

NOVEMBER 7 - 10, 2017
MAZATLAN - MEXICO

South American Regional Aquaculture 17
Latin American & Caribbean Aquaculture 17

LAQUA17

Consolidate the growth in Aquaculture

The annual
meeting of:

All info:
www.was.org



WORLD
AQUACULTURE
Society

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LACQUA17 will be the 2017 Annual meeting of the Latin American & Caribbean Chapter of WAS. Following upon the previous successful LACQUA meetings, LACQUA will bring international attention to the aquaculture industry of Mexico and South America. The WAS Regional Meeting, SOUTH AMERICAN REGIONAL AQUACULTURE 2017 will join with LACQUA17.

LACQUA17 will be held at the Mazatlan, International Center, Mazatlan, Mexico, Nov. 7 - 10, 2017. Mazatlan, a beautiful tourist location, is perfect located, close to the shrimp industry and easy to reach with many national and international flights.

BEYOND THE CONFERENCE

Abstracts can be submitted in Spanish, Portuguese and English. Submission open soon. The conference indeed includes three languages. Oral and poster presentation in Spanish, Portuguese and English are possible. The conference will include all major aquatic species cultured in Mexico and the other LACC countries with a special focus on Shrimp, Bagre, Tilapia, Shellfish.

INTERNATIONAL EXHIBITION

There will be an exhibition of aquaculture suppliers from around the world displaying the latest in equipment, supplies and services.

TRADE SHOW SCHEDULE

TUESDAY	WEDNESDAY	THURSDAY
NOV	NOV	NOV
8	9	10

Stay in touch with the program developments for

LACQUA17

**WAS South American Regional
Aquaculture 2017**

www.was.org

TECHNICAL PROGRAM COVERS THE LATEST RESEARCH

Sessions and workshops at LACQUA17 will cover all aspects of aquaculture in Mexico and South America, as well as the rest of the world. Sample topics will include:

Fish Culture

- Native fish
- Ornamental fish
- Marine fish
- Trouts and salmonids
- Tilapia

Crustaceans Culture

- Shrimp Culture

Other Species

- Seaweeds and algae
- Molluscs
- Echinoderms
- Plankton

Production Systems

- Biofloc Systems
- Recirculation systems - RAS

Sustainable Aquaculture

- Standards and Certification
- Aquaculture and the environment
- Mariculture and the environment
- Integrated Multi-trophic aquaculture
- Water Quality Management

Health and Diseases

- Immunology
- Toxicology
- Fish health
- Shrimp health
- Probiotics and Prebiotics

Physiology and Genetics

- Fish physiology
- Shrimp Genetics
- Salmon Genetics

Nutrition and Feeding

- Fishmeal and Fish Oil
- Alternative ingredients
- Shrimp Feed
- Climate Changes and Fisheries
- Finfish nutritional needs
- Larval feeding
- Feeding strategies - Automatisations

Processing and Economics

- Processing technologies
- Aquaculture socio-economics

Education and Aquaculture Careers

- Student exchanges

YOUR FULL CONFERENCE REGISTRATION INCLUDES

- ✱ Only pre-registered attendees are guaranteed materials
 - ✱ **Admission to all sessions, seminars and the trade show.**
 - ✱ Admission to the Receptions.
 - ✱ Conference bag and Show Directory
 - ✱ 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.

Farmer's Day and Industry Sessions

There will be a special Farmers Day with presentations on topics especially of interest to aquaculture farmers. There will also be Industry Sessions throughout the conference with speakers addressing industry concerns.

**REGISTER EARLY
AND \$AVE!**

FOR MORE INFORMATION:

LACQUA17
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
www.was.org

CALL FOR PAPERS- DEADLINE: September 1, 2017

LACQUA17 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. Abstracts may be submitted in English, Spanish or Portuguese. At the conference, the abstracts may be presented in English, Spanish or Portuguese.

Each oral presenter shall be entitled to no more than 20 minutes comprised of 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 can only use Power Point. Overhead projectors, slides and video players will not be available or allowed.

All presenters are required to pay their own registration, accommodation and travel expenses. LACQUA17 cannot subsidize registration fees, travel or hotel costs.

INSTRUCTIONS FOR PREPARATION OF ABSTRACTS

Extended 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. 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 210mm x 297mm A4 paper (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. FIGURES & TABLES :** Figures and tables are highly recommended. They should be reduced to the appropriate size for a one page abstract and should be clearly readable at the reduced size in black print only. The reduced figures and tables should be included in the abstract in camera-ready form.
- 11. MEASUREMENTS :** Use metric units of measurement. When needed, English equivalents may be given in parentheses.

1 inch margin

EVALUATION OF JUVENILE AUSTRALIAN RED CLAW CRAYFISH *Cherax quadricarinatus* FED PRACTICAL DIETS WITH AND WITHOUT SUPPLEMENTAL LECITHIN AND/OR CHOLESTEROL

Laura A. Marini*, Kenneth R. Thompson, Tracy Christian, Carl D. Webster, Lukes Masovickis, and David B. Rouse

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Red claw crayfish (*Cherax quadricarinatus*) are one of more than a hundred Australian freshwater crayfish. However, because of its rapid growth rate, ease of spawning, wide range of 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 light of the very little information exists on their nutritional requirements and practical diet formulations. Since crayfish are omnivorous, they require lecithin and cholesterol to be added to their diet, these two nutrients are expensive and lecithin and cholesterol are very expensive. Since diet costs can be as much as 70% of the total cost of production, it is imperative that the least expensive diet be formulated. The present study was conducted to determine if cholesterol and 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 (10.2 g) weight of 0.2 g red claw, each stocked in 16 mesh culture units, individual units within fibreglass tanks, each containing water line. Water was recirculated through a mechanical filter, water temperature was maintained at 27-29°C and lighting was provided on a 12-hour light/12-hour dark cycle. Ammonia, nitrite, nitrate, pH, water hardness, alkalinity, chlorides, and dissolved oxygen were tested three times per week. The goal of the study was to examine the effects of growth performance of 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 1) 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.

1 inch margin

210mm long

11 inches wide

1 inch margin

8.5 inches wide

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

	Diet	1	2	3	4
Menhaden FM	25.0	25.0	25.0	25.0	25.0
Soybean Meal	35.0	35.0	35.0	35.0	44.5
Lecithin	0.5	0.0	0.5	0.0	0.0
Cholesterol	1.0	1.0	0.0	0.0	0.0
Other	38.5	39.0	39.5	39.5	39.5

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	6.02a	3.69a	5.11a	
Weight gain (%)	335a	287a	177b	245a	
SGR (per day)	5.24a	5.65a	4.08b	2.41a	
Survival (%)	76.0	64.0	76.0	80.0	

PLEASE SUBMIT YOUR ABSTRACT ONLINE

Submit abstracts via the internet at the meeting website : www.was.org

Follow the complete instructions on the online submission.

If you are unable to submit your abstract online, contact the Conference Manager for alternative methods at : worldaqua@aol.com or Fax: +1-760-751-5003

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: 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 October 15, 2017	Register after October 15, 2017	
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\$ 275	<input type="checkbox"/> US\$ 375	<p>* To qualify for Member Rate you <u>must</u> complete the Association Memberships section on the reverse side.</p> <p>• • • • •</p> <p>Trade Show is <u>included</u> in the Full Conference Registration Rate.</p> <p>TOTAL REGISTRATION FEE</p> <p>US\$ _____</p>
STUDENT MEMBER RATE* Include copy of Student I.D.	<input type="checkbox"/> US\$ 95	<input type="checkbox"/> US\$ 135	
Non-Member Rate	<input type="checkbox"/> US\$ 370	<input type="checkbox"/> US\$ 470	
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\$ 145	<input type="checkbox"/> US\$ 180	
<input type="checkbox"/> Spouse Rate Name _____	<input type="checkbox"/> US\$ 225	<input type="checkbox"/> US\$ 295	
TRADE SHOW PASS (Trade show pass is included with the Full Conference Registration) Good for 3 days admission to exhibits only – November 8 - 10 <input type="checkbox"/> US\$ 30 TOTAL TRADE SHOW PASS US\$ _____			
INDUSTRY TOURS – Details to come <div style="text-align: right;">TOTAL INDUSTRY TOURS US\$ _____</div>			
MEMBERSHIP DUES – Enter amount from Membership Application on other side if applicable. TOTAL MEMBERSHIP DUES US\$ _____			
Do not mail registration after October 15, 2017 or fax after Nov. 8. After October 15, 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 October 15, 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 October 15, 2017 or for "no shows". After October 15, 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 LACQUA17.

For bank transfer details, contact us.

☐ Check # _____
 ☐ Visa
 ☐ Mastercard
 ☐ American Express
 ☐ Discover
 ☐ Diners Club

Card # _____ Expiration Date _____

Name on Card _____ Date _____ Signature _____

Credit Card Billing Address _____

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
- ☐ Aquaculture Association of Canada
- ☐ Aquaculture Association of South Africa
- ☐ Aquaculture Without Frontiers
- ☐ Asian Fisheries Society
- ☐ Associação Cearense de Aquicultores – ACEAQ
- ☐ 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 Fisheries and Sciences (KOSFAS)
- ☐ Malaysian Fisheries Society
- ☐ Society of Aquaculture Professionals (India)
- ☐ South African Aquaculture Society
- ☐ Spanish Aquaculture Association (SEA)

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

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).

FARM TOURS

There will be several Farm Tours to various aquaculture farms around Mexico Please check the website for details.

TRAVEL AND HOTEL

Check the website: www.was.org



TENTATIVE SCHEDULE

Tuesday, November 7

Registration Open	11:00 – 18:30
Exhibitor Move-in	8.00 – 18:30
Poster Set-up	11:00 – 18:30
Inauguration	18.00 – 19.00
Cocktail bienvenida	19.00 – 20.00

Wednesday, November 8

Registration Open	8:00 – 17:00
Exhibitor Move-in	8:00 – 10:00
Poster Set-up	8:00 – 12:00
Plenary Session	9:00 – 10:00
Coffee Break	10:00 - 10:40
Sessions	10.40 – 13.00
Trade Show	10:00 – 19:30
Lunch (On your own)	13:00 – 14:40
Session	14:40 – 18:40
Refreshment break	16:40 – 17.00
LACC General Assembly	18:40 - 19:30

Thursday, November 9

Registration Open	8:00 – 17:00
Sessions	9:00 – 11:00
Trade Show & Posters Open	11:00 – 20:00
Refreshment Break	11:00 – 11:20
Sessions	11:20 – 13:00
Lunch (On your own)	13:00 – 14:40
Sessions	14:40 – 18:40
Refreshment Break	16:40 – 17:00
President Dinner	19:30 – 22:00

Friday November 10

Registration Open	8:00 – 15:00
Sessions	9:00 – 11:00
Refreshment Break	11:00 – 11:20
Trade Show & Posters Open	10:00 - 16:00
Sessions	11:20 – 13:00
Lunch (On your own)	13:00 – 14:40
Sessions	14:40 – 17:40

