



# ASIAN-PACIFIC AQUACULTURE 2017

*Transforming For Market Needs*

Putra World Trade Centre

July 24-27, 2017 • Kuala Lumpur, Malaysia

Hosted by: Department of Fisheries, Ministry of Agriculture & Agro-Based Industry, Malaysia





# ASIAN PACIFIC AQUACULTURE 2017

Asian-Pacific Aquaculture 2017 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 Malaysia.

## APA 2017 - VISIT THE MAJOR EXHIBITION

APA 2017 will have a large exhibition featuring international companies showcasing the latest in products, services and all aquaculture related information. Don't miss this opportunity to see the items that will enhance your aquaculture operation.

## SPECIAL PRODUCER SESSIONS

APA 2017 will have special sessions to address the everyday practical concerns and needs of aquaculture farmers. Specific information will be provided on current problems farmers are facing. Check online for more details.



## LATEST RESEARCH

Sessions and workshops at Asian-Pacific Aquaculture 2017 will cover all aspects of aquaculture in Malaysia as well as Southeast Asia. Sample topics will include:

### TENTATIVE SESSIONS

#### Marine Shrimp

Production  
Breeding and Genetics  
Nutrition  
Disease & Health Management

#### Tilapia

Production  
Nutrition  
Disease & Health Management

#### Freshwater Fish Culture

Catfish  
Cyprinids  
Integrated Culture Systems  
Reservoir-based Aquaculture

#### Marine Finfish

Culture Systems  
Nutrition  
Seed Supply

#### Production Systems

Recirculating Systems  
Processing (Value-added)  
Cost Efficiencies  
Technology and Equipment

#### Mollusc Culture

Hatchery  
Production  
Health

#### Risk Management

Macrobrachium  
Crabs and Lobsters  
General Aquaculture  
Seaweeds and Algae  
Ornamentals  
Aquatic Animal Health

#### Education and Training

Genetics in Aquaculture  
Aquafeeds  
Aquaponics  
Development & Planning  
Marketing and Trade  
Certification  
Supply Chain

#### Plenary Topics

1. Malaysian Aquaculture Trends and Prospects
2. Promoting Trade in Seafood – a Buyer's Expectation
3. Ensuring Fair Trade in Seafood – An Aquaculture Perspective

*Stay in touch with the program developments for*

# ASIAN-PACIFIC AQUACULTURE 2017

*through our Web Page at: <http://www.was.org>*



# CALL FOR PAPERS - DEADLINE: March 1, 2017

ASIAN-PACIFIC AQUACULTURE 2017 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 2017:

- 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 2017 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. **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

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Kentucky State University  
Frankfort, KY 40601  
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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 25% of the total expenses for an aquaculture enterprise, it is imperative that the least expensive diet formulation 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 (*Cherax quadricarinatus*) at weight of 0.2 g red claw, each stocked in individual plastic mesh culture units. Individually stocked units were placed within fiberglass tanks, each with 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.

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PLEASE SUBMIT YOUR ABSTRACT ONLINE

[www.was.org](http://www.was.org)



# ASIAN-PACIFIC AQUACULTURE 2017

July 24-27, 2017

Register online at: [www.was.org](http://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@aol.com](mailto:worldaqua@aol.com)

**Online registration is preferred at [www.was.org](http://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:** In order to receive the discount rates as listed below, this form and payment must be received by the date listed. See brochure for what is included in registration fees.

TYPE OF REGISTRATION	Register by May 15, 2017	Register by June 30, 2017	Register after June 30, 2017	
<b>FULL CONFERENCE &amp; TRADE SHOW</b> In order to receive the Pre-Registration discount rate, this form and payment must be received by the date above				
<b>WAS/CHAPTER MEMBER RATE*</b>	<input type="checkbox"/> US\$ 325	<input type="checkbox"/> US\$ 425	<input type="checkbox"/> US\$ 525	* 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.
<b>WAS/CHAPTER STUDENT MEMBER RATE*</b> Include copy of Student I.D.	<input type="checkbox"/> US\$ 165	<input type="checkbox"/> US\$ 165	<input type="checkbox"/> US\$ 210	
<b>AFFILIATE MEMBER RATE*</b>	<input type="checkbox"/> US\$ 395	<input type="checkbox"/> US\$ 495	<input type="checkbox"/> US\$ 595	
<b>AFFILIATE STUDENT MEMBER RATE*</b> Include copy of Student I.D.	<input type="checkbox"/> US\$ 215	<input type="checkbox"/> US\$ 215	<input type="checkbox"/> US\$ 260	
<b>Non-Member Rate</b>	<input type="checkbox"/> US\$ 430	<input type="checkbox"/> US\$ 530	<input type="checkbox"/> US\$ 630	<b>TOTAL REGISTRATION FEE</b>
<b>Student Non-Member Rate</b> 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\$ 235	<input type="checkbox"/> US\$ 235	<input type="checkbox"/> US\$ 280	
<input type="checkbox"/> <b>Spouse Rate</b> – must accompany a full registration Name _____	<input type="checkbox"/> US\$ 255	<input type="checkbox"/> US\$ 345	<input type="checkbox"/> US\$ 395	
				<b>US\$</b> _____

**TRADE SHOW PASS** – Good for 3 days admission to exhibits only – July 25, 26, 27 (Trade show pass is included with the Full Conference Registration)  
☐ US\$ 30 **TOTAL TRADE SHOW PASS** US\$ \_\_\_\_\_

**FARM TOURS** – info soon on [www.was.org](http://www.was.org)

**TOURIST EXCURSIONS** – info soon on [www.was.org](http://www.was.org)

**MEMBERSHIP DUES** – Enter amount from Membership Application on other side if applicable. **TOTAL MEMBERSHIP DUES** US\$ \_\_\_\_\_

**Do not mail registration after July 1, 2017 or fax after July 10, 2017.**  
**After July 10, 2017, 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 July 1, 2017. 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 July 1, 2017 or for "no shows". After July 1, 2017, 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 2017 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 2017

P.O. Box 2302 Valley Center, CA 92082 USA / Tel: +1 760 751 5005 Fax: +1 760 751 5003 Email: [worldaqua@aol.com](mailto: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.

**MEMBERSHIPS:**    ☐ WAS    ☐ USAS    ☐ APC    ☐ Korean    ☐ LACC

## AFFILIATE MEMBERSHIPS:

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

**MEMBERSHIP APPLICATIONS**    ☐ NEW APPLICATION    ☐ RENEWAL

## WORLD AQUACULTURE SOCIETY (WAS) APPLICATION

[www.was.org](http://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](mailto: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

### 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

*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

The Malaysian Fisheries Society will organize a number of tours throughout Malaysia. The details will be on the WAS website as they become ready.

## HOTEL

APA17 Official event hotel is Seri Pacific hotel just next to the PWTC.:

Reservation Tel: (60-3) 4042 5555

Fax: (60-3) 4043 8717

Email: [resv@seripacific.com](mailto:resv@seripacific.com)

[www.seripacifichotel.com](http://www.seripacifichotel.com)

## TOURIST EXCURSIONS

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



## TENTATIVE SCHEDULE

### MONDAY, JULY 24

Registration Open .....	Noon - 16:00
Exhibitor Move-in. ....	Noon - 16:00
Poster Set-up .....	13:00 - 16:00

### TUESDAY, JULY 25

Registration Open .....	7:30 - 17:00
Opening, Exhibits Ribbon Cutting.....	9:00 - 9:40
Plenary Session .....	9:40 - 10:40
Trade Show & Posters Open .....	10:00 - 18:30
Sessions.....	11:00 - 17:20
Lunch .....	12:30 - 13:50
Refreshments, & Poster Session .....	17:20 - 18:30
Student Forum.....	17:30 - 19:00

### WEDNESDAY, JULY 26

Registration Open .....	7:30 - 17:00
Sessions.....	8:30 - 17:20
Farmers Day .....	10:00 - 17:30
Trade Show & Posters Open .....	10:00 - 17:30
Lunch .....	12:20 - 13:50
Asian-Pacific Chapter. WAS Meeting....	17:30 - 18:30
Reception Dinner .....	19:00 - 21:00

### THURSDAY, JULY 27

Registration Open .....	7:30 - 16:00
Sessions.....	8:30 - 17:20
Trade Show & Posters Open .....	10:00 - 16:00
Lunch .....	12:20 - 13:50
Sessions.....	8:30 - 17:20
Trade Show & Posters Open.....	10:00 - 16:00
Lunch .....	12:20 - 13:50

## FOR MORE INFORMATION:

Asian-Pacific Aquaculture 2017

Conference Manager

P.O. Box 2302

Valley Center, CA 92082 USA

Questions:?

Tel: +1-760-751-5005

Fax: +1-760-751-5003

## 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!