



2025 World Aquaculture China

**Aquaculture Transformation:
Actions Towards High Quality and Food Security**

World Aquaculture 2025 China

April 24-27, 2025

Qingdao, China

The Annual International Conference and Exposition



**WORLD
AQUACULTURE
Society**



Hosted by
World Aquaculture Society (WAS)
and
China Society of Fisheries (CSF)

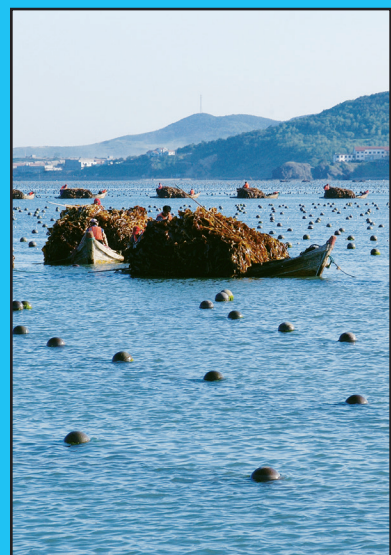
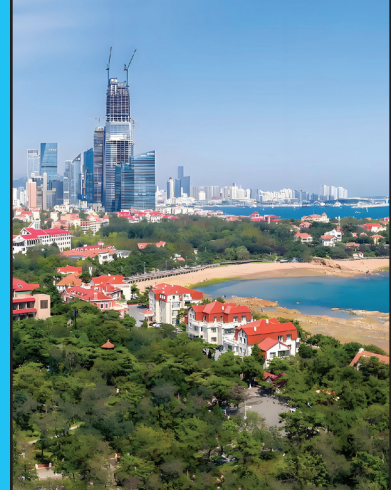
Co-hosted by
National Fisheries Technology Extension Center (NFTEC)
Chinese Academy of Fishery Sciences (CAFS)
State Key Laboratory of Mariculture Biobreeding
and Sustainable Goods (BRESG)

Organized by
Yellow Sea Fisheries Research Institute (YSFRI) CAFS
and World Aquaculture Society

WAS Premier Sponsors



Conference Sponsors To Be Announced



WORLD AQUACULTURE VISITS QINGDAO FOR THE FIRST TIME

WORLD AQUACULTURE 2025 CHINA will be held in Qingdao, China with involvement from countries throughout the Asian-Pacific region and around the world.

World Aquaculture 2025 will visit China again after the first successful meeting in World Aquaculture 2002 , more than 20 years ago. Aquaculture is rapidly growing in the Asian-Pacific region and increasingly in China, therefore 2025 is the perfect time for the World Aquaculture community to focus on China again at Qingdao City.

Qingdao plays an important role in China's maritime development with its advanced marine economy, robust marine industry and strong foundation in marine fishery, marine equipment manufacturing, and marine transportation. Ocean University of China, Yellow Sea Fisheries Research Institute, Chinese Academy of Fishery Sciences, the Institute of Oceanography of the Chinese Academy of Sciences located here. Qingdao Port, the fourth largest port in the world, is emerging as an international shipping hub in Northeast Asia.

*Stay in touch with the program developments for
WORLD AQUACULTURE CHINA 2025 through our Web Page at: www.was.org*

DESTINATION: QINGDAO

Facing the Yellow Sea, Qingdao is located on the southern tip of Shandong Peninsula. Named after an isle near its shoreline called Little Qingdao and the Qingdao Village, an ancient fishing village, the city is an open coastal city with rich cultural traditions and natural resources in Northern China. It is an important coastal center of China, a well-known tourist destination, an international port, and a city steeped in rich historical and cultural heritage. It has been awarded one of the Most Ecologically Competitive Cities in China. It covers a land area of 11,000 square kilometers and a sea area of 12,000 square kilometers with jurisdiction over seven districts and three county-level cities and a resident population of over 10 million. Qingdao is a well-known city of football, city of film and TV and the sailing capital of China. It has won a series of honors including one of the 2021 China's Happiest Cities and China's 10 Best Cities to Live. It is also home to well-known brands including Haier, Hisense, Tsingtao Beer and CRRC Sifang.

SPECIAL PROGRAMS

World Aquaculture 2025 China will have many special Producer Sessions to address Producer's concerns from around the Asia-Pacific region. Various organizations and projects will organize special sessions during this event.



TECHNICAL PROGRAM COVERS THE LATEST RESEARCH

Sessions and workshops at World Aquaculture 2025 China will cover all aspects of aquaculture in the Asia-Pacific region as well as the rest of the world. Sample topics will include:

1. Aquaculture technologies, larvae, fingerlings, nursery and grow out

1.1 Seaweed Culture

- Micro Algae
- Macro Algae

1.2 Crustacean Culture

- Shrimp and Prawn
- Crabs and Lobsters
- Freshwater Prawn/shrimp
- Crawfish (special session)
- Mitten Crab (special session)

1.3 Mollusk Culture

- Bivalves
- Pearl oyster (special session)
- Gastropods
- Abalone (special session)
- Cephalopods, squid and octopus

1.4 Fish Farming

- Carps
- Turbot, Flounder, Sole
- Sea bass, Sea bream, Barramundi, Pangasius, Catfish, etc.
- Others Culture (Tuna, Walleye, eel, etc.)
- Groupers (special session)
- Tilapia Culture (special session)
- Salmonids and Trouts (special session)
- Sturgeons

1.5 Echinoderm and Other Species Culture

- Sea Cucumber
- Sea Urchin
- Sea Horse
- Others

1.6 Ornamental and Non-Food species Culture

1.7 Introduction, Alien and Emerging Species

1.8 Plankton, Artemia, Rotifers, etc.

2. Aquaculture mode

- Integrated multi-trophic Aquaculture (IMTA)
- Integrated Rice-field Aquaculture
- Sea Ranching and Stock Enhancement
- Recirculating Aquaculture system and Effluent Treatment
- Cage Culture and Floating Fish Farm Unit
- Deep Sea Aquaculture
- Alkaline Water / Arid Land / Aquaculture
- Biosecurity and Antimicrobial Resistance
- Bio-floc and Micro-ecological Agents
- Facilities and Intelligentization
- Ponds, Beaches, Rafts Aquaculture

3. Aqua-feed and Nutrition

- Feed Additives
- Fish Meal and Oil
- Fish Meal Replacement
- Lipid and Protein Sources
- Novel Feed Ingredients
- Live Feeds
- Feeds and Feeding

4. Aquaculture Disease, Prevention, and its control

- Vaccines and Therapeutics
- Immunology and Pathology
- Animal health and Diagnostics
- Prebiotics and Probiotics
- Bacteria and Parasites
- Virus and Diagnostic kits
- Pathology and Emerging Diseases
- Drugs and Chemotherapeutics
- Animal Welfare

5. Aqua-Biotechnology, Genetics and Breeding

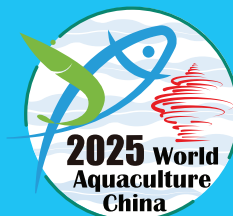
- Genome Regulation and Manipulation
- Genomic Selection Breeding
- Genome Editing Breeding
- Genetic Mapping and Molecular Markers
- Selection and Breeding Programme
- Germ Cell Transportation
- Diversity of Aquatic Genetic Resources
- Genetic Basis and Regulatory Mechanism of Economic Trait
- Genetics

6. General

- Strategy, Policy, Planning and Standardization
- Biodiversity and Alien Species
- Information and Smart aquaculture
- Ecosystem, Environment and Climate Change
- Genetic Resource preservation and restoration
- Processing and logistics
- Food Safety, Verification and Risk Assessment
- Value Chain Economics
- Aquaculture Socio-economics
- Sustainable Production and Management System
- Emerging Issues
- Education, Extension, Technology Transfer
- New resources and conservation
- Internet of things technology
- Fishery Culture
- Innovation and High Techs
- Market and Trade
- Aqua-farm Design and Management

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:

Conference Manager

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

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

REGISTER EARLY AND \$AVE!

CALL FOR PAPERS – DEADLINE: January 31, 2025

WORLD AQUACULTURE 2025 CHINA 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 2025 China 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.

1 inch margin (2.54 cm)

EVALUATION OF JUVENILE AUSTRALIAN RED CLAW CRAYFISH *Cherax quadricarinatus* FED PRACTICAL DIETS WITH AND WITHOUT SUPPLEMENTAL LECITHIN AND/OR CHOLESTEROL

Laura A. Muzinic*, Kenneth R. Thompson, Tracey Christian, Carl D. Webster,
Lukas Manomaitis, and David B. Rouse

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Kentucky State University
Frankfort, KY 40601
lmuzinic@csr.net

Red claw crayfish (*Cherax quadricarinatus*) are one of more than a hundred species of Australian freshwater crayfish. However, because of its rapid growth rate, ease of spawning, wide tolerance, and lack of a larval stage, red claw may be the best candidate for aquaculture in the United States. Red claw are only being investigated as an aquaculture species in the country and no information exists on their nutritional requirements and practical diet formulations. Many crustaceans require lecithin and cholesterol to be added to their diet, these two nutrients are usually added; however, lecithin and cholesterol are very expensive. Since diet costs can be as much as 25% of the total expenses for an aquaculture enterprise, it is imperative that the least expensive diet be formulated that meets the nutrient requirements of the species. The present study was conducted to determine if cholesterol and/or lecithin needs to be added to a practical diet for red claw crayfish.

An 8-week feeding trial was conducted in a recirculating system with newly-hatched juvenile (mean weight of 0.2 g) red claw, each stocked in a 100 L plastic mesh culture units. Individual units were placed within fiberglass tanks, each containing a vertical water line. Water was recirculated through biological and mechanical filters. Water temperature was maintained at 27-29°C and light was on a 12 hour light:dark cycle. Ammonia, nitrite, nitrate, oxygen, temperature, alkalinity, chlorophyll *a* were measured three times per week. The goal of the study was to examine the effects of growth performance of newly-hatched juvenile red claw when fed four practical diets with or without cholesterol and lecithin. Other practical diets included menhaden fish meal, soybean meal, shrimp meal, wheat flour, vitamin and mineral mix, pellet binder, cod liver oil, and corn oil (Table 1).

After 8 weeks, red claw crayfish fed a practical diet without cholesterol (Diet 3) had significantly ($P < 0.05$) lower final weight, percentage weight gain, and specific growth rate (SGR) compared to crayfish fed all other diets (Table 2). These results indicate that a practical diet containing 2% cod liver oil and 1% corn oil and having no lecithin appears to be sufficient and that lecithin may not be necessary for juvenile red claw diets.

1 inch margin (2.54 cm)

8.5 inches wide (21.6 cm)

1 inch margin (2.54 cm)

1 inch margin (2.54 cm)

11 inches long (27.94 cm)

	Diet			
	1	2	3	4
Menhaden FM	25.0	25.0	25.0	25.0
Soybean Meal	35.0	35.0	35.0	44.5
Lecithin 0.5	0.0	0.5	0.0	
Cholesterol	1.0	1.0	0.0	0.0
Other	38.5	39.0	39.5	30.5

	Diet			
	1	2	3	4
Final weight (g)	6.97a	6.00a	3.64b	5.11a
Weight gain (%)	3384a	2897a	1717b	2454a
SGR (%/day)	5.74a	5.66a	4.68b	5.41a
Survival (%)	76.0	64.0	56.0	80.0

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



World Aquaculture 2025 China

April 24-27, 2025

Register online at: www.was.org

Return address for payments in USD:
Conference Manager
P.O. Box 2302
Valley Center, CA 92082 USA
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 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)

City _____ State/Prov _____ Country _____

MAILING INFORMATION: Email _____

Postal Address _____
(please include email 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. For Asia-Pacific country special discount rate, you must reside or live in the list of countries that qualify for this event*. See brochure for what is included in registration fees.

TYPE OF REGISTRATION FULL CONFERENCE & TRADE SHOW In order to receive the Pre-Registration discount rate, this form and payment must be received by the date above	Register by April 1, 2025	Register after April 1, 2025	* To qualify for Member Rate you <u>must</u> complete the Association Memberships section on the reverse side.
WAS MEMBER RATE	<input type="checkbox"/> US\$ 395	<input type="checkbox"/> US\$ 465	● ● ● ● ● ● ● ● Trade Show is <u>included</u> in the Full Conference Registration Rate.
WAS/CHAPTER STUDENT MEMBER RATE Include copy of Student I.D.	<input type="checkbox"/> US\$ 195	<input type="checkbox"/> US\$ 225	
Non-Member Rate	<input type="checkbox"/> US\$ 495	<input type="checkbox"/> US\$ 565	
Student Non-Member Rate Include copy of Student I.D. <i>You can join WAS on the reverse side and use the Member Rate.</i>	<input type="checkbox"/> US\$ 245	<input type="checkbox"/> US\$ 285	
Asia-Pacific Country* Member Rate	<input type="checkbox"/> US\$ 160	<input type="checkbox"/> US\$ 260	
Asia-Pacific Country* Student Member Rate Include copy of Student I.D.	<input type="checkbox"/> US\$ 100	<input type="checkbox"/> US\$ 120	TOTAL REGISTRATION FEE
Asia-Pacific Country* Non-Member Rate	<input type="checkbox"/> US\$ 195	<input type="checkbox"/> US\$ 295	
Asia-Pacific Country* Student Non-Member Rate <i>(Note* only the Listed Asia-Pacific countries that qualify in this event and registration for Non-Member rate)</i>	<input type="checkbox"/> US\$ 130	<input type="checkbox"/> US\$ 150	
Spouse Rate Name _____	<input type="checkbox"/> US\$ 295	<input type="checkbox"/> US\$ 395	US\$ _____
TRADE SHOW PASS (Trade show pass is included with the Full Conference Registration) Good for 3 days admission to exhibits only - April 24-27 <input type="checkbox"/> US\$ 50 TOTAL TRADE SHOW PASS US\$ _____			
WORKSHOPS & TOURS - TBA			TOTAL US\$ _____
MEMBERSHIP DUES - Enter amount from Membership Application on other side if applicable.			TOTAL MEMBERSHIP DUES US\$ _____
Do not mail registration after March 13, 2025 or fax after March 13, 2025. After March 13, 2025, 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 March 12, 2025. 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 March 12, 2025 or for "no shows". After April 1, 2025, 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 World Aquaculture 2025 China.

For bank transfer details, contact us.

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

Card # _____ Expiration Date _____

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 ☐ African Chapter

AFFILIATE

MEMBERSHIPS: ☐ China Society of Fisheries
☐ European Aquaculture Society
☐ Global Aquaculture Alliance

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: +1-225-347-5408 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

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

**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.

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).

MANY OPPORTUNITIES FOR FARM TOURS AND TRAVEL

Some incredibly special tours will be arranged. Details to be provided later – check our website for updates.

HOTELS

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

TRADE SHOW SCHEDULE

APRIL 25
10:00 - 18:00

APRIL 26
10:00 - 18:00

APRIL 27
10:00 - 16:00



TENTATIVE SCHEDULE

Thursday, April 24

Registration Open & Exhibit Set-up	1000 - 1800
Opening ceremony and welcome reception	1600 - 1800

Friday, April 25

Registration Open	0730 - 1800
Plenary Sessions	0900 - 1020
Official opening exhibition	1030 - 1035
Break	1030 - 1100
Trade Show Open	1000 - 1800
Sessions	1100 - 1240
Lunch	1240 - 1400
Sessions	1400 - 1740
Happy Hour & Posters	1740 - 1800

Saturday, April 26

Registration Open	0800 - 1700
Sessions	0900 - 1040
Break	1040 - 1100
Trade Show Open	1000 - 1800
Sessions	1100 - 1240
Lunch	1240 - 1400
Sessions	1400 - 1740
Happy Hour & Posters	1740 - 1800

Sunday, April 27

Registration Open	0800 - 1600
Sessions	0900 - 1040
Break	1040 - 1100
Trade Show Open	1000 - 1600
Sessions	1100 - 1240
Lunch	1240 - 1400
Sessions	1400 - 1540
Break	1540 - 1600
Sessions	1600 - 1740
Exhibit Move-out	1600 - 2000

