

February 21-25, 2013 • Nashville, Tennessee USA















#### **Associate Sponsors**

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



# THE TRIENNIAL IS EVERY THREE YEARS!



## FOR MORE INFORMATION

# Aquaculture 2013

Conference Management Office P.O. Box 2302 Valley Center, CA 92082 USA Questions: Tel: +1-760-751-5005 Fax: +1-760-751-5003 Email: worldaqua@aol.com

**REGISTER EARLY AND \$AVE!** 

## **AQUACULTURE 2013**

Every three years, the Triennial is held somewhere in the United States. In 2013, the Triennial enters new territory in the exciting city of Nashville, Tennessee - the Music City!

### THE TRIENNIAL IS THE LARGEST AQUACULTURE MEETING IN THE WORLD!

The Triennial is the largest aquaculture conference and tradeshow held in the world with nearly 4000 attendees from over 90 countries and even more countries are expected to have attendees at AQUACULTURE 2013. The Triennial combines the annual meetings of the Fish Culture Section of the American Fisheries Society, the World Aquaculture Society and the National Shellfisheries Association. In addition to the annual meetings of the main sponsors, look what else is happening at AQUACULTURE 2013!

- AQUACULTURE AMERICA Annual Meeting of the U.S. Chapter of World Aquaculture Society, the National Aquaculture Association, and the U.S. Aquaculture Suppliers Association.
- Annual Meeting of the American Tilapia Association
- Annual Meeting of the Striped Bass Growers Association
- Annual Meeting of the U.S. Trout Farmers Association
- Special sessions organized by Aquacultural Engineering Society and International
- Association of Aquaculture Economics and ManagementMany other meetings of work groups, government
- agencies and related aquaculture activities
- Program with technical sessions and producer's seminars covering virtually all species grown by aquaculture
- AND look at all of the Associate Sponsors on the cover who are participating in the program development!

The last Triennial was held in 2010 in San Diego where it was pronounced a huge success by the nearly 4000 people who attended. Don't miss this Triennial!



**AQUACULTURE 2013** 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, and entertainment sites in Nashville - a city of culture and history, of haute cuisine, natural beauty and pure Southern charm!

### PLENARY: EDWARD ALISON GLOBAL CLIMATE CHANGE AND AQUACULTURE

## EXPANDED PRODUCER PROGRAM

Aquaculture America is known for the high quality of its Producer Program organized by National Aquaculture Association. AQUACULTURE 2013 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.

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 Town Hall Meeting

#### AQUACULTURE 2013: A CRITICAL TRADE SHOW FOR AQUACULTURISTS!

will have the largest aquaculture trade show in the Western Hemisphere and one of the largest anywhere in the world with over 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 2013 is the place to do it!

# YOUR FULL CONFERENCE REGISTRATION INCLUDES:

- Admission to all sessions, seminars and the trade show
- Admission to the receptions
- 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.

Only pre-registered attendees are guaranteed materials

## TECHNICAL PROGRAM COVERS THE LATEST RESEARCH

The Triennial Sponsors 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. Sample topics will include:

Shrimp Shrimp Nutrition Shrimp Health & Disease Shellfish Disease Finfish Disease **Finfish Nutrition** Shellfish Nutrition Marine Finfish Aquaculture Engineering Zebrafish Aquaponics Tuna Open Ocean Aquaculture IMTA / Integrated Aquaculture Biofouling Conservation / Restoration Aquaculture (fish and shellfish) Distaster Relief Sea Lice GMO Fish and Shellfish **Consumer Perceptions** of Farm-raised Seafood History of Aquaculture Mussels Scallops Ovsters Clams Abalone Geoducks Pearl oysters Freshwater mussels Tridacna Shellfish genomics Post harvest shellfish treatment Sea Urchins Macrobrachium Crustaceans Tilapia Catfish Largemouth bass Sturgeon Gar. paddlefish and bowfin Percids Finfish genetics Pond fertilization and fish larvaeculture **Ornamentals** Mullet

Fish Physiology Larval Finfish Eels Finfish Breeding, Genetics, Genomics Striped Bass & Hybrids Dermo Probiotics and feed additives Therapeutic drugs Vibrio Biosecurity Probiotics in aquaculture Nutriceuticals Biotechnology Stock Enhancement Broodstock propagation and management Fish transport Hatchery technology Recirculation technology Freshwater Pond Aquaculture Recreational and ornamental pond management Small scale aquaculture Urban aquaculture Artemia Harmful algal blooms Law and Policy Aquaculture Without Frontiers Aquaculture education (including minority institutions) Market driven aguaculture: developing and sustaining an industry Aquaculture Economics Ecology & Environment Policy & regulations Organic Aquaculture: Future **Opportunities** Certification Endangered species Frogs Water Quality & Effluents Extension/Technology Transfer Feeds Latin American and Caribbean Aquaculture Fish Oil

# **CALL FOR PAPERS** – DEADLINE: August 31, 2012

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.

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 2013 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

2

H

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.

#### ALL ABSTRACTS AND PRESENTATIONS **MUST BE IN ENGLISH**



inches long (27.94 cm)

8.5 inches wide (21.6 cm)

## 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:

worldagua@aol.com or Fax: +1-760-751-5003



### ATTENDEE REGISTRATION FORM

AQUACULTURE 2013 February 21-25, 2013 – Nashville, Tennessee Return address for payments in USD: AQUACULTURE 2013 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 OR fax	or mail both sides w	ith payment. Use one fo	orm per person.	
PLEAS	SE PRINT CLEARLY OR T	YPE ALL REQUESTED IN	NFORMATION		
BADGE INFORMATION: (As you want your n	ame badge to read – No t	titles, please)			
First Name	meSURNAME (FAMILY NAME)				
Company or Institution (Limited to 40 Letter					
		Drov	Country		
City	State/	F10V	Country		
MAILING INFORMATION: Email	ude email address)				
Postal Address					
City	State / Prov	Postal Code	Country		
Phone (Include country and city code)					
(Include country and city code)	(Include	e country and city code)			
<b>REGISTRATION FEES:</b> In order to receive th See brochure for what is included in registratic		below, this form and pa	yment must be received by	the date listed.	
TYPE OF REGISTRATION	Register by	Register by	Register after	*	
FULL CONFERENCE & TRADE SHOW	January 11, 2013	February 1, 2013	February 1, 2013	To qualify for Member Rate you <u>must</u> complete	
ASSOCIATION MEMBER RATE*	US\$ 435	US\$ 535	US\$ 635	the Association Memberships section on the reverse side.	
STUDENT MEMBER RATE* Include copy of Student I.D.	US\$ 225	US\$ 225	US\$ 290		
Non-Member Rate	US\$ 530	US\$ 630	US\$ 730	Trade Show is included	
Student Non-Member Rate	US\$ 295	US\$ 295	US\$ 365	in the Full Conference	
Include copy of Student I.D. You can join any of the groups on the reverse side and use the Member Rate.				Registration Rate.	
Spouse Rate				TOTAL REGISTRATION FEE	
Name	US\$ 335	US\$ 395	US\$ 495	US\$	
TRADE SHOW PASS		(Trade sho	ow pass is included with the Fi	ull Conference Registration)	
Good for 3 days admission to exhibits only – Februa	ry 22, 23, 24	US\$ 50	TOTAL TRADE SHOW PASS	US\$	
INDUSTRY TOURS – See website for current t	our information				
MEMBERSHIP DUES – Enter amount from M	embership Application on oth	ner side if applicable.	TOTAL MEMBERSHIP DUES	US\$	
Do not mail registration after Feb. 4, 20	,		TOTAL AMOUNT US	D.¢	
After those dates, bring this form with y	you to register at the she	ow.	TUTAL AMOUNT US	აა	
<b>Registration Confirma</b>	ation and Rec	eipt will be e	emailed after p	processing.	
CANCELLATION POLICY: Cancellation of registration 20% handling fee. Refunds are processed after the February 11, 2013, no refunds will be made for pr emergencies. Fees for memberships are non-refund	conference. No refund will ofessional or personal emer	be made for cancellations	received after February 11, 20	)13 or for "no shows". After	
PAYMENT METHOD: All fees must be pair	id to the order of AQUACULT	URE 2013.			
Check #	Visa Masterc	ard 🗌 American E	xpress		
Card #			Expiration Date_		
Name on Card	Date	Signatu	ire		

For bank transfer details, contact us.

## **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 gualifies 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.

- American Tilapia Association
- American Veterinary Medical Association
- Aquacultural Engineering Society
- Aquaculture Association of Canada
- Aquaculture Without Frontiers
- Asian Fisheries Society
- California Aquaculture Association
- Catfish Farmers of America
- China Society of Fisheries
- Egyptian Aquaculture Society
- European Aquaculture Society

- □ Fish Culture Section AFS
- Global Aquaculture Alliance
- Indonesian Aquaculture Society
- International Association of Aquaculture Economics and Management
- Korean Aquaculture Society
- Latin American & Caribbean Chapter WAS
- Malaysian Fisheries Society
- National Aquaculture Association
- National Aquaculture Council
- National Shellfisheries Association

- Sociedad Brasiliera de Acuicultura
- □ Society of Aquaculture Professionals
- South African Aquaculture Society
- Spanish Aquaculture Association
- Striped Bass Growers Association
- US Marine Shrimp Farming Association
- US Chapter of WAS (USAS)
- US Trout Farmers Association
- U World Aquaculture Society
- World Aquatic Veternary Medical Association

USD

Zebrafish Husbandry Association

MEMBERSHIP APPLICATIONS □ NEW APPLICATION

Student (USD 45/vr)

**RENEWAL** 

### NATIONAL SHELLFISHERIES ASSOCIATION

For details on the different types of memberships and options please contact the NSA office at:

Web: www.shellfish.org

MEMBERSHIP CATEGORY: (Indicate only one)

Includes subscription to the Journal of Shellfish Research

**Regular** (USD 85/yr)

Signature of Professor or copy of Student ID required

**Total Amount for NSA Membership** 

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

## FISH CULTURE SECTION OF AMERICAN FISHERIES SOCIETY

□ FCS Membership for Current AFS members \$2.00

□ Affiliate FCS membership for non-AFS members \$12.00

Pay your membership dues online at www.fisheries.org (to join the section as a current AFS member) or www.fishculturesection.org (to join as an affiliate member), or send a check to:

Alan Johnson · Iowa Department of Natural Resources · Rathbun Fish Culture Research Facility 15053 Hatchery Place • Moravia, IA 52571 • 641-647-2658 • alan.johnson@dnr.iowa.gov

#### 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 <u>one</u> 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 🖸 Japan (USD 5)
- 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 15/yr) Full access to the WAS website and Member's Area. Printed publicationsnot included. Cannot have been a regular member in the last five years.

Fees for memberships are non-refundable.

Total Amount for WAS Membership

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

## NATIONAL AQUACULTURE ASSOCIATION (NAA)

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

Tel: +1-870-850-7900 Fax: +1-870.850.7902 Email: naa@thenaa.net Web: www.thenaa.net

For membership in other associations, please contact them directly.

If you need a phone number, contact the Conference Manager (+1-760-751-5005).

#### 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)
- **Korea** (USD 5)
- Latin American/Carribean (USD 5)

USD

- **United States (USAS)** (USD 5)
- None

## TRAVEL INFORMATION

# HOTEL INFORMATION

The Renaissance Nashville Hotel is the conference hotel. It is connected to the Convention Center. We have arranged a block of rooms with very special rates at the Renaissance Nashville as well as some other hotels close to the Convention center. Please check the website for details on making reservations.

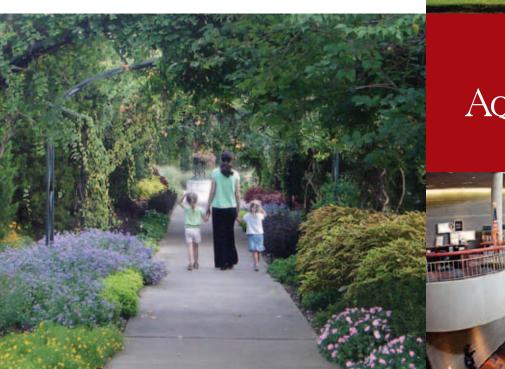
## TRAVEL

Special car rental fares also have been arranged with AVIS. You can make reservations at 800-331-1600 or +1-918-624-4338 and mention the special discount code# J770126.

Special airfares are available for travel within the U.S. to Nashville. 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







Stay in touch with the program developments for

# Aquaculture 2013

www.was.org

# **TENTATIVE SCHEDULE**

## Thursday, February 21

Registration Open & Exhibit Set-up10:00	) - 7:00
Welcome Reception 6:00	) - 8:00

## Friday, February 22

Registration Open 7:30 -	5:00
Opening Ceremonies & Plenary Session 8:30 -	10:00
Refreshment Break 10:00 - 1	11:00
Sessions	12:30
Trade Show Open 10:00 -	6:00
Lunch (on your own) 12:30 -	1:30
Sessions 1:30 -	3:00
Refreshment Break 3:00 -	3:30
Sessions 3:30 -	5:30
Happy Hour & Posters 5:30 -	6:30
Student Reception 7:00 -	9:00

## Saturday, February 23

Registration Open	
Sessions	
Trade Show Open	<u>10:00</u> - 5:30
Refreshment Break	10:00 - 10:30
Sessions	10:30 - 12:30
Lunch (on your own)	<u>12:3</u> 0 - 1:30
Sessions	1:30 - 4:30
Happy Hour & Posters	<b> 4:30</b> - 5:30
NAA Auction	5:30 - 7:30

## Sunday, February 24

Registration Open	7:30 - 5:00
Sessions	8:30 - 10:00
Trade Show Open	10:00 - 3:30
Refreshment Break	10:00 - 11:00
Sessions	11:00 - 12:30
Lunch (on your own)	12:30 - 1:30
Sessions	1:30 - 3:00
Refreshment Break	3:00 - 3:30
Sessions	3:30 - 5:30
Exhibit Move-out	3:30 - 7:00
Presidents Reception	6:30 - 9:30

## Monday, February 25

Registration Open	. 8:00 -	5:00
Sessions		
Refreshment Break	10:00 -	10:30
Sessions	10:30 -	12:30
Lunch (on your own)	12:30 -	1:30
Sessions	. 1:30 -	3:00
Refreshment Break	. 3:00 -	3:30
Sessions	. 3:30 -	5:30
Closing Happy Hour	. 5:30 -	6:30

