December 5-8, 2021
Singapore EXPO Convention & Exhibition Centre
and MAX Atria
The Annual International Conference & Exposition of World Aquaculture Society
Asian Pacific Aquaculture 2020
– Annual Meeting of Asian Pacific Chapter, WAS
Hosted by Singapore Food Agency
Conference Sponsors
Temasek Polytechnic, Nanyang Technological University
National University of Singapore, James Cook University
Republic Polytechnic
3rd International Symposium on Perch and Bass
WAS Premier Sponsors

WA2020 Partner

Associate Sponsors
Aquaculture Engineering Society
International Association of Aquaculture Economics & Management
WorldFish

INNOVATION AND SUSTAINABILITY WILL FEED THE WORLD

WA2020 will be an In-Person Event! Please get vaccinated so we can have a free-flowing meeting!
WORLD AQUACULTURE VISITS SINGAPORE FOR THE FIRST TIME

WORLD AQUACULTURE 2020 will be held in Singapore with involvement from countries throughout the Asian-Pacific region and around the world. Aquaculture is rapidly growing in the Asian-Pacific region and increasingly being integrated into the Singapore food systems; therefore 2020 is the perfect time for the world aquaculture community to focus on Singapore.

A major international trade show at WORLD AQUACULTURE 2020 is the place to learn about the latest aquaculture technologies presented by exhibitors from around the world.

Stay in touch with the program developments for WORLD AQUACULTURE 2020 through our Web Page at: www.was.org

FANTASTIC TOURIST OPPORTUNITIES

Singapore is among the world’s top cities for tourism. A gateway to Asia and beyond, Singapore is a cosmopolitan city and a melting pot of different cultures. Singapore is home to a vibrant arts and entertainment scene, lively dining and drinking spots, various must-see attractions and the famed shopping district, Orchard Road. Singapore is also well known as a Garden City with world-class attractions and skyscrapers set amidst lush greenery. The 150-year-old Singapore Botanic Gardens – Singapore’s first UNESCO World Heritage Site - is located a mere five minutes away from the shopping district.

SPECIAL PRODUCER PROGRAM

World Aquaculture 2020 will have many special Producer Sessions to address Producer’s concerns from around the Asia-Pacific region.
Sessions and workshops at World Aquaculture 2020 will cover all aspects of aquaculture in the Asia-Pacific region as well as the rest of the world. Sample topics will include:

- Abalone
- Algae and macrophytes
- Amphibian and Reptile Aquaculture
- Animal health and Welfare
- Aquaponics and Integrated Aquaculture-Agriculture Systems
- Aquatic veterinary health capacity
- Arid land Aquaculture
- Barramundi, Seabass & Seabream
- Bio-floc Systems
- Biosecurity
- Biotechnology
- Breeding & Genetics
- Cage-culture
- Carpet Shells
- Carps
- Catfish
- Certification and legislation
- Clams (including Giant Clams)
- Climate change, adaptation, resilience
- Cobia
- Coldwater Species - General
- Country Specific Sessions (eg 2008 Norway)
- Crabs & Lobsters
- Crayfish & Freshwater Prawn
- Development, Welfare and Poverty Alleviation (AwF)
- Diseases
- Drugs and Chemotherapeutics
- Economics & Management
- Ecosystems approach
- Education, Extension, Technology Transfer & Workforce Development (AquaEd)
- Eels
- Embryology
- Emerging Issues
- Emerging Species
- Enhancement, Stocking & Ranching
- Environment and Biodiversity and Climate Change

- Energy-alternative sources and conservation
- Engineering
- Financing and investment
- Finfish Broodstock Maturation
- Fish Health
- Fish Meal and Oil (IFFO)
- Flattfish
- Food Safety, Inspections and Audits
- Food security
- Freshwater Species - General
- General Aquaculture
- Grouper & Snapper
- Hatchery & Larvae Management
- Hatchery and Nursery
- Immunology
- Information Technology in Aquaculture
- Innovation and High Techs
- Integrated Multi-trophic Aquaculture
- Investment in Aquaculture
- Korean Aquaculture Session
- Marketing & Trade
- Milkfish
- Mollusc Broodstock and Hatchery
- Mollusc Cultivation
- Mullets
- Mussels
- Nutrition & Feed
- Ocean acidification
- Octopus and Cuttlefish
- Offshore Aquaculture
- Omics tools for Aquaculture
- Organic Aquaculture
- Ornamentals
- Other Marine Fish
- Oyster
- Pacific & Indigenous Aquaculture
- Pangasius, Clarias & Ictalurus
- Pearl and Queen Conch Culture
- 3rd International Symposium on Perch and Bass
- Physiology, Morphology & Histology

- Plankton Culture
- Policy & Regulations
- Polyculture
- Pond Culture
- Prebiotics and Probiotics
- Processing Technology
- Product Quality
- Production systems
- Raceway Systems
- Recirculating Systems
- Reservoir based and Lake Aquaculture
- Salmonids
- Scallops
- Sea cucumbers
- Sea urchins
- Seafood & Health (GILLS)
- Seaweeds and Algae
- Shrimp Farm Design and Management
- Shrimp Feeding and Nutrition
- Shrimp Genetics, Broodstock and Hatchery Management
- Shrimp pathology and biosecurity
- Snappers
- Socioeconomics
- Spatial Planning, Regulation and Zoning
- Standards & Certification
- Sturgeons
- Sustainable Development of Aquaculture
- Tilapia
- Trade
- Trouts
- Tuna
- Urban aquaculture
- Value Chain Development
- Warm water Species – General
- Wastage Utilisation
- Water Quality and Usage
- Women in Aquaculture
- Yellowtails, Amberjacks, etc
- Zebralfish

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

FOR MORE INFORMATION:
World Aquaculture 2020
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
www.was.org
REGISTER EARLY AND SAVE!
CALL FOR PAPERS – DEADLINE: July 6, 2021

WORLD AQUACULTURE 2020 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 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 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. WORLD AQUACULTURE 2020 cannot 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

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 author’s 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)

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. The reduced figures and tables should be included in the abstract in camera-ready form.

11. FIGURES & TABLES: Figures and tables should be included in the abstract but should be clearly readable at the reduced size. The reduced figures and tables should be included in the abstract in camera-ready form.

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:

worldaqu@was.org
Online registration is preferred at www.was.org OR fax or mail both sides with payment. Use one form per person.

<table>
<thead>
<tr>
<th>PLEASE PRINT CLEARLY OR TYPE ALL REQUESTED INFORMATION</th>
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<tr>
<td>BADGE INFORMATION: (As you want your name badge to read – No titles, please)</td>
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<td>First Name __________________________ SURNAME (FAMILY NAME) __________________________</td>
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<td>Phone __________________________ Fax __________________________ Title: (circle one) Dr. Mr. Ms. Mrs.</td>
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<th>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.</th>
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<tr>
<td>TYPE OF REGISTRATION</td>
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<tr>
<td>FULL CONFERENCE &amp; TRADE SHOW</td>
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<td>In order to receive the Pre-Registration discount rate, this form and payment must be received by the date above</td>
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<th>Register by Oct. 15, 2021</th>
<th>Register by Nov. 14, 2021</th>
<th>Register after Nov. 14, 2021</th>
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<tr>
<td>WAS/CHAPTER MEMBER RATE*</td>
<td>US$ 495</td>
<td>US$ 595</td>
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<tr>
<td>WAS/CHAPTER STUDENT MEMBER RATE*</td>
<td>US$ 295</td>
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<td>Non-Member Rate</td>
<td>US$ 590</td>
<td>US$ 690</td>
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<td>Student Non-Member Rate</td>
<td>US$ 395</td>
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<td>Spouse Rate – must accompany a full registration</td>
<td>US$ 385</td>
<td>US$ 485</td>
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<tr>
<th>TRADE SHOW PASS</th>
<th>Trade show pass is included with the Full Conference Registration</th>
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<td>Good for 3 days admission to exhibits only – Dec. 6, 7, 8</td>
<td>US$ 50 TOTAL TRADE SHOW PASS US$</td>
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<th>WORKSHOPS &amp; TOURS</th>
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<tr>
<th>MEMBERSHIP DUES</th>
<th>Enter amount from Membership Application on other side if applicable</th>
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<td>TOTAL MEMBERSHIP DUES</td>
<td>US$</td>
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| TOTAL AMOUNT US$ | |

| CANCELLATION POLICY: Cancellation of registration must be received - in writing - no later than Nov. 1, 2021. 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 Nov. 1, 2021 or for “no shows”. After Nov. 1, 2021, 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. |

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<th>PAYMENT METHOD: All fees must be paid to the order of WORLD AQUACULTURE 2020. For bank transfer details, contact us.</th>
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<tr>
<td>Check # __________________________ Visa Mastercard American Express Discover Diners Club Card # __________________________ Expiration Date __________________________</td>
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<td>Credit Card Billing Address __________________________</td>
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Registration Confirmation and Receipt will be emailed after processing.
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  ❑ African Chapter

AFFILIATE MEMBERSHIPS:
❑ Aquabio
❑ Aquaculture Association of Canada
❑ Aquaculture Association of South Africa
❑ Aquaculture Without Frontiers
❑ Asian Fisheries Society
❑ 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
❑ Sociedad Brasileira de Acuicultura
❑ 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

For details on the different types of memberships and options, please contact the WAS home office at
Tel: +1-225-578-3137  Fax: +1-225-578-3493  Email: judya@was.org

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 included 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

Total Amount for WAS Membership  USD________

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

Fees for memberships are non-refundable.

For membership in other associations, please contact them directly.

If you need a phone number, contact the Conference Manager (+1-760-751-5005).
MANY OPPORTUNITIES FOR FARM TOURS
Some very special tours will be arranged. Details to be provided later – check our website for updates.

HOTELS
We have arranged a wide range of quality accommodations at special rates. Please check the website for hotel details.

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<th>TRADE SHOW SCHEDULE</th>
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<tr>
<td>DEC. 6</td>
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<td>10:00 - 19:00</td>
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TENTATIVE SCHEDULE

Sunday, December 5
Registration Open  Noon – 18:00
Exhibitor Move-in  Noon – 18:00
Poster Set-up  13:00 – 17:30
Welcome drink  17:00 – 19:00

Monday, December 6
Registration Open  7:30 – 17:00
Welcome and award  9:00 – 09:15
Keynote Speech by GOH  9:15 – 09:45
Plenary  9:45 – 10:15
Opening ceremony  10:15 – 10:45
Exhibitor Move-in  8:00 – 10:00
Poster Set-up  8:00 – 10:00
Official opening exhibition  10:45 – 10:50
Refreshment Break  10:45 – 11:15
Trade Show & Posters Open  10:00 – 19:00
Sessions  11:15 – 12:55
Lunch (On your own)  12:55 – 14:00
Sessions  14:00 – 15:40
Refreshment Break  15:40 – 16:00
Sessions  16:00 – 17:40
Happy Hour & Poster Session  17:40 – 19:00
Student Reception  19:00 – 21:00

Tuesday, December 7
Registration Open  7:30 – 17:00
Sessions  9:00 – 10:40
Refreshment Break  10:40 – 11:00
Trade Show & Posters Open  10:00 – 19:00
Sessions  11:00 – 12:40
Lunch (On your own)  12:40 – 14:00
Sessions  14:00 – 15:40
Refreshment Break  15:40 – 16:00
Sessions  16:00 – 17:40
Happy Hour & Poster Session  17:40 – 19:00
WAS-APC Members meeting  17:40 – 18:40
President’s Reception  19:00 – 21:00

Wednesday, December 8
Registration Open  7:30 – 17:00
Sessions  9:00 – 10:40
Refreshment Break  10:40 – 11:00
Trade Show & Posters Open  10:00 – 16:00
Sessions  11:00 – 12:40
Lunch (On your own)  12:40 – 14:00
Sessions  14:00 – 15:40
Refreshment Break  15:40 – 16:00
Sessions  16:00 – 17:40
Poster Out take down  17:40 – 18:00
Exhibit Move-out  17:40 – 22:00