

- New Show Dates -

Asian-Pacific Aquaculture 2024

Aquaculture - Driving the Blue Economy

2-5 July, 2024 **Grand** City Surabaya, Indonesia

The Annual International Conference & **Exposition of World Aquaculture Society** and Asian Pacific Aquaculture 2024 **Annual meeting of Asian Pacific Chapter, WAS**





Hosted by: Ministry of Marine Affairs & Fisheries (MMAF)





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Co-Organizer:

SOX

A S I A N P A C I F I C A Q U A C U L T U R E 2024 THE THIRD MAJOR INTERNATIONAL AQUACULTURE CONFERENCE IN INDONESIA

After the first successful meeting in 2005 in Bali,and following the successful in 2016 in Surabaya. We decided to come back to Indonesia again in 2024.

Asian Pacific Aquaculture 2024 will be the next chance for the international aquaculture community to visit Indonesia and see the rapidly expanding aquaculture industry in Indonesia – nearly 20% increase in the last 5 years in hectares in aquaculture production and growing significantly every year for the last 10 years! Attendees will be able to see what is happening in Indonesian aquaculture to create this growth as well as aquaculture developments in the rest of Southeast Asia.

Asian Pacific Aquaculture 2024 is the place to learn about the latest in aquaculture, see the newest technology in the trade show with exhibits from around the world and enjoy the many tourist sites in Indonesia.

SPECIAL PRODUCER PROGRAM

Asian Pacific Aquaculture 2024 will have several special Industry sessions with the latest in practical knowledge for the Indonesian aquaculture producers.

TECHNICAL PROGRAM COVERS THE LATEST RESEARCH

Sessions and workshops at Asian Pacific Aquaculture 2024 will cover all aspects of aquaculture in Indonesia as well as Southeast Asia.

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PROGRAM TOPICS

Aquaculture Engineering Aquaculture in Pacific Island Countries and Territories (PICTs) Aquaponics and Integrated Aquaculture-Agriculture Systems Aquatic Animal Welfare Biodiversity and Climate Change Biology and Culture of Amphibians and Reptiles Bivalves Blue Economy Breeding and Genetics Broodstock Culture, and Domestication Cage Aquaculture and Offshore Aquaculture Catfish and Eels Cobia, Flatfish, Milkfish and Other Marine Fish Crabs and Lobsters Crayfish and Freshwater Prawn Disease Diagnosis and Treatment Methods Drugs and Chemotherapeutics Economics, Value Chain Development, and Management Education, Extension and Technology Transfer Emerging Issues, Policy, and Regulations Enhancement, Stocking and Ranching Environmental problems and Adaptations in Aquaculture, and Fisheries Epidemiology and Health Management Farmers' Day Feeding Technology and Automation Feedstuffs, Ingredients and Feed Additives Fish Biology and Physiology Food Safety, Inspections, Audits, and Security General Aquaculture General Biotechnology Genomes and Omic Technology Groupers and Snappers HACCP, Standards and Certification

Hatchery Management Immunology, Vaccines, Probiotics, Prebiotics, and Synbiotics Indonesian Aquaculture Information Technology in Aquaculture Invertebrate Biology and Physiology Larviculture Technology Livefood Culture and Management Marketing, Trade, and Investments in Aquaculture Microalgae culture Nutrition and Dietary Requirements Ornamentals Fish and Systems Other Freshwater Species Pearl and Other Invertebrate Species Polyculture, Pond Culture and Raceway Systems Processing Technology and Product Quality Recirculating Aquaculture Sytem (RAS), Biofloc, **Environmental Probiotics** and Integrated Multi-Trophic Aquaculture (IMTA) Sea bass and Sea-breams Sea cucumbers and Urchins Seaweeds and Seagrasses Shrimp Diseases and Health Management Shrimp Farm Design and Management Shrimp/Prawn Genetics, Domestication and Seed Selection Shrimp/Prawn Nutrition and Feeds Shrimp/Prawn Seed Production and Hatchery Management Sustainable Development of Aquaculture Tilapia Tuna, Yellowtails and Amberjacks Waste Recycling & Utilization Water Quality, Usage and Management

Women in Aquaculture

Stay in touch with the program developments for ASIAN-PACIFIC AQUACULTURE 2024 through our Web Page at: http://www.was.org

CALL FOR PAPERS – DEADLINE: March 31, 2024

ASIAN-PACIFIC AQUACULTURE 2024 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.

Posters will have a featured and prominent place in ASIAN-PACIFIC AQUACULTURE 2024:

- Presenters that turn in the PDF or PowerPoint of their poster four weeks before the conference will have their poster reviewed at the end of the appropriate oral session.
- If turned in as stated above, the posters will also go on the conference website.
- Besides the two Happy Hours in the exhibits, there will be an additional Special Poster Viewing & Happy Hour on Friday.
- In the Program Book, special announcements will be made in the oral session lists of where relevant posters can be found.

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. Overhead and slide projectors and video players will not be available or allowed.

All presenters are required to pay their own registration, accommodation and travel expenses. ASIAN-PACIFIC AQUACULTURE 2024 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.

- 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 (see sample). 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.
- ADDRESS AND EMAIL: Type only the presenting 3. author's institution, address and email. Type in upper/lower case.
- MAXIMUM LENGTH: One Page 4.
- PAGE SIZE: Standard A4 paper (210mm x 297mm 5. = 8.27" x 11.69")(portrait)
- MARGINS: 1-inch margin throughout (left/right/top/ 6. bottom)
- 7. SPACING: Single spaced
- **PARAGRAPHS:** Paragraphs should be separated 8. by a blank line and should not be indented.
- 9. FONTS: Character fonts should be 12 point type.
- 10. PHOTOS, FIGURES & TABLES: Photo, figures and tables are highly recommended and they may be in color. They should be reduced to the appropriate size to fit a one page abstract and should be clearly readable at the reduced size. The reduced figures and tables should be included in the abstract.

2.5 cm margin

EVALUATION OF IUVENILE AUSTRALIAN RED CLAW CRAYFISH Cherax quadricarinatus 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

Aquaculture Research Center Kentucky State University Frankfort, KY 40601 lmuzinic@dcr.net

Red claw crayfish (Cherax quadricarinatus) are one of more than a hundry crayfish. However, because of its rapid growth rate, ease of spawning, with tolerance, and lack of a larval stage, red claw may be the best candidate for Red claw are only being investigated as an aquaculture species in this country on their nutritional requirements and practical diet formulation. These many chalenteen the be didd the build git these two mutricare are with didd the ccies of Australian freshwater are and dissolved oxygen mp the United States \er ans require lecithin and ince many cru dded; ho ever, lecithin and cholesterol cholesterol to be added to their diet, these two nutrients are usual are very expensive. Since diet costs can be as much as expenses for an aquaculture eets the nutrient requirements of of h ver enterprise, it is imperative that the least expensive dir the species. The present study was conducted to detter the je ated olesterol and/or lecithin needs to be added to a practical diet for red claw crayfish.

margin recirc . vh. An 8-week feeding trial was conducted in/ system with newly-hatched juvenile (S ithe utah weight of 0.2 g) red claw, each stocked plastic mesh culture units. Individ E an in 2.5 within fiberglass tanks, each o Mual water line. Water was recircula and mechanical filters. The temp logical was maintained ed by overhead hour light:dark oxygen, temperature, measured three times andy was to examine the per week. The goal of udy 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 d 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

> > 2.5 cm margin

21 cm wide

PLEASE SUBMIT YOUR ABSTRACT ONLINE

www.was.org

29.7 cm long

cm margin

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TABLE 1. Formulation of experimental diets fed to

35.0 35.0 44.5

0.5 1.0 39.0 0.0 0.0 39.5

TABLE 2. Final weight, percentage weight gain specific growth rate (SGR), and percentage surviv of red claw crayfish fed four practical diets. Mear a column with different letters were significantly

25.0 35.0 25.0 25.0 25.0

0.0

1.0 38.5

1 2

6.97a 3384a

5.74a 76.0 5.66a 64.0 4.68b

Diet

1

re significantly

3.64b 1717b

56.0

5.11a 2454a 5.41a 80.0

Diet

red claw crayfish

Menhaden FM Soybean Meal

ecithin 0.5

different (P < 0.05)

Final weight (g) Weight gain (%) SGR (%/day) Survival (%)

Cholesterol Other

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|--|---|-------------------------------|---|---|
| APA 24 | July 2 | 2-5, 2024 | | Register or ors |
| SAVE TIME – REGISTER O | 5 | , | SAVE TIME - | REGISTER ONLINE |
| Register Online Please return both sides of this form Registration can be faxed (Fax: +1-7 Use one form per person. Please coj Cancelled registrations will receive a Refunds will be issued after the conference | with payment to one of the addresses 60-751-5003) if paying by credit card by this form for additional people. refund minus 20% handling. Cancella | (Fax both sides). | e currency used). | |
| | PLEASE PRINT CLEARLY OR | TYPE ALL REQUESTED | INFORMATION | |
| NAME BADGE INFORMATION: (As | you want your name badge to read - | No titles, please) | | |
| First Name | SU | RNAME (FAMILY NAME) | | |
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| Address | <i>lease</i> include email address) | | | |
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| Phone | Fax | | Title: (circle one) | Dr. Mr. Ms. Mrs. |
| (Include country and city code) | (Include | e country and city code) | ii | i |
| TYPE OF REGISTRATIC FULL CONFERENCE & TRADE SHO In order to receive the pre-Registration discou | WC | Register by April 15, 2024 | Register after April 15, 2024 | * To qualify for Member Rate you <u>must</u> complete the Association |
| ASSOCIATION MEMBER RATE* | | US\$ 325 | US\$ 490 | Memberships section on |
| STUDENT MEMBER RATE* Include copy of Student I.D. | | US\$ 165 | US\$ 195 | the reverse side. Only the listed Asia-Pacific countries that qualify in |
| Non-Member Rate Student Non-Member Rate Include copy of Student I.D. You can join WAS on the reverse side an | id use the Member Rate. | US\$ 425 | US\$ 590 | this event and registration for Non-Member rate will be included in WAS Membership |
| Asia-Pacific Country Member Rate | e* | US\$ 200 | US\$ 280 |] • • • • • • • • |
| Asia-Pacific Country Student Rate | 9* | US\$ 90 | US\$ 120 | Trade Show is <u>included</u> in the Full Conference |
| Asia Pacific Country Non-Member | r Rate* | US\$ 260 | US\$ 315 | Registration Rate. |
| Asisa-Pacific Country Student No | n-Member Rate* | US\$ 115 | US\$ 145 | TOTAL REGISTRATION FEE |
| Spouse Rate | | US\$ 225 | US\$ 395 | US\$ |
| TRADE SHOW PASS – Good for 3 da | ays admission to exhibits only – July 3, 4, | | ow pass is included with the Fu OTAL TRADE SHOW PASS | II Conference Registration) JS\$ |
| INDUSTRY TOURS – Information to c | ome | | | US\$ |
| MEMBERSHIP DUES – Enter amoun | t from Membership Application on other si | de if applicable. | | US\$ |
| Do not mail registration after M After May 15, bring this form w | lay 15, 2024 or fax after May 15. ith you to register at the show. | - | • | US\$ |
| REGISTRATION CON | FIRMATION AND RE | CEIPT WILL BE | EMAILED AFTER | PROCESSING. |
| PAYMENT METHOD: All fees must | t be paid to the order of ASIAN-PACIFIC | AQUACULTURE 2024 with | out charges for the beneficiary | |
| Check # | . Visa Masterc | | xpress Discover | Diners Club |
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| | Date | | | |
| | | | | |
| Credit Card Billing Address | | | | |
| For bank transfer details, contact us. Return address for payments in USD: WAS Conference Office - ASIAN-PACIFIC AQUACULTURE 2024 P.O. Box 2302 • Valley Center, CA 92082 USA Tel: +1 760 751 5005 Fax: +1 760 751 5003 Email: worldaqua@was.org | | | | |

REGISTRATION FORM

TIME!

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.

MEMBERSHIPS: □ WAS □ USAS □ APC □ Korean □ LACC

AFFILIATE MEMBERSHIPS:

African Chapter WAS

🗅 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 Fisheris and Sciences (KOSFAS)
- Malaysian Fisheries Society
- Sociedad Brasileira de Aculicultura
- Society of Aquaculture Professionals (India)
- South African Aquaculture Society
- Spanish Aquaculture Association (SEA)

MEMBERSHIP APPLICATIONS DINEW 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 MEMBERSHIP CATEGORY: (Indicate only one) **CHAPTER OPTIONS:** Individual (USD 90/yr) Applies to an individual only One chapter incuded in membership. Mark the chapter you choose. **Full Student** (USD 45/yr) Has all benefits and rights of regular membership including voting for all African Chapter candidates on the ballot (Copy of Student ID or Signature of Professor required) Asian Pacific Comp Student (No charge) Has all benefits of regular membership but voting only allowed is for the Career Corect Student Director and not for the full ballot. (Copy of Student ID or Signature of Professor required) Latin American/Carribean United States (USAS) Sustaining (USD 155/yr) Applies to any <u>one</u> individual from a company □ None (deduct USD 5) Corporate (USD 295/yr) Allows all employees of one company to attend meeting at Member Rate You can add extra Chapters for USD 5 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.

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

Some very special tours will be set up by the Indonesian Associations. Details to be provided later – check our website for updates.



FOR MORE INFORMATION:

ASIAN-PACIFIC AQUACULTURE 2024 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

TENTATIVE SCHEDULE

TUESDAY, JULY 2

| Registration Open | Noon - | 6:30 pm |
|-------------------|---------|-----------|
| Exhibitor Move-in | Noon - | 6:00 pm |
| Poster Set-up | 1:00 pm | - 5:30 pm |

WEDNESDAY, JULY 3

| Registration Open | 7:30 am - 5:00 pm |
|-----------------------------|---------------------|
| Plenary Session | 9:00 am - 10:00 am |
| Opening Ceremony | 10:00 am - 10:40 am |
| Exhibitor Move-in | 8:00 am - 10:00 am |
| Poster Set-up | 8:00 am - 10:00 am |
| Exhibition Official Opening | 10:40 am |
| Refreshment Break | 10:40 am - 11:20 am |
| Trade Show & Posters Open | 10:00 am - 6:30 pm |
| Sessions | 11:20 am - 12:40 pm |
| Lunch (On your own) | 12:40 pm - 1:50 pm |
| Sessions | 1:50 pm - 3:30 pm |
| Refreshment Break | 3:30 pm - 4:00 pm |
| Sessions | 4:00 pm - 5:20 pm |
| Happy Hour & Poster Session | 5:20 pm - 6:30 pm |

Thursday, July 4

| Registration Open | 7:30 am - 5:00 pm |
|-----------------------------|---------------------|
| Sessions | 9:00 am - 10:40 am |
| Poster Set-up | 8:00 am - 10:00 am |
| Refreshment Break | 10:20 am - 11:00 am |
| Trade Show & Posters Open | 10:00 am - 6:30 pm |
| Sessions | 11:00 am - 12:20 pm |
| Lunch (On your own) | 12:20 pm - 1:50 pm |
| Sessions | 1:50 pm - 3:30 pm |
| Refreshment Break | 3:30 pm - 4:00 pm |
| Sessions | 4:00 pm - 5:20 pm |
| Happy Hour & Poster Session | 5:20 pm - 6:30 pm |
| WAS-APC Members meeting | 5:30 pm - 6:30 pm |
| Presidents Reception | 7:00 pm - 9:30 pm |

FRIDAY, JULY 5

| Registration Open | 7:30 am - 5:00 pm |
|---|---------------------|
| Sessions | 9:00 am - 10:20 am |
| Refreshment Break | 10:20 am - 11:00 am |
| Trade Show & Posters Open | 10:00 am - 5:30 pm |
| Sessions | 11:00 am - 12:20 pm |
| Lunch (On your own) | 12:20 pm - 1:50 pm |
| Sessions | 1:50 pm - 3:30 pm |
| Refreshment Break | 3:30 pm - 4:00 pm |
| Sessions | 4:00 pm - 5:20 pm |
| Poster out take down | 4:00 pm - 6:30 pm |
| Exhibitor Move out | 5:40 pm - 10:00 pm |
| supervised in the second | |

YOUR FULL CONFERENCE REGISTRATION INCLUDES:

- Admission to all sessions, seminars and the trade show.
- * Admission to the Reception.
- 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.

REGISTER EARLY AND \$AVE!

Brochure photos courtesy of DGA