

NACE/MAS Aquaculture Conference Schedule					
Wednesday, January 14					
8:00 AM - 5:00 PM Recirculating Aquaculture Systems Workshop (Connecticut/Rhode Island Room)					
Field Trips (meet in the Hotel Lobby) Bigelow Laboratory, Darling Marine Center & Mook SeaFarm tour (departs at 8:30 AM) University of New England Aquaculture Facilities tour (departs at 9:00 AM) Portland Fish Exchange, Gulf of Maine Research Institute & Fish Vet Group tour (departs at 10:00 AM) Ocean Approved & Trundy Point Farm Tours (departs at 10:00 AM)					
12:00 PM - 5:30 PM Aquaculture Research & Development Networking Forum (New Hampshire Room)					
4:00 PM Registration opens in the Hotel Lobby					
7:00 PM Opening Reception in the Casco Bay Exhibit Hall (trade show opens)					
Thursday, January 15					
7:00 AM Registration in Hotel Lobby					
8:00 AM Breakfast in Casco Bay Exhibit Hall					
8:00 AM Plenary Session in the State of Maine Ballroom (Vermont/New Hampshire) Rapid fire industry updates of issues facing the northeastern states and maritime provinces					
9:30 AM Break & Trade Show Opens in the Casco Bay Exhibit Hall					
	Vermont General Aquaculture Chair: <i>Walter Błogostawski</i>	New Hampshire Seaweed Farming Co-Chairs: <i>Jang Kim, Sarah Redmond & Charles Yarsik</i>	Massachusetts Vibrios in Shellfish: Public Health Management and Research Chair: <i>Steve Jones</i>	Rhode Island Predators, Nuisance Species and Biofouling Chair: <i>Sandra Shumway</i>	Connecticut General Shellfish Chair: <i>Lisa Milke</i>
10:00 AM	Aquaculture as a vital component of the new ocean clusters at the University of New England <i>Barry Costa-Pierce</i>	Introduction to the kelp nursery technologies: Wild-sourced seeding and hybridization <i>Jang Kim</i>	Genetic characterization of clinical and environmental <i>Vibrio parahaemolyticus</i> from the northeastern US reveals emerging resident and invasive pathogen lineages <i>Feng Xu</i>	Aquatic invasive species in Prince Edward Island, Canada: A look at industry innovation <i>Kim Gill</i>	The Connecticut shellfish initiative: building on the past and creating a vision for the future <i>Tessa Getchis</i>
10:15 AM	Demonstration of living shoreline technology on Martha's Vineyard, MA <i>Emma Green-Beach</i>	Introduction to the kelp farming technologies: Open water farming <i>Sarah Redmond</i>	<i>Vibrio parahaemolyticus</i> prevalence in Maine oysters <i>Cem Giray</i>	Why sea ducks forage in mussel farms? Preferences and efficiencies when foraging on cultivated or intertidal mussels <i>Elisabeth Varennes</i>	Development of Maryland shellfish aquaculture: a ten-year assessment <i>Don Webster</i>
10:30 AM	Getting the N out - a search for bioremediation alternatives to sewage treatment <i>Richard Karney</i>	Development of a cultivation program for a morphologically distinct strain of the sugar kelp, <i>Sargassum muticum</i> forma <i>angustissimum</i> from Southern Maine <i>Simona Augyte</i>	<i>Vibrio parahaemolyticus</i> control for oysters in Massachusetts <i>Christopher Schillaci</i>	High brightness LEDs deter eider predation at mussel rafts <i>Donald Ranning</i>	Comparison of bottom and floating gear for growing and floating gear (<i>Crossostrea virginica</i>) in Southeastern Massachusetts <i>Abigail Archer</i>
10:45 AM	Eastern Maine Skippers Program: 21st Century Pedagogy found on the water, on the shore and in eastern Maine schools <i>David Mckechnie</i>	Kelp farm design for Long Island Sound <i>Clifford A. Goudey</i>	Connecticut's <i>Vibrio parahaemolyticus</i> control plan and monitoring program <i>Kristin Derosiá-Banick</i>	Sea duck predation in mussel farms: the best nets for excluding common eiders safely and efficiently <i>Elisabeth Varennes</i>	Arctic surfclam, <i>Macromerus polymyrmus</i> , Culture at the Downeast Institute: exploring methods to diversify domestic seafood by creating a new, farmed-raised scallop <i>Brian Beal</i>
11:00 AM	Maine seafood study: a look at the integration of Maine seafood into food distribution systems <i>Hugh Cowperthwaite</i>	Experience with the culinary industry: Developing new seaweed products <i>Paul Debbins</i>	Effect of intertidal exposure on <i>Vibrio parahaemolyticus</i> levels in Delaware Bay oysters <i>Lisa Calvo</i>	Novel anti-predator coatings for shellfish aquaculture <i>Daniel Ward</i>	Fresh local shrimp in the northeast: can recirculating systems make it happen? <i>Josh Reitsma</i>
11:15 AM	Capitalizing on waste streams in aquaculture <i>Patrick Arnold</i>	Training guidance to new kelp growers <i>Bren Smith</i>	Development and application of a duplex qPCR for the detection of <i>Vibrio parahaemolyticus</i> and <i>Vibrio vulnificus</i> in enriched oyster homogenates from Rhode Island and Massachusetts <i>Kathryn Markey</i>	Development of novel antifouling coatings for the aquaculture industry <i>Alex Walsh</i>	An initial look at batch culture of juvenile American lobsters, <i>Homarus americanus</i> , at the Sound School Aquaculture Center <i>Sarah Vedder</i>
11:30 AM	Common mistakes for new growers to avoid <i>Susan Brawley</i>	Development of liver, gut, and alaria in the University of Maine's Sea Vegetable Nursery Facility <i>Susan Brawley</i>	Human health safety considerations for using <i>Vibrio</i> sp. Probiotic strain oY15 as a feed supplement to improve survival of larvae of the eastern oyster (<i>Crossostrea virginica</i>): genome sequencing and mammalian cytotoxicity assay <i>Diane Kaparekio</i>	Treatments to eradicate bacterial fouling from blue mussel seed and aquaculture bags <i>Mary Carmen</i>	Summaring Milford Laboratory's research on the ecological effects of hydraulic dredging, as used in clam cultivation in Long Island Sound <i>Ronald Goldberg</i>
11:45 AM	Seaweed Farming in the Northeast Atlantic: A Roundtable Discussion <i>Robert Rheault</i>	Seaweed Farming in the Northeast Atlantic: A Roundtable Discussion <i>Yarish, Redmond & Kim</i>	Long-term trends of pathogenic <i>Vibrio</i> sp. Populations in New Hampshire oysters <i>Stephen H. Jones</i>	Two potential passive anti-predator techniques for longline mussel culture <i>Marcel Fréchet</i>	Discussion
12:00 PM Lunch in the Casco Bay Exhibit Hall Special Guest Speaker John Bullard					
	Vermont Ocean Planning for Offshore Aquaculture Chair: <i>John Weber</i>	New Hampshire Finfish Chair: <i>William Wolters</i>	Massachusetts Shellfish Farming 101 Co-Chairs: <i>Gef Filimin, Dale Leavitt & Bob Rheault</i>	Rhode Island Mussel Farming Chair: <i>Scott Lindell</i>	Connecticut Sustainability Chair: <i>Paul Anderson</i>
1:30 PM	Selection responses for carcass weight in four Atlantic salmon year classes <i>William Wolters</i>	Investigating factors contributing to reduced embryo survival in farm-raised Atlantic salmon, <i>Salmo salar</i> <i>Leanne Thyner</i>	Initiating a shellfish culture operation can be quite challenging. This workshop will focus on several of the basic concepts that new growers must face when starting a shellfish aquaculture business. The session will cover the basics of shellfish animal husbandry; an overview of nursery and growout techniques for dams and oysters; common mistakes for new growers to avoid; recordkeeping makes good business sense; addressing hazards in shellfish farming/biosecurity; and niche marketing for oyster growers. <i>Nathaniel Mulcahy</i>	Advancing blue mussel longline aquaculture techniques in Rhode Island <i>Mason Silkes</i>	Sustainable Ecological Aquaculture Network (SEANET): A Maine EPSCoR Project <i>Paul Anderson</i>
1:45 PM	Research and development challenges leading to viable farming of <i>Anguilla rostrata</i> in North America <i>Paul Smith</i>	A strain comparison of striped bass cultured in salt water recirculating systems <i>Linus Kenter</i>	Structural and functional advantages of <i>Conus intestinalis</i> for use as fish feed <i>Nathaniel Mulcahy</i>	Establishing offshore mussel farms in federal waters <i>Edward (Ted) Maney Jr.</i>	Research to support aquaculture and fisheries: the sustainable ecological aquaculture and fisheries (seafish) programme at the University of New England <i>Adam St. Gelsis</i>
2:00 PM	Management, regulation and stock assessment for <i>Anguilla rostrata</i> <i>Mitchell Feigenbaum</i>	Student run recirculating aquaculture system for aquaculture of the kaimings variety of steelhead trout (<i>Oxyrinchus mykiss</i>) <i>Adam St. Gelsis</i>	Initial training of fishermen on small scale, integrated multi-trophic aquaculture in New Hampshire, USA <i>Michael Chambers</i>	Facts and figures for farming, business planning and marketing mussels <i>Scott Lindell</i>	An integrated ecological-economic modeling framework for the sustainable management of oyster farming <i>Carrie Byron</i>
2:15 PM	Discussion	Initial training of fishermen on small scale, integrated multi-trophic aquaculture in New Hampshire, USA <i>Michael Chambers</i>	Discussion	Annual consistency in blue mussel, <i>Mytilus edulis</i> , seed production using hatchery methods at the Downeast Institute <i>Brian Beal</i>	Research to support aquaculture and fisheries: the sustainable ecological aquaculture and fisheries (seafish) programme at the University of New England <i>Adam St. Gelsis</i>
2:30 PM	Discussion	Initial training of fishermen on small scale, integrated multi-trophic aquaculture in New Hampshire, USA <i>Michael Chambers</i>	Discussion	The effects of temperature and photoperiod on blue mussel (<i>Mytilus edulis</i>) health <i>Kyle Pfau</i>	Are the aquaculture practices sustaining our goal to restore oysters (<i>Crossostrea virginica</i>)? <i>Gulnihal Ozbay</i>
2:45 PM	Discussion	Initial training of fishermen on small scale, integrated multi-trophic aquaculture in New Hampshire, USA <i>Michael Chambers</i>	Discussion	Hydrodynamics and mussel raft technology <i>Carter Newell</i>	Building a national financing fund for responsible fisheries and aquaculture businesses <i>Richard Clime</i>
3:00 PM	Break at the Casco Bay Exhibit Hall				
	Vermont ESGA Annual Meeting Chair: <i>Bob Rheault</i>	New Hampshire Eel Culture Symposium Chair: <i>Barry Costa-Pierce</i>	Massachusetts Use of Instrumentation for Aquaculture Site Selection and Water Quality Monitoring Co-Chairs: <i>Dale Leavitt & Chris Davis</i>	Rhode Island Mussel Farming Chair: <i>Scott Lindell</i>	Connecticut NE Oyster Breeding Update and Roundtable Chair: <i>Paul Rawson</i>
3:30 PM	Eel aquaculture team: a partnership to develop eel aquaculture and enhance eel value chains <i>Barry Costa-Pierce</i>	Research and development challenges leading to viable farming of <i>Anguilla rostrata</i> in North America <i>Paul Smith</i>	Identification of optimal aquaculture sites and monitoring the water quality on those sites depends on a variety of physical, chemical and biological factors such as bathymetry, currents, temperature, salinity, dissolved oxygen, turbidity and phytoplankton abundance. This hands-on workshop will demonstrate a wide range of instruments available to aquaculturists and how they can be used to assist growers in site selection and monitoring water quality both shore-side and out on the farm. <i>Ian Jeffords</i>	Mussel farming - a vertical integration approach - it's risks and rewards <i>Ian Jeffords</i>	Disease-resistance and improved performance for genetically improved and cross-bred eastern oysters (<i>Crossostrea virginica</i>): results from a decade of field trials in New England <i>Paul Rawson</i>
3:45 PM	Discussion	Research and development challenges leading to viable farming of <i>Anguilla rostrata</i> in North America <i>Paul Smith</i>	Discussion	Mussel farming in state and federal waters of southern New England <i>Scott Lindell</i>	Performance of selectively-bred lines of Eastern oysters, <i>Crossostrea virginica</i> , at different locations along the east coast of the United States <i>Marta Gomez-Chiarri</i>
4:00 PM	Discussion	Research and development challenges leading to viable farming of <i>Anguilla rostrata</i> in North America <i>Paul Smith</i>	Discussion	Mussel farming in state and federal waters of southern New England <i>Scott Lindell</i>	Performance of selectively-bred lines of Eastern oysters, <i>Crossostrea virginica</i> , at different locations along the east coast of the United States <i>Marta Gomez-Chiarri</i>
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5:00 PM	Poster Session & Happy Hour in the Casco Bay Exhibit Hall				
7:00 PM Dinner on your own out on the town					
Friday, January 16					
7:00AM Registration in the hotel lobby					
7:00AM Breakfast in the Casco Bay Exhibit Hall					
	Vermont US/Canada Roundtable Chair: <i>Dana Morse</i>	New Hampshire Green Crabs I Chair: <i>Joe Buttner</i>	Massachusetts General Shellfish Chair: <i>Lisa Milke</i>	Oxford/Somerset The Billion Oyster Project: Engaging Students in the Restoration of a Degraded Estuary Chair: <i>Peter Malanowski</i>	Kennebec/Lincoln Preparation of Shellfish for Disease Diagnostics I Co-Chairs: <i>Dale Leavitt & Roxanna Smolowitz</i>
8:30 AM	Green crab, <i>Carcinus maenas</i> , wars in southern Maine: managing public shellfish stocks during times of exploding predator abundance <i>Brian Beal</i>	Green crab, <i>Carcinus maenas</i> , wars in southern Maine: managing public shellfish stocks during times of exploding predator abundance <i>Brian Beal</i>	Remote setting training program: supporting seed production for Maryland oyster growers <i>Don Webster</i>	Students of the aquaculture program at the New York Harbor School will present their work on the Billion Oyster Project (BOP) including the history of oyster restoration in New York Harbor, Harbor School's work to date and the development of the BOP. The aquaculture students will discuss how they work with other career and tech ed programs at Harbor School to restore oysters to New York Harbor. A detailed overview of the oyster cultivation process and the future plans of the BOP will be discussed. Students will also present short explanations of their own research projects. These projects are designed to better understand and improve on the oyster cultivation techniques employed by the school. Finally, students will lead the audience in an oyster gardening workshop.	This hands-on laboratory will provide both practical experience and useful knowledge to culturist. In the first session, participants will examine the anatomy of 3 important bivalves, eastern oysters, surf clams (a proxy for hard clams), and sea scallops. Participants will learn how to identify disease abnormalities and evaluate the animal's condition. The how and why of sample submission to a diagnostic lab will be discussed.
8:45 AM	European green crabs in southern Maine marshes: trends in abundance and marsh impacts <i>Kristin Wilson</i>	European green crabs in southern Maine marshes: trends in abundance and marsh impacts <i>Kristin Wilson</i>	Derived macroalgae feed and its potential use in shellfish aquaculture <i>Zach Hope</i>	Students of the aquaculture program at the New York Harbor School will present their work on the Billion Oyster Project (BOP) including the history of oyster restoration in New York Harbor, Harbor School's work to date and the development of the BOP. The aquaculture students will discuss how they work with other career and tech ed programs at Harbor School to restore oysters to New York Harbor. A detailed overview of the oyster cultivation process and the future plans of the BOP will be discussed. Students will also present short explanations of their own research projects. These projects are designed to better understand and improve on the oyster cultivation techniques employed by the school. Finally, students will lead the audience in an oyster gardening workshop.	This hands-on laboratory will provide both practical experience and useful knowledge to culturist. In the first session, participants will examine the anatomy of 3 important bivalves, eastern oysters, surf clams (a proxy for hard clams), and sea scallops. Participants will learn how to identify disease abnormalities and evaluate the animal's condition. The how and why of sample submission to a diagnostic lab will be discussed.
9:00 AM	Northwest Atlantic population structure and gene flow in the green crab: an update on the crab's dynamic invasion front <i>April Blakeslee</i>	Northwest Atlantic population structure and gene flow in the green crab: an update on the crab's dynamic invasion front <i>April Blakeslee</i>	The effects of candidate probiotics on several species of cultured larvae shellfish <i>Saebom Sohn</i>	Students of the aquaculture program at the New York Harbor School will present their work on the Billion Oyster Project (BOP) including the history of oyster restoration in New York Harbor, Harbor School's work to date and the development of the BOP. The aquaculture students will discuss how they work with other career and tech ed programs at Harbor School to restore oysters to New York Harbor. A detailed overview of the oyster cultivation process and the future plans of the BOP will be discussed. Students will also present short explanations of their own research projects. These projects are designed to better understand and improve on the oyster cultivation techniques employed by the school. Finally, students will lead the audience in an oyster gardening workshop.	This hands-on laboratory will provide both practical experience and useful knowledge to culturist. In the first session, participants will examine the anatomy of 3 important bivalves, eastern oysters, surf clams (a proxy for hard clams), and sea scallops. Participants will learn how to identify disease abnormalities and evaluate the animal's condition. The how and why of sample submission to a diagnostic lab will be discussed.
9:15 AM	Economic assessment of using a commercial fishery to control the invasive green crab in PEI <i>Sophie St-Hilaire</i>	Economic assessment of using a commercial fishery to control the invasive green crab in PEI <i>Sophie St-Hilaire</i>	Microalgae concentrates: a "disruptive technology" that can revolutionize bivalve hatchery operations <i>Eric Henry</i>	Students of the aquaculture program at the New York Harbor School will present their work on the Billion Oyster Project (BOP) including the history of oyster restoration in New York Harbor, Harbor School's work to date and the development of the BOP. The aquaculture students will discuss how they work with other career and tech ed programs at Harbor School to restore oysters to New York Harbor. A detailed overview of the oyster cultivation process and the future plans of the BOP will be discussed. Students will also present short explanations of their own research projects. These projects are designed to better understand and improve on the oyster cultivation techniques employed by the school. Finally, students will lead the audience in an oyster gardening workshop.	This hands-on laboratory will provide both practical experience and useful knowledge to culturist. In the first session, participants will examine the anatomy of 3 important bivalves, eastern oysters, surf clams (a proxy for hard clams), and sea scallops. Participants will learn how to identify disease abnormalities and evaluate the animal's condition. The how and why of sample submission to a diagnostic lab will be discussed.
9:30 AM	Comparison of proposed control methods for the invasive European green crab (<i>Carcinus maenas</i>) <i>James Elliott</i>	Comparison of proposed control methods for the invasive European green crab (<i>Carcinus maenas</i>) <i>James Elliott</i>	New insights into the development and function of hemocyte types in oysters <i>Gary Wilfords</i>	Students of the aquaculture program at the New York Harbor School will present their work on the Billion Oyster Project (BOP) including the history of oyster restoration in New York Harbor, Harbor School's work to date and the development of the BOP. The aquaculture students will discuss how they work with other career and tech ed programs at Harbor School to restore oysters to New York Harbor. A detailed overview of the oyster cultivation process and the future plans of the BOP will be discussed. Students will also present short explanations of their own research projects. These projects are designed to better understand and improve on the oyster cultivation techniques employed by the school. Finally, students will lead the audience in an oyster gardening workshop.	This hands-on laboratory will provide both practical experience and useful knowledge to culturist. In the first session, participants will examine the anatomy of 3 important bivalves, eastern oysters, surf clams (a proxy for hard clams), and sea scallops. Participants will learn how to identify disease abnormalities and evaluate the animal's condition. The how and why of sample submission to a diagnostic lab will be discussed.
9:45 AM	Invasive European green crabs: sudden increase in erosion potential on salt marshes in southern and central coastal Maine <i>Daniel Belknap</i>	Invasive European green crabs: sudden increase in erosion potential on salt marshes in southern and central coastal Maine <i>Daniel Belknap</i>	Classification of Atlantic razor clam (<i>Erisir directus</i>) hemocytes using light and transmission electron microscopy <i>Brian Preziosi</i>	Students of the aquaculture program at the New York Harbor School will present their work on the Billion Oyster Project (BOP) including the history of oyster restoration in New York Harbor, Harbor School's work to date and the development of the BOP. The aquaculture students will discuss how they work with other career and tech ed programs at Harbor School to restore oysters to New York Harbor. A detailed overview of the oyster cultivation process and the future plans of the BOP will be discussed. Students will also present short explanations of their own research projects. These projects are designed to better understand and improve on the oyster cultivation techniques employed by the school. Finally, students will lead the audience in an oyster gardening workshop.	This hands-on laboratory will provide both practical experience and useful knowledge to culturist. In the first session, participants will examine the anatomy of 3 important bivalves, eastern oysters, surf clams (a proxy for hard clams), and sea scallops. Participants will learn how to identify disease abnormalities and evaluate the animal's condition. The how and why of sample submission to a diagnostic lab will be discussed.
10:00 AM	Break at the Casco Bay Exhibit Hall				
	Vermont Scallop Culture Chair: <i>Dana Morse</i>	New Hampshire Green Crabs II Chair: <i>Joe Buttner</i>	Massachusetts USDA Opportunities In Aquaculture Chair: <i>Ken Gustin</i>	Oxford/Somerset Physical Therapy for Aging Aquaculturists Chair: <i>Kassia Garfield</i>	Kennebec/Lincoln Preparation of Shellfish for Disease Diagnostics II Co-Chairs: <i>Dale Leavitt & Roxanna Smolowitz</i>
10:30 AM	Progress in aquaculture of sea scallops (<i>Placostrota magellanicus</i>) in Maine <i>Dana Morse</i>	Trapping green crabs (<i>Carcinus maenas</i>) in Salem Sound, Massachusetts <i>Alan M. Young</i>	Results of the 2013 U.S. Census of Aquaculture show industry growth <i>Gary Keough</i>	Students of the aquaculture program at the New York Harbor School will present their work on the Billion Oyster Project (BOP) including the history of oyster restoration in New York Harbor, Harbor School's work to date and the development of the BOP. The aquaculture students will discuss how they work with other career and tech ed programs at Harbor School to restore oysters to New York Harbor. A detailed overview of the oyster cultivation process and the future plans of the BOP will be discussed. Students will also present short explanations of their own research projects. These projects are designed to better understand and improve on the oyster cultivation techniques employed by the school. Finally, students will lead the audience in an oyster gardening workshop.	This hands-on laboratory will provide both practical experience and useful knowledge to culturist. In the first session, participants will examine the anatomy of 3 important bivalves, eastern oysters, surf clams (a proxy for hard clams), and sea scallops. Participants will learn how to identify disease abnormalities and evaluate the animal's condition. The how and why of sample submission to a diagnostic lab will be discussed.
10:45 AM	Shellfish sanitation management framework for aquaculture scallops <i>Kohl Karwit</i>	Potential use of the invasive European green crab (<i>Carcinus maenas</i>) as an ingredient in Atlantic salmon (<i>Salmo salar</i>) diets: a preliminary analysis <i>Gary Burr</i>	Aquaculture in the Northeast is a major economic activity, and FSA program and loan offerings provide options to mitigate risk of loss, improve financial viability, obtain critical working capital for operating needs, make improvements to on-farm operations and refurbishments of equipment and facilities, and meet storage needs following harvest. USDA representatives from the Farm Service Agency (FSA) will present a workshop on program and loan opportunities for the aquaculture industry.	This hands-on workshop will provide information on how to make better work habits, how to maximize efficiency and save your back! Exercises will be provided with demonstrations. This fun, interactive presentation will show you how to create better work environments in the aquaculture workplace	Continuation of the previous session
11:00 AM	Scallops and algal toxins - same threat different day <i>Sandra Shumway</i>	The European Green Crab - Finding alternative uses for an invasive predator <i>Luke Poirier</i>	Discussion	This hands-on workshop will provide information on how to make better work habits, how to maximize efficiency and save your back! Exercises will be provided with demonstrations. This fun, interactive presentation will show you how to create better work environments in the aquaculture workplace	Continuation of the previous session
11:15 AM	Recent developments in purple hinged rock scallop culture on the US west coast <i>John Davis</i>	Preliminary results generated by MTI CIP 163 "Under-Utilized Shellfish Products With Emphasis on Green Crab Maine" <i>John Der Kinderen</i>	Discussion	This hands-on workshop will provide information on how to make better work habits, how to maximize efficiency and save your back! Exercises will be provided with demonstrations. This fun, interactive presentation will show you how to create better work environments in the aquaculture workplace	Continuation of the previous session
11:30 AM	Magellan Aqua Farms utilizes lantern nets suspended from a buoyed long line <i>Steven Bachman</i>	Discussion	Discussion	This hands-on workshop will provide information on how to make better work habits, how to maximize efficiency and save your back! Exercises will be provided with demonstrations. This fun, interactive presentation will show you how to create better work environments in the aquaculture workplace	Continuation of the previous session
11:45 AM	Discussion	Discussion	Discussion	This hands-on workshop will provide information on how to make better work habits, how to maximize efficiency and save your back! Exercises will be provided with demonstrations. This fun, interactive presentation will show you how to create better work environments in the aquaculture workplace	Continuation of the previous session
12:00 PM Lunch in the Casco Bay Exhibit Hall Special Guest Speaker Barton Seaver					
	Vermont Gear Entanglement Workshop Chair: <i>Scott Lindell</i>	New Hampshire Ocean Acidification I Chair: <i>Mark Green</i>	Massachusetts Aquaculture Farm Modeling and Site Selection Chair: <i>Damian Brady</i>	Oxford/Somerset Making the leap: strategies, people and resources to help you go from part-time to full-time in aquaculture Co-Chairs: <i>Dana Morse & Don Gooding</i>	Kennebec/Lincoln Preparation of Shellfish for Disease Diagnostics I Co-Chairs: <i>Ian Bricknell, Debbie Bouchard & Mike Pietrak</i>
1:30 PM	Collaborating to develop offshore aquaculture while minimizing potential impacts to protected species <i>David Bean</i>	Ocean acidification: The current state of knowledge <i>Mark Green</i>	Merging, modeling and mapping to improve shellfish aquaculture site selection <i>Julie M. Rose</i>	Making the leap from part-time to full-time activity is often a challenging and scary time for aquaculture professionals. As always, good planning can really help, and knowing the right people to turn to for advice and business services can make the difference between profitability, and back to your old job. This session will help you to anticipate some of the likely challenges that you'll face when making this transition, and how to prepare as fully as possible, so that the job you love to do, can actually become your daily job.	The goal of the workshop is to provide commercial aquaculturists and extension professionals with a working knowledge of what constitutes good quality fish disease diagnostic specimens, how to select those specimens, how to properly package those specimens for shipment to a fish disease diagnostic laboratory and what information should be provided with those specimens. Information will also be provided describing the various testing methods and time required to obtain test results.
1:45 PM	Entanglement risk reduction in aquaculture gear <i>Clifford A. Goudey</i>	Upwelling of acidified water: Not just an issue for shellfish harvesters on the West Coast of the US <i>Daphne Munroe</i>	A proactive GIS assessment of suitable offshore aquaculture sites in the Gulf of Maine integrating social, biological, and economic factors <i>Michael Thutzy</i>	Making the leap from part-time to full-time activity is often a challenging and scary time for aquaculture professionals. As always, good planning can really help, and knowing the right people to turn to for advice and business services can make the difference between profitability, and back to your old job. This session will help you to anticipate some of the likely challenges that you'll face when making this transition, and how to prepare as fully as possible, so that the job you love to do, can actually become your daily job.	The goal of the workshop is to provide commercial aquaculturists and extension professionals with a working knowledge of what constitutes good quality fish disease diagnostic specimens, how to select those specimens, how to properly package those specimens for shipment to a fish disease diagnostic laboratory and what information should be provided with those specimens. Information will also be provided describing the various testing methods and time required to obtain test results.
2:00 PM	Entanglements of North Atlantic right whales in fishing ropes <i>Scott Kraus</i>	Emergent regional interest to combat ocean acidification <i>Suzanne Arnold</i>	Production modeling and siting for mussel and oyster farms in the Northeast <i>Carter Newell</i>	Making the leap from part-time to full-time activity is often a challenging and scary time for aquaculture professionals. As always, good planning can really help, and knowing the right people to turn to for advice and business services can make the difference between profitability, and back to your old job. This session will help you to anticipate some of the likely challenges that you'll face when making this transition, and how to prepare as fully as possible, so that the job you love to do, can actually become your daily job.	The goal of the workshop is to provide commercial aquaculturists and extension professionals with a working knowledge of what constitutes good quality fish disease diagnostic specimens, how to select those specimens, how to properly package those specimens for shipment to a fish disease diagnostic laboratory and what information should be provided with those specimens. Information will also be provided describing the various testing methods and time required to obtain test results.
2:15 PM	Fixed gear and protected species in Massachusetts - implications for subtidal aquaculture gear <i>Erin Burke</i>	Subaqueous soils and coastal acidification: A hydrogeology perspective <i>Brett Stoll</i>	Modeling flow through aquaculture farms <i>John Richardson</i>	Making the leap from part-time to full-time activity is often a challenging and scary time for aquaculture professionals. As always, good planning can really help, and knowing the right people to turn to for advice and business services can make the difference between profitability, and back to your old job. This session will help you to anticipate some of the likely challenges that you'll face when making this transition, and how to prepare as fully as possible, so that the job you love to do, can actually become your daily job.	The goal of the workshop is to provide commercial aquaculturists and extension professionals with a working knowledge of what constitutes good quality fish disease diagnostic specimens, how to select those specimens, how to properly package those specimens for shipment to a fish disease diagnostic laboratory and what information should be provided with those specimens. Information will also be provided describing the various testing methods and time required to obtain test results.
2:30 PM	What we can learn from entanglement cases of whales and turtles in mussel farming gear <i>Scott Lindell</i>	Acidic mud and clam shell pitting in Casco Bay, Maine <i>Joe Payne</i>	In vivo fluorescence based chlorophyll a measurements - how close are we to the truth? <i>Judy Li</i>	Making the leap from part-time to full-time activity is often a challenging and scary time for aquaculture professionals. As always, good planning can really help, and knowing the right people to turn to for advice and business services can make the difference between profitability, and back to your old job. This session will help you to anticipate some of the likely challenges that you'll face when making this transition, and how to prepare as fully as possible, so that the job you love to do, can actually become your daily job.	The goal of the workshop is to provide commercial aquaculturists and extension professionals with a working knowledge of what constitutes good quality fish disease diagnostic specimens, how to select those specimens, how to properly package those specimens for shipment to a fish disease diagnostic laboratory and what information should be provided with those specimens. Information will also be provided describing the various testing methods and time required to obtain test results.
2:45 PM	Spatial-temporal management of conflicts with protected species <i>Hauke Kite-Powell</i>	Coping with copious freshwater in mid-coast Maine <i>Bill Mook</i>	Sediment flux modeling of bivalve aquaculture spatial impacts on sediments (BASIS) <i>Damian Brady</i>	Making the leap from part-time to full-time activity is often a challenging and scary time for aquaculture professionals. As always, good planning can really help, and knowing the right people to turn to for advice and business services can make the difference between profitability, and back to your old job. This session will help you to anticipate some of the likely challenges that you'll face when making this transition, and how to prepare as fully as possible, so that the job you love to do, can actually become your daily job.	The goal of the workshop is to provide commercial aquaculturists and extension professionals with a working knowledge of what constitutes good quality fish disease diagnostic specimens, how to select those specimens, how to properly package those specimens for shipment to a fish disease diagnostic laboratory and what information should be provided with those specimens. Information will also be provided describing the various testing methods and time required to obtain test results.
3:00 PM	Break in the Foyer				
	Vermont Shellfish Health Chair: <i>Tim Bowden</i>	New Hampshire Ocean Acidification II Chair: <i>Mark Green</i>	Massachusetts Farm Modeling & ShellGIS Workshop Chair: <i>Carter Newell</i>	Oxford/Somerset Aquaculture Farming & Management Chair: <i>John Ewart</i>	Kennebec/Lincoln Preparation of Shellfish for Disease Diagnostics II Co-Chairs: <i>Ian Bricknell, Debbie Bouchard & Mike Pietrak</i>
3:30 PM	Detection of live marine mollusc pathogens: Are we heading in the right direction? <i>Ryan Carnegie</i>	Biological responses of multiple Northeast taxa to ocean acidification <i>Meredith M. White</i>	Clearance rate regulation in mussels: adding the effect of organic seston level to a model of intertidal site-based regulation <i>Marcel Fréchet</i>	Seaweed production in Connecticut: An interagency effort to establish permitting guidance for seaweed intended for human consumption <i>Kristin Derosiá-Banick</i>	Continuation of the previous session
3:45 PM	Skulking behind an MSX smokescreen: SSO prevalence in Maine and Massachusetts <i>Cem Giray</i>	A preliminary assessment of the effect of increased seawater acidity on juvenile bay scallops (<i>Argopecten irradians irradians</i>) from two genetic lines <i>Isaiah Mansour</i>	Ecosystem modeling has been widely used to predict the carrying capacity for bivalve culture in numerous estuaries. System scale approaches often have limited spatial resolution that adequately represent critical localized effects of current flow on the supply and use of food particles. ShellGIS was developed as a practical tool for bivalve mollusc farmers for selecting good sites and managing them for optimal growth rates and seed to harvest yields. This workshop will demonstrate the capabilities of ShellGIS in assisting shellfish farmers in identifying optimal growing sites and management conditions. <i>John Ewart</i>	Identifying and addressing process-related challenges to the expansion of sea vegetable aquaculture in Connecticut <i>Anoushka Concepcion</i>	Continuation of the previous session
4:00 PM	Screening biofouling organisms around oyster cages for potential reservoir species or intermediate hosts of the oyster parasite MSX in the Damariscotta estuary <i>Nicole Messerian</i>	Why ocean acidification may not be the end of shellfish <i>Robert Rheault</i>	Discussion	Identifying and addressing process-related challenges to the expansion of sea vegetable aquaculture in Connecticut <i>Anoushka Concepcion</i>	Continuation of the previous session
4:15 PM	The application of a quantitative PCR with a plasmid standard curve to evaluate <i>Perkinsus marinus</i> levels in the Eastern oyster, <i>Crossostrea virginica</i> <i>Whitney Jalliet</i>	Lessons learned from stakeholders at Maine's Ocean Acidification Workshop towards an implementation plan <i>Espérance Stancioff</i>	Discussion	Identifying and addressing process-related challenges to the expansion of sea vegetable aquaculture in Connecticut <i>Anoushka Concepcion</i>	Continuation of the previous session
4:30 PM	Epizootiological analysis of QPX disease shellfish from hard dam (aka quagga) monitoring in an estuarine estuary. <i>Soren Dahl</i>	Discussion	Discussion	Identifying and addressing process-related challenges to the expansion of sea vegetable aquaculture in Connecticut <i>Anoushka Concepcion</i>	Continuation of the previous session
4:45 PM	Prevalence of the oyster parasite MSX in the Damariscotta estuary during 2012 <i>Nicole Messerian</i>	Discussion	Discussion	Identifying and addressing process-related challenges to the expansion of sea vegetable aquaculture in Connecticut <i>Anoushka Concepcion</i>	Continuation of the previous session
5:00 PM	Closing Remarks (New Hampshire Room)				