

# Aquaculture America 2011

Aquaculture on Parade



**February 28 - March 3**

**New Orleans Marriott**

**New Orleans, Louisiana**

THE NATIONAL CONFERENCE & EXPOSITION OF



NATIONAL  
**Aquaculture**  
ASSOCIATION



## Associate Sponsors

- |   |  |
|---|--|
| American Tilapia Association            | International Association of Aquaculture |
| American Veterinary Medical Association | Economics and Management                 |
| Aquacultural Engineering Society        | Latin American Chapter WAS               |
| Aquaculture Association of Canada       | Striped Bass Growers Association         |
| Catfish Farmers of America              | US Shrimp Farming Association            |
| Global Aquaculture Alliance             | US Trout Farmers Association             |





# AQUACULTURE AMERICA RETURNS TO NEW ORLEANS



AQUACULTURE AMERICA 2011 returns to one of the favorite tourist spots in the world for the only major national aquaculture conference and exposition held in the U.S. The U.S. Aquaculture Society (formerly U.S. Chapter of WAS) joins with National Aquaculture Association and the U.S. Aquaculture Suppliers Association to produce the annual Aquaculture America meetings.

These sponsors are joined by the annual meetings of Aquacultural Engineering Society, American Tilapia Association, Striped Bass Growers Association, US Trout Farmers Association, US Shrimp Farming Association and many more associations to make Aquaculture America 2011 the one meeting in the U.S. that you don't want to miss!

## BEYOND THE CONFERENCE

New Orleans offers many attractions and great fun. Aquaculture America 2011 is the place to learn about the latest in aquaculture, see the newest technology in the trade show and have a great time in the many fantastic restaurants, bars and entertainment sites in New Orleans.

## A CRITICAL TRADE SHOW FOR AQUACULTURISTS!

AQUACULTURE AMERICA 2011 will have the largest aquaculture trade show in the Western Hemisphere and one of the largest anywhere in the world with nearly 200 booths! This is your opportunity to inspect the latest in products and services for the aquaculture industry. It is the place to visit current suppliers and make new contacts. To keep ahead and to keep profits building, you need to keep pace with the technological advancements in the industry - and AQUACULTURE AMERICA 2011 is the place to do it!





# EXPANDED PRODUCER PROGRAM

Aquaculture America is known for the high quality of its Producer Program organized by NAA. AQUACULTURE AMERICA 2011 will continue to expand the size and scope of the producer program to address all of the issues facing producers in the U.S. as well as around the world.

## Topics Include:

- Communications and Media
- Aquatic Animal Health
- National Animal Identification
- Feed Safety
- Aquatic Invasive Species
- Marketing
- Offshore Aquaculture
- Environmental Issues
- Start Up Aquaculture
- Science and Public Policy
- Federal Agency Updates

## TECHNICAL PROGRAM COVERS THE LATEST RESEARCH

The U.S. Aquaculture Society will put together an extensive technical program featuring special sessions, contributed papers and workshops on all of the species and issues facing aquaculturists around the country and throughout the world. Sample topics:

Best Management Practices	Health and Disease
Environmental Monitoring	Education Programs
Biotechnological Applications	Engineering
Extension/Technology Transfer	Mollusk Culture
Ornamentals	Zebrafish
Farm Production	Statistics and Modeling
Policy/Regulations	Animal Welfare
Coldwater Fish Culture	Alternative Feed Ingredients
Feeds/Nutrition	Biofloc Technology
Polyculture	Channel and Hybrid Catfish Culture
Crustacean Culture	Larviculture
Stock Enhancement	Marine Finfish Culture
Drugs/Therapeutants	Recirculation Systems
Finfish Culture	Live Feed Production
Water Quality and Effluents	Baitfish Production
Finfish Physiology	Marine Shrimp Culture
Ecological Interactions	Effluent Waste Management
Genetics and Breeding	
Economics	

## YOUR FULL CONFERENCE REGISTRATION INCLUDES:

Only pre-registered attendees are guaranteed materials

- Admission to all sessions, seminars and the trade show.
- Admission to the President's Reception.
- Conference Bag, Abstract CD 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.



# CALL FOR PAPERS – DEADLINE: August 1, 2010

**AQUACULTURE AMERICA 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 12 minutes for a presentation, plus 3 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. Slides, overhead projectors and video players will not be available or allowed.

**All presenters are required to pay their own registration accommodation and travel expenses. AQUACULTURE AMERICA 2011 cannot subsidize registration fees, travel or hotel costs.**

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

## INSTRUCTIONS FOR PREPARATION OF ABSTRACTS

Expanded Abstract Format - Please refer to the sample.

- 1. TITLE OF PAPER:** The abstract title is printed in CAPITAL LETTERS, with the exception of scientific names which should be Upper/lower case and *italicized* (see example). 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 8.5 x 11 inch 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. The reduced figures and tables should be included in the abstract in camera-ready form.

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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  
lmuzinic@csr.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 tolerance, 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 information exists on their nutritional requirements and practical diet formulations. In many crustaceans, lecithin and cholesterol to be added to their diet, these two nutrients are usually not found; however, lecithin and cholesterol are very expensive. Since diet costs can be as much as 70% of the total expenses for an aquaculture enterprise, it is imperative that the least expensive diet be developed that meets the nutrient requirements of the species. The present study was conducted to determine if cholesterol 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 a 10 liter plastic mesh culture units. Individual units were placed within fiberglass tanks, each containing aeration and water line. Water was recirculated through physical and mechanical filters. Water temperature was maintained at 27-29°C and lighting was provided by overhead fluorescent ceiling lights on a 12 hour light:dark cycle. Ammonia, nitrite, nitrate, oxygen, temperature, alkalinity, chloride, 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.

**1 inch margin (2.54 cm)**

**1 inch margin (2.54 cm)**

**8.5 inches wide (21.6 cm)**

11 inches long (27.94 cm)

**SAMPLE**

**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
Soybean Meal	35.0	35.0	35.0	44.5
Lecithin 0.5	0.0	0.5	0.0	
Cholesterol	1.0	1.0	0.0	0.0
Other	38.5	39.0	39.5	30.5

**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	6.00a	3.64b	5.11a
Weight gain (%)	3384a	2897a	1717b	2454a
SGR (%/day)	5.74a	5.66a	4.68b	5.41a
Survival (%)	76.0	64.0	56.0	80.0

## PLEASE SUBMIT YOUR ABSTRACT ONLINE

**Submit your abstract via the internet at the meeting website.  
Follow the complete instructions on the website for online submission.**

**www.was.org**

**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**



**ATTENDEE REGISTRATION FORM**

**Aquaculture America 2011**

**February 28 - March 3, 2010 – New Orleans, Louisiana**

**Return address for payments in USD:**  
**AQUACULTURE AMERICA 2011**  
 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

**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 January 14, 2011	Register by January 28, 2011	Register after January 28, 2011	* 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>TOTAL REGISTRATION FEE</b>  <b>US\$</b> _____
<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>ASSOCIATION MEMBER RATE*</b> <input type="checkbox"/> US\$ 395	<input type="checkbox"/> US\$ 395	<input type="checkbox"/> US\$ 505	<input type="checkbox"/> US\$ 605	
<b>STUDENT MEMBER RATE*</b> Include copy of Student I.D. <input type="checkbox"/> US\$ 195	<input type="checkbox"/> US\$ 195	<input type="checkbox"/> US\$ 195	<input type="checkbox"/> US\$ 265	
<b>Non-Member Rate</b> <input type="checkbox"/> US\$ 495	<input type="checkbox"/> US\$ 495	<input type="checkbox"/> US\$ 610	<input type="checkbox"/> US\$ 695	
<b>Student Non-Member Rate</b> Include copy of Student I.D. You can join WAS on the reverse side and use the Member Rate. <input type="checkbox"/> US\$ 250	<input type="checkbox"/> US\$ 250	<input type="checkbox"/> US\$ 250	<input type="checkbox"/> US\$ 295	
<input type="checkbox"/> <b>Spouse Rate</b> Name _____ <input type="checkbox"/> US\$ 275	<input type="checkbox"/> US\$ 275	<input type="checkbox"/> US\$ 325	<input type="checkbox"/> US\$ 425	

**TRADE SHOW PASS** (Trade show pass is included with the Full Conference Registration)  
 Good for 3 days admission to exhibits only – March 1, 2, 3  US\$ 50 **TOTAL TRADE SHOW PASS** US\$ \_\_\_\_\_

**INDUSTRY TOURS** – To be announced later.

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

**Do not mail registration after Feb. 10, 2011 or fax after Feb. 25.**  
**After Feb 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 January 28, 2011. 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 January 28, 2011 or for "no shows". After January 28, 2011, 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 **WORLD AQUACULTURE 2011**. 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.

- |  |   |
|--|---|
| <input type="checkbox"/> American Tilapia Association            | <input type="checkbox"/> Latin American & Caribbean Chapter WAS                 |
| <input type="checkbox"/> American Veterinary Medical Association | <input type="checkbox"/> National Aquaculture Association                       |
| <input type="checkbox"/> Aquacultural Engineering Society        | <input type="checkbox"/> National Association of State Aquaculture Coordinators |
| <input type="checkbox"/> Aquaculture Association of Canada       | <input type="checkbox"/> Striped Bass Growers Association                       |
| <input type="checkbox"/> Catfish Farmers of America              | <input type="checkbox"/> US Marine Shrimp Association                           |
| <input type="checkbox"/> European Aquaculture Society            | <input type="checkbox"/> US Chapter of WAS (USAS)                               |
| <input type="checkbox"/> Fish Culture Section - AFS              | <input type="checkbox"/> US Trout Farmers Association                           |
| <input type="checkbox"/> Florida Aquaculture Association         | <input type="checkbox"/> World Aquaculture Society                              |
| <input type="checkbox"/> Global Aquaculture Alliance             |   |

**MEMBERSHIP APPLICATIONS**     NEW APPLICATION     RENEWAL

### NATIONAL AQUACULTURE ASSOCIATION (NAA)

For details on the different types of memberships and options, please contact the NAA home office at:

**Tel: +1-304-728-2167    Fax: +1-304-728-2196    Email: [naa@frontiernet.net](mailto:naa@frontiernet.net)**

Individual Memberships: Individuals, growers, partnerships and corporations who engage in the practice of and who derive a portion of their income from aquaculture. Individual members nominate and elect four board members for three-year terms.

\_\_\_\_\_ Individual: \$250

\_\_\_\_\_ Silver: \$1,000 to \$2,499

\_\_\_\_\_ Gold: \$2,500 to \$4,999

\_\_\_\_\_ Platinum: \$5,000 and above

For membership information on State Associations and Species Associations, call for details.  
Web: [www.nationalaquaculture.org](http://www.nationalaquaculture.org)

**Total Amount for NAA Membership    USD \_\_\_\_\_**

*Fees for memberships are non-refundable.*

*Please enter this amount under "Membership Dues" section on opposite side of this form.*

### 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
- 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.

*Fees for memberships are non-refundable.*

#### 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**

**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

Some very special tours will be set up. Details to be provided later.

## TRAVEL

Special car rental fares have been arranged with AVIS. you can make reservations at 800-331-1600 or +1-918-624-4338 and mention the special discount code #1770126.

Special airfares are available. 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: globaltcc@gte.net

## HOTELS

We have arranged for a fantastic rate at the New Orleans Marriott for Aquaculture America 2011! Be sure to mention Aquaculture America 2011 to get the very special rate of \$169. Contact the hotel directly for your reservation:

Tel: +1-504-581-1000 or 1-888-771-4429

Fax: +1-210-482-2312

See the WAS website for online reservation details.



Stay in touch with the program  
developments for

# AQUACULTURE AMERICA 2011

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





# TENTATIVE SCHEDULE

## Monday, February 28

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

## Tuesday, March 1

Registration Open	7:30am - 5:00pm
Plenary Session	8:30am - 10:00am
Exhibitor Move-in	8:00am - 10:00am
Poster Set-up	8:00am - 10:00am
Refreshment Break	10:00am - 11:00am
Trade Show & Posters Open	10:00am - 6:00pm
Sessions	11:00am - 12:30pm
Lunch (On your own)	12:30pm - 2:00pm
Sessions	2:00pm - 3:30pm
Refreshment Break	3:30pm - 4:00pm
Sessions	4:00pm - 5:30pm
Happy Hour	5:30pm - 6:30pm
Presidents Reception	6:30pm - 9:30pm

## Wednesday, March 2

Registration Open	8:00am - 5:00pm
Sessions	8:30am - 10:00pm
Refreshment Break	10:00am - 10:30am
Sessions	10:30pm - 12:30pm
Trade Show	10:00am - 6:00pm
Lunch (On your own)	12:30pm - 2:00pm
Sessions	2:00pm - 5:00pm
Poster Session	5:00pm - 6:00pm
Happy Hour	5:00pm - 6:00pm
NAA Auction	6:00pm - 8:00pm
Student Reception	7:00pm - 9:00pm

## Thursday, March 3

Registration Open	8:00am - 3:00pm
Sessions	8:30am - 10:00am
Trade Show	10:00am - 4:00pm
Refreshment Break	10:00am - 11:00am
Sessions	11:00am - 12:30am
Lunch (On your own)	12:30pm - 2:00pm
Sessions	2:00pm - 3:30pm
Refreshment Break	3:30pm - 4:00pm
Exhibitor Move-out	4:00pm - 7:00pm
Sessions	4:00pm - 5:30pm

