

ASIAN PACIFIC AQUACULTURE
2011

the future is here



ASIAN PACIFIC AQUACULTURE 2011

aquaculture – the future is here

January 17-20, 2011

Le Méridien Resort and Convention Center

Kochi, India

Held in conjunction with Giant Prawn 2011

Hosted by: College of Fisheries, Kochi (Kerala Agricultural University)

and

Dept. of Fisheries (Govt. of Kerala, India)



Sponsored By



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**WORLD
AQUACULTURE
Society**

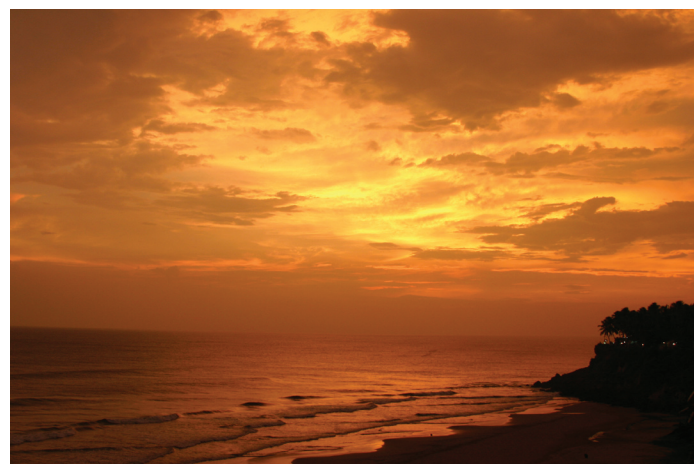
ASIAN PACIFIC AQUACULTURE 2011

Asian-Pacific Aquaculture 2011 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 India.

TECHNICAL PROGRAM COVERS THE LATEST RESEARCH

Sessions and workshops at Asian-Pacific Aquaculture 2011 will cover all aspects of aquaculture in India as well as Southeast Asia. Sample topics will include:

Giant Prawn 2011, a landmark technical meeting on the culture of freshwater prawns, will be held as a component session of APA 2011. The predecessor of this event, Giant Prawn 1980, was a pioneer conference held in Bangkok. **Giant Prawn 2011** will consist of a three-day session on the farming of several species of freshwater prawns. Invited speakers will present up-to-date information on biology, genetics, hatchery and grow-out technology, health management, processing and marketing. There will also be a one day session for contributed papers. The global production of freshwater prawns has expanded from a mere 1,300 t/yr in 1980 to an important component of aquaculture, producing more than 450,000 t/yr, with a farm-gate value exceeding US\$ 1.8 billion/yr. **Giant Prawn 2011** provides an unique opportunity for all those involved in freshwater prawn farming and research to share knowledge and meet new contacts.



TENTATIVE SESSIONS

Marine Shrimp

- Production
- Nutrition
- Diseases
- Genetics

Tilapia

- Production
- Nutrition
- Health

Carp

- Production
- Nutrition
- Health

Genetics in Aquaculture

- Population Genetics
- Selective Breeding
- Genetically Modified Organisms

Shellfish Culture

- Crabs & Lobsters
- Molluscs
- Production Systems

Aquafeeds / Nutrition

- Nutrient Requirements
- Alternative Feed Ingredients
- Feeding Strategies

Animal Health

- Pathogenomics
- Nutritional Diseases
- Emerging Diseases

Plenary Topics

- Ornamentals
- Reservoir-Based Aquaculture
- General Aquaculture
- Southeast Asian Domestic Markets
- Southeast Asian Aquaculture
- Biosecurity, Biosafety & Human Health
- Education and Training
- Aquaculture & Bioenergy
- Climate Change & Aquaculture
- Welfare & Poverty Alleviation

Marine Finfish

- Cobia
- Grouper
- Production
- Nutrition

Pangasius

- Production
- Nutrition
- Health

Freshwater Aquaculture

- Integrated Cultured Systems
- Production
- Nutrition

Seaweeds and Algae

- Integrated Cultured Systems
- Bioremediation
- New & Alternative Uses

Production Systems

- Aquaponics
- Organic Aquaculture
- Recirculating Systems

Economics, Marketing & Trade

- General Economics
- Consumer Behavior.
- Supply Chain & Trade

Aquaculture Biotechnology

- Bioremediation
- Vaccine Production
- Diagnostics

Stay in touch with the program developments for
ASIAN-PACIFIC AQUACULTURE 2011
through our Web Page at: <http://www.was.org>

CALL FOR PAPERS - DEADLINE: July 1, 2010

ASIAN-PACIFIC AQUACULTURE 2011 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 2011 cannot subsidize registration fees, travel or hotel costs.

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

INSTRUCTIONS FOR PREPARATION OF ABSTRACTS

Expanded Abstract Format - Please refer to the sample.

1. **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.
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 A4 paper (210mm x 297mm = 8.27" x 11.69")(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. **FONT:** 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 species of Australian freshwater crayfish. However, because of its rapid growth rate, ease of spawning, wide temperature and dissolved oxygen 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 and very little information exists on their nutritional requirements and practical diet formulations. Since 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 30% of the total operating expenses for an aquaculture enterprise, it is imperative that the least expensive diet formulation be determined 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 initial weight of 0.2 g) red claw, each stocked in individual plastic mesh culture units. Individual units were placed within fiberglass tanks, each connected to an individual water line. Water was recirculated through biological and mechanical filters. Water temperature was maintained at 27-29°C and lighting was provided by overhead fluorescent ceiling lights on a 14-hour light:dark cycle. Ammonia, nitrite, nitrate, dissolved oxygen, temperature, alkalinity, chlorides, and pH were measured three times per week. The goal of this 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

2.5 cm margin

21 cm wide

PLEASE SUBMIT YOUR ABSTRACT ONLINE



REGISTRATION FORM

Asian-Pacific Aquaculture 2011

January 17-20, 2011



SAVE TIME – REGISTER ONLINE

SAVE TIME – REGISTER ONLINE

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

NAME 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)

TYPE OF REGISTRATION	Register by Nov. 1, 2010	Register by Dec. 25, 2010	Register after Dec. 25, 2010	* To qualify for Member Rate you <u>must</u> complete the Association Memberships section on the reverse side. ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● Trade Show is <u>included</u> in the Full Conference Registration Rate.
FULL CONFERENCE & TRADE SHOW In order to receive the pre-Registration discount rate, this form and payment must be received by the date above.				
ASSOCIATION MEMBER RATE*	<input type="checkbox"/> US\$ 345	<input type="checkbox"/> US\$ 445	<input type="checkbox"/> US\$ 545	TOTAL REGISTRATION FEE US\$ _____
STUDENT MEMBER RATE* Include copy of Student I.D.	<input type="checkbox"/> US\$ 125	<input type="checkbox"/> US\$ 125	<input type="checkbox"/> US\$ 195	
Non-Member Rate	<input type="checkbox"/> US\$ 440	<input type="checkbox"/> US\$ 540	<input type="checkbox"/> US\$ 640	
Student Non-Member Rate Include copy of Student I.D. You can join WAS on the reverse side and use the Member Rate.	<input type="checkbox"/> US\$ 195	<input type="checkbox"/> US\$ 195	<input type="checkbox"/> US\$ 245	
<input type="checkbox"/> Spouse Rate Name _____	<input type="checkbox"/> US\$ 225	<input type="checkbox"/> US\$ 295	<input type="checkbox"/> US\$ 325	
TRADE SHOW PASS – Good for 3 days admission to exhibits only – Jan. 18, 19, 20 (Trade show pass is included with the Full Conference Registration) <input type="checkbox"/> US\$ 30 TOTAL TRADE SHOW PASS US\$ _____				
MEMBERSHIP DUES – Enter amount from Membership Application on other side if applicable. TOTAL MEMBERSHIP DUES US\$ _____				
Do not mail registration after December 25 2010 or fax after January 15. After January 5, 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 December 27, 2010. 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 December 27, 2010 or for "no shows". After December 27, 2010, 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 2011 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 2011

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

Tel: +1 760 751 5005 Fax: +1 760 751 5003 Email: worldaqua@aol.com

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.

- | | |
|--|--|
| <input type="checkbox"/> AQUABIO | <input type="checkbox"/> Korean Aquaculture Society |
| <input type="checkbox"/> Aquaculture Association of Canada | <input type="checkbox"/> Korea Chapter, WAS |
| <input type="checkbox"/> Aquaculture Engineering Society | <input type="checkbox"/> Latin American and Caribbean Chapter, WAS |
| <input type="checkbox"/> Aquaculture Without Frontiers | <input type="checkbox"/> Malaysian Fisheries Society |
| <input type="checkbox"/> Asian Fisheries Society | <input type="checkbox"/> National Aquaculture Council of Australia |
| <input type="checkbox"/> Asian-Pacific Chapter WAS | <input type="checkbox"/> Sociedad Brasileira de Acuicultura |
| <input type="checkbox"/> China Society of Fisheries | <input type="checkbox"/> Society of Aquaculture Professionals |
| <input type="checkbox"/> Egyptian Aquaculture Society | <input type="checkbox"/> Spanish Aquaculture Association |
| <input type="checkbox"/> European Aquaculture Society | <input type="checkbox"/> Sociedad Brasileira de Acuicultura |
| <input type="checkbox"/> Global Aquaculture Alliance | <input type="checkbox"/> USAS, WAS |
| <input type="checkbox"/> Indonesian Aquaculture Society | <input type="checkbox"/> World Aquaculture Society (WAS) |
| <input type="checkbox"/> International Association of Aquaculture Economics and Management | |

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 85/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 65/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 125/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 275/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
- E membership** (USD 10/yr) Full access to the WAS website and Member's Area.
Chapter membership not included. No member discount on conferences.
Printed publications not included. Cannot have been a regular member in the last five years.

CHAPTER OPTIONS:

(Must have active membership in one of the categories at left)
Please mark the Chapter you choose that is included in your dues above. You can join more chapters by adding USD 5 per extra chapter.
If you mark none, you can deduct USD 5.

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

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

The Indian Sponsors will organize a number of tours throughout India. The details will be on the WAS website as they become ready.

HOTEL

A complete list of hotels and reservation information will be posted on the website.

TRAVEL

For the best airfares, contact:
Flight Coordinators for details at:
Tel: 1-800-544-3644 or +1-310-581-5600
Fax: +1-310-581-5620
Email: globaltc@gte.net

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 2011
Conference Manager
P.O. Box 2302
Valley Center, CA 92082 USA

Questions:?
Tel: +1-760-751-5005
Fax: +1-760-751-5003

TENTATIVE SCHEDULE

Monday, January 17

Exhibitor Move-in.....	0800-1700
Registration Open.....	1100-1600
Poster Set-up.....	1300-1700
Opening Ceremony.....	1600-1800
Exhibition Opening.....	1800-1830
Welcome Cocktail.....	1830-2030

Tuesday, January 18

Registration Open.....	0730-1600
Plenary Session (Common Meeting).....	0900-1100
Trade Show & Posters Open.....	1100 -1830
Refreshment Break.....	1100-1130
Sessions.....	1130-1250
Lunch (provided).....	1250-1400
Sessions.....	1400-1700
Happy Hour & Poster Session.....	1700-1830

Wednesday, January 19

Registration Open.....	0800-1600
Sessions.....	0900-1020
Trade Show & Posters Open.....	1000-1730
Refreshment Break.....	1020-1100
Sessions.....	1100-1300
Lunch (provided).....	1300-1400
Sessions.....	1400-1540
Refreshment Break.....	1540-1600
Sessions.....	1600-1720
Happy Hour & Poster Session.....	1720-1830
Presidents Reception.....	1830-2030

Thursday, January 20

Registration Open.....	0800-1600
Sessions.....	0900-1020
Trade Show & Posters Open.....	1000-1630
Refreshment Break.....	1020-1100
Sessions.....	1100-1300
Lunch (provided).....	1300-1400
Sessions.....	1400-1540
Refreshment Break.....	15:40-1600
Sessions.....	16:00-1720
Closing Session.....	1720-1820
Closing Happy Hour.....	1820-1930

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, Abstract CD 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 \$AVE!