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Premier Sponsor



Featuring:

5th International Oyster Symposium (IOS5)
World Oyster Society



Session Sponsors



AQUATIC ECO-SYSTEMS™



DaBomb Protein Corp.

APA 13

POSITIONING FOR PROFIT

Asian-Pacific Aquaculture 2013

December 10-13, 2013

Saigon Exhibition & Convention Centre
Ho Chi Minh City, Vietnam

Hosted by: Ministry of Agriculture & Rural
Development (MARD), Vietnam



ASIAN PACIFIC AQUACULTURE 2013

THE SECOND MAJOR INTERNATIONAL AQUACULTURE CONFERENCE IN VIETNAM

After the first successful meeting in 2007, Asian-Pacific Aquaculture 2013 will be the next chance for the international aquaculture community to visit Vietnam and see the rapidly expanding aquaculture industry in Vietnam – nearly 50% increase in the last 5 years in hectares in aquaculture production and over 100% per year increase in tons produced every year for the last 16 years! Attendees will be able to see what is happening in Vietnamese aquaculture to create this growth as well as aquaculture developments in the rest of Southeast Asia.

Asian-Pacific Aquaculture 2013 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 Vietnam.

SPECIAL PRODUCER PROGRAM

Asian-Pacific Aquaculture 2013 will have a special Farmer's Day with the latest in practical knowledge for the Vietnam aquaculture producers.

TECHNICAL PROGRAM COVERS THE LATEST RESEARCH

Sessions and workshops at Asian-Pacific Aquaculture 2013 will cover all aspects of aquaculture in Vietnam as well as Southeast Asia.

5th INTERNATIONAL OYSTER SYMPOSIUM (IOS5)

The World Oyster Society will hold its 5th Oyster Symposium with Asian Pacific Aquaculture 2013 in the same location. Registration for Asian Pacific Aquaculture 2013 will include attendance to this 5th Symposium.



TENTATIVE SESSIONS

Ecology & environment

Environment, Biodiversity and Climate Change
Sustainable development of aquaculture
Aquaculture standards & certification

Animal science, health and diseases

Physiology, Morphology & Histology
Immunology
Embryology
Breeding & Genetics
Hatchery & Larvae management
Drugs and therapeutics
Animal welfare

Nutrition

Feedstuffs and feed additives
Prebiotics and probiotics
Fish meal and oil extension (IFO)
Alternative feedstuffs and aquafeeds
Antimicrobials in aquafeeds

Production Systems

Cage-culture
Bio-floc systems
Recirculation systems
Pond culture
Offshore aquaculture
Integrated multi-trophic aquaculture
Raceway systems
Organic aquaculture
Aquaculture in desert conditions
Reservoir based aquaculture
Aquaculture and high techs

Post harvest technologies

Advances in seafood processing,
Bioactives and functional seafood
Health, Safety and inspection

Molluscs & crustaceans

Abalone
Mussel
Oyster
Octopus
Marine shrimp
Pearl and queen conch culture
Carpet shells
Crabs & lobsters
Crayfish & freshwater prawn

Freshwater Fish Culture

Carp
Freshwater culture of barramundi
Perch
Pangasius & Clarias & Ictalurus catfish
Tilapia
Eels, Trouts, Sturgeons and other coldwater
General Freshwater aquaculture

Post harvest technologies

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Eels, Trouts, Sturgeons and other coldwater
General Freshwater aquaculture

Other Species & topics

Seaweeds and Algae
Ornamentals
Amphibian and reptile aquaculture
Plankton culture
Emerging species in aquaculture

Economics & social sciences

Aquaculture economics & Management
Development, welfare and poverty alleviation
Marketing & Trade
Policy & regulations

Other topics & special sessions

Education, extension, and technology transfer
Pacific & indigenous aquaculture
Emerging issues in aquaculture development
FAO? EU? Vietnam?

Marine Fish Culture

Tuna, cobia and yellowtails
Saltwater culture of barramundi
Grouper & snappers
Salmonids
Mulletts
Other marine fish

Stay in touch with the program developments for ASIAN-PACIFIC AQUACULTURE 2013
through our Web Page at: <http://www.was.org>

CALL FOR PAPERS - ABSTRACTS STILL BEING ACCEPTED

ASIAN-PACIFIC AQUACULTURE 2013 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 2013:

- 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

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 2013 cannot subsidize registration fees, travel or hotel costs.

No Abstract Book will be printed - a USB 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.

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@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 range 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 because very little information exists on their nutritional requirements and practical diet formulations. Since many crayfish diets 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 10% of the overall expenses for an aquaculture enterprise, it is imperative that the least expensive diet formulated 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 aquaculture system with newly-hatched juvenile (*Cherax quadricarinatus*) of weight of 0.2 g red claw, each stocked in a separate plastic mesh culture units. Individual units were maintained 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 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 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

2.5 cm margin

2.5 cm margin

21 cm wide

PLEASE SUBMIT YOUR ABSTRACT ONLINE

www.was.org

REGISTRATION FORM

ASIAN-PACIFIC AQUACULTURE 2013

DECEMBER 10-13, 2013



SAVE TIME – REGISTER ONLINE

SAVE TIME – REGISTER ONLINE

- Register Online
- Please return **both sides** of this form with payment to one of the addresses above (depending on the currency used).
- Registration can be faxed (Fax: +1-760-751-5003) if paying by credit card. (**Fax both sides**).
- Use one form per person. Please copy this form for additional people.
- Cancelled registrations will receive a refund minus 20% handling. Cancellations must be in writing and be received by November 1, 2013. Refunds will be issued after the conference.

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)

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 Sept. 13, 2013	Register by November 1, 2013	Register after November 1, 2013	* 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 <small>In order to receive the pre-Registration discount rate, this form and payment must be received by the date above.</small>				
ASSOCIATION MEMBER RATE*	<input type="checkbox"/> US\$ 325	<input type="checkbox"/> US\$ 395	<input type="checkbox"/> US\$ 490	TOTAL REGISTRATION FEE US\$ _____
STUDENT MEMBER RATE* <small>Include copy of Student I.D.</small>	<input type="checkbox"/> US\$ 165	<input type="checkbox"/> US\$ 165	<input type="checkbox"/> US\$ 195	
Non-Member Rate	<input type="checkbox"/> US\$ 425	<input type="checkbox"/> US\$ 495	<input type="checkbox"/> US\$ 590	
Student Non-Member Rate <small>Include copy of Student I.D. You can join WAS on the reverse side and use the Member Rate.</small>	<input type="checkbox"/> US\$ 215	<input type="checkbox"/> US\$ 215	<input type="checkbox"/> US\$ 255	
<input type="checkbox"/> Spouse Rate <small>Name _____</small>	<input type="checkbox"/> US\$ 255	<input type="checkbox"/> US\$ 345	<input type="checkbox"/> US\$ 395	

TRADE SHOW PASS – Good for 3 days admission to exhibits only – Dec. 11, 12, 13 (Trade show pass is included with the Full Conference Registration)
 US\$ 30 **TOTAL TRADE SHOW PASS** US\$ _____

INDUSTRY TOURS – Check the website.

WORKSHOP on Bioflocs, Integrated Aquaculture and Disease Prevention – US \$75 US\$ _____

MEMBERSHIP DUES – Enter amount from Membership Application on other side if applicable.

Do not mail registration after Nov. 15, 2013 or fax after Dec. 5.
 After Dec. 5, bring this form with you to register at the show.

➔ **TOTAL AMOUNT** US\$ _____

REGISTRATION CONFIRMATION AND RECEIPT WILL BE EMAILED AFTER PROCESSING.

PAYMENT METHOD: All fees must be paid to the order of Asian-Pacific Aquaculture 2013 without charges for the beneficiary.

Check # _____ Visa Mastercard American Express Discover Diners Club

Card # _____ Expiration Date _____ Sec Code _____

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.

- | | |
|--|--|
| <ul style="list-style-type: none"> <input type="checkbox"/> American Tilapia Association <input type="checkbox"/> American Veterinary Medical Association <input type="checkbox"/> AQUABIO <input type="checkbox"/> Aquaculture Association of Canada <input type="checkbox"/> Aquacultural Engineering Society <input type="checkbox"/> Aquaculture Association of Canada <input type="checkbox"/> Aquaculture Without Frontiers <input type="checkbox"/> Asian Fisheries Society <input type="checkbox"/> Asian-Pacific Chapter WAS <input type="checkbox"/> California Aquaculture Association <input type="checkbox"/> Catfish Farmers of America <input type="checkbox"/> China Society of Fisheries <input type="checkbox"/> Egyptian Aquaculture Society <input type="checkbox"/> European Aquaculture Society <input type="checkbox"/> Fish Culture Section - AFS <input type="checkbox"/> Global Aquaculture Alliance <input type="checkbox"/> Indonesian Aquaculture Society <input type="checkbox"/> International Assn of Aquaculture Economics and Mgmt <input type="checkbox"/> IAFI – The Intn'l Assn of Seafood Professionals | <ul style="list-style-type: none"> <input type="checkbox"/> Korean Aquaculture Society <input type="checkbox"/> Korea Chapter, WAS <input type="checkbox"/> Latin American & Caribbean Chapter WAS <input type="checkbox"/> Malaysian Fisheries Society <input type="checkbox"/> National Aquaculture Association <input type="checkbox"/> National Aquaculture Council of Australia <input type="checkbox"/> National Association of State Aquaculture Coordinators <input type="checkbox"/> Sociedad Brasileira de Acuicultura <input type="checkbox"/> Society of Aquaculture Professionals <input type="checkbox"/> Spanish Aquaculture Association <input type="checkbox"/> Sociedad Brasileira de Acuicultura <input type="checkbox"/> Striped Bass Growers Association <input type="checkbox"/> US Marine Shrimp Association <input type="checkbox"/> US Chapter of WAS (USAS) <input type="checkbox"/> US Trout Farmers Association <input type="checkbox"/> World Aquaculture Society (WAS) <input type="checkbox"/> World Aquatic Veterinary Medical Association <input type="checkbox"/> World Oyster Society <input type="checkbox"/> Zebrafish Husbandry Association |
|--|--|

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 1100/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.



MANY OPPORTUNITIES FOR FARM TOURS

Some very special tours will be set up by the Vietnamese Ministry of Agriculture and Rural Development. Details to be provided later – check our website for updates.

AES, BIOFLOC TECHNOLOGY WORKING GROUP

Workshop on Bioflocs, Integrated Aquaculture and Disease Prevention

December 9-10, 2013

Highlights US \$75

1. Review and discussion on data regarding biofloc effects on outbreaks of diseases in shrimp production systems.

2. Reports on controlled research works, thorough discussion and mutual planning and prioritizing.

The workshop will take place in Ho Chi Minh City, 9 December 13:00 till 10 December 14:00.

Registration fee is 75 US\$ (including workshop dinner and lunch)

Detailed time table will be sent later. Write:

Yoram Avnimelech, agyoram@technion.ac.il

APA 2013 ANNOUNCES TWO OFFICIAL HOTELS DURING THE APA13 MEETING

The 5 star hotel Sheraton being at district 1 in the city center of HCMC and IBIS south hotel, a 3 star hotel being close to the convention center. Please contact the hotel of your choice directly. For more information: <https://www.was.org/WasMeetings/meetings/pdf/APA2013HotelInfo.pdf>

FANTASTIC TOURIST EXPERIENCES AWAIT

There are many, many great opportunities in Vietnam for wonderful experiences before or after the conference. Check our website for more details - www.was.org.

SPECIAL FARMERS SESSIONS INCLUDED IN CONFERENCE

Disease on Shrimp' Farmers Session December 11
Organised by Uni President, APA13 Gold Sponsor

Feeding for Profit Farmers Session December 12
Organised by Biomin, APA13 Silver Sponsor

TENTATIVE SCHEDULE

TUESDAY, DECEMBER 10

Registration Open Noon - 17:30
Exhibitor Move-in Noon - 18:00
Poster Set-up..... 13:00 - 17:30
Welcome Cocktail..... 19:00 - 21:30

WEDNESDAY, DECEMBER 11

Registration Open 7:30 - 17:00
Plenary Session 8:30 - 10:30
Trade Show & Posters Open 10:00 - 18:30
Sessions..... 11:00 - 17:00
Lunch (On your own) 12:20 - 14:00
Happy Hour & Poster Session ... 17:00 - 18:00

THURSDAY, DECEMBER 12

Registration Open 7:30 - 17:00
Sessions..... 8:30 - 17:20
Trade Show & Posters Open 10:00 - 17:30
Lunch (On your own) 12:20 - 13:50
Reception..... 19:00 - 21:30

FRIDAY, DECEMBER 13

Registration Open 7:30 - 17:00
Sessions..... 8:30 - 17:20
Trade Show & Posters Open 10:00 - 16:00
Lunch (On your own) 12:20 - 13:50
Closing Remarks
and Happy Hour 17:20 - 18:30

FOR MORE INFORMATION:

Asian-Pacific Aquaculture 2013

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 USB 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!