISTER EARLY AND \$AVE!

TENTATIVE SCHEDULE

Monday, Aug 26

Registration Open & Exhibit Set-up	1200 - 1700
Opening ceremony.....	1800 - 1900
Welcome Drink	1900 - 2000

Tuesday, Aug 27

Registration Open	0730 - 1700
Plenary 1	0900 - 0940
Spotlight Awards.....	0940 - 1000
Break	1000 - 1030
Trade Show Open	1000 - 1800
Sessions	1030 - 1230
Lunch (at individual expense)	1230 - 1400
Sessions.....	1400 - 1730
Happy Hour & Posters.....	1730 - 1800
Student Reception	1900 - 2100

Wednesday, August 28

Registration Open	0800 - 1700
Sessions.....	0900 - 1045
Break	1045 - 1115
Trade Show Open	1000 - 1800
Sessions.....	1115 - 1230
Lunch (at individual expense).....	1230 - 1400
Sessions	1400 - 1730
Happy Hour & Posters.....	1730 - 1800
EAS General Assembly	1730 - 1830
President's Reception.....	1900 - 2200

Thursday, Aug 29

Registration Open	0800 - 1600
Sessions.....	0900 - 1045
Break	1045 - 1115
Trade Show Open	1000 - 1600
Sessions.....	1115 - 1230
Lunch (at individual expense)	1230 - 1400
Sessions	1400 - 1530
Break	1530 - 1600
Sessions.....	1600 - 1730
Exhibit Move-out	1600 - 1900

Friday, Aug 30

Registration Open	0800 - 1500
Sessions.....	0900 - 1100
Break	1100 - 1130
Plenary 2	1130 - 1215
Lunch (at individual expense)	1230 - 1400
Sessions.....	1400 - 1530
Break	1530 - 1600
Sessions	1600 - 1700

