

Aquaculture 2022

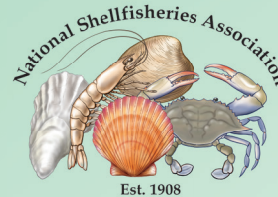
Come one, Come all, for Aquaculture Large and Small



February 28 - March 4, 2022
Town and Country Resort & Conference Center
San Diego, California



**WORLD
AQUACULTURE
Society**



**NATIONAL
Aquaculture
ASSOCIATION**

CO-SPONSORS



Hosted By:
California Aquaculture Association



ASSOCIATE SPONSORS

Aquacultural Engineering Society
Aquaculture Association of Canada
Aquaculture Feed Industry Association
Catfish Farmers of America
Global Aquaculture Alliance

International Association of Aquaculture
Economics and Management
Latin America & Caribbean Chapter WA
US Trout Farmers Association
World Aquatic Veterinary Medical Association
Zebrafish Husbandry Association



Aquaculture 2022

Every three years, the Triennial is held somewhere in the United States. In 2022, the Triennial returns to sunny San Diego – one of America's favorite cities.

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 4,000 attendees from over 90 countries and even more countries are expected to have attendees at AQUACULTURE 2022. The Triennial combines the annual meetings of the Fish Culture Section of the American Fisheries Society, World Aquaculture Society, National Shellfisheries Association, and the National Aquaculture Association. In addition to the annual meetings of the main sponsors, look what else is happening at AQUACULTURE 2022!

- AQUACULTURE AMERICA - Annual Meeting of USAS, the U.S. Chapter of World Aquaculture Society and the Aquaculture Suppliers Association.
- Annual Meeting of the U.S. Trout Farmers Association
- Special sessions organized by Aquacultural Engineering Society and International Association of Aquaculture Economics and Management
- Many other meetings of working groups, government agencies and related aquaculture activities
- Program with technical sessions and producers seminars covering virtually all species grown in 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 2019 in New Orleans where it was pronounced a huge success by over 3,000 people who attended. Don't miss this Triennial!



FOR MORE INFORMATION

Aquaculture 2022

Conference Management Office

P.O. Box 2302

Valley Center, CA 92082 USA

Questions: Tel: +1-760-751-5005 Fax: +1-760-751-5003

worldaqua@was.org



Plenary Speaker

How Sustainable Is Aquaculture?

Prof. Roz Naylor, Stanford University
Aquaculture 22: World Aquaculture Society Meeting
San Diego, CA: March 1, 2022



Prof. Roz Naylor will discuss her professional and personal journey in assessing the sustainability of aquaculture over the past two decades. Her comments will reflect insights from two reviews on aquaculture published in Nature, the first in 2000 ("The effect of aquaculture on world fish supplies") and the second in 2021 ("A 20-year retrospective review of global aquaculture"). She will discuss the important role of professional collaborations as well as her work on aquatic foods as part of

the global food system in shaping her views. The talk will explore major areas of achievement as well as persistent challenges along the path toward a sustainable aquaculture sector.

Rosamond (Roz) Naylor is the William Wrigley Professor of Earth System Science, Professor (by courtesy) in Economics, and founding Director of the Center on Food Security and the Environment at Stanford University. She received her PhD from Stanford University in applied economics, her MSc in economics from the London School of Economics, and her dual BA degrees in economics and environmental science from the University of Colorado. Her research focuses on policies and practices to improve global food security and protect the environment on land and at sea. She and her students have been involved in field-level research worldwide, and she has published widely on issues related to aquaculture, global food systems, and food policy. She currently co-chairs The Blue Food Assessment, an international initiative aimed at providing a comprehensive scientific evaluation of the sustainability, nutrition, equity, and justice dimensions of aquatic foods cultured and captured in freshwater and marine environments within the global food system. She is a Fellow of the Ecological Society of America, a Pew Marine Fellow, and a Leopold Leadership Fellow. She is also the President of the Board of Directors for Aspen Global Change Institute and a member of the Scientific Advisory Committee for Oceana.

Sessions By Day

Tuesday, March 1

Plenary	8:30 AM – 10:00 AM
Spotlight Talks.....	11:00 AM – 12:30 PM
Aquatic Veterinary Medicine	11:00 AM – 12:30 PM
Shrimp Nutrition.....	11:00 AM – 12:30 PM
Mussels.....	11:00 AM – 12:30 PM
PITIFC-VI – Day 1.....	11:00 AM – 5:00 PM
RAS.....	11:00 AM – 5:00 PM
Zebrafish – Day 1.....	11:00 AM – 5:00 PM
ONE HEALTH Epigenomes and Microbiomes: From Soil to People.....	11:00 AM – 5:00 PM
Down on the Farm	11:00 AM – 5:00 PM
Macroalgae Aquaculture – Supporting an Emerging Industry.....	11:00 AM – 5:00 PM
International Association of Aquaculture Economics and Management – Economics and Markets – Day 1.....	11:00 AM – 5:00 PM
Federal Actions Supporting U.S. Aquaculture	11:00 AM – 5:00 PM
Workshop on Presentation Preparation/Graphics/Video	
Art of Science Presentation	1:30 PM – 5:00 PM
Fish Health – Contributed	1:30 PM – 5:00 PM
Catfish	1:30 PM – 5:00 PM
Clams – Contributed	1:30 PM – 5:00 PM

Wednesday, March 2

Flatfish	8:30 AM – 10:00 AM
Optimizing Ecosystem Services Associated with Shellfish Aquaculture.....	8:30 AM – 10:00 AM
Larval Nutrition of Finfish.....	8:30 AM – 12:30 PM
Echinoderms.....	8:30 AM – 12:30 PM

Sessions By Day Wednesday continued

International Association of Aquaculture Economics and Management – Economics and Markets – Day 2.....	8:30 AM – 12:30 PM
Drug Updates and Indexing	8:30 AM – 12:30 PM
PITIFC-VC – Day 2	8:30 AM – 5:00 PM
The Shrimp Genome & Epigenome (ShrimpENCODE) Project	8:30 AM – 5:00 PM
Zebrafish – Day 2.....	8:30 AM – 5:00 PM
Aquaponics – Special Session.....	8:30 AM – 5:00 PM
Offshore Aquaculture	8:30 AM – 5:00 PM
Diversity and Inclusion – Sea Grant and SK Will Do Another Grants Panel.....	8:30 AM – 5:00 PM
Life Support Systems	10:30 AM – 12:30 PM
Shellfish Genetics and Genomics.....	10:30 AM – 5:00 PM
Ornamentals.....	1:30 PM – 5:00 PM
Expanding the Horizons of Aquaculture Through Culture of Emerging Species:	
A Status Report	1:30 PM – 5:00 PM
Aquaculture Knowledge from Old Coots Reprised	1:30 PM – 5:00 PM
USDA Deep Dive.....	1:30 PM – 5:00 PM
Workforce Development.....	1:30 PM – 5:00 PM

Thursday, March 3

US Marine Finfish Aquaculture.....	8:30 AM – 10:00 AM
Regional Shellfish Seed Biosecurity Program (RSSBP).....	8:30 AM – 10:00 AM
Shellfish Contamination	8:30 AM – 10:00 AM
Wild Culture Interactions: Ecological and Genetic.....	8:30 AM – 10:00 AM
Alternative Protein for Seafood Production Systems	8:30 AM – 12:30 PM
StriperHub.....	8:30 AM – 12:30 PM
Policy & Regulatory – Contributed	8:30 AM – 12:30 PM
Aquaculture and Shellfish Planning Initiatives.....	8:30 AM – 12:30 PM
US Trout Farmers Association Trout Forum	8:30 AM – 12:30 PM
Value of Veterinary Services.....	8:30 AM – 12:30 PM
Olympia Oysters.....	8:30 AM – 3:00 PM
Shrimp Health and Disease in Honor of Don Lightner.....	8:30 AM – 5:30 PM
Social License and Perceptions of Aquaculture.....	11:00 AM – 3:00 PM
Shellfish Disease.....	11:00 AM – 5:30 PM
California's Aquaculture Journey: Where We've Traveled / Where We're Headed	11:00 AM – 5:30 PM
Germplasm Repositories	1:30 PM – 3:00 PM
Finfish Biology – Contributed	1:30 PM – 5:30 PM
AES Session	1:30 PM – 5:30 PM
NOAA Sea Grant Program.....	1:30 PM – 5:30 PM
Utilizing Veterinarians for Bottom Line.....	1:30 PM – 5:30 PM
Aquaculture Regulations: Navigating Cost, Complexity and Consequences.....	1:30 PM – 5:30 PM
Diversity and Inclusion in US Aquaculture.....	3:30 PM – 5:30 PM
Oysters – Contributed	3:30 PM – 5:30 PM
The Seafood Service Sector and Aquaculture: A Panel on Perceptions and Purchasing	3:30 PM – 5:30 PM
Getting it Right: A Guide to Successful Supplementation for Recreation, Restoration, and Recovery	3:30 PM – 5:30 PM

Friday, March 4

Vibrio (Human Health).....	8:30 AM – 10:00 AM
Finfish Genetics.....	8:30 AM – 10:00 AM
East Coast Shellfish Restoration and Conservation	8:30 AM – 12:30 PM
Shrimp and Other Crustaceans - Contributed	8:30 AM – 12:30 PM
Scallops	8:30 AM – 12:30 PM
Genetic Engineering	8:30 AM – 12:30 PM
Aquaculture Opportunity Areas - Updates.....	8:30 AM – 12:30 PM
Climate Change in Aquaculture.....	8:30 AM – 3:00 PM
Fish Nutrition and Feeds – Contributed.....	8:30 AM – 5:00 PM
Parasites of Shrimp and Fish.....	8:30 AM – 5:00 PM
Aquaponics - Freshwater	8:30 AM – 5:00 PM
Aquaculture Education, Extension and Outreach	8:30 AM – 5:00 PM
Vibriosis in Aquaculture	10:30 AM – 12:30 PM
Tilapia	10:30 AM – 5:00 PM
Ecology and the Environment - Contributed.....	1:30 PM – 3:00 PM
Abalone.....	1:30 PM – 5:00 PM
Harmful Algal Blooms (Others and Cyanobacteria).....	1:30 PM – 5:00 PM
Marine Protected Resources Risk Mitigation Techniques.....	1:30 PM – 5:00 PM
Aquaculture for Ecosystem Outcomes.....	1:30 PM – 5:00 PM
Aquaculture 101.....	1:30 PM – 5:00 PM
Aquaculture - General Contributed.....	3:30 PM – 5:00 PM
Climate Change in Aquaculture - Panel Discussion.....	3:30 PM – 5:00 PM

Aquaculture 2022

Sessions by Day

	Day/Time	Town & Country B	Town & Country C	Town & Country D	Palm 564	Pacific C	Palm 8	Palm 1	Pacific D	Palm 566	Palm 7	Pacific E	Palm 2	Day/Time
	Day/Time	400	400	400 seats	130	200	90	80	200	120	107	200	80 seats	
Tue Mar 1	8:30 - 10:00	Plenary in Pacific Ballroom												Tue Mar 1 8:30 - 10:00
6 units	11:00 - 12:30	Student Spotlight Talks	Federal Actions Supporting U.S. Aquaculture	RAS	Aquatic Veterinary Meds Fish Health Contributed	ONE HEALTH Epigenomes & Microbiomes	Mussels Clams Contributed	Macroalgae Aquaculture Supporting an Emerging Industry	Zebrafish	Down on the Farm	IAAEM Economics and Markets	PITTC-VI	Shrimp Nutrition Catfish	11:00 - 12:30 1:30 -
14 units	5:00	Workshop												14 units 5:00
5:00 - 6:00		Posters and Happy Hours												5:00 - 6:00
7:00 - 10:00		Student Reception & NSA Fundraiser												7:00 - 10:00
Wed Mar 2	8:30 - 10:00	Offshore Aquaculture	Drug Updates and Indexing	Aquaponics Special Session	Larval Nutrition of Finfish	Shrimp Genome and Epigenome (Shrimp ENCODE) Project	Echinoderms Workforce Development	Diversity and Inclusion Sea Grant and SK	Zebrafish Continued	Optimizing Ecosystem	IAAEM Economics and Markets continued	PITTC-VI continued	Flatfish Life Support Systems Ornamentals	Wed Mar 2 8:30 - 10:00 10:30 - 12:30 1:30 -
8 units	10:30 - 12:30													8 units 12:30
14 units	1:30 - 5:00	USDA Deep Dive			Knowledge from Old Coats Reprised					Genetics and Genomics	Emerging Species			14 units 5:00
5:00 - 6:00		Posters and Happy Hours												5:00 - 6:00
6:00 - 8:30		NAA Auction												6:00 - 8:30
Thu Mar 3	8:30 - 10:00	Wild Culture Interactions	Value of Veterinary Services	StriperHub	Alternative Protein for Seafood Production Systems	Shrimp Health and Disease In Honor of Don Lightner	Shellfish Seed Biosecurity Shellfish Disease	Shellfish Contamination California's Aquaculture Journey	Aquaculture Planning Initiatives	Olympia Oysters	US Marine Finfish Aquaculture	Policy and Regulatory Contributed	USIFA Trout Forum	Thu Mar 3 8:30 - 10:00 11:00 - 12:30 1:30 - 3:00
6 units	11:00 - 12:30													6 units 12:30
6 units	1:30 - 3:00	Social License and Perceptions of Aquaculture	Veterinarians Utilizing Veterinarians for Bottom Line	Aquacultural Engineering Session	NOAA Sea Grant				Germplasm Repositories Drivers of Future Growth	Oyster Contributed	Finfish Biology Contributed	Aquaculture Regulations: Navigating Cost Consequences		6 units 3:00
8 units	3:30 - 5:30	Seafood Service Sector											Getting It Right	8 units 5:30
6:30 - 9:30		Presidents Reception												6:30 - 9:30
Fri Mar 4	8:30 - 10:00	Aquaculture Education Extension Outreach	Climate Change in Aquaculture	Fish Nutrition and Feeds Contributed	Parasites of Shrimp and Fish	Scallops Abalone	vibrio (human health) Vibrosis in Aquaculture	Aquaculture Opportunity Areas - Updates	East Coast Shellfish Restoration and Conservation	Shrimp and Other Crustaceans Contributed	Ecology and Environment	Genetic Engineering	Marine Protected Resources Risk Mitigation	Fri Mar 4 8:30 - 10:00 10:30 - 12:30 1:30 - 3:00 3:30 - 5:00
6 units	10:30 - 12:30													6 units 10:00
8 units	12:30 - 1:30													8 units 12:30
6 units	1:30 - 3:00													6 units 3:00
6 units	3:30 - 5:00													6 units 5:00
5:00 - 6:00		Closing Happy Hour												5:00 - 6:00



ATTENDEE REGISTRATION FORM

Aquaculture 2022

February 28 - March 4 • San Diego, California

Return address for payments in USD:
 AQUACULTURE 2022
 Conference Manager
 P.O. Box 2302
 Valley Center, CA 92082 USA
 Tel: +1 760 751 5005
 Fax: +1 760 751 5003
 Email: worldaqua@was.org

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

NAME BADGE INFORMATION: (As you want your name badge to read - No titles, please)

First Name _____ SURNAME (FAMILY NAME) _____

Company / Institution _____
 (Limited to 40 Letters & Spaces)

Country _____

MAILING INFORMATION: Email _____

Address _____

City _____ State / Prov _____ Postal Code _____ Country _____

Tel _____ Fax _____ Title: (circle one) Dr. Mr. Ms. Mrs.

(Include country and area code)

(Include country and area code)

REGISTRATION FEES: In order to receive the discount rates as listed below, this form and payment must be received by the date listed.

TYPE OF REGISTRATION <i>Check the appropriate boxes</i>	Register by January 21, 2022	Register by February 15, 2022	Register after February 15, 2022	<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>
MEMBER RATE*	<input type="checkbox"/> US\$ 495	<input type="checkbox"/> US\$ 595	<input type="checkbox"/> US\$ 695	
STUDENT MEMBER RATE* <i>Include copy of Student I.D.</i>	<input type="checkbox"/> US\$ 260	<input type="checkbox"/> US\$ 260	<input type="checkbox"/> US\$ 325	
Non-Member Rate	<input type="checkbox"/> US\$ 590	<input type="checkbox"/> US\$ 690	<input type="checkbox"/> US\$ 790	
Student Non-Member Rate <i>Include copy of Student I.D.</i> You can join WAS on the reverse side and use the Member Rate.	<input type="checkbox"/> US\$ 330	<input type="checkbox"/> US\$ 330	<input type="checkbox"/> US\$ 390	
<input type="checkbox"/> Spouse Rate Name _____	<input type="checkbox"/> US\$ 395	<input type="checkbox"/> US\$ 495	<input type="checkbox"/> US\$ 595	
<p>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 <input type="checkbox"/> US\$ 50 TOTAL TRADE SHOW PASS US\$ _____</p>				
<p>INDUSTRY TOURS See website for current tour information</p>				
<p>MEMBERSHIP DUES - Enter amount from Membership Application on other side if applicable.</p>				<p>TOTAL MEMBERSHIP DUES US\$ _____</p>
<p>Do not mail registration after Jan. 31, 2022 or fax after Feb. 20, 2022. After those dates, bring this form with you to register at the show.</p>			<p>➔ TOTAL AMOUNT US\$ _____</p>	

Registration Confirmation and Receipt will be emailed after processing.

CANCELLATION POLICY: Cancellation of registration must be received - in writing - no later than February 1, 2022. 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 February 1, 2022 or for "no shows". After February 1, 2022, 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 AQUACULTURE 2022.

☐ Check # _____ ☐ Visa ☐ Mastercard ☐ American Express

Card # _____ Expiration Date _____ Security Code _____

Name on Card _____ Signature _____ Date _____

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 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"/> Aquacultural Engineering Society | <input type="checkbox"/> Fish Culture Section - AFS | <input type="checkbox"/> Southern African Aquaculture Society |
| <input type="checkbox"/> Aquaculture Association of Canada | <input type="checkbox"/> Global Aquaculture Alliance | <input type="checkbox"/> Spanish Aquaculture Association (SEA) |
| <input type="checkbox"/> Aquaculture Without Frontiers | <input type="checkbox"/> Korean Aquaculture Society | <input type="checkbox"/> US Trout Farmers Association |
| <input type="checkbox"/> Asian Fisheries Society | <input type="checkbox"/> Malaysian Fisheries Society | <input type="checkbox"/> World Aquaculture Society |
| <input type="checkbox"/> California Aquaculture Association | <input type="checkbox"/> National Aquaculture Association | <input type="checkbox"/> World Aquatic Veterinary Medical Association |
| <input type="checkbox"/> China Society of Fisheries | <input type="checkbox"/> National Shellfisheries Association | <input type="checkbox"/> Zebrafish Husbandry Association |
| <input type="checkbox"/> Egyptian Aquaculture Society | <input type="checkbox"/> Sociedad Brasileira de Acuicultura | |
| <input type="checkbox"/> European Aquaculture Society | <input type="checkbox"/> Society of Aquaculture Professionals (India) | |

MEMBERSHIP APPLICATIONS

☐ NEW APPLICATION

☐ RENEWAL

FISH CULTURE SECTION OF AMERICAN FISHERIES SOCIETY

☐ **FCS Membership for Current AFS members** \$5.00

All FCS members must be full members of the American Fisheries Society

Join or pay your membership dues online at fishculture.fisheries.org

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** (E Access) (USD 45/yr) Applies to an individual only
- ☐ **Student** (Electronic JWAS) (USD 45/yr) (Copy of Student ID or Signature of Professor required)
- ☐ **Sustaining** (Electronic JWAS) (USD 105/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
- ☐ **Lifetime** (Electronic JWAS only) (USD 1000 with no chapter) Applies to an individual only
- ☐ **Lifetime** (Electronic JWAS only) (USD 1100 with one chapter) Applies to an individual only

CHAPTER OPTIONS:

One chapter included in membership.
Mark the chapter you choose.

- ☐ **Africa**
- ☐ **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.

NATIONAL SHELLFISHERIES ASSOCIATION

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

www.shellfish.org

MEMBERSHIP CATEGORY: (Indicate only one)

- ☐ **Regular** (USD 95/yr)
- ☐ **Student** (USD 50/yr)
- ☐ **Sustaining** (USD 200/yr)

Includes subscription to the *Journal of Shellfish Research*

Signature of Professor or copy of Student ID required

Total Amount for NSA Membership USD _____

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: +1-850-216-2400 Fax: +1-850-216-2480 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 worldaqua@was.org.*

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 #J770126.

HOTELS

We have arranged for fantastic rates at the recently renovated Town and Country Resort and Conference Center. You can reserve your room by phone or on their website.

Check the conference website for details.

OUR FULL CONFERENCE REGISTRATION INCLUDES:

- Admission to all conference sessions and the trade show
- Admission to the receptions
- Conference Bag and Show Directory
- Refreshment Breaks and Happy Hour
- Abstract Book on USB
- 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.

WORKSHOP

Statistics in Aquaculture Workshop: Moving Beyond ANOVA: Common Problems in the Analysis of Aquaculture Data

February 28, 2022 9:00 am - 4:00 pm

Workshop Content

"The focus will be on applied statistics with very little theory or equations"

Instructor: Todd Steury

See the website for more details: www.was.org

Pricing Base Price - \$300.00

US Chapter of WAS Member** - \$150.00

US Chapter of WAS Student Member - \$75.00

**WAS members can join USAS - only \$5.00

CAA TOURS

**FEBRUARY 28 (9:00AM - 12:30PM): MORNING
LEON RAYMOND, JR., MARINE FISH HATCHERY TOUR**

Summary: A two hour, behind the scenes tour of the Leon Raymond, Jr., Marine Fish Hatchery located in Carlsbad, California. This unique Hubbs-SeaWorld Research Institute facility, which was built in 1995, is the home base for their white seabass stock enhancement program. Tour participants will see all aspects of this working marine fish hatchery including broodstock holding, early larval rearing, and juvenile production systems, as well as tagging operations. The tour bus will leave the conference site at 9:30am and will return at 1:00pm.

Guests: Up to 54

Time: 3.5 hours (9:00am - 12:30pm)

Price: \$75 per person

**FEBRUARY 28 (12:30PM - 4:00PM): AFTERNOON
LEON RAYMOND, JR., MARINE FISH HATCHERY TOUR**

Summary: A two hour, behind the scenes tour of the Leon Raymond, Jr., Marine Fish Hatchery located in Carlsbad, California. This unique Hubbs-SeaWorld Research Institute facility, which was built in 1995, is the home base for their white seabass stock enhancement program. Tour participants will see all aspects of this working marine fish hatchery including broodstock holding, early larval rearing, and juvenile production systems, as well as tagging operations. The tour bus will leave the conference site at 9:30am and will return at 1:00pm.

Guests: Up to 54

Time: 3.5 hours (12:30pm - 4:00pm)

Price: \$75 per person

Stay in touch with the program developments for

Aquaculture 2022

through our Web Page at:

www.was.org

<https://fishculture.fisheries.org>

www.shellfish.org



TENTATIVE SCHEDULE

Monday, February 28

Exhibit Set-up.....	10:00 – 6:00
Registration Open	12:00 – 6:00
Welcome Reception	6:00 – 8:00

Tuesday, March 1

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

Wednesday, March 2

Registration Open	7:30 – 5:00
Sessions	8:30 – 10:00
Trade Show Open.....	10:00 – 6:00
Refreshment Break.....	10:00 – 10:30
Sessions	10:30 – 12:30
Lunch (on your own).....	12:30 – 1:30
Sessions	1:30 – 5:00
Happy Hour & Posters.....	5:00 – 6:00
NAA Auction	6:00 – 7:30

Thursday, March 3

Registration Open	7:30 – 5:00
Sessions	8:30 – 10:00
Trade Show Open.....	10:00 – 1:30
Refreshment Break.....	10:00 – 11:00
Sessions	11:00 – 12:30
Lunch (on your own).....	12:30 – 1:30
NSA Members Luncheon	12:30 – 2:00
Sessions	1:30 – 3:00
Exhibit Move-out	1:30 – 5:00
Refreshment Break.....	3:00 – 3:30
Sessions	3:30 – 5:30
Presidents Reception	6:00 – 8:00

Friday, March 4

Registration Open	8:00 – 5:00
Sessions	8:30 – 10:00
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 – 5:00
Closing Happy Hour.....	5:00 – 6:00