

# BLUE FOOD

# GREEN SOLUTIONS

# AQUA 2024

## August 26-30, 2024

Bella Centre, Copenhagen, Denmark



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# 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, reduce footprint, 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 (Vitamar), Norway  
EAS Rep: Bente Torstensen, Nofima, Norway  
WAS rep: Michael Schwarz, Virginia Tech, USA  
Ragnar Tvetervås, University Stavanger, Norway  
Kirsti Sømme, STIM, Norway

### **Programme co-chairs**

EAS: Luisa Valente, CIIMAR/UPORTO, 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  
Floor ten Hoopen, DTU, Denmark  
Christian Riisager-Simonsen, DTU, Denmark  
Jörn Schmidt ICES

# 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."

## SESSION TOPICS

Advances in off-flavour research and application  
Advances in processing, value-adding, and packaging  
Alternative ingredients & raw material processing  
Antimicrobials in aquafeeds, prebiotics and probiotics  
Aquaculture in food systems and food security  
Aquaponics  
Arid Land Aquaculture  
Bioactives and functional foods  
Biofloc systems / Symbiotics  
Biosecurity, disease prevention  
Cage-culture technologies  
Circular approach (use of waste, fish manure, by-products & reuse of materials)  
Climate change impacts  
Conservation & restoration  
Diseases, bacterial & viral  
Diseases - Non-infectious, multifactorial & anthropogenic  
Drugs and therapeutants  
Ecosystems approach to aquaculture  
Education, extension, and technology transfer  
Energy reduction & transition  
Environmental and economic impacts of non-native and GMO species  
Environmental impact of aquaculture: assessment, monitoring and minimization  
Environmental impact of transport and distribution  
Escapees (genetic, behavioural, ecological, disease, etc.)  
Feed additives & health promoters  
Feeds for RAS  
Finance integration in sustainability models  
Food safety  
Footprint of aquafeeds  
Fungal infections  
Future genotyping technology  
Genetics of emerging species  
Genome Editing  
Governance, policy, and regulations  
Hatchery technologies  
Health attributes  
Horizon Europe - EU project updates- The EU Research Programme  
Inclusive and sustainable development through aquaculture  
Industry skills/training

Integrated multi-trophic aquaculture (IMTA)  
Interaction with community and society  
Investment and financing  
Lagoon culture  
Larval culture and management  
Light - And fish  
Light - And other aquatic species  
Live feeds & larval feeds  
Managing Feed Intake (technologies, strategies, use of AI)  
Markets and consumer awareness  
Markets and marketing  
Microbiome & health management  
Morphology, Histology, and Embryology  
Nutritional requirements  
Offshore, exposed & multi-use aquaculture  
Organic aquaculture  
Parasitic diseases (including sea lice and cleaner fish)  
Physiology  
Plastics & Nano particles  
Pond aquaculture  
Precision farming: AI & modelling  
Precision Farming: Automation and sensors  
Production environmental management  
Raceway systems/flow through systems  
Recirculation systems  
Reproduction and broodstock management  
Resource-use optimization, incl water and energy  
Risk assessment for operations (HSE and animal welfare)  
Selective breeding  
Semi- and fully- contained systems  
Shellfish genomics and breeding  
Sludge and solids removal & reuse  
Social certifications and labour welfare  
Sustainability indicators  
Technology for animal welfare, incl slaughtering  
Traceability - upstream and downstream  
Vaccines  
Value chain economics  
Welfare bioindicators and guidelines

## SPECIES

Bivalves: Oyster, Mussels, other  
Crustaceans: Crayfish, Freshwater prawns, Marine shrimp  
Macro- and Micro-algae  
Ornamentals (incl. plants)  
Amphibians and reptiles  
Plankton  
Low trophic species: Sea cucumber, sea urchins, polychaetes  
Warmwater marine fish  
Coldwater marine fish  
Warmwater Freshwater fish  
Coldwater Freshwater fish



# 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.**

**All posters will be presented as ePosters. See the website for details.**

**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.

- 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.
- AUTHOR(S) :** The first name should be the presenting author. Use \*after the presenting author. Type in upper/lower case.
- ADDRESS AND EMAIL :** Type only the presenting author's institution, address and email. Type in upper/lower case.
- MAXIMUM LENGTH :** One Page
- PAGE SIZE :** Standard 210mm x 297mm A4 paper (portrait)
- MARGINS :** 1-inch margin throughout(left/right/top/bottom)
- SPACING :** Single spaced
- PARAGRAPHS :** Paragraphs should be separated by a blank line and should not be indented.
- FONTS :** Character fonts should be 12 point type.
- 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.
- 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](http://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](mailto:worldaqua@was.org).



# AQUA 2024

## August 26-30, 2024

Register online: USA – [www.was.org](http://www.was.org)

Return address for payments  
in USD:  
Conference Manager  
P.O. Box 2302  
Valley Center, CA 92082 USA  
Email: [worldaqua@was.org](mailto:worldaqua@was.org)

Online registration is preferred at [www.was.org](http://www.was.org) in USD OR [www.aquaeas.eu](http://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) \_\_\_\_\_  
(Limited to 40 Letters & Spaces)

Company or Institution \_\_\_\_\_

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](http://www.was.org). To pay in Euro, go to [www.aquaeas.org](http://www.aquaeas.org).

TYPE OF REGISTRATION	Register by July 1, 2024	Register by August 1, 2024	Register after August 1, 2024	* 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.
<b>FULL CONFERENCE &amp; TRADE SHOW</b> <small>In order to receive the Pre-Registration discount rate, this form and payment must be received by the date above</small>				
ASSOCIATION MEMBER	<input type="checkbox"/> US\$ 530 / €440	<input type="checkbox"/> US\$ 590 / €540	<input type="checkbox"/> US\$ 650 / €600	TOTAL REGISTRATION FEE  US\$/€ _____
STUDENT MEMBER RATE*	<input type="checkbox"/> US\$ 170 / €200	<input type="checkbox"/> US\$ 225 / €200	<input type="checkbox"/> US\$ 295 / €250	
Non-Member Rate	<input type="checkbox"/> US\$ 630 / €535	<input type="checkbox"/> US\$ 690 / €635	<input type="checkbox"/> US\$ 750 / €700	
<input type="checkbox"/> Spouse Rate Name _____	<input type="checkbox"/> US\$ 420 / €390	<input type="checkbox"/> US\$ 520 / €490	<input type="checkbox"/> US\$ 520 / €550	
<b>TRADE SHOW PASS</b> <small>Good for 3 days admission to exhibits only – August 27, 28, 29</small>			<small>(Trade show pass is included with the Full Conference Registration)</small> <input type="checkbox"/> US\$ 55 / €50 TOTAL TRADE SHOW PASS US\$/€ _____	
<b>INDUSTRY TOURS</b> – To be announced later.				
<b>MEMBERSHIP DUES</b> – Enter amount from Membership Application on other side if applicable.			TOTAL MEMBERSHIP DUES US\$/€ _____	
<b>Do not mail registration after August 1, 2024 or fax after August 1, 2024.</b> <b>After August 1, 2024, bring this form with you to register at the show.</b>			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, 2024. 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, 2024 or for "no shows". After July 15, 2024, 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.

**PAYMENT METHOD:** All fees must be paid to the order of AQUA 2024.

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.

- European Aquaculture Society
- World Aquaculture Society (WAS)
- Asian-Pacific Chapter WAS
- Latin American & Caribbean Chapter WAS
- US Chapter of WAS (USAS)
- International Assn of Aquaculture Economics and Mgmt
- Aquacultural Engineering Society

MEMBERSHIP APPLICATION

NEW APPLICATION

RENEWAL

## Join the EUROPEAN AQUACULTURE SOCIETY (EAS)!



## IMPORTANT CHANGES TO REGISTRATION FOR EAS MEMBERS

- **If you are an EAS member**, you will now need to add your 4 digit EAS ID number when you register. So please have this ready with you. You can find your membership ID after logging in on your ACCOUNT on [www.aquaeas.eu](http://www.aquaeas.eu) on the PROFILE tab (top right).
- **If you are not a current EAS member, or would like to renew your membership to get the Member rate**, please go to <https://www.aquaeas.eu/cb-registration> to join or login to the site to renew. After receiving your payment (for paid memberships) or confirmation of a free membership status (for students and retirees), you will then receive your ID number so you can register at the member rate.

If you have any questions, please contact [eas@aquaeas.eu](mailto:eas@aquaeas.eu)

## WORLD AQUACULTURE SOCIETY (WAS) APPLICATION [www.was.org](http://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](mailto: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.

Fees for memberships are non-refundable.

### 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

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.

## SPECIAL HOTEL RATES

For hotel information please check our websites:  
[www.aquaeas.eu](http://www.aquaeas.eu)

[www.was.org](http://www.was.org)

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

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## 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.



*Bella Sky Hotel, Copenhagen*

## TRADE SHOW SCHEDULE

**AUGUST 2024**

TUESDAY	WEDNESDAY	THURSDAY
<b>27</b>	<b>28</b>	<b>29</b>
EXHIBITS OPEN 10:00 - 18:00	EXHIBITS OPEN 10:00 - 18:00	EXHIBITS OPEN 10:30 - 16:00

*For Trade Show information, contact: Mario Stael [mario@marevent.com](mailto:mario@marevent.com)*

## FOR MORE INFORMATION:

AQUA 2024 Conference Manager

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

Email: [worldaqua@was.org](mailto:worldaqua@was.org) • [www.was.org](http://www.was.org) • [www.aquaeas.org](http://www.aquaeas.org)

**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
RAZZMATAZZ session.....	1730 - 1830

## 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

