



ASIAN-PACIFIC AQUACULTURE 2019

Aquaculture for Health, Wealth and Happiness

19-21 JUNE, 2019

Chennai Trade Centre
Tamil Nadu, India

This event includes:

Asian Pacific Aquaculture 2019
ISTA 2019



Hosted by: **Tamil Nadu Fisheries University**
Organized by: **World Aquaculture Society**

In association with
ICAR–Central Institutes, SAU's & SAP



**WORLD
AQUACULTURE
Society**



For more information contact:
Conference Manager

P.O.Box No 2302 | Valley center, CA 92082 USA
TEL : +1 760 751 5005 | FAX: +1 760 751 5003
Email: worldaqua@was.org | www.was.org

ASIAN PACIFIC AQUACULTURE 2019

Thanks to the involvement of many associated Institutes, APA19 conference will show and discuss all aspects of Aquaculture (see topics right). This will result in a high quality conference. Associated institutes:

ICAR -Indian Council of Agricultural Research
CIFE-Central Institute of Fisheries Education
CIBA-Central Institute of Brackishwater Aquaculture
CIFA-Central Institute of Freshwater Aquaculture
CIFT-Central Institute of Fisheries Technology
CMFRI-Central Marine Fisheries Research Institute
DCFR-Directorate of Cold water Fisheries Research
NBFGRI-National Bureau of Fish Genetic Resources
NFDB-National Fisheries Development Board
MPEDA-Marine Product Export Development Authority
NABARD-National Bank for Agriculture and Rural Development
NFDB-National Fisheries Development Board
SAP-Society of Aquaculture Professionals
KUFOS-Kerala University of Fisheries and Ocean Studies
CoF,Mangalore-College of Fisheries,Mangalore
CoF,Tripura-College of Fisheries,Lembucherra,Tripura
CoF,Nellore-College of Fisheries,Nellore,Andhrapradesh

TECHNICAL PROGRAM COVERS THE LATEST RESEARCH

Sessions and workshops at Asian-Pacific Aquaculture 2019 will cover all aspects of aquaculture in India as well as Southeast Asia. Sample topics will include:

TENTATIVE SESSIONS

Algal Aquaculture and Biology	Marine Shrimp
Amphibian and Reptile	Marketing & Trade
Aquaculture	Milk Fish
Animal Health & Welfare	Mollusc Broodstock and Hatchery
Aquaponics and Integrated Systems	Mollusc Cultivation
Arid land Aquaculture	Molluscan Genetics and Genomes
Barramundi, Seabass & Seabream	Nutrition & Feed
Bio-floc Systems	Ocean Acidification
Biosecurity	Octopus and Cuttlefish
Biotechnology	Offshore Aquaculture
Breeding & Genetics	Organic Aquaculture
Cage-culture	Ornamentals
Catfish	Other Marine Fish
Cobia	Oyster
Coldwater Species - General	Pacific & Indigenous
Crabs & Lobsters	Aquaculture
Crayfish & Freshwater Prawn	Pangasius, Clarias & Ictalurus
Diseases	Pearl and Queen Conch Culture
Drugs and Chemotherapeutics	Physiology, Morphology & Histology
Economics & Management	Plankton Culture
Education, Extension, Technology Transfer	Policy & Regulations
Eels	Polyculture
Embryology	Pond Culture
Emerging Issues	Prebiotics and Probiotics
Emerging Species	Processing Technology
Enhancement, Stocking & Ranching	Product Quality
Environment, Biodiversity and Climate Change	Raceway Systems
Farmers Day	Recirculating Systems
Finfish Broodstock Maturation	Reservoir based Aquaculture
Fish Biology and Physiology	Salmonid & trout
Fish Health	Sea cucumbers and Urchins
Fish Meal and Oil	Seaweeds and Algae
Flatfish	Shellfish
Food Safety, Inspections and Audits	Shrimp Farm Design and Management
Freshwater Aquaculture and Environmental Impact	Shrimp Feeding and Nutrition
Freshwater Species – cold & warm	Shrimp Genetics, Broodstock and Hatchery Management
Genetics and Breeding of Freshwater Fishes	Spatial Planning and Regulation
Grouper & Snapper	Standards & Certification
Hatchery & Larvae Management	Sustainable Development of Aquaculture
Immunology and Vaccines	Tilapia (ISTA)
Information Technology in Aquaculture	Tuna
Innovation and High Techs	Value Chain Development
Integrated Multi-trophic Aquaculture	Wastage Utilisation
Investment in Aquaculture	Water Quality and Usage
Indian Aquaculture Session	Women in Aquaculture
	Yellowtails, Amberjacks, etc
	Zebrafish



Stay in touch with the program developments for
ASIAN-PACIFIC AQUACULTURE 2019
through our Web Page at: <http://www.was.org>

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 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.

REGISTER EARLY AND \$SAVE!

CALL FOR PAPERS

DEADLINE: January 31, 2019

ASIAN-PACIFIC AQUACULTURE 2019 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. 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 2019 cannot subsidize registration fees, travel or hotel costs.

We will have the ABSTRACT APP and the abstracts 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.
- 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.
- MAXIMUM LENGTH:** One Page
- PAGE SIZE:** Standard A4 paper (210mm x 297mm = 8.27" x 11.69") (portrait)
- MARGINS:** 1-inch margin throughout (left/right/top/bottom)
- SPACING:** Single spaced
- PARAGRAPHS:** Paragraphs should be separated by a blank line and should not be indented.
- FONT:** Character fonts should be 12 point type.
- 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 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@dcrc.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 temperature 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 this country. Very little information exists on their nutritional requirements and practical diet formulations. Since many crayfish 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 20% of the total expenses for an aquaculture enterprise, it is imperative that the least expensive diet be determined. 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 water system with newly-hatched juvenile (*Cherax quadricarinatus*) red claw, each stocked at a weight of 0.2 g in plastic mesh culture units. Individual units were placed in an individual water line. Water was recirculated through biological and mechanical filters. Water temperature was maintained at 27-29°C and light was provided by overhead fluorescent ceiling lights on a 12-hour light:dark cycle. Ammonia, nitrite, nitrate, oxygen, temperature, alkalinity, chlorides, and pH 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.

2.5 cm margin

29.7 cm long

2.5 cm margin

21 cm wide

PLEASE SUBMIT YOUR ABSTRACT ONLINE

www.was.org

For Indian Nationals Only



ASIAN-PACIFIC AQUACULTURE 2019

June 19-21, 2019

Register online at: www.was.org

Return address for payments in USD:
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

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 _____
(*please* include email address)

Postal 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:

- The below registration fees are for Indian Nationals only. Please bring identification when picking up the badges onsite.
- In order to receive the discount rates as mention below, you need to register online on the www.was.org website. Click the APA19 logo and go to ONLINE registration. Fill in your details. You can pay by Credit card or later.
- This registration includes a one year membership (no hard copies). Please make sure you enter the correct email address.
- See brochure for what is included in the 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 June 1, 2019	Register after June 1, 2019	Trade Show is <u>included</u> in the Full Conference Registration Rate.
FULL CONFERENCE <i>Early reduced fee deadline June 1st</i>	☐ 12000 Rs (200 USD)	☐ 18000 Rs (300 USD)	TOTAL REGISTRATION FEE US\$ _____
FULL CONFERENCE STUDENT	☐ 6000 Rs (100 USD)	☐ 9000 Rs (150 USD)	
TRADE SHOW PASS – Good for 3 days admission to exhibits only – June 19, 20, 21 (Trade show pass is included with the Full Conference Registration) ☐ US\$ 30 TOTAL TRADE SHOW PASS US\$ _____			
FARM TOURS – June 18 – Tour 1 ☐ June 22 – Tour 2 ☐ US\$ 100 TOTAL FARM TOUR US\$ _____			
TOURIST EXCURSIONS – info soon on www.was.org			
MEMBERSHIP DUES – Enter amount from Membership Application on other side if applicable. TOTAL MEMBERSHIP DUES US\$ _____			
Do not mail registration after March 30, 2019 or fax after April 10, 2019. After April 10, 2019, 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 15, 2019. 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 15, 2019 or for "no shows". After March 15, 2019, 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 Asian-Pacific Aquaculture 2019 without charges for the beneficiary.

☐ Cheque No. _____
☐ Visa ☐ Mastercard ☐ Access ☐ Diners ☐ American Express
 Card # _____ Expiration Date _____ Name on Card _____
 For bank transfer details, contact us. Date _____ Signature _____

Return address for payments in USD:

WAS Conference Office - ASIAN-PACIFIC AQUACULTURE 2019

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 - 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

AFFILIATE MEMBERSHIPS:

- | | |
|--|--|
| ☐ AQUABIO | ☐ Indonesian Aquaculture Society |
| ☐ Aquaculture Association of Canada | ☐ Korean Aquaculture Society |
| ☐ Aquaculture Association of South Africa | ☐ Korean Society of Fisheries and Sciences (KOSFAS) |
| ☐ Aquaculture Without Frontiers | ☐ Malaysian Fisheries Society |
| ☐ Asian Fisheries Society | ☐ Sociedad Brasileira de Acuicultura |
| ☐ China Society of Fisheries | ☐ Society of Aquaculture Professionals (India) |
| ☐ Egyptian Aquaculture Society | ☐ South African Aquaculture Society |
| ☐ European Aquaculture Society | ☐ Spanish Aquaculture Association (SEA) |
| ☐ Global Aquaculture Alliance | |
| ☐ IAFI The International Association of Seafood Professionals | |

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** (Printed JWAS) (USD 110/yr) Applies to an individual only
- ☐ **Student** (Electronic JWAS) (USD 45/yr) (Copy of Student ID or Signature of Professor required)
- ☐ **Student** (Printed JWAS) (USD 90/yr) (Copy of Student ID or Signature of Professor required)
- ☐ **Sustaining** (Electronic JWAS) (USD 105/yr) Applies to any one individual from a company
- ☐ **Sustaining** (Printed JWAS) (USD 150/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
- ☐ **Corporate** (Printed JWAS) (USD 300/yr) Allows all employees of one company to attend meeting at Member Rate
- ☐ **Lifetime** (Electronic JWAS only) (USD 1005/yr) Applies to an individual only

CHAPTER OPTIONS:

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

- ☐ **Asian Pacific**
- ☐ **Korea**
- ☐ **Latin American/Caribbean**
- ☐ **United States (USAS)**
- ☐ **None** (deduct USD 5)

You can add extra Chapters for USD 5

Total Amount for WAS Membership USD _____

Fees for memberships are non-refundable.

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

A number of tours will be organized. The details will be on the WAS website as they become ready.

HOTEL

For hotel information see www.was.org

TOURIST EXCURSIONS

There are many wonderful places to visit in India and things to do. The details and reservation contact information will be available soon on the WAS website.



FOR MORE INFORMATION:

Asian-Pacific Aquaculture 2019

Conference Manager

P.O. Box 2302

Valley Center, CA 92082 USA

Questions:?

Tel: +1-760-751-5005

Email: worldaqua@was.org

For Trade Show and Sponsorship Information contact:

mario@marevent.com

TENTATIVE SCHEDULE

TUESDAY, JUNE 18

Bag Stuffing	7:00 am - 11:00 am
Registration Open	Noon - 6:30 pm
Exhibitor Move-in	Noon - 6:00 pm
Poster Set-up	1:00 pm - 5:30 pm

WEDNESDAY, JUNE 19

Registration Open	7:30 am - 5:00 pm
Plenary Session	9:00 am - 10:00 am
Opening ceremony	10:00 am - 10:30 am
Opening exhibition.....	10:30 am
Exhibitor Move-in.....	8:00 am - 10:00 am
Poster Set-up	8:00 am - 10:00 am
Refreshment Break.....	10:30 am - 11:00 am
Trade Show & Posters Open.....	10:00 am - 6:30 pm
Sessions	11:00 am - 12:40 pm
Lunch	12:40 pm - 1:40 pm
Sessions	1:40 pm - 3:40 pm
Refreshment Break.....	3:40 pm - 4:00 pm
Sessions	4:00 pm - 5:40 pm
Happy Hour & Poster Session	5:40 pm - 6:30 pm
Student Forum.....	5:40 pm - 7:00 pm

THURSDAY, JUNE 20

Registration Open	7:30 am - 5:00 pm
Sessions	9:00 am - 10:40 am
Refreshment Break.....	10:40 am - 11:00 am
Trade Show & Posters Open.....	10:00 am - 6:30 pm
Sessions	11:00 am - 12:40 pm
Lunch	12:40 pm - 1:40 pm
Sessions	1:40 pm - 3:40 pm
Refreshment Break.....	3:40 pm - 4:00 pm
Sessions	4:00 pm - 5:40 pm
WAS-APC Members meeting	5:40 pm - 6:40 pm

FRIDAY, JUNE 21

Registration Open	7:30 am - 5:00 pm
Sessions	9:00 am - 10:40 am
Refreshment Break.....	10:40 am - 11:00 am
Trade Show & Posters Open.....	10:00 am - 4:00 pm
Sessions	11:00 am - 12:40 pm
Lunch	12:40 pm - 1:40 pm
Sessions	1:40 pm - 3:40 pm
Refreshment Break.....	3:40 pm - 4:00 pm
Sessions	4:00 pm - 5:20 pm



APA'19

EXHIBIT INVITE

ASIAN PACIFIC AQUACULTURE 2019

Chennai - Tamil Nadu - India

June 19 -21, 2019

Chennai Trade Centre

June 18 Tuesday
Move in 12.00 -18.00
June 19 Wednesday
Move in 8.00 -10.00 Trade show open 10.00 - 18.30
Happy hour 17:40 - 18:30
June 20 Thursday
Trade show open 10.00 -18.30
President Reception 19:00 - 21:00
June 21 Friday
Trade show open 10.00 -16:00



JUNE 19 - 21

- standard booth (2x3m): \$2300
- corner booth (2x3): \$2500
- All booths with hard walls, electricity, carpet, two chairs & one table, spotlights, fascia identification sign, two free passes for the APA19 conference

HOW TO RESERVE A STAND

- Complete the information and email it to one of the offices below.
- Complete the contract on www.was.org.



Company Name:	
Country:	
Booths: (number)	
We request a corner:	☐ Yes ☐ No
Contact Person:..	
Contact Email:..	
Contact Tel:	
Contact Fax:	

For more info on the CONFERENCE: www.was.org
For more info on the TRADESHOW: mario@marevent.com

FLOORPLAN APA 2019

