

**23<sup>rd</sup> Annual**

N O R T H C A R O L I N A

# **AQUACULTURE**

## **DEVELOPMENT CONFERENCE**

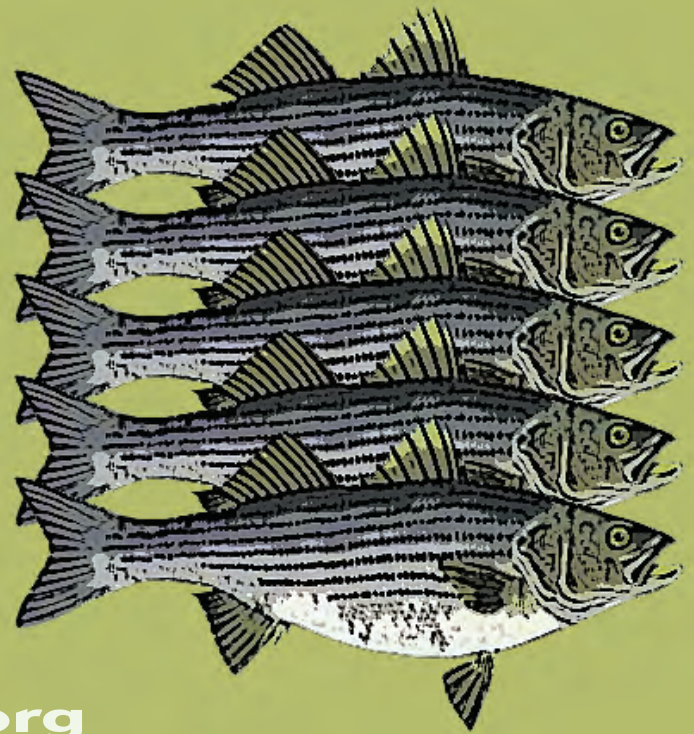
**Sheraton Atlantic Beach • Atlantic Beach, North Carolina**

**Tour:**

**February 10, 2011**

**Conference:**

**February 11-12, 2011**



**Register online at:**

**[www.ncaquaculture.org](http://www.ncaquaculture.org)**

***Harvesting Fresh Ideas***

# Thursday, February 10

## Aquaculture Farm Tour Agenda

Drive from Atlantic Beach to Wallace  
8:30-10:00

Tour Carolina Flounder, Wallace,  
Keith Hairr owner/operator  
10:00-10:45

Drive to Southeast Pond Stocking  
facility, Currie  
10:45-11:15

Tour Southeast Pond Stocking  
facility, Kevin Patterson, owner/  
operator  
11:15-12:00

Drive to UNC-Wilmington  
Aquaculture Research Facility,  
Wrightsville Beach

Lunch on your own  
12:00-1:30

Tour UNC-Wilmington Aquaculture  
Research Facility  
1:30-3:00

Return to Atlantic Beach (about 2.5  
hours drive)  
3:00-4:30

## Sponsors

NC Aquaculture Association  
NC Department of Agriculture &  
Consumer Services

NC Farm Bureau Federation

NC Sea Grant Program

NC Shellfish Growers Association

NC Small Business & Technology  
Development Center

NC State University College of Agriculture  
& Life Sciences

In Cooperation with:

Waterlife Design Group

Southern Aquaculture Supply

Carolina Classics Catfish, Inc.

## Meet our Speakers



**David Alves**

David Alves is a fishery management specialist with the National Oceanic and Atmospheric Administration (NOAA) Northeast Regional Office in Gloucester, Massachusetts where he works on issues related to fish and shellfish farming, permitting and policy in the region. Before joining NOAA in 2009, David spent 10 years as the aquaculture coordinator for the State of Rhode Island. His experience also includes Marine BioTech Inc., Beverly, Massachusetts, where he designed recirculating aquaculture systems and research animal holding systems for academic and commercial use.



**Tom Ellis**

Now the retired Director of Aquaculture and Natural Resources, NCDA&CS, Tom was actively involved in numerous state and federal programs related to agricultural water quality, effluent management and advancing aquaculture. Currently he serves as the Agricultural Member of the NC Environmental Management Commission and serves on the EMC Water Quality, Groundwater and Renewable Energy Committees. Tom also represents the EMC on the Coastal Habitat Protection Plan Implementation Committee. Tom also works with the NC Grange on natural resource issues, which involves membership on various advisory bodies including the Agricultural Taskforce and Technical Review Committees to the NC Soil and Water Conservation Commission.



**Andy Goodwin**

Andy Goodwin is a professor at the University of Arkansas at Pine Bluff where he teaches graduate and undergraduate classes in fish physiology and fish pathology, conducts research, and oversees four fish disease diagnostic laboratories that handle more than 2,000 cases per year from all over the US. His laboratory performs health inspections on tens of thousands of fish annually and he spends much of his time helping farmers negotiate the intricacies of interstate and international fish health regulations. Perhaps his most important role is explaining regulators to fish farmers, fish farmers to regulators, and desperately trying to get everyone to make good decisions based on science instead of politics and perception.



**Steven Hedlund**

Steven Hedlund is editor of SeafoodSource.com, one of the world's most trusted and reliable sources of global seafood news. Steve has 11 years of seafood journalism experience, beginning with *SeaFood Business* magazine and Gofish.com. During his tenure at *SeaFood Business*, he wrote in-depth feature stories about a plethora of seafood-related topics, from the politics of international trade to the intricacies of the global shrimp trade. As editor of SeafoodSource.com he oversees the site's editorial content and direction and manages an editorial team scattered across the globe.



**Craig Watson**

Craig Watson a native of Miami, began his career at a tropical fish farm in 1974. He joined the University of Florida as a multi-county aquaculture extension agent in April of 1988. In 1997 he was appointed director and research coordinator for the newly established Tropical Aquaculture Laboratory in Ruskin. His primary interests are in development of techniques for commercial production of new species, drug and chemical labeling and public policy issues.

# Friday, February 11

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- 8:00 **Registration and Trade Show Opens**
- 9:00 **Welcome**
- 9:05 **State and National Overview**  
Tom Losordo, North Carolina State University
- 9:35 **State Aquaculture Research Update**  
Harry Daniels, North Carolina State University and Wade Watanabe, UNC-Wilmington
- 10:15 **Break/Visit Trade Show**
- 10:45 **Avoiding the Pitfalls of Aquaculture**  
Craig Watson, University of Florida
- 11:30 **Break/Visit Trade Show**
- 12:00 **Lunch**
- 1:00 **Keynote Address: The Future of Global Aquaculture, and its Role in Influencing Seafood-buying Trends**  
Steve Hedlund, Editor, SeafoodSource.com
- 1:30 **Break/Visit Trade Show**
- 2:00 **Shellfish Aquaculture Development in Rhode Island, Lessons Learned From a Decade of Cooperative Development**  
David Alves, National Oceanic and Atmospheric Administration
- 2:30 **NC Aquaculture Water Use and Recent NC Water Issues**  
Tom Ellis, NC Environmental Management Commission
- 3:00 **Recirculating Aquaculture Production Systems: an Update of Available Technology**  
Tom Losordo, North Carolina State University
- 3:30 **How to Keep Fish Diseases From Affecting Your Farm's Bottom Line**  
Andy Goodwin, University of Arkansas at Pine Bluff
- 4:00 **Adjourn/Visit Trade Show**
- 4:30 **NC Aquaculture Association Meeting**  
Sand Castles Meeting Room
- 6:00 **Aqua-Food Fest Social**
- 6:30 **Aqua-Food Fest**

# Saturday, February 12

## Aquaculture Diversification and Disease Management

8:30 - 10:00

**The Ornamentals Aquatic Trade**  
Craig Watson, University of Florida,

**The Latest News about Fish Diseases and Treatments**

Andy Goodwin, University of Arkansas at Pine Bluff

**Break**

10:00 - 10:15

## Concurrent Workshops:

10:15 - 11:30

### Getting Started In Pond Aquaculture

**Aquaculture Economics and Permitting Aquaculture Facilities in NC**  
Steve Gabel, North Carolina State University Cooperative Extension

**Choosing Your Aquaculture Site: Land and Water Requirements**  
Steve Gabel, North Carolina State University Cooperative Extension

**Aquaculture in North Carolina: Species Selection and Production**  
Mike Frinsko, North Carolina State University Cooperative Extension

### Shellfish Aquaculture

**NC Shellfish Industry Update and Developing Tools for Growth**  
Marc Turano, NC Sea Grant

**Evaluation of Genetic Differentiation and Disease Status of North Carolina Populations of the Eastern Oyster, *Crassostrea virginica***  
Ami Wilbur, University of North Carolina Wilmington

**Comparison of Oyster Seed Stock Performance in Floating Bag Culture Systems**  
Richard Farris, Carteret Community College

**North Carolina Shellfish Growers Association Meeting**

Register online at:  
[www.ncaquaculture.org](http://www.ncaquaculture.org)

# Registration

Register online at [www.ncaquaculture.org](http://www.ncaquaculture.org)

PLEASE PRINT CLEARLY OR TYPE ALL REQUESTED INFORMATION.

**Badge Information:** (As you want your name badge to read. No titles, please.)

First name: \_\_\_\_\_

Last name: \_\_\_\_\_

Company or Institution: \_\_\_\_\_

Additional names registered: \_\_\_\_\_  
(Please indicate type of registration with each additional name)

## Mailing Information:

E-mail (Please include email): \_\_\_\_\_

Phone: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

## Registration Fees:

Type of Registration	Until February 3, 2011	After February 3 or On-site
Full Registration (includes AquaFood Festival)	# _____ @ \$95	# _____ @ \$150
Conference Presentations only	# _____ @ \$75	# _____ @ \$130
Student Registration (includes AquaFood Festival)	# _____ @ \$45	# _____ @ \$65
AquaFood Festival only	# _____ @ \$35	# _____ @ \$45
Trade Show Booth (includes one Full Conference Registration)	# _____ @ \$300	# _____ @ \$300

Total Registration Fee \$ \_\_\_\_\_

Please do not mail registrations after January 28, 2011 or fax after February 4, 2011.

Registration Confirmation and Receipt will be e-mailed after processing.

## Payment Method:

Check # \_\_\_\_\_  VISA  MasterCard  
(Make check payable to NC Aquaculture Development Conference.)

\_\_\_\_\_ Card # \_\_\_\_\_ Expiration Date (mm/yy) \_\_\_\_\_ Security Code \_\_\_\_\_

\_\_\_\_\_ Name on Card \_\_\_\_\_ Authorized Signature \_\_\_\_\_

Credit card will be billed as NC State University

## Information

**Trade Show:** Dennis DeLong (919) 513-2106, [dennis\\_delong@ncsu.edu](mailto:dennis_delong@ncsu.edu)

**Conference:** Cathy Smith (919) 515-6780, [cathy\\_smith@ncsu.edu](mailto:cathy_smith@ncsu.edu)

## Who Should Attend?

Anyone with an interest in fish or shellfish farming, including prospective growers, researchers, teachers, students or agency persons with jobs related to aquaculture. The conference is also suited to persons who sell goods or services to the aquaculture industry.

## Accommodations

### Sheraton Atlantic Beach Oceanfront Hotel

2717 West Fort Macon Road  
PO Box 3040  
Atlantic Beach, NC 28512

(800) 624-8875

Fax: (252) 240-1452

[www.sheratonatlanticbeach.com](http://www.sheratonatlanticbeach.com)

[info@sheratonatlanticbeach.com](mailto:info@sheratonatlanticbeach.com)

Conference rates\*

\$65.90 Oceanview

\$89.00 Oceanfront

\$119.00 Oceanfront Suite

\*Rates do not include sales or occupancy taxes.

For rate guarantee, reservations must be made by 01/13/2011. Mention the NC Aquaculture Development Conference when you call.

When making reservations online at <http://www.sheratonatlanticbeach.com/> enter conference code NCADC2011 when prompted.

## To Register

Register online at [www.ncaquaculture.org](http://www.ncaquaculture.org)

Or return this registration form with payment to:

NC Aquaculture  
Development Conference

Attention: Cathy Smith

Campus Box 7625

NC State University

Raleigh, NC 27695

Registration can be faxed to (919) 515-6772; payment by credit card (will be billed as NC State University)

Refund requests received by January 28, 2011 receive a 75% refund of the purchase price. Requests must be made in writing. All others will be considered depending on circumstances.