MONDAY March 18, 2024

	March 18, 2024					
6:30-7:45AM	STUDENT MENTOR-MENTEE BREAKFAST (NSA STUDENT MEMBERS ONLY – <i>Advanced sign up will be required</i>) Symphony Foyer					
8:00-9:10AM	PLENARY: Dianna Padilla (Stony Brook University) - <i>Gastropods - the other shellfish</i> Symphony V-VI-VII					
	NSA AT THE MOVIES – FILM FESTIVAL – CONTINUOUS SHOWINGS ALL DAY Symphony I					
ROOM	Symphony II	Symphony III	Symphony V	Symphony VI	Symphony VII	
SESSION TITLE	UNDERGRADUATE RESEARCH COLLOQUIUM Ed Catapane & Margaret Carroll	GENETICS, GENOMICS & BREEDING Louis Plough	OYSTERS Bill Fisher	SHELLFISH AQUACULTURE ECONOMICS, RISKS & INSURANCE REFORM Nicole Kirchhoff & Angela Collins	SHRIMP ENCODE Acacia Alcivar-Warren & Kathy Tang-Nelson	
9:15AM	PRESENCE OF GLUTAMATE NEURONS AND GLUTAMATE RECEPTORS IN GANGLIA OF THE EASTERN OYSTER, CRASSOSTREA VIRGINICA Pierre*, Wallach, Foster, Catapane, Carroll	SITE-SPECIFIC DIFFERENCES IN UPPER THERMAL TOLERANCE AND TRANSCRIPTOMIC RESPONSES OF ATLANTIC CANADIAN BLUE MUSSELS (MYTILUS EDULIS) Ignatz, Clarke, Hori, Comeau, Filgueira	EASTERN OYSTER, CRASSOSTREA VIRGINICA, POPULATION GENOMICS IN A WELL-MIXED ESTUARINE SYSTEM (GREAT BAY ESTUARY, NEW HAMPSHIRE, USA) Stasse*, Brown		SHRIMP GENOMICS AND EPIGENOMES (SHRIMPENCODE): RECOGNITION TO STUDENTS AND "2024 YOUNG OUTSTANDING ONE HEALTH RESEARCHERS IN AQUACULTURE AND FISHERIES" AWARDS Alcivar-Warren, Tang-Nelson	
9:30AM	A NEUROPHYSIOLOGICAL ROLE OF GLUTAMATE IN GANGLIA OF THE BIVALVE CRASSOSTREA VIRGINICA Obianke*, Myrbel, Carroll, Catapane	TRANSGRESSIVE GENE EXPRESSION AND EXPRESSION PLASTICITY UNDER THERMAL STRESS IN HYBRID MYTILUS MUSSELS Schwartz, González, Strong, Truebano, Hilbish	ONTOGENETIC STAGE INFLUENCES ON SURVIVORSHIP DISPARITY BETWEEN DIPLOID AND TRIPLOID EASTERN OYSTERS Brianik*, Rivara, Patricio, Proestou, Liu, Topping, Jamieson, Ratcliff, Guo, Pales Espinosa, Allam		PUTATIVE ENDOGENOUS VIRAL ELEMENTS (EVE) IDENTIFIED IN THREE WHOLE REFERENCE GENOME ASSEMBLIES AVAILABLE FOR THE PACIFIC WHITELEG SHRIMP, PENAEUS VANNAMEI YUAN, Alcivar-Warren	
9:45AM	6-HYDROXYDOPAMINE TREATMENT CAUSES SUPERSENSITIVITY OF DOPAMINE D2R RECEPTORS IN GILL LATERAL CELLS OF CRASSOSTREA VIRGINICA Cayemitte*, Saqib, Carroll, Catapane	SIGNATURES OF POSITIVE SELECTION TO OCEAN ACIDIFICATION RESILIENCE IN LARVAL MEDITERRANEAN MUSSELS MYTILUS GALLOPROVINCIALIS Chancellor*, Churches, Kim, Jacobson, Nuzhdin	GROWTH AND SURVIVAL OF TETRAPLOID EASTERN OYSTERS, CRASSOSTREA VIRGINICA, IN DIFFERENT SALINITY ENVIRONMENTS IN THE GULF OF MEXICO	THIS WORKSHOP WILL INTRODUCE THE CONCEPT OF ENTERPRISE BUDGETS, EVALUATE RISKS THE INDUSTRY FACES WHEN DOING BUSINESS, AND DISCUSS WAYS THE INDUSTRY MAY BE SUPPORTED TO ENSURE THEIR	PATHOGENIC, AND INTEGRATED VIRUSES Kawato, De Felice, Frizzo, Wegner, Rosani	
10:00AM	COMPARISON OF THE NEUROTOXIC ACTIONS OF 6- HYDROXYDOPAMINE AND MANGANESE ON GILL LATERAL CELL DOPAMINE D2R RECEPTORS OF <i>CRASSOSTREA</i> <i>VIRGINICA</i> Small*, Wilson, Joseph, Carroll, Catapane	The hologenome of the Chilean blue mussel, Mytilus Chilensis, exposed to hypoxia Gallardo-Escárate, Valenzuela-Muñoz, Roberts	The effects of water chemistry on the survival and growth of eastern oyster, <i>Crassostrea VIRGINICA</i> , LARVAE IN CULTURE Hall*, Gima, Hu, Blaylock	FINANCIAL SUCCESS IN THE FUTURE.	ISSUES RELATED TO THE DELISTING OF INFECTIOUS HYPODERMAL AND HEMATOPOIETIC NECROSIS (IHHN) AS A NOTIFIABLE DISEASE BY THE WORLD HEALTH ORGANIZATION FOR ANIMAL HEALTH (WHOA) Tang, Alcivar-Warren	
10:15AM	WESTERN BLOT STUDY OF THE NEUROTOXIC EFFECTS OF MANGANISM AND PARKINSON'S DISEASES Mansfield*, Acheampong, Foster, Carroll, Catapane	GENOME SEQUENCING REVEALS GENOMIC BASIS FOR DOMESTICATION AND ENVIRONMENTAL ADAPTATION IN KUMAMOTO OYSTERS, CRASSOSTREA SIKAMEA Liu, Liu, Guo, Itoh, Chang, Lin, Xue	ECOLOGICAL ASSESSMENT OF ENVIRONMENTAL HEALTH AND OYSTER AQUACULTURE GROW-OUT CONDITIONS IN REHOBOTH BAY, DELAWARE Andrade*, Attarwala, Ramos, Parsaeimehr, Ozbay		ENDOGENOUS VIRUS ELEMENTS (EVE) OF INFECTIOUS HYPODERMAL AND HEMATOPOIETIC NECROSIS VIRUS (IHHNV-EVE) IN THE GENOMES OF <i>PENAEUS VANNAMEI</i> AND <i>P. MONODON</i> : INTERACTIONS WITH TRANSPOSABLE ELEMENTS Asuncion*, Alday-Sanz, Tang, Galindo, Alcivar-Warren	
10:30-11:00AM			MORNING BREAK			
SESSION TITLE	SHELLFISH & CARBON SEQUESTRATION WORKSHOP Max Zavell & Ramon Filgueria	GENETICS, GENOMICS & BREEDING Louis Plough	OYSTERS Bill Fisher	SHELLFISH AQUACULTURE ECONOMICS, RISKS & INSURANCE REFORM Nicole Kirchhoff & Angela Collins	SHRIMP ENCODE Acacia Alcivar-Warren & Kathy Tang-Nelson	
11:00 AM		ASSESSING THE EVOLUTIONARY RESPONSE OF THE EASTERN OYSTER TO EXPOSURE TO COASTAL ACIDIFICATION AND SEWAGE EFFLUENT: A CASE STUDY Puritz, Zyck, Harvey, Lotterhos	ACUTE AND LONG-TERM RESPONSES OF JUVENILE OYSTERS TO DYNAMIC MULTIPLE COASTAL STRESSORS Guidry*, Randall, Puritz		REPETITIVE ELEMENTS FROM THE FIRST SPECIFIC PATHOGEN-FREE (SPF) SHRIMP, PENAEUS VANNAMEI, PRODUCED IN THE UNITED STATES Alcivar-Warren, Bao, Yuan, Guo, Karoonuthaisiri, Uengwetwanit, Sittikankaew, Asunción, Alcivar-Arteaga	
11:15 AM		COMPREHENSIVE GENOMIC ANALYSIS OF ARGOPECTEN IRRADIANS ACROSS THE UNITED STATES: REVEALING POPULATION DIVERSITY AND EVOLUTIONARY HISTORY Grouzdev, Pales Espinosa, Tettelbach, Tobi, Goodheart, Hollenbeck, Wilbur, Allam	Interacting climate change stressors and carryover effects in oysters McDonough*, Donelan, Miller, Gignoux-Wolfsohn		DNA TRANSPOSONS FROM THE FIRST SPECIFIC PATHOGEN-FREE (SPF) SHRIMP, PENAEUS VANNAMEI, PRODUCED IN THE UNITED STATES Bao, Alcivar-Warren, Yuan, Guo	
SESSION TITLE	SHELLFISH & CARBON SEQUESTRATION WORKSHOP Max Zavell & Ramon Filgueria	GENETICS, GENOMICS & BREEDING Louis Plough	OYSTERS Bill Fisher		MANGROVE SHELLFISH Acacia Alcivar-Warren & Karin Tome	
11:30 AM		EASTERN OYSTER (<i>CRASSOSTREA VIRGINICA</i>) CIS- DEFENSIN ANTIMICROBIAL PEPTIDES: GENE STRUCTURE, EXPRESSION, AND DIVERSITY Hanna*, Flora, Kuldell, Drawec, Krause	The pros and cons of long-term datasets: a case study of eastern oyster (<i>Crassostrea virginica</i>) reproduction in south Florida estuaries Levine, Geiger, Kirby		Mangrove shellfish: from carbon storage to epigenetics: recognition to students and "2024 Outstanding ONE HEALTH Researchers in Aquaculture and Fisheries" Awards Alcivar-Warren, Tome	
11:45 AM		IMMORTALIZED MARINE INVERTEBRATE CELL LINES FOR BIOMEDICINE AND BIOTECHNOLOGY Davis	A CONTROLLED FLOW-THROUGH SYSTEM FOR STUDYING THE EFFECTS OF OCEAN ACIDIFICATION ON BIVALVE LARVAE Hainey*, Zinck, Jennings, Fleener, Langdon		What is Rotary and how does Rotary work for shellfish? Puttock	
12:00 NOON		DIRECT MEASUREMENT AND GENETIC PARAMETER ESTIMATION OF DERMO RESISTANCE TRAITS IN AN EASTERN OYSTER BREEDING POPULATION Proestou, Delomas, Small	IN SITU VALVE OPENING RESPONSE OF EASTERN OYSTERS TO ESTUARINE CONDITIONS Lavaud, Archer, La Peyre, Campanino, Casas, La Peyre			
12:15 PM		SELECTION RESPONSE OF GULF OF MEXICO EASTERN OYSTER (<i>CRASSOSTREA VIRGINICA</i>) BRED FOR PERFORMANCE IN LOW SALINITY ENVIRONMENTS King*, Yang, Sturmer, Hollenbeck, Stoeckel, Rikard, Gima, Stannard, Lucas, Buckmaster, Akter, Tarnecki, Saillant	Machine Learning and Computer Vision TECHNIQUES TO IDENTIFY AND MONITOR OSTREIDAE NONDISRUPTIVELY Mekovsky*, Emmert, Rudy			
12:30-1:30 PM			LUNCH BREAK			

MONDAY March 18, 2024

		NSA AT THE MO	VIES – FILM FESTIVAL – CONTINUOUS SHO Symphony I	DWINGS ALL DAY	
ROOM	Symphony II	Symphony III	Symphony V	Symphony VI	Symphony VII
SESSION TITLE	SHELLFISH MICROBOMES Rachel Diner & Tyler Griffin	GENETICS, GENOMICS & BREEDING Louis Plough	OYSTERS Bill Fisher	SHELLFISH AQUACULTURE ECONOMICS, RISKS & INSURANCE REFORM Nicole Kirchhoff & Angela Collins	MANGROVE SHELLFISH Acacia Alcivar-Warren & Karin Tome
1:30 PM	OPPORTUNITIES FOR AQUACULTURE AND ECOLOGY Diner, Griffin	Summer Mortality in 2N and 3N Virginia- and North Carolina-derived Oyster Lines Small, Audemard, Ciesielski, Noble, Reece, Wilbur, Ben-Horin	A COMPARISON OF SETTLEMENT PLATE MATERIAL FOR MONITORING OYSTER SPAT RECRUITMENT Capps, Rikard		THE MANGROVE EPIGENOME (MANGROVEENCODE) PROJECT: A ONE HEALTH APPROACH TO CONSERVING MANGROVE BIODIVERSITY Alcivar-Arteaga, Lopez, Galindo, Asunción, Hernandez, Espinoza, Figueroa, Alcivar-Marcillo, Alcivar-Marcillo, Alemán, Alcivar-Parrales, Alcivar-Parrales, Alcivar-Loor, Alarcon-Mieles, Alcivar-Herrera, Calvo, Alcivar-Loor, Ortega, Alcivar-Arteaga, Nicolalde, Echevarria, Mishra, Chinnaiah, Ikeogu, Aveiga, Henry, McClennen, Mejia, Aveiga, Hall, Alejandro-Tigrero, Alejandro-Rosales, Alcivar-Warren
1:45 PM	GEOGRAPHICAL RANGE OF THE SPECIES Herrera*, Bachvaroff, Geba, Schott	COMPARATIVE PERFORMANCE OF TRIPLOID OYSTERS, PRODUCED BY CHEMICAL INDUCTION AND MATED TRIPLOID TECHNIQUES, TO THEIR DIPLOID COUNTERPARTS Vignier, Reardon, Exton, Rolton, Delisle, Malpot, Scholtens, Welford, Zamora, Ragg, Dunphy, Adams	ADVANCES IN OYSTER PRIMARY CELL AND ORGAN CULTURES Sullivan*, Morrison, Steketee, Regan, Bean	This workshop will introduce the concept of enterprise budgets, evaluate risks the industry faces when doing business, and discuss ways the industry may be supported to ensure their	AN ESTIMATE OF CARBON STORAGE CAPABILITIES OF WILD AND CULTURED SHELLFISH IN THE NORTHWEST ATLANTIC AND THEIR POTENTIAL INCLUSION IN A CARBON ECONOMY Zavell*, Lindahl, Filgueira, Shumway
2:00 PM	AND ASCIDIANS AS DETERMINED THOUGH MICROBIOME SEQUENCING IN INHALANT AND EXHALANT WATERS Griffin*, Capriotti, Dadon-Pilosof, Holohan, Yahel, Shumway, Ward	OYSTERS SELECTED FOR DISEASE RESISTANCE AND FAST GROWTH	THE OYSTER CONSERVATIONIST PROGRAM: A COMMUNITY SCIENCE EFFORT IN GREAT BAY, NEW HAMPSHIRE Arlen	FINANCIAL SUCCESS IN THE FUTURE.	IDENTIFICATION OF NEW VIBRIO CAMPBELLII STRAINS HARBORING THE PVA1 PLASMID ISOLATED FROM PENAEUS VANNAMEI POST-LARVAE AFFECTED BY OUTBREAKS OF ACUTE HEPATOPANCREATIC NECROSIS DISEASE (AHPND) IN MEXICO Soto-Rodriguez, Gomez-Gil, Lozano-Olvera, Aguilar-Rendón, González-Gómez*P
2:15 PM	TRANSIENT MICROBIAL COMMUNITIES OF THE QUAGGA MUSSEL, <i>Dreissena Bugensis</i> Collins*, Griffin, Ward	EASTERN OYSTER IN EAST MAINE Beal, Liu^P, Pepperman, Wolfe-Bryant	Using the Driver-Pressure-State-Impact-Response (DPSIR) framework to support sustainable and healthy oyster production in Mississippi Pruett, Fisher, Bernard, Darnell		PROTECTING FRESHWATER ECOSYSTEMS: A ROTARY INTERNATIONAL PARTNERSHIP WITH THE UNITED NATIONS ENVIRONMENT PROGRAMME Rico
2:30 PM	CORE BACTERIA BUT ARE ALTERED BY ENVIRONMENT Gignoux-Wolfsohn, Ruiz, Barron, Ruiz, Lohan	Wang*, Casas, La Peyre, Williams, Tarnecki,	Using an objectives Hierarchy to Support Sustainable and Healthy Oyster Production in Mississippi Fisher, Pruett, Bernard, Darnell		TIME TO INTEGRATE THE "ONE HEALTH APPROACH" INTO ENDROCRINE DISRUPTING CHEMICALS (EDC) RESEARCH Alcivar-Marcillo*, Alcivar-Parrales, Figueroa-
2:45 PM	PREDICTIVE MODELS OF CRITICAL ESTUARINE HABITATS? A CASE STUDY IN CHESAPEAKE BAY	CHALLENGE WITH <i>PERKINSUS MARINUS</i> IS A POLYGENIC	OYSTER INSURANCE OPTIONS FROM USDA RISK MANAGEMENT AGENCY Sereno, Olive, Wilkin, Place, White		Alemán, Alcivar-Marcillo, Galindo, Hernandez, Asunción, Ortega, Lopez-Zavala, Alcivar-Arteaga, Nicolalde, Alcivar-Loor, Alcivar-Warren
3:00 - 3:30 PM			AFTERNOON BREAK		
SESSION TITLE	HEALTH CONSORTIUM	GENETICS, GENOMICS & BREEDING Louis Plough		DIVERSITY, EQUITY & INCLUSION Aswani Volety & Angela Caporelli	MANGROVE SHELLFISH Acacia Alcivar-Warren &
3:30 PM		GENETIC IMPROVEMENT OF THE EASTERN OYSTER AND PROSPECTS OF GENOMIC SELECTION Guo, Ratcliff, Wang, Jamieson, Liu, Chriss, McGurk, Burt, Bushek		PRIMING THE PUMP AND CREATING PIPELINES: EXAMPLE OF INCREASING UNDER-REPRESENTED STUDENTS TO STEM AREAS AT A STATE UNIVERSITY Volety, Roseboro, Loh	TRACE METAL CONCENTRATIONS IN PENAEUS VANNAMEI FROM ECUADOR AND EL SALVADOR, AND A REVIEW OF METALS AND PESTICIDES CONTAMINATING MANGROVE SEDIMENT AND RED MANGROVE CRABS (UCIDES)
3:45 PM		SINGLE NUCLEOTIDE POLYMORPHISMS (SNP) GENOTYPING TOOLS AND THEIR APPLICATION IN SHELLFISH BREEDING PROGRAMS: PEDIGREE MANAGEMENT TO GENOMIC SELECTION Allen, Verbyla, Stannard, Plouffe, Cerezo ^P		AQUACULTURE IN THE MIDST OF SOCIAL CHANGE Caporelli	OCCIDENTALIS) AT THE GUAYAS ESTUARY OF ECUADOR AVEIGA*, DE COCK, ALCIVAR-ARTEAGA, HENRY, ASTROFSKY, ALCIVAR, MCCLENNEN, FIGUEROA, ESPINOSA, ALCIVAR-WARREN
4:00 PM	THE OBJECTIVES FOR THIS CONSORTIUM ARE: (1) IDENTIFY THE CAUSES OF BIVALVE HATCHERY LARVAL MORTALITIES AND CRASHES ALONG THE EAST COAST OF THE U.S. THROUGH AN INTEGRATED, COLLABORATIVE,	TIME FOR A CHECK-UP: COMPARING LEVELS OF GENETIC DIVERSITY AND INBREEDING AMONG HATCHERY LINES WITH OFFSPRING FROM WILD POPULATIONS OF EASTERN OYSTERS (<i>Crassostrea virginica</i>) Varney, Katsuki, Lotterhos, Small			THE ROLE OF PROBIOTICS IN SHRIMP AQUACULTURE: A COMPREHENSIVE REVIEW IN THE ECUADORIAN CONTEXT López-Zavala*, Asuncion, Galindo, Alcivar-Arteaga, Alcivar-Warren
4:15 PM	PROTOCOLS TO MANAGE AND MINIMIZE LARVAL CRASHES IN HATCHERIES.	DEVELOPMENT OF A MICROHAPLOTYPE-BASED GENOTYPING PANEL FOR AQUACULTURE, RESTORATION, AND FISHERIES MANAGEMENT FOR <i>CRASSOSTREA VIRGINICA</i> Weber*, Matt, Delomas, Portnoy, Hollenbeck		DIVERSITY, EQUITY, AND INCLUSION IN THE OYSTER AQUACULTURE AND RESTORATION SPACE Foster, Altagracia, Waters, Greenberg	SHRIMP SCAMPI: A CITIZEN SCIENCE PROJECT - EDUCATING ABOUT MICROBES AND HORMONE DISRUPTORS LIKE METALS AND GLYPHOSATE IN SHRIMP USING FOLDSCOPES Hernandez*, Warren, Alcivar-Arteaga, Warren, Diaz, Figueroa-Zambrano, Reyes, Alcivar-Warren
4:30 PM		MICROHAPLOTYPES BOOST POWER FOR RELATEDNESS ANALYSIS FROM SNP-BASED AMPLICON SEQUENCE PANELS IN THE PACIFIC OYSTER Thompson, Sutherland, Green, Delomas OPTIMIZATION OF LOW-DENSITY SNP PANELS FOR		DISCUSSION	CITIZEN SCIENCE APPROACH TO MITIGATE THE EFFECTS OF HARMFUL ALGAL BLOOMS IN COSTA RICA Morton, Vanopdenbosch, Shumway
4:45 PM		GENOTYPE IMPUTATION IN OYSTERS Hollenbeck			
5:00 PM		METHODS AND RESULTS OF APPLYING LOW-COST GENOMIC TOOLS FOR SELECTIVE BREEDING OF CRASSOSTREA VIRGINICA IN TEXAS Matt, Weber, Portnoy, Hollenbeck			Workshop: How to write effective global grants for funding by Rotary International Puttock, Tome
5:15 PM					
5:30 PM					

^{*} denotes student presenter

TUESDAY March 19, 2024

SPESSION TITLE PROPORTICS A EMERGING David Busines, Proportional Properties A fall Sen-horin Proportional Proper	DAM	PLENARY: – Jeanne Serb (Iowa State University) - Seeing the light, tasting the ocean: how bivalves sense their environment Symphony V-VI-VII				
SESSION TITLE David Bushelor, Play Campaign A Collection Control of Technology A Collection Collec						
## CONTROL OF A CONTROL A MODELLING ## STATE PROPERTY OF A FEATURE OF THE STATE OF	M	Symphony II	Symphony III	Symphony V	Symphony VI	Symphony VII
### ANALYSIA CHARGE SHORES PROPERTY OF THE STATE OF THE		David Bushek, Ryan Carnegie	TECHNOLOGY	ACIDIFICATION & MODELLING		GENERAL CONTRIBUTED I Paul Rawson
PIE IODIA DE REPONDETTA CONTRE PERCENTA DE SANCHARDE SENSAL DES MANA DE SANCHARDE SENSAL DES MANA DE SANCHARDE SENSAL DE SANCHARDE DE	HEMATOR SYNDINIA SAPIDUS)	ODINIUM PEREZI (DINOFLAGELLATA: NIALES) IN JUVENILE BLUE CRABS (CALLINECTES VS)	MONITORING SYSTEM FOR EFFECTIVE ASSESSMENT OF AQUACULTURE OPERATIONS Pahlevan, Wainwright, Ashapure, Golpayegani, Ashapure, Smith, O'Shea, Kabir, Saranathan	SPISULA SOLIDISSIMA, FROM CLIMATE-INDUCED BENTHIC WARMING: FORECASTING FISHERY INFLUENCE IN THE MID-ATLANTIC BIGHT THROUGHOUT THE 21 ST CENTURY Spencer*, Powell, Klinck, Munroe, LeClair,	PLUMP TREASURES AND AQUACULTURE'S BOUNTY POTENTIAL Jekielek*, Williams, Maier, Martin, Leslie, Price,	
### DATE OF COMMENT OF PROMOTOR OF PROMOTO	THE HOST PECONIC Cacot, F	OST AND ENVIRONMENTAL SAMPLES FROM THE IIC BAYS, New York , Pales Espinosa, Mannino, Trainer,	Sustainable Shellfish Aquaculture Management (S ³ AM) as a service for small oyster farms Ojha*, van Senten	MODELING POTENTIAL IMPACTS OF U.S. OFFSHORE WIND ENERGY DEVELOPMENT ON THE ATLANTIC SURFCLAM, SPISULA SOLIDISSMIA, FISHERY IN THE MIDATLANTIC BIGHT Moya*, Powell, Munroe, Scheld, Klinck,	PRODUCTION IN ATLANTIC SEA SCALLOPS, PLACOPECTEN MAGELLANICUS	GROWTH AND SURVIVAL OF TRANSPLANTED SOFTSHELL CLAMS (<i>Mya arenaria</i>) DURING A WINTER GROW-OUT PERIOD IN THE YORK RIVER, VIRGINIA Schoenberg*, Knick, Seebo, Seitz
The composition of the composi	DISEASE NORTHER IRRADIAN Trainer*	E DEVELOPMENT AND MORTALITY IN THE ERN BAY SCALLOP, <i>ARGOPECTEN IRRADIANS</i> ANS Tr*, Tobi, Dominguez, Cacot, Pales	HIGH-PRESSURE PROCESSING (HPP) AS AN EMERGING TECHNOLOGY: MICROBIAL AND PHYSICOCHEMICAL EFFECTS ON PRECOOKED BLUE CRAB MEAT Liu, Bhetwal, Min, Nindo	CROSS-GENERATIONAL EFFECTS OF OCEAN ACIDIFICATION ON A THIRD GENERATION OF BAY SCALLOPS McFarland, Gurr, Padilla, Bernatchez, Dixon, Guy, Milke, Poach, Hart, Plough, Redman,	FEMALE WHITE SHRIMP, <i>PENAEUS SETIFERUS</i> , IN SUPPORT OF SUSTAINABLE FISHERIES MANAGEMENT IN SOUTH CAROLINA, USA Mitchell*, Wagner, Brunson, Kingsley-Smith,	THERMAL TOLERANCE OF MERCENARIA SPP. DURING A SIMULATED MARINE HEATWAVE IN SOUTHWEST FLORIDA, USA Hutchins, Sea, Hesterberg
Common Security Business Common Security C	HAPLOSE IN OYSTE GEORGIA	SPORIDIUM NELSONI PREVALENCE AND INTENSITY TERS ACROSS FOUR SITES ON SAPELO ISLAND, SIA	THE SENSORY QUALITY AND CONSUMER ACCEPTABILITY OF PRECOOKED READY-TO-EAT (RTE) ATLANTIC BLUE CRAB MEAT	ATLANTIC SURFCLAM (SPISULA SOLIDISSIMA): OCEAN WARMING AND ACIDIFICATION Steeves, Honecker, Meseck, Guo, Towers,	PERFORMANCE AND RECRUITMENT LIMITATION IN THE WESTERN MISSISSIPPI SOUND: A MODELING STUDY Klein*, Powell, Kreeger, Zhang, Pace,	
DISEASE David Bushek, Ryan Carnegie & TECHNOLOGY Allen Pattillo & Yang Tao	CHANGE	E	(HPP) TECHNOLOGY: CHALLENGES AND OPPORTUNITIES FOR BETTER QUALITY AND CLEAN LABEL SEAFOOD PRODUCTS Liu, Phan, Feng, Pattillo	COMPARING PAST AND PRESENT CARBONATE CHEMISTRY AND DISSOLVED OXYGEN CONDITIONS OF SEA SCALLOP AND SURFCLAM HABITAT ALONG A COASTAL SHELF	INVESTIGATING THE INFLUENCE OF PHYTOPLANKTON SIZE DISTRIBUTION ON THE SUCCESS OF EASTERN OYSTER (CRASSOSTREA VIRGINICA) LARVAE IN THE MISSISSIPPI SOUND: A MODELING STUDY	
TITLE David Bushek, Ryan Carnegie 8 Tal Ben-horin Title David Bushek, Ryan Carnegie 8 Tel CHNOLOGY Allen Pattillo & Yang Tao ACIDIFICATION & MODEL LING Fire Powell & Roger Mann Berroving regulation of phatoretry-reared bute Misser's (Wirth 16 Finul & Top CAPA ACIDIFICATION & MODEL LING General-mandez, Jurgens, Quige SERMINATION THE PHYLOGEOGRAPHY AND CONACCTION OF THE AND SERVING TO OCEAN ACIDIFICATION OF PROMOSES PHOLES ACIDIS NORTH AND CENTRAL ACIDICA Present Control of Power Pow	00AM					
11:10 AM Non-zoonolic Tissue Parasites in the bastern over the Good Handle Parasites and the provided of the Coonolic Tissue Parasites in the bastern over the Good Handle Parasites and the		David Bushek, Ryan Carnegie	TECHNOLOGY	ACIDIFICATION & MODELLING		GENERAL CONTRIBUTED III Shirley Baker
DISCUSSION OF PERWINSUS SPECIES ACROSS NORTH AND CENTRAL AREBEICA AMERICA AME	OYSTER OYSTER	₹		IMPROVING RESILIENCE OF HATCHERY-REARED BLUE MUSSELS (MYTILUS EDULIS) TO OCEAN ACIDIFICATION WITH DIET AND SEAWATER BUFFERING Holmberg, Tripler, Young, Moretti, John, Root,	OF THE RANGE EXPANDING BLUE CRAB (<i>CALLINECTES</i> SAPIDUS) IN SOUTHERN MAINE ESTUARIES Crane, Gutzler, Burke, Goldstein	GROWTH AND PHYSIOLOGICAL RESPONSES OF FRESHWATER MUSSELS (<i>UTTERBACKIANA IMPLICATA</i> AND <i>SAGITTUNIO NASUTUS</i>) RECIPROCALLY TRANSPLANTED BETWEEN A POND AND STREAM SITE Gentry* , Kreeger
MONITORING PROGRAM Bienlien, Carey MONITORING PROGRAM Bienlien, Carey MIRCE	OF PERK AMERICA Yisrael, Martine:	RKINSUS SPECIES ACROSS NORTH AND CENTRAL CA I, DiMaria, Ciminera, Aguirre-Macedo, ez, Ruiz, Torchin, Hill-Spanik,	DISCUSSION	POTENTIAL OF EASTERN OYSTERS THROUGH AN ECO- PHYSIOLOGICAL MECHANISTIC MODEL Lavaud, La Peyre, Couvillion, Pollack, Brown,	RANGE EXPANSION OF ATLANTIC BLUE CRABS, CALLINECTES SAPIDUS, IN THE GULF OF MAINE	
SESSION TITLE David Bushek, Ryan Carnegie & Tal Ben-horin 11:45 AM Development of Novel Molecular technique to Diagnose Presence and Severity of Hemocytic (Mercenaria Mercenaria) Torselli, Scro, Gast, Sharon, Smolowitz 12:00 NOON Applying Novel Molecular workflows to Monitor Potential Agents of Disease Ciesielski*, Smith, Ben-Horin, Noble Carned Agent Contributed by Allen Pattillo Angela Collins, Charles Weirich & Mark Rath Restoring native shellfish communities for Improved Watter quality and Economic resiliency In the Indian River Lagoon, Florida Osborne, Ibarra-Castro, Sturmer Torselli, Scro, Gast, Sharon, Smolowitz Applying Novel Molecular Workflows to Monitor Potential Agents of Disease Ciesielski*, Smith, Ben-Horin, Noble Applying Novel Molecular Workflows to Monitor Potential Agents of Disease Ciesielski*, Smith, Ben-Horin, Noble Applying Novel Molecular Workflows to Monitor, Potential Agents of Disease Ciesielski*, Smith, Ben-Horin, Noble Applying Novel Molecular Workflows to Monitor, Potential Agents of Disease Ciesielski*, Smith, Ben-Horin, Noble Applying Novel Molecular Workflows to Monitor, State Cansular Campedian Congdon, Smyth, Laws Applying Novel Molecular Workflows to Monitor, Potential Agents of Disease Ciesielski*, Smith, Ben-Horin, Noble Applying Novel Molecular Workflows to Monitor, Potential Agents of Disease Ciesielski*, Smith, Ben-Horin, Noble Applying Novel Molecular Workflows to Monitor, Cansular Company and Survival Mabaka*, Kraemer, Tracy, Tomasetti, Doall, Gobler Applying Novel Molecular Workflows to Monitor, Cansular Company and Survival Mabaka*, Kraemer, Tracy, Tomasetti, Doall, Gobler	VI MONITOR	DRING PROGRAM		CONNECTIVITY OF SEA SCALLOPS, <i>PLACOPECTEN MAGELLANICUS</i> , ALONG THE COAST OF DOWNEAST MAINE	CHARACTERISTICS AND CALLINECTES SAPIDUS REOVIRUS 1 (CSRV1) IDENTIFICATION Ramos*, Attarwala, Andrade, Parsaeimehr,	
DIAGNOSE PRESENCE AND SEVERITY OF HEMOCYTIC NEOPLASIA IN NORTHERN QUAHOGS (= HARD CLAM) (MERCENARIA MERCENARIA) Torselli, Scro, Gast, Sharon, Smolowitz 12:00 NOON APPLYING NOVEL MOLECULAR WORKFLOWS TO MONITOR POTENTIAL AGENTS OF DISEASE Ciesielski*, Smith, Ben-Horin, Noble A YEAR IN REVIEW: THE COMMERCIAL OYSTER AQUACULTURE SECTOR TRAINING (COAST) PROGRAM Tarnecki, Grice MANAGER TRAINING PROGRAM IMPROVED WATER QUALITY AND ECONOMIC RESILIENCY IN THE INDIAN RIVER LAGOON, FLORIDA OSborne, Ibarra-Castro, Sturmer Osborne, Ibarra-Castro, Sturmer A YEAR IN REVIEW: THE COMMERCIAL OYSTER AQUACULTURE SECTOR TRAINING (COAST) PROGRAM Tarnecki, Grice MANAGER TRAINING PROGRAM IMPROVED WATER QUALITY AND ECONOMIC RESILIENCY IN THE INDIAN RIVER LAGOON, FLORIDA OSborne, Ibarra-Castro, Sturmer A YEAR IN REVIEW: THE COMMERCIAL OYSTER AQUACULTURE SECTOR TRAINING (COAST) PROGRAM Tarnecki, Grice A YEAR IN REVIEW: THE COMMERCIAL OYSTER AQUACULTURE SECTOR TRAINING (COAST) PROGRAM CAMPECHIENSIS) IN SOUTHWEST FLORIDA, USA Hesterberg, Hutchins, Sea, Furman, Patranella, Congdon, Smyth, Laws A SSESSING SHORT-TERM EFFECTS OF MARINE HEAT WAYS AND HYPOXIA ON JONAH CRAB (CANCER BOREALIS) FEEDING BEHAVIOR AND SURVIVAL Mabaka*, Kraemer, Tracy, Tomasetti, Doall, Godler A YEAR IN REVIEW: THE COMMERCIAL OYSTER AQUACULTURE SECTOR TRAINING (COAST) PROGRAM CAMPECHIENSIS) IN SOUTHWEST FLORIDA, USA Hesterberg, Hutchins, Sea, Furman, Patranella, Congdon, Smyth, Laws A YEAR IN REVIEW: THE COMMERCIAL OYSTER ACCURATE		David Bushek, Ryan Carnegie	GENERAL CONTRIBUTED IV	AQUACULTURE AS A TOOL FOR RESTORATION Angela Collins, Charles Weirich	GENERAL CONTRIBUTED II	GENERAL CONTRIBUTED III Shirley Baker
APPLYING NOVEL MOLECULAR WORKFLOWS TO MONITOR POTENTIAL AGENTS OF DISEASE Ciesielski*, Smith, Ben-Horin, Noble APPLYING NOVEL MOLECULAR WORKFLOWS TO MONITOR POTENTIAL AGENTS OF DISEASE Ciesielski*, Smith, Ben-Horin, Noble A YEAR IN REVIEW: THE COMMERCIAL OYSTER ASSISTED SEAGRASS RECOVERY USING CO-PLANTINGS OF THE NATIVE SOUTHERN HARD CLAM (Mercenaria CAMPECHIENSIS) IN SOUTHWEST FLORIDA, USA Hesterberg, Hutchins, Sea, Furman, Patranella, Congdon, Smyth, Laws ASSISTED SEAGRASS RECOVERY USING CO-PLANTINGS OF THE NATIVE SOUTHERN HARD CLAM (Mercenaria CAMPECHIENSIS) IN SOUTHWEST FLORIDA, USA Hesterberg, Hutchins, Sea, Furman, Patranella, Congdon, Smyth, Laws ASSISTED SEAGRASS RECOVERY USING CO-PLANTINGS OF THE NATIVE SOUTHERN HARD CLAM (Mercenaria CAMPECHIENSIS) IN SOUTHWEST FLORIDA, USA Hesterberg, Hutchins, Sea, Furman, Patranella, Congdon, Smyth, Laws ASSISTED SEAGRASS RECOVERY USING CO-PLANTINGS OF THE NATIVE SOUTHERN HARD CLAM (Mercenaria CAMPECHIENSIS) IN SOUTHWEST FLORIDA, USA HORSENS HEAT OF THE NATIVE SOUTHERN HARD CLAM (Mercenaria CAMPECHIENSIS) IN SOUTHWEST FLORIDA, USA HORSENS HEAT OF THE NATIVE SOUTHERN HARD CLAM (Mercenaria CAMPECHIENSIS) IN SOUTHWEST FLORIDA, USA HORSENS HEAT OF THE NATIVE SOUTHERN HARD CLAM (Mercenaria CAMPECHIENSIS) IN SOUTHWEST FLORIDA, USA HORSENS HEAT OF THE NATIVE SOUTHERN HARD CLAM (Mercenaria CAMPECHIENSIS) IN SOUTHWEST FLORIDA, USA HORSENS HEAT OF THE NATIVE SOUTHERN HARD CLAM (Mercenaria CAMPECHIENSIS) IN SOUTHWEST FLORIDA, USA HORSENS HEAT OF THE NATIVE SOUTHERN HARD CLAM (Mercenaria CAMPECHIENSIS) IN SOUTHWEST FLORIDA, USA HORSENS HEAT OF THE NATIVE SOUTHERN HARD CLAM (Mercenaria CAMPECHIENSIS) IN SOUTHWEST FLORIDA (MERCENARIA CAMPECHIENS	DIAGNOS NEOPLAS (MERCEN	OSE PRESENCE AND SEVERITY OF HEMOCYTIC ASIA IN NORTHERN QUAHOGS (= HARD CLAM) ENARIA MERCENARIA)	MANAGER TRAINING PROGRAM Epps, Naar, Poe	RESTORING NATIVE SHELLFISH COMMUNITIES FOR IMPROVED WATER QUALITY AND ECONOMIC RESILIENCY IN THE INDIAN RIVER LAGOON, FLORIDA	GREEN CRAB: A WASHINGTON STATE CASE STUDY McDonald, Grason, Tepolt, Litle, Rubinoff, Stote	
12.15 PM ANALYSIS OF GENETIC DIVERSITY OF A NEWLY REMOVAL OF NOCTURNAL HYPOXIA INCREASES CALLING ALL CLAMS: COORDINATING PARTNERS TO ARROW AND THERMAL TOLERANCE: CYTOCHROME P450-DEPEND	OON APPLYING MONITOR	NG NOVEL MOLECULAR WORKFLOWS TO OR POTENTIAL AGENTS OF DISEASE	AQUACULTURE SECTOR TRAINING (COAST) PROGRAM Tarnecki, Grice	OF THE NATIVE SOUTHERN HARD CLAM (MERCENARIA CAMPECHIENSIS) IN SOUTHWEST FLORIDA, USA Hesterberg, Hutchins, Sea, Furman, Patranella,	WAVES AND HYPOXIA ON JONAH CRAB (CANCER BOREALIS) FEEDING BEHAVIOR AND SURVIVAL Mabaka*, Kraemer, Tracy, Tomasetti, Doall, Gobler	Foekema, Keur, Peterson, Peck, Murk
MAXIMIZE PROJECT IMPACT AND PRIORITIZE RESEARCH CONTRASTING RESPONSES IN SHRIMP, CRAYFISH, AND OXIDASES (MFO) SYSTEM DY	DISCOVEI SCALLOP CAROLIN	PERED TREMATODE PARASITE OF THE BAY OP (ARGOPECTEN IRRADIANS) IN NORTH INA	JUVENILE BIVALVE GROWTH Kraemer, Jr.*, Gobler	MAXIMIZE PROJECT IMPACT AND PRIORITIZE RESEARCH OBJECTIVES FOR CLAM RESTORATION INITIATIVES IN FLORIDA Collins, Ryan, Chiles, Hurt, Osborne, Smyth,	CONTRASTING RESPONSES IN SHRIMP, CRAYFISH, AND MUSSELS Abdelrahman, Hussain, Fogelman, Roy, Stoeckel	,

TUESDAY

March 19, 2024 NSA AT THE MOVIES – FILM FESTIVAL – CONTINUOUS SHOWINGS ALL DAY Symphony I Symphony VII ROOM Symphony III Symphony VI Symphony II Symphony V DISEASE SOCIAL DIMENSIONS OF **AQUACULTURE AS A TOOL FOR eDNA APPLICATIONS FOR SCIENCE & PUBLIC ENGAGEMENT** SESSION David Bushek, Ryan Carnegie **SHELLFISHERIES** RESTORATION SHELLFISH **WORKSHOP** TITLE & Tal Ben-horin **Adriane Michaelis & Don Webster** Chuck Weirich, Mark Rath Phoebe Jekielek **David Shiffman** & Angela Collins INFECTION WITH SACCULARINA SP. REDUCES EGG HOW REPRESENTATIVE IS YOUR SAMPLE? STREAMLINING REGULATION TO FACILITATE MULTIFACETED STUDY OF AN ONGOING RANGE 1:30 PM DEMOGRAPHIC DATA IN THE US SHELLFISH EXPANSION OF BLUE CRABS (CALLINECTES SAPIDUS) QUANTITY BUT NOT EGG QUALITY OF THE BAY SEAGRASS AND NATIVE CLAM RESTORATION SCALLOP, ARGOPECTEN IRRADIANS Henry*, Grey, Goldstein, Crane, Miller, AQUACULTURE INDUSTRY AQUACULTURE McMahan, Batchelder Buck, Boggess, Andrade, Ben-Horin, Wilbur Michaelis, Walton Williams*, Ankersen, DePaolis, Collins POTENTIAL IMPACTS OF THE PARASITIC TREMATODE, THE EFFECTS OF BIVALVE SHELLFISH AQUACULTURE USING DNA METABARCODING TO UNDERSTAND THE ADOPTING PRINCIPLES OF FOOD JUSTICE FOR 1:45 PM FEEDING ECOLOGY OF THE ATLANTIC SEA SCALLOP, ON SEDIMENT DENITRIFICATION IN FLORIDA BUCEPHALUS CUCULUS, IN A COLLAPSED OYSTER EQUITABLE OYSTER AQUACULTURE INDUSTRY DEVELOPMENT Foursa, Collins, Sturmer, Gassen, Anderson, PLACOPECTEN MAGELLANICUS FISHERY Kirby, Geiger, Levine, Davis Sandolo, St. Gelais, Costa-Pierce, Miller-Smyth Munoz*, McDowell, Rudders THIS HANDS-ON WORKSHOP WILL TEACH THE BASIC Hope, Hood, Hale, Black, Young PRINCIPLES AND ADVANCED TIPS AND TRICKS FOR EDNA METABARCODING TO SURVEY SHELLFISH IN IMPROVED RESISTANCE TO VIBRIO CORALLIILYTICUS OYSTER ENHANCEMENT FOR NEW HAMPSHIRE IMPACTS OF GENTRIFICATION, LOSS OF ACCESS, AND PUBLIC SCIENCE ENGAGEMENT, FOCUSING ON 2:00 PM THE GULF OF MAINE AND OSTREID HERPESVIRUS 1 MORTALITY IN CRAFTING YOUR MESSAGE AND USING SOME SOCIAL A CHANGING COASTAL ENVIRONMENT ON THE OYSTER GROWERS AND ESTUARIES JUVENILE PACIFIC OYSTERS (CRASSOSTREA GIGAS) SOFTSHELL CLAM FISHERY IN MAINE Jones, Grizzle, Ward, Gross **Bolton Jr.*, Grey-Avis, Peters** MEDIA TOOLS TO SHARE IT WITH THE WORLD. Farr, McMahan, Batchelder SELECTED FOR A SINGLE NUCLEOTIDE POLYMORPHISM ON CHROMOSOME 8 Lunda*, Divilov, Green, Sutherland, Jennings, Mandour, Mueller, Wang, Jin, Langdon EDNA: Casting a new net for monitoring sea MAXIMIZING OYSTER AQUACULTURE YIELD ACROSS **EXPLORING RESILIENCE IN THE OYSTER FARMING** THREE-DIMENSIONAL REEFS: MOVING OYSTER 2:15 PM INDUSTRY OF NORTH CAROLINA RESTORATION OUT OF THE STONE AGE SCALLOP (PLACOPECTEN MAGELLANICUS) FISHERIES DIVERSE DISEASE DEFENSE TRAITS Bulmer*, Gomez-Chiarri, Proestou, Ben-Horin | Eimers*, Murray, Noble DePaola Jekielek*, Leslie, Price **AQUACULTURE AS A TOOL FOR** OsHV1 NOROVIRUS SOCIAL DIMENSIONS OF **eDNA APPLICATIONS FOR SCIENCE & PUBLIC ENGAGEMENT** SESSION **SHELLFISHERIES WORKSHOP** Kimberly Reece RESTORATION SHELLFISH TITLE **Adriane Michaelis & Don Webster** Chuck Weirich, Mark Rath Phoebe Jekielek **David Shiffman** & Angela Collins ADAPTING AQUACULTURE TECHNIQUES TO ENHANCE ENVIRONMENTAL DNA EARLY-WARNING SYSTEMS MULTIPLE OMICS TO DISENTANGLE NEW FACETS OF INCREASING SHELLFISH AQUACULTURE 2:30 PM OYSTER POPULATIONS, CRASSOSTREA VIRGINICA, IN THE ENIGMATIC FAMILY OF MOLLUSC HERPESVIRUSES INTERSECTIONS WITH OYSTER RESTORATION: FOR BIOFOULING: PROMISES AND PITFALLS Rosani, Bortoletto, Bai, Krupovic Grey, Moline, Havener, Noren, Pierce, Brady REEF RESTORATION IMPLICATIONS FOR SHELLFISH HEALTH MANAGEMENT Carnegie LoBuglio, Capps, Golightly, Rikard SURVEY OF SHELLFISH AQUACULTURE MANAGEMENT QUANTIFYING HABITAT PROVISION SERVICES OF ENHANCING BLUE MUSSEL SEED COLLECTION KNOWLEDGE IS POWER: RESOLVING THE 2:45 PM PRIORITIES IN MAINE, NORTH CAROLINA, AND OYSTER (CRASSOSTREA VIRGINICA) AQUACULTURE THROUGH LARVAL-SPECIFIC ENVIRONMENTAL RNA GEOGRAPHIC DISTRIBUTION AND HOST RANGE OF OsHV-1 on the East and Gulf coasts to FLORIDA (ERNA) TOOLS AND PERFORMANCE AMONG TWO FARMED STRAINS Ernst, Beal, Grey, Salter, Whitney, Price Arthur*, Murray MITIGATE IMPEDIMENTS ON SHELLFISH AQUACULTURE GROWN ALONG A TIDAL GRADIENT COMMERCE Campbell, Hudock, Motz, Carlisle, Hale Burge, Prado-Zapata, MacIntyre, Hudson, Webster, Carnegie, Reece CONCERNED OYSTERMEN RESTORING ESTUARIES UPDATE ON LABORATORY CHALLENGES TO ENVIRONMENTAL DEOXYRIBONUCLEIC ACID (EDNA): VALUES, PROBLEM DEFINITIONS, AND POLICY 3:00 PM Grice, Swann CRASSOSTREA VIRGINICA FAMILIES AND LINES WITH PREFERENCES IN MAINE AQUACULTURE DOES THE SCIENCE MAKE SENSE? Fail*, Murray Zajicek, Stone OsHV-1 MICROVARIANTS Reece, Small, Agnew, MacIntyre, Scott, Burge ASSESSING EASTERN OYSTER CRASSOSTREA IMPACT OF BACTERIAL COMMUNITY AND ACCLIMATION A ROADMAP FOR ADVANCING SOCIAL LICENSE TO LEVERAGING AQUACULTURE FOR RESTORATION: AN 3:15PM ON MORTALITY OF JUVENILE PACIFIC OYSTERS OPERATE FOR AQUACULTURE: EAST AND WEST OVERVIEW OF THE SUPPORTING OYSTER VIRGINICA PREDATION UTILIZING REAL-TIME COAST USA AQUACULTURE AND RESTORATION PROGRAM MONITORING AND EDNA ANALYSIS IN DELAWARE (CRASSOSTREA GIGAS) CAUSED BY OSHV-1 Whitmore, Noll, Davis, Avena INFECTION Foster, Hancock, Jones, Greenberg, Borgert INLAND BAYS Day, Sarowar, Lunda, Zanuzzo^P, Langdon Attarwala*, Ramos, Andrade, Riggi, Boukari, Venello, Parsaeimehr, Ozbay BEST PRACTICES HELP GROWERS IMPROVE SOCIAL FEASIBILITY OF USING SHELLFISH AQUACULTURE FOR 3:30 PM LICENSE WATER QUALITY IMPROVEMENT INITIATIVES IN Rheault FLORIDA Smyth, Ankersen, Baker, Collins, Foursa, Grogan, Lovestrand, Patterson, Sturmer DISCUSSION THE NEW JERSEY SHELLFISH AQUACULTURE EMPOWERING SEAFOOD SERVERS TO TELL THE 3:45 PM STORIES OF AQUACULTURED OYSTERS: 2024 EXCHANGE — A CROSS-CUTTING APPROACH TO UPDATE ON THE OYSTER ESSENTIALS TRAINING HABITAT RESTORATION AND RESILIENCY PROGRAM Rowe, Calvo, DeLuca, Munroe, Babb, Walton, Bliss, Marquez, Michaelis, Petrolia, Normant, Steuber, Evert, Thompson Rider, Sturmer, Walton POSTER SESSION AND HAPPY HOUR 4:00 – 6:00 PM Symphony IV STUDENT ENDOWMENT FUND AUCTION 7:00 - 10:00 PM

Symphony Foyer

WEDNESDAY March 20, 2024 PLENARY: Eileen Hofmann (Old Dominion University) – Models in shellfish biology - what can they tell us? 8:00-8:50AM Symphony V-VI-VII NSA AT THE MOVIES – FILM FESTIVAL – CONTINUOUS SHOWINGS ALL DAY Symphony I ROOM Symphony II Symphony III Symphony V Symphony VI Symphony VII HATCHING A PLAN FOR **BIRDS & SHELLFISH SANITATION** MACROALGAE-SHELLFISH **ANTHROPOGENIC POLLUTANTS ART & DESIGN OF EFFECTIVE SESSION** AQUACULTURE **Bob Rheault CO-CULTURE** AND THEIR IMPACTS ON SCIENCE PRESENTATIONS **TITLE** COMMUNICATIONS: STRATEGIES, Michael Doall SHELLFISH BIOLOGY AND **Eric Heupel RESOURCES & PARTNERSHIPS ECOLOGY Brianna Shaughnessy Evan Ward & Kayla Mladinich** MANAGEMENT OF BIRD-RELATED PATHOGEN RISK IN A SNAPSHOT OF NOAA RESOURCES FOR SEAFOOD SHELLFISH AND SEAWEED AQUACULTURE ECOSYSTEM INVESTIGATING THE INTERACTIONS BETWEEN 9:15AM SHELLFISH AQUACULTURE MICROPLASTICS AND FRESHWATER BIVALVES COMMUNICATIONS AND ENGAGEMENT SERVICES HORIZON SCAN: PROJECT UPDATE Michaelis, Bricker^P, Hollarsmith, Rose, Theuerkauf Olatunji*, Collins, Holohan, Ward Shaughnessy Rheault FISHERMEN OR SCIENTISTS? HOW IDEOLOGY SHAPES HIGH-RESOLUTION MONITORING OF AVIAN COMMUNITIES INVESTIGATING SUSPENSION-FEEDING INVERTEBRATES AS STRATEGIES FOR CO-CULTURING SEAWEED AND BIVALVES 9:30AM SCIENTIFIC AND INDUSTRY PERSPECTIVES BIOINDICATORS OF MICROPLASTICS WHO THE PUBLIC TRUSTS FOR INFORMATION ON AT MARICULTURE OPERATIONS YIELDS INSIGHTS INTO COMMUNITY DYNAMICS, BIOGEOCHEMISTRY, AND Bailey, Olsen, Barbery Mladinich*, Holohan, Shumway, Ward AQUACULTURE Whitmore, Noll, Davis, Safford, Hamilton SANITATION RISKS O'Keefe*, Fodrie SEABIRDS, CAMPYLOBACTER, AND OFF-BOTTOM OYSTER **EXPANDING THE ECOSYSTEM SERVICES OF OYSTER FARMS** EXTREME HEAT EVENT INFLUENCES THE TOXIC IMPACTS OF WINDOW TO AN UNDERWATER WORLD: SHARING THE 9:45AM WITH THE CO-CULTIVATION OF SUGAR KELP, SACCHARINA TIO₂ NANOPARTICLES WITH DIFFERENT CRYSTAL AQUACULTURE HABITAT VALUE OF SHELLFISH FARMS WITH A BROAD THIS WORKSHOP WILL DISCUSS A NUMBER OF CORE IDEAS Matvey*, Tarnecki, Rikard STRUCTURES ON THE MUSSEL, MYTILUS CORUSCUS LATISSIMA: MAXIMIZING NITROGEN BIOEXTRACTION AUDIENCE AND TECHNIQUES THAT CAN HELP SCIENTISTS AND Jabanoski, Rose, Phillips, Clark, Dixon, Redman, Doall, Curtin, Morrell, Eckstein, Chen, Meichenbaum, Li*, Li, Wei, Mao, Hu, Wang RESEARCHERS CREATE MORE ENGAGING POWER POINT Smith, Mercaldo-Allen Gobler SLIDES AND POSTERS RESULTING IN A MORE EFFECTIVE WAY TO COMMUNICATE SCIENCE TO ALL AUDIENCES. NUTRIENT REMEDIATION CAPACITY OF THREE NEW ZEALAND | EFFECTS OF PERFLUOROOCTANOATE AND NANO TITANIUM ASSESSING THE RISK OF PATHOGEN CONTAMINATION AQUACULTURE COMMUNICATIONS RESOURCES AND 10:00AM INITIATIVES PROVIDED BY NOAA NATIONAL SEA GRANT KELP SPECIES: CONSIDERATIONS FOR IMTA APPLICATIONS FROM ROOSTING BIRDS ON AQUACULTURE GEAR DIOXIDE ON MALE GONADS OF THE THICK-SHELL MUSSEL WITH PERNA CANALICULUS Richard, Muller, Paton, Lavoie, Gomez-Chiarri, Rath, Weirich, Shaughnessy, Davis, Meltzer, MYTILUS CORUSCUS Dupree, Garber McWilliams McCarthy*, Wing Pan*, Sun, Hu, Wang ESTABLISHING A FRAMEWORK FOR UNDERSTANDING RISKS ACHIEVING CARBON NEUTRAL BIVALVE AQUACULTURE VIA THE OCEAN ACIDIFICATION MAY INCREASE THE BIOLOGICAL 10:15AM CULTIVATION OF SEAWEEDS ASSOCIATED WITH BIRDS ON SHELLFISH AND CO-CULTURE IMPACT OF METAL POLLUTION ON COMMERCIAL BIVALVES, A Gobler, Tomasetti, Doall CASE STUDY FROM MINE WASTE DEPOSITS IN ARCTIC **OPERATIONS** DISCUSSION Noble, Blackwood, Bennett, Clerkin, Smith, Rastrick, Jiang, Brown, Aguera, Bank, van der Eimers, O' Keefe, Ciesielski Meeren, Jiang, Rastrick^P 10:30-11:00AM **MORNING BREAK** THE FUTURE OF AQUACULTURE **BIRDS & SHELLFISH SANITATION** MACROALGAE-SHELLFISH ANTHROPOGENIC POLLUTANTS **ART & DESIGN OF EFFECTIVE SESSION** AND THEIR IMPACTS ON AT THE NOAA FISHERIES **Bob Rheault CO-CULTURE** SCIENCE PRESENTATIONS **TITLE** SERVICE Michael Doall SHELLFISH BIOLOGY AND **Eric Heupel Danielle Blacklock ECOLOGY Evan Ward & Kayla Mladinich** THE IMPACTS OF TWO MACROALGAL SPECIES, ULVA SP. AND MAPPING IMPACT RISKS ASSESSMENT OF NAVIGATION NOISE RISK OF PATHOGEN TRANSFER FROM BIRDS IS UNKNOWN 11:00 AM ON GIANT SCALLOP BEDS IN THE GULF OF ST. LAWRENCE, GRACILARIA SP. ON THE GROWTH AND SURVIVORSHIP OF Hudson EASTERN OYSTER, CRASSOSTREA VIRGINICA Eckstein, Doall, Gobler, McGuire, Chen, Sylvers Poitevin, Aulanier, Olivier, Jezequel, Archambault, Chauvaud, Tremblay GREENING AQUACULTURE: CULTIVATION OF NATIVE SEA EXPOSURE TO PLASTIC DEBRIS ALTERS EXPRESSION OF 11:15 AM LETTUCE (*ULVA* SPP.) FOR POLYCULTURE RESEARCH BIOMINERALIZATION, IMMUNE, AND STRESS-RELATED GENES IN THE EASTERN OYSTER (CRASSOSTREA VIRGINICA) Mundy*, Carroll Eierman, Landis IDENTIFICATION OF MOLECULAR BIOMARKERS AGAINST THE MITIGATION OF HARMFUL ALGAL BLOOMS (ALEXANDRIUM 11:30 AM CATENELLA, PSEUDO-NITZSCHIA SPP., DINOPHYSIS XENOBIOTICS IN THE MARINE GREEN MUSSEL, PERNA ACUMINATA, MARGALEFIDINIUM POLYKRIKOIDES) BY **VIRIDIS** CULTIVABLE SEAWEEDS Chinnaiah Sylvers*, Gobler IN THIS WORKSHOP, PARTICIPANTS WILL USE INSTANT RESPONSE TECHNOLOGY TO TAKE PART IN 11:45 AM PRIORITIZATION DISCUSSIONS OF EXISTING AQUACULTURE RELATED SERVICES THE NOAA FISHERIES SERVICE PROVIDES DISCUSSION 12:00 NOON 12:15 PM **NSA BUSINESS LUNCHEON** 12:30-2:00 PM Symphony Foyer **SCALLOP GALLOP** 2:00 - 4:30 PM **EXPLORE CHARLOTTE!!**

4:30 - 6:00 PM

POSTER SESSION AND HAPPY HOUR

Symphony IV

			SDAY 21 2024			
8:00-8:50AM	March 21, 2024 PLENARY: Gregory Dietl (Cornell University) – <i>Conservation paleobiology: putting the dead to work</i> Symphony V-VI-VII					
	NSA AT THE MOVIES – FILM FESTIVAL – CONTINUOUS SHOWINGS ALL DAY Symphony I					
ROOM	Symphony II	Symphony III	Symphony V	Symphony VI		
SESSION TITLE	DOWN ON THE FARM Leslie Sturmer & Bill Walton	COMMERCIAL SHELLFISHERIES Kevin Stokesbury & David Rudders	HARMFUL ALGAL BLOOMS Steve Morton	VIBRIO Steve Jones		
9:15AM	,	CULTURED SOFTSHELL CLAM: A COMPARATIVE EXPERIMENT FROM THREE MAINE COMMUNITIES	UPTAKE, DISTRIBUTION, AND DEPURATION OF PSP-INDUCING PHYCOTOXINS IN ARCTIC SURFCLAMS MACTROMERIS POLYNYMA (STIMPSON 1860) Sanders*, Beal, Leighfield, Morton, Shumway	HOST SPECIFICITY OF PREDATORY BACTERIA AGAINST HUMAN PATHOGENIC STRAINS OF VIBRIO PARAHAEMOLYTICUS: POTENTIAL INTERVENTION STRATEGIES FOR VIBRIOS IN MARKET OYSTERS Richards, Williams, Watson, Jones		
	THERMAL STRESS BETWEEN DIPLOID AND TRIPLOID EASTERN OYSTERS (<i>Crassostrea virginica</i>) From the	MANAGEMENT OF COMMERCIAL BAY CLAM DIVE FISHERY	Annual Spatial and Temporal Dynamics of Margalefidinium Polykrikoides in Rhode Island Whitney*, Scro, Osinski, Savastano, Sharon, Scott, Smolowitz	USE OF DIRECT-FED MICROBES TO ENHANCE SHRIMP RESISTANCE TO A <i>VIBRIO PARAHAEMOLYTICUS</i> STRAIN		
9:45AM	THE OFF-BOTTOM OYSTER AQUACULTURE INDUSTRY IN FLORIDA Sturmer, Anderson, Roberts	DENSITY ON GROWTH AND SURVIVAL OF CULTURED JUVENILE ARCTIC SURFCLAM, <i>MACTROMERIS POLYNYMA</i> , IN TWO EASTERN MAINE INTERTIDAL FLATS	Investigating the relationship between seawater nutrients and harmful algal blooms at Rhode Island shellfish farms Osinski, Savastano, Whitney, Scro, Scott, Sharon, Smolowitz	EXPANDING INDUSTRY APPLICATIONS OF BIPHASIC ASSAYS FOR VIBRIO ENUMERATION IN OYSTERS DePaola, Kim, Tarnecki, Dewey		
10:00AM	ASSESSING THE EFFECTS OF HUSBANDRY DECISIONS ON	A NUMERICAL INVESTIGATION OF SIZE SELECTIVITY IN A MODIFIED SCALLOP DREDGE	ALGAL TOXINS IN CULTURED OYSTERS ACROSS DIVERSE COASTAL SITES Simpson*, Schnetzer, Ben-Horin	DEVELOPMENT OF IDENTIFICATION AND DETECTION METHODS FOR EMERGING CAUSES OF VIBRIOSIS Jones, Pruente, McGough, Hyde-Leard, Neil		
10:15-10:45AM		MORNING	G BREAK			
SESSION	DOWN ON THE FARM	COMMERCIAL SHELLFISHERIES	HARMFUL ALGAL BLOOMS	VIBRIO		
TITLE	Leslie Sturmer & Bill Walton	Kevin Stokesbury & David Rudders	Steve Morton	Steve Jones		
10:45AM	BIOFOULING MONITORING BENEFITS FOR SHELLFISH AQUACULTURE	REDUCE FLATFISH CATCH	THE SYNERGISTIC EFFECTS OF HARMFUL ALGAE AND OCEAN ACIDIFICATION ON LARVAL BIVALVE SURVIVAL	CLIMATE CHANGE AND INFECTIOUS DISEASES: THE VIBRIO MODEL Brumfield, Usmani, Jutla, Huq, Colwell		
	Duit. Gilaw. Goillail. Gilaid	THE LINITED STATES SEA SCALLOP RESOURCE: ITS	Tracy*, Farrell, Tang, Callahan, Gobler Assessing Behavioral Changes in the Eastern			
11:00 AM		HISTORIC SUCCESS AND PRESENT DECLINE Stokesbury	ASSESSING BEHAVIORAL CHANGES IN THE EASTERN OYSTER, CRASSOSTREA VIRGINICA, WHEN EXPOSED TO MARGALEFIDINIUM POLYKRIKOIDES Brothers, Scro, Whitney, Brosnahan, Chamberlin,	LONG-TERM SEASONAL ECOLOGY OF VIBRIO PARAHAEMOLYTICUS IN THE NORTHEAST US Jones, White, Foxall, Whistler		
	RECOVERY MECHANISMS OF EELGRASS (ZOSTERA MARINA) FOLLOWING MECHANICAL HARVEST OF PACIFIC OYSTERS	HISTORIC SUCCESS AND PRESENT DECLINE Stokesbury NOAA-SUPPORTED RESOURCES FOR COMMERCIAL SHELLFISHERIES RESEARCHERS, MANAGERS, AND OPERATORS	ASSESSING BEHAVIORAL CHANGES IN THE EASTERN OYSTER, CRASSOSTREA VIRGINICA, WHEN EXPOSED TO MARGALEFIDINIUM POLYKRIKOIDES Brothers, Scro, Whitney, Brosnahan, Chamberlin, Sharon, Scott, Smolowitz	LONG-TERM SEASONAL ECOLOGY OF VIBRIO PARAHAEMOLYTICUS IN THE NORTHEAST US Jones, White, Foxall, Whistler		
11:15 AM	RECOVERY MECHANISMS OF EELGRASS (ZOSTERA MARINA) FOLLOWING MECHANICAL HARVEST OF PACIFIC OYSTERS (CRASSOSTREA GIGAS)	HISTORIC SUCCESS AND PRESENT DECLINE Stokesbury NOAA-SUPPORTED RESOURCES FOR COMMERCIAL SHELLFISHERIES RESEARCHERS, MANAGERS, AND OPERATORS	ASSESSING BEHAVIORAL CHANGES IN THE EASTERN OYSTER, CRASSOSTREA VIRGINICA, WHEN EXPOSED TO MARGALEFIDINIUM POLYKRIKOIDES Brothers, Scro, Whitney, Brosnahan, Chamberlin, Sharon, Scott, Smolowitz PARTICIPATORY SCIENCE APPROACH TO MONITOR HARMFUL ALGAL BLOOMS, AND CHANGES IN ENVIRONMENTAL CONDITIONS WITH THE AQUACULTURE INDUSTRY Morton, Rene, Maucher-Fuquay, Shuler	LONG-TERM SEASONAL ECOLOGY OF VIBRIO PARAHAEMOLYTICUS IN THE NORTHEAST US Jones, White, Foxall, Whistler EFFICACY OF REFRIGERATED WET STORAGE TO REDUCE VIBRIO PARAHAEMOLYTICUS AS DEMONSTRATED BY A NOVEL TEST KIT		
11:15 AM	RECOVERY MECHANISMS OF EELGRASS (ZOSTERA MARINA) FOLLOWING MECHANICAL HARVEST OF PACIFIC OYSTERS (CRASSOSTREA GIGAS) Boardman*, Ruesink OYSTER FARMING RESILIENCE INDEX Grice, Swann, Sempier, Sempier, Deal DOWN ON THE FARM	NOAA-SUPPORTED RESOURCES FOR COMMERCIAL SHELLFISHERIES RESEARCHERS, MANAGERS, AND OPERATORS Wright-Fairbanks, Perotti ^P SHELLFISH RESTORATION &	ASSESSING BEHAVIORAL CHANGES IN THE EASTERN OYSTER, CRASSOSTREA VIRGINICA, WHEN EXPOSED TO MARGALEFIDINIUM POLYKRIKOIDES Brothers, Scro, Whitney, Brosnahan, Chamberlin, Sharon, Scott, Smolowitz PARTICIPATORY SCIENCE APPROACH TO MONITOR HARMFUL ALGAL BLOOMS, AND CHANGES IN ENVIRONMENTAL CONDITIONS WITH THE AQUACULTURE INDUSTRY Morton, Rene, Maucher-Fuquay, Shuler	LONG-TERM SEASONAL ECOLOGY OF VIBRIO PARAHAEMOLYTICUS IN THE NORTHEAST US Jones, White, Foxall, Whistler EFFICACY OF REFRIGERATED WET STORAGE TO REDUCE VIBRIO PARAHAEMOLYTICUS AS DEMONSTRATED BY A NOVEL TEST KIT Dewey, Louma, Wood, DePaola, Kim RELATIONSHIP BETWEEN GAPING BEHAVIOR OF THE EASTERN OYSTER, CRASSOSTREA VIRGINICA, AND VIBRIO SPP. LOAD Kleist*, Stoeckel, Tarnecki, Rikard VIBRIO		
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THURSDAY March 21, 2024

NSA AT THE MOVIES – FILM FESTIVAL – CONTINUOUS SHOWINGS ALL DAY Symphony I

Symphony I						
ROOM	Symphony II	Symphony III	Symphony V	Symphony VI		
SESSION TITLE	HATCHERIES Don Webster	SHELLFISH RESTORATION & CONSERVATION Dave Eggleston, Martin Posey & Peter Kingsley-Smith	ADVANCING THE REGIONAL SHELLFISH SEED BIOSECURITY PROGRAM David Bushek, Ryan Carnegie, Karen Hudson & Tal Ben-horin	VIBRIO Steve Jones		
1:00 PM	EVALUATING ABIOTIC AND BIOTIC FACTORS INFLUENCING NORTHERN QUAHOG (= HARD CLAM) PRODUCTION IN FLORIDA, USA Anderson, Sturmer, Laramore, Getter, Collins, Philps, Baker	DISTRIBUTION OF OYSTER SETTLEMENT ON NOVEL REEFENSE MODULES AND IMPLICATIONS FOR ARTIFICIAL REEF COLONIZATION Shinn, Coli, Bushek, Holland, Ruszala, Nassif	ADVANCING THE REGIONAL SHELLFISH SEED BIOSECURITY PROGRAM (RSSBP) Bushek, Carnegie, Hudson, Ben-Horin, Safi, Rheault, Gustafson, Walton, Pollack, Sturmer, Rowe	ASSESSING THE ABUNDANCE OF VIBRIO PARAHAEMOLYTICUS AND V. VULNIFICUS IN CULTURED OYSTERS ASSOCIATED WITH MACROALGAE FROM RHODE ISLAND Scro, Geisser, Smolowitz, Fulweiler		
1:15 PM	DEVELOPING A PILOT SCALE SHELLFISH HATCHERY IN DELAWARE — FIRST YEAR PROGRESS UPDATE Campbell, McIntosh, Campbell, Hale	EXPLORING WHETHER CARBONATE CHEMISTRY SHOULD BE CONSIDERED FOR SITE SELECTION FOR EASTERN OYSTERS (CRASSOSTREA VIRGINICA) Lemaire*, Carroll, Hoskins-Brown, Hintz	INFECTION PREVALENCE AND INTENSITY OF PERKINSUS	PHYLOGEOGRAPHY OF NORTH ATLANTIC POPULATIONS OF SEQUENCE TYPE 36 VIBRIO PARAHAEMOLYTICUS Whistler, Foxall, Means, Marcinkiewicz, Xu, Hall, Schillaci, DeRosia-Banick, Cooper, Jones		
1:30 PM	PROBIOTIC-INDUCED PROTECTION OF PACIFIC OYSTER (CRASSOSTREA GIGAS) LARVAE FROM VIBRIOSIS IN HATCHERY SETTINGS Thorstenson, Schubiger, Lunda, Mueller, Langdon	TRACKING SOURCES AND SINKS OF EASTERN OYSTER (CRASSOSTREA VIRGINICA) METAPOPULATIONS IN SHINNECOCK BAY, NEW YORK, USA Woodard*, Doall, Dana, Eckstein, Curtin, Morrell, Gobler	STATUS, PARTICIPATION, AND PROGRESS OF THE HATCHERY COMPLIANCE PROGRAM OF THE REGIONAL SHELLFISH SEED BIOSECURITY PROGRAM (RSSBP) Hudson, Bushek, Carnegie, Ben-Horin, Safi, Rheault, Gustafson, Marxen, Walton, Pollack, Sturmer, Rowe			
1:45 PM	IMPROVING SPAWNING SUCCESS OF THE SUNRAY VENUS CLAM, <i>MACROCALLISTA NIMBOSA</i> Laramore, Baptiste, Perri, Sturmer	ANALYSIS AND VARIABILITY OF METAPOPULATION CONNECTIVITY IN OYSTER RESTORATION Lipcius, Shen, Schulte	A COMPARISON OF SHELLFISH IMPORTATION REGULATIONS ACROSS EAST AND GULF COAST STATES Safi, Hudson, Sturmer, Bushek, Carnegie, Ben-Horin, Rheault, Gustafson, Marxen, Walton, Pollack, Rowe			
2:00 PM	PANGENOME ANALYSIS OF <i>PHAEOBACTER INHIBENS</i> , A MARINE PROBIONT FOR OYSTERS Coppersmith*, Nelson, Rowley, Gomez-Chiarri	OYSTERS AS AN ECOLOGICAL INDICATOR FOR EVERGLADES RESTORATION Geiger, Levine, Kirby	AN OVERVIEW AND DISCUSSION ON THE REGIONAL SHELLFISH SEED BIOSECURITY PROGRAM (RSSBP) DATABASE AND MAPPING TOOL Marxen, Safi, McGurk, Bushek, Carnegie, Hudson, Ben-Horin, Rheault, Gustafson, Walton, Pollack, Sturmer, Rowe			
2:15 PM		INCREASED MACROFAUNAL SECONDARY PRODUCTION WITH OYSTER ARTIFICIAL SUBSTRATES IN THE YORK RIVER, VIRGINIA Seitz, Patel, Knick, Saluta, Lipcius	EXPANDING THE REGIONAL SHELLFISH SEED BIOSECURITY PROGRAM (RSSBP) IN THE SOUTHEAST US AND ACROSS THE GULF OF MEXICO Ben-Horin, Walton, Pollack, Sturmer, Bushek, Carnegie, Hudson, Safi, Rheault, Gustafson, Marxen, Rowe			
2:30 PM		USING UNCREWED AERIAL SYSTEMS TO MAP INTERTIDAL EASTERN OYSTER (<i>CRASSOSTREA VIRGINICA</i>) REEFS TO INFORM MANAGEMENT AND RESTORATION PRACTICES IN THE SOUTHEASTERN UNITED STATES Sánchez, Sundin, Faulk, Mitchell, Simpson, Kingsley-Smith	ADVANCING THE REGIONAL SHELLFISH SEED BIOSECURITY PROGRAM (RSSBP) Carnegie, Ben-Horin, Bushek, Hudson, Safi, Rheault, Gustafson, Marxen, Walton, Pollack, Sturmer, Rowe			
2:45PM		THE EVOLUTION OF CUSTOMIZABLE, WIRE-BASED REEF-BUILDING SUBSTRATE FOR OYSTER (<i>CRASSOSTREA VIRGINICA</i>) HABITAT RESTORATION IN COASTAL SOUTH CAROLINA, USA Kingsley-Smith, Sundin, Faulk, Mitchell, Hodges, Swain, Lambert	DISCUSSION			
3:00 PM 3:15 PM		A LONG AND WINDING ROAD: 20 YEARS INTO HARD CLAM RESTORATION IN CENTRAL GREAT SOUTH BAY, NEW YORK Starke, LoBue EXPLORING THE RECOVERY AND SPATIAL DISTRIBUTION OF PISMO CLAMS (<i>Tivela stultorum</i>) on Pismo Beach, California				
3:30 – 6:00 PM			HAPPY HOUR ony Foyer			
Symphony Fuyer						