

Asian-Pacific Aquaculture 2021

Bridging Technology Innovation to Elevate the Sustainable Aquaculture Industry

8-11 June 2021 Grand City Surabaya, Indonesia

This event includes:

- Asia Pacific Aquaculture 2021
 - IndoAqua 2021
 - FITA 2021
 - CAI-MAI 2021
 - SCI 2021
 - DigiFish 2021



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













ASIAN PACIFIC AQUACULTURE 2021

THE SECOND MAJOR INTERNATIONAL AQUACULTURE CONFERENCE IN INDONESIA

After the first Asian meeting in 2016 in Indonesia, Asian Pacific Aquaculture 2021 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 over 50% per year increase in tons produced 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 2021 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 sights in Indonesia.

SPECIAL PRODUCER PROGRAM

Asian Pacific Aquaculture 2021 will have several special Industry sessions with the latest in practical knowledge for the Indonesian aquaculture producers IndoAqua, Fita.

TECHNICAL PROGRAM COVERS THE LATEST RESEARCH

Sessions and workshops at Asian Pacific Aquaculture 2021 will cover all aspects of aquaculture in Indonesia as well as Southeast Asia.



PROGRAM TOPICS

Algal Aquaculture and Biology Amphibian and Reptile Aquaculture Animal Health &Welfare

Aquaponics and Integrated Aquaculture-Agriculture

Systems

Arid land Aquaculture Barramundi, Seabass &

Seabream Bio-floc Systems

Biosecurity Biotechnology

Breeding & Genetics

Cage-culture

Catfish Cobia

Coldwater Species - General Crabs & Lobsters

Crayfish & Freshwater Prawn Development, Welfare and

Poverty Alleviation (AwF)

Diseases

Drugs and Chemotherapeutics Economics & Management Education, Extension,

Technology Transfer

Eels

Embryology

Emerging Issues

Emerging Species

Enhancement, Stocking &

Ranching

Environment, Biodiversity and

Climate Change

Farmers Day

Finfish Broodstock Maturation

Fish Biology and Physiology Fish Health

Fish Meal and Oil

Flatfish

Food Safety, Inspections and

Freshwater Aquaculture and Environmental Impact

Freshwater Species – cold &

warm

Genetics and Breeding of

Freshwater Fishes Grouper & Snapper

Hatchery & Larvae Management Immunology and Vaccines

Information Technology in Aquaculture

Innovation and High Techs Integrated Multi-trophic Aquaculture Investment in Aquaculture Indonesian Aquaculture Session Marine Shimp Marketing & Trade Milk Fish Mollusc Broodstock and

Hatchery Mollusc Cultivation Molluscan Genetics and

Molluscan Genetics and Genomes

Nutrition & Feed

Ocean Acidification

Octopus and Cuttlefish Offshore Aquaculture

Organic Aquaculture

Ornamentals

Other Marine Fish

Oyster

Pacific & Indigenous

Aquaculture

Pangasius, Clarias & Ictalurus Pearl and Queen Conch Culture

Physiology, Morphology & Histology

Plankton Culture

Policy & Regulations

Polyculture

Pond Culture

Prebiotics and Probiotics Processing Technology

Product Quality

Raceway Systems

Recirculating Systems

Reservoir based Aquaculture Salmonid & trout

Sea cucumbers and Urchins Seaweeds and Algae

Shellfish

Shrimp Farm Design and

Management

Shrimp Feeding and Nutrition Shrimp Genetics, Broodstock

and Hatchery Management Spatial Planning and Regulation

Standards & Certification Sustainable Development of

Aquaculture Tilapia (ISTA)

Tuna

Value Chain Development Wastage Utilisation

Water Quality and Usage Women in Aquaculture

Yellowtails, Amberjacks, etc Zebrafish

CALL FOR PAPERS - DEADLINE: January 31, 2021

ASIAN-PACIFIC AQUACULTURE 2021 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 2021:

- 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 2021 cannot subsidize registration fees, travel or hotel costs.

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

INSTRUCTIONS FOR PREPARATION OF ABSTRACTS

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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 author's institution, address and email. Type in upper/lower case.
- 4. MAXIMUM LENGTH: One Page
- 5. PAGE SIZE: Standard A4 paper (210mm x 297mm = 8.27" x 11.69")(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. 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.

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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

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

Red claw crayfish (Cherax quadricarinatus) are one of more than a hundred crayfish. However, because of its rapid growth rate, ease of spawning, wid nper and dissolved oxygen tolerance, and lack of a larval stage, red claw may be the best candidate to different turner. Whe United States. Red claw are only being investigated as an aquaculture species in this country of the United States and practical diet formulations, since many crit. As require lecithin and cholesterol to be added to their diet, these two nutrients are usual are very expensive. Since diet costs can be as much as the presence of the species. The present study was conducted to detect the nutrient requirements of the species. The present study was conducted to detect to a practical diet for red claw crayfish.

An 8-week feeding trial was conducted in a recircular rch div system with newly-hatched juvenile (r wan. weight of 0.2 g) red claw, each stocked plastic mesh culture units. Individu units wen an in within fiberglass tanks, each of water line. Water was recircula and mechanical filters. Water tempe at 27-29°C and light as proviological as aintained d by overhead fluorescent ceiling chts cycle. Ammonia, n alkalinity, chlorid our light:dark cycle. Ammonia, n alkalinity, chlorides, and pH w xygen, temperature neasured three times dy was to examine the per week. The goal of dy 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.

TABLE 1. Formulation of experimental diets fed to red claw crayfish.

TABLE 2. Final weight, percentage weight gain, specific growth rate (SGR), and percentage survival of red claw crayfish fed four practical diets. Means in a column with different letters were significantly different (P < 0.05)

Diet

| 1 2 3 4 | Final weight (g) 6.97a 6.00a 3.64b 5.11a | Weight gain (%) 3384a 2897a 1717b 24544 | SGR (%/day) 5.74a 5.66a 4.68b 5.41a | Survival (%) 76.0 64.0 56.0 80.0

2.5 cm margin

21 cm wide

PLEASE SUBMIT YOUR ABSTRACT ONLINE

cm margin



REGISTRATION FORM

ASIAN-PACIFIC AQUACULTURE 2021



SAVETIME - REGISTER ONLINE

JUNE 9-11, 2021

SAVETIME - REGISTER ONLINE

- · Register Online
- Please return both sides of this form with payment to one of the addresses above (depending on the currency used).
- Registration can be faxed (Fax: +1-760-751-5003) if paying by credit card. (Fax both sides).
- Use one form per person. Please copy this form for additional people.
 Cancelled registrations will receive a refund minus 20% handling. Cancellations must be in writing and be received by April 10, 2021 Refunds will be issued after the conference.

PLEA	ASE PRINT CLEARLY OR T	YPE ALL REQUESTED I	NFORMATION			
NAME BADGE INFORMATION: (As you wan	it your name badge to read	d – No titles, please)				
First Name	SUI	RNAME (FAMILY NAME))			
Company or Institution						
(Limited to 40 Letter	ers & Spaces)					
City	State	/Prov	Country			
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(Include country and city code)		country and city code)				
TYPE OF REGISTRATION FULL CONFERENCE & TRADE SHOW In order to receive the Pre-Registration discount rate, the	Register by May 1, 2021	Register after May 1, 2021		Rate y	lify for Me	
WAS/CHAPTER MEMBER RATE*	US\$ 325	US\$ 490			sociation erships se	ection
WAS/CHAPTER STUDENT MEMBER RATE* Include copy of Student I.D.	US\$ 165	US\$ 195		on the	reverse s	ide.
Non-Member Rate Student Non-Member Rate Include copy of Student I.D.	US\$ 425 US\$ 215	US\$ 590 US\$ 255		in the I	Show is <u>ir</u> Full Confe ration Rat	rence
You can join WAS on the reverse side and use the Member Rate.				_	EGISTRAT	
Spouse Rate – must accompany a full registration	US\$ 255	US\$ 395				
Name				US\$		
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Do not mail registration after March 10, After May 10, bring this form with you t	•). →	TOTAL AMOUNT U	S\$		
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For bank transfer details, contact us.

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 □ Korear	n 🗆 LACC		
AFFILIATE MEMBERSHIPS:			ociety sty s and Sciences (KOSFAS) ty uicultura ofessionals (India) e Society	
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For membership in other associations, please contact them directly.

ou need a phone number, contact the Conference Manager (+1-760-751-5005).

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.



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 2021

Conference Manager P.O. Box 2302

Valley Center, CA 92082 USA

Questions:?

Tel: +1-760-751-5005

Fax: +1-760-751-5003

TENTATIVE SCHEDULE

Tuesday, June 8

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

WEDNESDAY, JUNE 9

WEDNESDAI, JUNE 9				
Registration Open	7:30 am - 5:00 pm			
Plenary Session	8:30 am - 9:30 am			
Opening ceremony	9:30 am - 10:00 am			
Exhibition opening	10:00 am - 10:10 am			
Exhibitor Move-in	8:00 am - 10:00 am			
Poster Set-up	8:00 am - 10:00 am			
Refreshment Break	10:00 am - 10:40 am			
Trade Show & Posters Open	10:00 am - 6:30 pm			
Sessions	10:40 am - 12:20 pm			
Lunch (coupon conv hall)	12:20 pm - 1:50 pm			
Sessions	1:50 pm - 3:30 pm			
Refreshment Break Sessions	3:30 pm - 4:00 pm			
Happy Hour & Poster Session	4:00 pm - 5:20 pm			
WAS-APC AGM	5:30 pm - 6:30 pm			
Student Forum	7:30 am - 9:00 pm			

Thursday, June 10

Registration Open	7:30 am - 5:00 pm
Sessions	8:30 am - 10:10 am
Refreshment Break	10:10 am - 10:40 am
Trade Show & Posters Open Sessions.	10:00 am - 5:30 pm
Sessions	10:40 am - 12:20 pm
Lunch (On your own)	12:20 am - 1:50 pm
Sessions	1:50 pm - 3:30 pm
Refreshment Break Sessions	3:30 pm - 4:00 pm
WAS-APC Members meeting	4:00 pm - 5:20 pm
President Reception	7:30 pm - 9:30pm

FRIDAY, JUNE 11

Registration Open	7:30 am –	5:00 pm
Sessions	8:30 am – 1	1:00 am
Refreshment Break	10:10 am – 1	10:40 am
Trade Show & Posters Open	10:00 am -	4:00 pm
Lunch (On your own)	12:00 pm -	1:00 am
Sessions	1:00 pm -	3:30 pm
Refreshment Break Sessions	3:30 pm -	4:00 pm
Sessions	4:00 pm -	5:20 pm

YOUR FULL CONFERENCE REGISTRATION INCLUDES:

- Only pre-registered attendees are guaranteed materials
- Admission to all sessions, seminars and the trade show

- Admission to the Reception
- Conference bag
- * 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

REGISTER EARLY AND \$AVE!