

# LAQUA 24



Latin American & Caribbean Aquaculture 2024



## September 24-27 2024

### PLAZA MAYOR Medellín, Colombia

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The annual meeting of

**WORLD  
AQUACULTURE  
Society**



Organized by



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**BLUE AQUA**



Latin American & Caribbean Chapter/World Aquaculture Society -WAS LACC-@laccWas



@LACC\_WAS



LACC World Aquaculture Society



Colombia has a wide hydroclimatic diversity and geographical, which has favored the development of the aquaculture, thus counting on production of species both warm waters and cold waters mainly In freshwater, mariculture is still an area for develop and strengthen. The largest species production are both red and Nilotic Tilapia, cachama, rainbow trout and native species. Aquaculture in Colombia has been growing at a rate of close to 10% per year, this is how it has reached production of about 204,000 tons in the year 2022. The main reasons for this growth are associated with productive improvement (genetic improvement, innovation in production systems, optimization in culture conditions, implementation of biosafety and quality systems).

Today Colombia has about 36,000 producers distributed throughout the national territory and it is estimated that in 31 of the 32 departments there are aquaculture production. This aquaculture production is one of the fundamental axes within the agricultural sector since it not only generates foreign currency for the country but also is considered a food safety activity for small producers located in the regions further away. On the other hand, there are departments and regions that have a greater development and have achieved the verticalization of the activity, with production plants certified exports on stamps on international stamps of quality that have allowed the export of this product generating formal jobs and improving the quality of life of people linked to aquaculture.

| TRADE SHOW SCHEDULE |          |        |
|---------------------|----------|--------|
| WEDNESDAY           | THURSDAY | FRIDAY |
| Sept                | Sept     | Sept   |
| 25                  | 26       | 27     |

Keep in contact with the program developments for

# LAQUA 24

Latin American & Caribbean  
Aquaculture 2024

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

# TECHNICAL PROGRAM COVERS THE LATEST RESEARCH

Sessions and workshops at LACQUA24 will cover all aspects of aquaculture in Colombia and Latin America as well as the rest of the world. Sample topics will include:

## **Fish Culture**

Tilapia and Trout  
Marine fish  
Ornamental fish  
Other native fish

## **Crustaceans Culture**

Shrimp culture

## **Other Species**

Seaweeds and algae  
Molluscs  
Echinoderms  
Plankton

## **Production Systems**

Biofloc systems  
Recirculation systems - RAS  
Aquaponic systems  
IPRS

## **Sustainable Aquaculture**

Standards and certification  
Aquaculture and the environment  
Mariculture and the environment  
Integrated multi-trophic aquaculture  
Water quality management

## **Health and Diseases**

Immunology  
Toxicology  
Fish health  
Shrimp health  
Probiotics and prebiotics

## **Physiology and Genetics**

Fish physiology and genetics  
Shrimp genetics  
Salmon genetics

## **Nutrition and Feeding**

Fishmeal and fish oil  
Alternative ingredients  
Shrimp feed  
Climate changes and fisheries  
Finfish nutritional needs  
Larval feeding  
Feeding strategies - automation

## **Processing and Economics**

Processing technologies  
Aquaculture socio-economics

## **Education and Aquaculture Careers**

Student exchanges

## YOUR FULL CONFERENCE REGISTRATION INCLUDES

- Only pre-registered attendees are guaranteed materials.
- **Admission to all sessions, seminars and the trade show.**
- Admission to the Receptions.
- Conference bag and Show Directory.
- 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.

## **Farmer's Day and Industry Sessions**

There will be a special Farmers Day with presentations on topics especially of interest to aquaculture farmers. There will also be Industry Sessions throughout the conference with speakers addressing industry concerns.

**REGISTER EARLY  
AND \$AVE!**

## **FOR MORE INFORMATION:**

LACQUA24  
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](mailto:worldaqua@was.org)  
[carolina@was.org](mailto:carolina@was.org)  
[www.was.org](http://www.was.org)

**REGISTER EARLY AND \$AVE!**

# CALL FOR PAPERS- DEADLINE: March 31, 2024

LACQUA24 encourages the submission of high quality oral and poster presentations. We strongly encourage authors to consider poster presentations because poster sessions 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. English encouraged, but 3 official languages (English/Portuguese/Spanish) accepted. Power Point Presentation – Slides - same as above – English strongly encouraged. Oral Presentation: any of the 3 official languages. At the conference, the abstracts may be presented in English, Spanish or Portuguese.

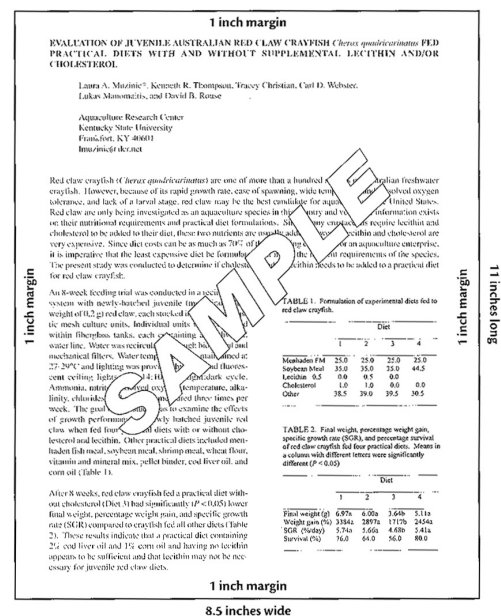
Each oral presenter shall be entitled to no more than 20 minutes comprised of 15 minutes for a presentation, plus 5 minutes for questions. Authors of studies involving proprietary products or formulations should present this information in workshops or the trade show. Oral presentations can only use Power Point. Overhead projectors, slides and video players will not be available or allowed

All presenters are required to pay their own registration, accommodation and travel expenses. LACQUA24 cannot subsidize registration fees, travel or hotel costs

## 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) or Fax: +1-760-751-5003



# LACQUA24

## September 24-27, 2024

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

Return address for international 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](mailto:worldaqua@was.org)

Online registration is preferred at [www.was.org](http://www.was.org) OR fax or mail both sides with payment. Use one form per person.

|   |                                |
|---|--------------------------------|
| PLEASE PRINT CLEARLY OR TYPE ALL REQUESTED INFORMATION                              |                                |
| <b>BADGE INFORMATION:</b> (As you want your name badge to read – No titles, please) |                                |
| First Name _____  | SURNAME (FAMILY NAME) _____    |
| Company or Institution _____<br><small>(Limited to 40 Letters &amp; Spaces)</small> |                                |
| City _____  | State/Prov _____ Country _____ |

**MAILING INFORMATION:** Email \_\_\_\_\_  
(please include email address)

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:** In order to receive the discount rates as listed below, this form and payment must be received by the date listed. See brochure for what is included in registration fees.

| TYPE OF REGISTRATION   | Register by<br>August 1, 2024     | Register after<br>August 1, 2024  |  |  |
|--|-----------------------------------|-----------------------------------|--|--|
| <b>RULL CONFERENCE &amp; TRADE SHOW</b><br><small>In order to receive the Pre-Registration discount rate, this form and payment must be received by the date above</small> |                                   |                                   |  | * To qualify for Member Rate you <u>must</u> complete the Association Memberships section on the reverse side.<br><br>● ● ● ● ● ● ● ●<br><br>Trade Show is <u>included</u> in the Full Conference Registration Rate.<br><br><b>TOTAL REGISTRATION FEE</b><br><br><b>US\$</b> _____ |
| <b>ASSOCIATION MEMBER RATE*</b>  | <input type="checkbox"/> US\$ 275 | <input type="checkbox"/> US\$ 375 |  |  |
| <b>STUDENT MEMBER RATE*</b><br><small>Include copy of Student I.D.</small>   | <input type="checkbox"/> US\$ 95  | <input type="checkbox"/> US\$ 135 |  |  |
| <b>Non-Member Rate</b>   | <input type="checkbox"/> US\$ 370 | <input type="checkbox"/> US\$ 470 |  |  |
| <b>Student Non-Member Rate</b><br><small>Include copy of Student I.D.<br/>You can join WAS on the reverse side and use the Member Rate.</small>                            | <input type="checkbox"/> US\$ 145 | <input type="checkbox"/> US\$ 180 |  |  |
| <input type="checkbox"/> <b>Spouse Rate</b><br>Name _____  | <input type="checkbox"/> US\$ 225 | <input type="checkbox"/> US\$ 295 |  |  |
| <b>TRADE SHOW PASS</b><br><small>Good for 3 days admission to exhibits only – September 25-27, 2024</small>  |                                   | <input type="checkbox"/> US\$ 30  | <small>(Trade show pass is included with the Full Conference Registration)</small> |  |
|  |                                   |                                   | <b>TOTAL TRADE SHOW PASS</b>   | US\$ _____   |
| <b>INDUSTRY TOURS</b> – Details to come  |                                   |                                   |  | <b>TOTAL INDUSTRY TOURS</b> US\$ _____   |
| <b>MEMBERSHIP DUES</b> – Enter amount from Membership Application on other side if applicable.   |                                   |                                   |  | <b>TOTAL MEMBERSHIP DUES</b> US\$ _____  |
| <b>Do not mail registration after August 1, 2024 or fax after August 1, 2024. After August 1, bring this form with you to register at the show.</b>                        |                                   |                                   | <b>➔ TOTAL AMOUNT US\$</b> _____   |  |

**Registration Confirmation and Receipt will be emailed after processing.**

**CANCELLATION POLICY:** Cancellation of registration must be received - in writing - no later than August 1, 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 August 1, 2024 or for "no shows". After August 1, 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 LACQUA24.

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

Name \_\_\_\_\_

**ASSOCIATION MEMBERSHIPS:** Please check all boxes for associations for which you are a current member. Membership in any of those associations qualifies you for the Member Rate\* on the Registration Fees. You can join an association at any time before registering to qualify for the Member Rate.

**MEMBERSHIPS:**  WAS  USAS  APC  Korean  LACC

## AFFILIATE

### MEMBERSHIPS:

- AQUABIO
- Aquaculture Association of Canada
- Aquaculture Association of South Africa
- Aquaculture Without Frontiers
- Asian Fisheries Society
- Associação Cearense de Aquicultores – ACEAQ
- China Society of Fisheries
- Egyptian Aquaculture Society
- European Aquaculture Society
- Global Aquaculture Alliance
- IAFI The International Association of Seafood Professionals
- Indonesian Aquaculture Society
- Korean Aquaculture Society
- Korean Society of Fisheries and Sciences (KOSFAS)
- Malaysian Fisheries Society
- Society of Aquaculture Professionals (India)
- South African Aquaculture Society
- Spanish Aquaculture Association (SEA)

## MEMBERSHIP APPLICATIONS

NEW APPLICATION

RENEWAL

### 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).**

## FARM TOURS

There will be several Farm and Tours around Colombia Please check the website for details.

## TRAVEL AND HOTEL

Check the website: [www.was.org](http://www.was.org)



# TENTATIVE SCHEDULE

## Tuesday, September 24

|                   |               |
|-------------------|---------------|
| Registration Open | 11:00 – 18:30 |
| Exhibitor Move-in | 8.00 – 18:30  |
| Poster Set-up     | 11:00 – 18:30 |
| Inauguration      | 18:30 – 19.30 |

## Wednesday, September 25

|                       |               |
|-----------------------|---------------|
| Registration Open     | 8:00 – 17:00  |
| Exhibitor Move-in     | 8:00 – 10:00  |
| Poster Set-up         | 8:00 – 12:00  |
| Session               | 9.00 – 10.40  |
| Coffee break          | 10:40 – 11:20 |
| Session               | 11.20 – 13.00 |
| Trade Show            | 10:00 – 19:00 |
| Lunch (On your own)   | 13:00 – 14:20 |
| Session               | 14.20 – 18.00 |
| Refreshment break     | 16.40 – 17.00 |
| LACC General Assembly | 18:00 – 19:00 |

## Thursday, September 26

|                           |               |
|---------------------------|---------------|
| Registration Open         | 8:00 – 17:00  |
| Sessions                  | 9:00 – 11:00  |
| Trade Show & Posters Open | 11:00 - 19:00 |
| Refreshment Break         | 11:00 – 11:20 |
| Sessions                  | 11:20 – 13:00 |
| Lunch (On your own)       | 13:00 – 14:20 |
| Sessions                  | 14:20 – 18:40 |
| Refreshment Break         | 16:40 – 17:00 |
| President Dinner          | 19:00 – 21:30 |

## Friday, September 27

|                           |               |
|---------------------------|---------------|
| Registration Open         | 08:00 – 15:00 |
| Sessions                  | 09:00 – 11:00 |
| Refreshment Break         | 11:00 – 11:20 |
| Trade Show & Posters Open | 10:00 – 16:00 |
| Sessions                  | 11:20 – 13:00 |
| Lunch (On your own)       | 13:00 - 14:20 |
| Sessions                  | 14:20 - 17:40 |

