# Aquaculture 2022

# Come one, Come all, for Aquaculture Large and Small



# February 28 - March 4, 2022 Town and Country Resort & Conference Center San Diego, California



Aquacultural Engineering Society Aquaculture Association of Canada Aquaculture Feed Industry Association Catfish Farmers of America Global Aquaculture Alliance International Association of Aquaculture Economics and Management Latin America & Caribbean Chapter WA US Trout Farmers Association World Aquatic Veterinary Medical Association Zebrafish Husbandry Association



# Aquaculture 2022

Every three years, the Triennial is held somewhere in the United States. In 2022, the Triennial returns to sunny San Diego – one of America's favorite cities.

### THE TRIENNIAL IS THE LARGEST AQUACULTURE MEETING IN THE WORLD!

The Triennial is the largest aquaculture conference and tradeshow held in the world with nearly 4,000 attendees from over 90 countries and even more countries are expected to have attendees at AQUACULTURE 2022. The Triennial combines the annual meetings of the Fish Culture Section of the American Fisheries Society, World Aquaculture Society, National Shellfisheries Association, and the National Aquaculture Association. In addition to the annual meetings of the main sponsors, look what else is happening at AQUACULTURE 2022!

- AQUACULTURE AMERICA Annual Meeting of USAS, the U.S. Chapter of World Aquaculture Society and the Aquaculture Suppliers Association.
- Annual Meeting of the U.S. Trout Farmers Association
- Special sessions organized by Aquacultural Engineering Society and International Association of Aquaculture Economics and Management
- Many other meetings of working groups, government agencies and related aquaculture activities
- Program with technical sessions and producers seminars covering virtually all species
  grown in aquaculture
- AND look at all of the Associate Sponsors on the cover who are participating in the program development!

The last Triennial was held in 2019 in New Orleans where it was pronounced a huge success by over 3,000 people who attended. Don't miss this Triennial!

#### FOR MORE INFORMATION

Aquaculture 2022

Conference Management Office P.O. Box 2302 Valley Center, CA 92082 USA Questions: Tel: +1-760-751-5005 Fax: +1-760-751-5003 worldaqua@was.org

# Aquaculture 2022 is the place to learn about

the latest in aquaculture, see the newest technology in the trade show, and have a great time in the many fantastic restaurants and entertainment sites in San Diego!

### **EXPANDED PRODUCER PROGRAM**

The Triennial is known for the high quality of its Producer Program organized by the National Aquaculture Association. AQUACULTURE 2022 will continue to expand the size and scope of the producer program to address all of the issues facing producers in the U.S. as well as around the world.

## **PRODUCER TOPICS**

Aquatic Animal Drug Approval Aquatic Animal Health and Welfare Environmental Issues Farm Energy Cost Reduction Farm Planning and Management Tools: Design, Production and Farm/Firm Federal Agency Town Hall Meeting Feed, Feeding and Feed Ingredients Marketing and Promotion Offshore Aquaculture Regulatory Costs Remote Sensing: Farm and Environment Science and Public Policy Start Up Aquaculture Women in Aquaculture

# A CRITICAL TRADE SHOW FOR AQUACULTURISTS!

AQUACULTURE 2022 will have the largest aquaculture trade show in the Western Hemisphere and one of the largest anywhere in the world with nearly 200 booths! This is your opportunity to inspect the latest in products and services for the aquaculture industry. It is the place to visit current suppliers and make new contacts. To keep ahead and to keep profits building, you need to keep pace with the technological advancements in the industry - and AQUACULTURE 2022 is the place to do it!



# TECHNICAL PROGRAM COVERS THE LATEST RESEARCH

The Triennial Sponsors will put together an extensive technical program featuring special sessions, contributed papers and workshops on all of the species and issues facing aquaculturists around the country. There will be several Featured Sessions covering current topics of global concern. Sample topics will include:

Shrimp Shrimp Nutrition Shrimp Health & Disease Shellfish Disease **Finfish Disease Finfish Nutrition** Shellfish Nutrition Marine Finfish Aquaculture Engineering Zebrafish Aquaponics Tuna Open Ocean Aquaculture IMTA / Integrated Aquaculture Biofouling Conservation / Restoration Aquaculture Distaster Relief Sea Lice GMO Fish and Shellfish **Consumer Perceptions** of Farm-raised Seafood History of Aquaculture Mussels Scallops **Oysters** Clams Abalone Geoducks Pearl oysters Freshwater mussels Tridacna Shellfish genomics Post harvest shellfish treatment Sea Urchins Macrobrachium Crustaceans Tilapia Catfish Largemouth bass Sturgeon Gar, paddlefish and bowfin Percids **Finfish genetics** Pond fertilization and fish larviculture Ornamentals Mullet

Fish Physiology Larval Finfish Eels Finfish Breeding, Genetics, Genomics Striped Bass & Hybrids Dermo Disease Probiotics and feed additives Therapeutic drugs Vibrio Biosecurity Probiotics in aquaculture Nutraceuticals Biotechnology Stock Enhancement Broodstock propagation and management Fish transport Hatchery technology Recirculation technology Freshwater Pond Aquaculture Recreational and ornamental pond management Small scale aquaculture Urban aquaculture Artemia Harmful algal blooms Law, Regulations, and Policy Aquaculture Without Frontiers Aquaculture education (including minority-serving institutions) Market driven aquaculture: developing and sustaining an industry Aquaculture Economics Ecology & Environment Policy & regulations Organic Aquaculture: Future **Opportunities** Certification Endangered species Frogs Water Quality & Effluents Extension/Technology Transfer Feeds Latin American and Caribbean Aquaculture Fish Oil Fish Health and Welfare

# CALL FOR PAPERS – DEADLINE: October 15, 2021

AQUACULTURE 2022 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. All abstracts must be in English – the official language of the conference.

Each oral presenter shall be entitled to no more than 12 minutes for a presentation, plus 3 minutes for questions. Authors of studies involving proprietary products or formulations should present this information in workshops or the trade show. Oral presentations should use Power Point. Slides, overhead projectors, and video players will not be available or allowed.

# All presenters are required to pay their own registration, accommodation and travel expenses. AQUACULTURE 2022 cannot subsidize registration fees, travel or hotel costs.

#### No Abstract Book will be printed – a USB Abstract Book will be given to registered attendees.

# **INSTRUCTIONS FOR PREPARATION OF ABSTRACTS**

Expanded Abstract Format - Please refer to the sample.

- 1. TITLE OF PAPER: The abstract title is printed in CAPITAL LETTERS, with the exception of scientific names which should be Upper/lower case and *italicized* (see example). 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 <u>author's</u> institution, address and email. Type in upper/lower case.
- 4. MAXIMUM LENGTH: One Page
- 5. PAGE SIZE: Standard 8.5 x 11 inch paper (portrait)
- 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. The reduced figures and tables should be included in the abstract in camera-ready form.



11 inches long (27.94 cm

1 inch margin (2.54 cm)

8.5 inches wide (21.6 cm)

### PLEASE SUBMIT YOUR ABSTRACT ONLINE

Submit your abstract via the internet at the meeting website. Follow the complete instructions on the website for online submission.

#### www.was.org

If you are unable to submit your abstract online, contact the Conference Manager for alternative methods at:

worldaqua@was.org



#### ATTENDEE REGISTRATION FORM

February 28 - March 4 • San Diego, California

# Aquaculture 2022

Return address for payments in USD: AQUACULTURE 2022 Conference Manager PO. 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 OR fax or mail both sides with payment. Use one form per person.

PLEASE PRINT CLEARLY OR TYPE				
NAME BADGE INFORMATION: (As you want your name badge to read - No titles, please)				
First Name	SURNA	ME (FAMILY NAME)		
Company / Institution				
(Limited to 40 Letters	& Spaces)			
Country				
MAILING INFORMATION: Email				
Address				
City			Country	
Tel	Fax		Title: (circle one) Dr.	Mr. Ms. Mrs.
(Include country and area code)		country and area code)		
<b>REGISTRATION FEES:</b> In order to receive the disc	ount rates as listed below, this	form and payment must be re	ceived by the date listed.	
TYPE OF REGISTRATION Check the appropriate boxes	Register by January 21, 2022	Register by February 15, 2022	Register after February 15, 2022	* To qualify for Member Rate you <u>must</u> complete the
MEMBER RATE*	US\$ 495	US\$ 595	US\$ 695	Association Memberships section on the reverse side.
STUDENT MEMBER RATE* Include copy of Student I.D.	US\$ 260	US\$ 260	US\$ 325	
Non-Member Rate	US\$ 590	US\$ 690	US\$ 790	Trade Show is <u>included</u> in the
Student Non-Member Rate Include copy of Student I.D. You can join WAS on the reverse side and use the Member Rate.	US\$ 330	US\$ 330	US\$ 390	Full Conference Registration Rate.
Spouse Rate				TOTAL REGISTRATION FEE
Name	US\$ 395	US\$ 495	US\$ 595	US\$
TRADE SHOW PASS (Trade show pass is included with the Full Conference Registration)				
Good for 3 days admission to exhibits only – March 1, 2, 3		US\$ 50	TOTAL TRADE SHOW PASS	US\$
INDUSTRY TOURS See website for current tour in	nformation			
<b>MEMBERSHIP DUES</b> – Enter amount from Member	ership Application on other side if a	applicable.	TOTAL MEMBERSHIP DUES	US\$
Do not mail registration after Jan. 31, 2022 or fax after Feb. 20, 2022. After those dates, bring this form with you to register at the show.				
Registration Confirmation and Receipt will be emailed after processing.				
CANCELLATION POLICY: Cancellation of registra to a 20% handling fee. Refunds are processed aft After February 1, 2022, no refunds will be made for travel emergencies. Fees for memberships are no	er the conference. No refu professional or personal er	nd will be made for cancel	lations received after Februa	ary 1, 2022 or for "no shows".

#### PAYMENT METHOD: All fees must be paid to the order of AQUACULTURE 2022.

Check #	Visa	Mastercard	American Express	
Card #		Expir	ation Date	
Name on Card		Signa	ature	Date

# **REGISTRATION FORM - SIDE 2**

#### Name-



**ASSOCIATION MEMBERSHIPS:** Please check all boxes for associations for which you are a <u>current</u> 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.

- Aquacultural Engineering Society
   Aquaculture Association of Canada
   Aquaculture Without Frontiers
   Asian Fisheries Society
   California Aquaculture Association
   China Society of Fisheries
   Egyptian Aquaculture Society
   European Aquaculture Society
- Fish Culture Section AFS
   Global Aquaculture Alliance
   Korean Aquaculture Society
   Malaysian Fisheries Society
   National Aquaculture Association
   National Shellfisheries Association
   Sociedad Brasileira de Acuicultura

Generation Society of Aquaculture Professionals (India)

- Southern African Aquaculture Society
   Spanish Aquaculture Association (SEA)
   US Trout Farmers Association
- World Aquaculture Society
- World Aquatic Veterinary Medical Association
- Zebrafish Husbandry Association

#### **MEMBERSHIP APPLICATIONS** DINEW APPLICATION DIRENEWAL

### FISH CULTURE SECTION OF AMERICAN FISHERIES SOCIETY

#### □ FCS Membership for Current AFS members \$5.00

All FCS members must be full members of the American Fisheries Society

Join or pay your membership dues online at fishculture.fisheries.org

#### 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

#### MEMBERSHIP CATEGORY: (Indicate only one)

**Individual** (Electronic JWAS) (USD 65/yr) Applies to an individual only

**Individual** (E Access) (USD 45/yr) Applies to an individual only

Student (Electronic JWAS) (USD 45/yr) (Copy of Student ID or Signature of Professor required)

Sustaining (Electronic JWAS) (USD 105/yr) Applies to any one individual from a company

Corporate (Electronic JWAS) (USD 255/yr) Allows all employees of one company to attend meeting at Member Rate

Lifetime (Electronic JWAS only) (USD 1000 with no chapter) Applies to an individual only

Lifetime (Electronic JWAS only) (USD 1100 with one chapter) Applies to an individual only

#### CHAPTER OPTIONS:

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

- Africa
- Asian Pacific
- 🖵 Korea

□ Latin American/Carribean

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.

# NATIONAL SHELLFISHERIES ASSOCIATION

For details on the different types of memberships and options please contact the NSA office at:

www.shellfish.org

#### MEMBERSHIP CATEGORY: (Indicate only one)

Regular (USD 95/yr)
 Student (USD 50/yr)

□ Sustaining (USD 200/yr)

Includes subscription to the Journal of Shellfish Research

Signature of Professor or copy of Student ID required

Total Amount for NSA Membership USD

Please enter this amount under "Membership Dues" section on opposite side of this form.

# NATIONAL AQUACULTURE ASSOCIATION (NAA)

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

Tel: +1-850-216-2400 Fax: +1-850-216-2480 Email: naa@thenaa.net Web: www.thenaa.net

For membership in other associations, please contact them directly. If you need a phone number, contact the Conference Manager worldaqua@was.org.

#### TRAVEL

Special car rental fares have been arranged with AVIS. you can make reservations at 800-331-1600 or +1-918-624-4338 and mention the special discount code #J770126.

### HOTELS

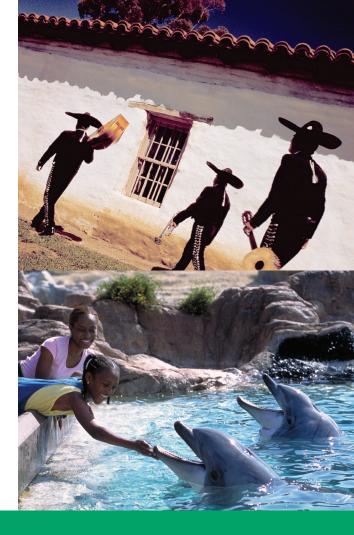
We have arranged for fantastic rates at the recently renovated Town and Country Resort and Conference Center. You can reserve your room by phone or on their website.

Check the conference website for details.

#### OUR FULL CONFERENCE REGISTRATION INCLUDES:

- Admission to all conference sessions and the trade show
- Admission to the receptions
- Conference Bag and Show Directory
- Refreshment Breaks and Happy Hour
- Abstract Book on USB
- 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.



### Stay in touch with the program developments for

Aquaculture 2022

#### through our Web Page at:

www.was.org https://fishculture.fisheries.org www.shellfish.org







# **TENTATIVE SCHEDULE**

### Monday, February 28

Exhibit Set-up	10:00 –	6:00
Registration Open	12:00 -	6:00
Welcome Reception	6:00 -	8:00

### Tuesday, March 1

Registration Open	7:30 –	5:00
Opening Ceremonies & Plenary Session.	8:30 - 1	10:00
Refreshment Break	10:00 – 1	11:00
Sessions	11:00 – 1	12:30
Trade Show Open	10:00 –	6:00
Lunch (on your own)	12:30 –	1:30
Sessions	1:30 –	5:00
Happy Hour & Posters	5:00 -	6:00
Student Reception & NSA Auction	7:00 -	9:00

### Wednesday, March 2

Registration Open	7:30 - 5:00
Sessions	8:30 – 10:00
Trade Show Open	10:00 - 5:30
Refreshment Break	10:00 - 10:30
Sessions	10:30 - 12:30
Lunch (on your own)	12:30 - 1:30
Sessions	1:30 - 4:30
Happy Hour & Posters	4:30 - 5:30
NAA Auction	5:30 - 7:30

#### Thursday, March 3

Registration Open	7:30 – 5:00
Sessions	
Trade Show Open	10:00 - 1:30
Refreshment Break	10:00 – 11:00
Sessions	11:00 – 12:30
Lunch (on your own)	12:30 - 1:30
NSA Members Luncheon	12:30 - 2:00
Sessions	1:30 - 3:00
Exhibit Move-out	1:30 - 7:00
Refreshment Break	3:00 - 3:30
Sessions	3:30 - 5:30
Presidents Reception	6:30 - 8:30

#### Friday, March 4

Registration Open	8:00 - 5:00
Sessions	8:30 – 10:00
Refreshment Break	10:00 – 10:30
Sessions	10:30 – 12:30
Lunch (on your own)	12:30 - 1:30
Sessions	1:30 - 3:00
Refreshment Break	3:00 - 3:30
Sessions	3:30 - 5:00
Closing Happy Hour	5:00 - 6:00