

MONDAY
March 27, 2017

7:00 AM	STUDENT BREAKFAST (STUDENTS ONLY) – Riverview (11th floor)	
8:00-8:50 AM	PLENARY: Daniel Speiser – <i>Holding mirrors up to nature: the structure, function, and evolution of the eyes of scallops</i> Kentucky-Georgia	
ROOM	Carolina	Georgia
SESSION TITLE	BIVALVE MOLLUSCS AS FOOD STRUCTURE, HABITAT, AND ECOSYSTEM ENGINEERS Kay McGraw & Steve Allen	COMPARATIVE GENOMICS Marta Gomez-Chiarri, Steven Roberts & Dina Proestou
9:00 AM	BIVALVE MOLLUSCS AS FOOD, STRUCTURE, HABITAT, AND ECOSYSTEM ENGINEERS McGraw	IDENTIFICATION OF CANDIDATE DISEASE-RESISTANCE GENES IN THE EASTERN OYSTER UTILIZING GENOMIC RESOURCES FROM THE PACIFIC OYSTER Liu & Guo
9:15 AM	MUTUALISM BETWEEN <i>GUEKENSIA DEMISSA</i> AND <i>SPARTINA ALTERNIFLORA</i> ENHANCES SALT MARSH NITROGEN REMOVAL: IMPLICATIONS FOR LIVING SHORELINES Bilkovic, Mitchell, Smyth, Schliep, Isdell	DEVELOPMENT OF A FLAT OYSTER <i>OSTREA EDULIS</i> TRANSCRIPTOMIC DATABASE AND AN OLIGO-MICROARRAY TO EVALUATE GENE EXPRESSION PROFILES OF HAEMOCYTES IN RESPONSE TO BONAMIOSIS Pardo, Ronza, Cao, Hasanuzzaman, Millán, Robledo, Álvarez-Dios, Gómez-Tato, Quiroga, Villalba^P, Martínez
9:30 AM	BEYOND THE CLUMP: IDENTIFYING OPTIMAL SHORELINES FOR RIBBED MUSSEL (<i>GUEKENSIA DEMISSA</i>) RECRUITMENT Isdell*, Bilkovic, Hershner	A MULTI-OMIC APPROACH TO REVEAL QPX-CLAM INTERACTIONS Allam, Bassim, Hartman, Wang, Pales Espinosa
9:45 AM	DETERMINING ECOLOGICAL BASELINES FOR THE RIBBED MUSSEL (<i>GUEKENSIA DEMISSA</i>) AND THE POTENTIAL HARVESTING IMPACTS OF ITS EMERGING COMMERCIAL FISHERY IN SOUTH CAROLINA, USA Julien*, Tweel, Hadley, McGlinn, Kingsley-Smith	A COMPARATIVE MOLECULAR, BIOCHEMICAL, AND STRUCTURAL ANALYSIS OF GALECTINS FROM AQUATIC MOLLUSCS: THEIR ROLE(S) IN INNATE IMMUNITY Vasta, Feng, Bianchet, Bachvaroff, Tasumi
10:00 AM	EVALUATING OYSTER REEF- AND NATURAL FIBER-BASED LIVING SHORELINE STRATEGIES IN SOUTH CAROLINA, USA Kingsley-Smith, Stone, Hodges, Tweel, Johnson, Smith, Keppler, Hadley, Slagel, Sanger	TRANSCRIPTIONAL PATTERNS OF CHROMATIN-ASSOCIATED GENES IN RESPONSE TO ENVIRONMENTAL STRESS REVEALED BY NETWORK ANALYSIS Suarez-Ulloa*, Aguiar-Pulido, Narasimhan, Eirin-Lopez
10:15 AM	OYSTER COMMUNITIES ON ARTIFICIAL SUBSTRATES OF VARYING COMPLEXITY IN CHESAPEAKE BAY Seitz, Knick, Harris	EXPRESSED EXOME CAPTURE SEQUENCING: (EECSEQ): A METHOD FOR COST-EFFECTIVE EXOME SEQUENCING OF NON-MODEL ORGANISMS Puritz & Lotterhos
10:30 – 11:00	MORNING BREAK	
SESSION TITLE	BIVALVE MOLLUSCS AS FOOD STRUCTURE, HABITAT, AND ECOSYSTEM ENGINEERS Kay McGraw & Steve Allen	COMPARATIVE GENOMICS Marta Gomez-Chiarri, Steven Roberts & Dina Proestou
11:00 AM	INCENTIVIZING NATIVE OYSTER RESTORATION THROUGH ECONOMIC VALUATION OF ECOSYSTEM SERVICES IN SOUTHERN CALIFORNIA Winslow*, Grant, Group, Ho, Read, Zacherl	SEX DETERMINATION/DIFFERENTIATION GENES IN THE FUNCTIONAL HERMAPHRODITE SCALLOP, <i>NODIPECTEN SUBNODOSUS</i> , IDENTIFIED IN A <i>DE NOVO</i> TRANSCRIPTOME ANALYSIS Galindo-Torres*, García-Gasca, Llera-Herrera, Escobedo-Fregoso, Abreu-Goodger, Ibarra

11:15 AM	PLANNING NATIVE OYSTER RESTORATION THROUGH A HABITAT SUITABILITY ANALYSIS Group*, Read, Grant, Ho, Winslow, Zacherl	TRANSCRIPTOMIC AND GENOMIC APPROACHES OF ENDOCRINE DISRUPTION SUGGEST NON-GENOMIC ESTROGEN SIGNALING IN <i>MYTILUS EDULIS</i> Blalock*, Duphily, Krick, Robinson, Poynton
11:30 AM	AN EXAMINATION OF THE USE OF SEASCAPE SCALE HABITATS INCLUDING OYSTER AQUACULTURE AND <i>ZOSTERA MARINA</i> BY FISH AND CRAB IN US PACIFIC NORTHWEST ESTUARIES Clarke*, Thomas-Nash, Dumbauld	TRANSCRIPTOMIC INFORMATION FROM PACIFIC WHITE SHRIMP (<i>LITOPENAEUS VANNAMEI</i>) OVARY AND EYESTALK, AND EXPRESSION PATTERNS FOR GENES PUTATIVELY INVOLVED IN THE REPRODUCTIVE PROCESS Ventura-López, Galindo-Torres, Arcos, Galindo-Sánchez, Racotta, Escobedo-Fregoso, Llera-Herrera, Ibarra
11:45 AM	EASTERN OYSTER REEFS FACILITATE SEAGRASS BEDS Lipcius, Colden, Bachand	GONADAL TRANSCRIPTOME ANALYSIS OF THE PACIFIC GEODUCK, <i>PANOPEA GENEROSA</i> Del Río-Portilla, Vargas-Peralta, Lafarga De La Cruz, Vadopalas, Roberts
12:00 NOON	OYSTER REEF RESTORATION IN HARRIS CREEK, MARYLAND: A DIVER'S PERSPECTIVE Paynter, Needham, Pleva, Potter	GENOMIC RESPONSES OF MOLLUSC BIOMINERALIZATION TO OCEAN ACIDIFICATION Xu, Richards, Mallozzi, Errera, Supan
12:15 PM	HARVESTING OYSTERS FOR FOOD WHILE CONSERVING REEFS AS HABITAT: A SHELL-BUDGET MODEL APPROACH Soniat, Powell, Cooper	ARE WE GETTING THE REAL PICTURE? TECHNICAL ARTIFACTS THAT BLUR THE CHARACTERIZATION OF SYMBIOTIC MICROBES IN BIVALVES Park & Allam
12:30 – 2:00PM	LUNCH BREAK	
SESSION TITLE	BIVALVE MOLLUSCS AS FOOD STRUCTURE, HABITAT, AND ECOSYSTEM ENGINEERS Kay McGraw & Steve Allen	COMPARATIVE GENOMICS Marta Gomez-Chiarri, Steven Roberts & Dina Proestou
2:00 PM	INFLUENCE OF REEF HEIGHT AND OYSTER AGGREGATION ON ESTIMATES OF <i>CRASSOSTREA VIRGINICA</i> CLEARANCE RATES IN THE GUANA TOLOMATO MATANZAS NATIONAL ESTUARINE RESEARCH RESERVE (GTM NERR), FL Schuman* & Baker	PHENOTYPIC, GENETIC, AND EPIGENETIC POPULATION STRUCTURE OF OLYMPIA OYSTERS IN PUGET SOUND, WASHINGTON Silliman*, Bower, Roberts
2:15 PM	FAIR WEATHER FRIENDS ONLY: DO BIVALVES FAILS AS ECOSYSTEM ENGINEERS IN CONTROLLING TEMPERATE-BOREAL SPRING ALGAL BLOOMS? Levinton	THE POTENTIAL FOR ACCLIMATIZATION TO OCEAN ACIDIFICATION THROUGH EPIGENETIC MEMORY IN GEODUCK CLAMS Putnam, Spencer, Roberts, Goetz
2:30 PM	QUANTIFYING BIVALVE SHELLFISH FOOD AVAILABILITY BY CHLOROPHYLL-A WITH <i>IN VIVO</i> FLUORESCENCE-BASED SENSORS – WHAT NEEDS TO BE CONSIDERED? Li, Dixon, Smith, Wikfors	POPULATION GENOMICS AND PHYLOGEOGRAPHY OF THE OLYMPIA OYSTER (<i>OSTREA LURIDA</i>) Silliman*, Eernisse, Walter
SESSION TITLE	BIVALVE MOLLUSCS AS FOOD STRUCTURE, HABITAT, AND ECOSYSTEM ENGINEERS Kay McGraw & Steve Allen	COMPARATIVE GENOMICS WORKSHOP Marta Gomez-Chiarri, Steven Roberts & Dina Proestou
2:45 PM	SEASONAL FEEDING AND GROWTH OF THE EASTERN OYSTER (<i>CRASSOSTREA VIRGINICA</i>) IN THE DAMARISCOTTA RIVER ESTUARY, MAINE Adams*, Mayer, Rawson, Newell	RECENT EFFORTS IN GENOMIC SEQUENCING FOCUSED ON INVERTEBRATE SPECIES PROVIDE AN EXCITING OPPORTUNITY TO ANSWER A MULTITUDE OF BASIC AND APPLIED QUESTIONS RELATED TO SHELLFISH BIOLOGY AND ECOLOGY. IN THIS HANDS-ON WORKSHOP, SPONSORED BY USDA NRSP-8 AND A USDA AWARD TO SEQUENCE THE EASTERN OYSTER GENOME, WE WILL PREVIEW THE EASTERN OYSTER GENOME ASSEMBLY AND DEMONSTRATE HOW TO EXPLOIT THIS AND
3:00 PM	COUPLED REMOTE SENSING AND <i>IN SITU</i> MONITORING TO ENHANCE SHELLFISH PRODUCTION AND IDENTIFY NEW HABITATS IN MAINE Gray, Snyder, Martin, Whittemore, Miller, Brady	

3:15 PM	Discussion	OTHER GENOMICS RESOURCES TO ANSWER KEY QUESTIONS IN INVERTEBRATE BIOLOGY. PLEASE BRING YOUR LAPTOP.
3:30 – 4:00 PM	AFTERNOON BREAK	
SESSION TITLE	UNDERGRADUATE RESEARCH COLLOQUIUM Edward Catapane	COMPARATIVE GENOMICS WORKSHOP Marta Gomez-Chiarri, Steven Roberts & Dina Proestou
4:00 PM	THE NEUROTOXIC EFFECTS OF MANGANESE ON DOPAMINE POST-SYNAPTIC RECEPTORS ARE REVERSED BY TAURINE Loney-Walsh*, Dubose, Carroll, Catapane	RECENT EFFORTS IN GENOMIC SEQUENCING FOCUSED ON INVERTEBRATE SPECIES PROVIDE AN EXCITING OPPORTUNITY TO ANSWER A MULTITUDE OF BASIC AND APPLIED QUESTIONS RELATED TO SHELLFISH BIOLOGY AND ECOLOGY. IN THIS HANDS-ON WORKSHOP, SPONSORED BY USDA NRSP-8 AND A USDA AWARD TO SEQUENCE THE EASTERN OYSTER GENOME, WE WILL PREVIEW THE EASTERN OYSTER GENOME ASSEMBLY AND DEMONSTRATE HOW TO EXPLOIT THIS AND OTHER GENOMICS RESOURCES TO ANSWER KEY QUESTIONS IN INVERTEBRATE BIOLOGY. PLEASE BRING YOUR LAPTOP.
4:15 PM	COORDINATED BEATING OF GILL LATERAL CELL CILIA OF <i>MYTILUS EDULIS</i> AND <i>CRASSOSTREA VIRGINICA</i> INVOLVES NEURONAL INNERVATION AND FUNCTIONING GAP JUNCTIONS Robertson*, Buchanan, Frank, Catapane, Carroll	
4:30 PM	IMMUNOHISTOFLUORESCENCE LOCALIZATION OF BIOGENIC AMINE RECEPTORS IN GANGLIA AND TISSUES OF THE BIVALVE MOLLUSC, <i>MYTILUS EDULIS</i> Jacobs*, Cummings, Carroll, Catapane	
4:45 PM	TAURINE PREVENTS IN NEUROTOXIC EFFECTS OF MANGANESE ON THE PHYSIOLOGICAL RESPONSE OF A CILIO-INHIBITORY DOPAMINERGIC SYSTEM Ernest*, Fatoke-Osobukola, Carroll, Catapane	
5:00 PM	COMPARATIVE STUDY OF THE RESPONSE TO LIGHT ON THE SENSORY MOTOR INTEGRATION OF GILL LATERAL CELL CILIA IN BIVALVE MOLLUSCS Jean-Pierre*, Semple, Catapane, Carroll	
5:30 – 6:30 PM	STUDENT SESSION: NEXT STEPS AFTER GRADUATE SCHOOL: PERSPECTIVES FROM EARLY CAREER SCIENTISTS Kentucky	

TUESDAY
March 28, 2017

8:00 – 8:50 AM	PLENARY: Kevin Stokesbury – <i>The role of science in shellfish management: the scallop resource in a changing environment</i> Kentucky-Georgia	
ROOM	Carolina	Georgia
SESSION TITLE	DOWN ON THE FARM LeRoy Creswell & Julie Davis	GENETICS Stan Allen, Ximing Guo & Louis Plough
9:00 AM	PROGRESS TOWARD STREAMLINING SHELLFISH HEALTH MANAGEMENT Carnegie & Bushek	HIGH GENETIC LOAD IN MARINE ANIMALS: A REVIEW OF THE EVIDENCE Plough
9:15 AM	DOWN(EAST) ON THE SCALLOP FARM IN MAINE Morse	
9:30 AM	EXAMINING THE POTENTIAL OF PONDEROUS ARK (<i>NOETIA PONDEROSA</i>) CULTURE IN FLORIDA Sturmer & Scarpa	ISSUES AND SOLUTIONS IN USING GENOME SCANS TO UNDERSTAND THE GENETIC BASIS OF LOCAL ADAPTION Lotterhos
9:45 AM	THREATENED BIRDS ENDANGER OYSTER FARMS Calvo, De Luca, Bushek	DEEP ECOTYPE-SPECIFIC LINEAGES OR PARALLEL EVOLUTION IN NORTH AMERICA? THE RELATIONSHIP BETWEEN PHENOTYPIC AND GENOTYPIC DIVERGENCE IN <i>LITTORINA SAXATILIS</i> IN THE GULF OF MAINE Kingston & Walker
10:00 AM	INTERACTIONS BETWEEN A THREATENED SHOREBIRD AND OYSTER AQUACULTURE IN NEW JERSEY: DO FARMS IMPACT RED KNOT HABITAT USE AND FORAGING? Maslo, Lockwood, Bushek, Burger	GENETIC SIGNATURE OF INTERANNUAL OYSTER RECRUITMENT EVENTS IN THE LOWER CHESAPEAKE BAY Turley*, McDowell, Reece
10:15 AM	EVALUATING COST EFFECTIVE STRATEGIES FOR MITIGATING MUD BLISTER WORM INFESTATIONS IN OFF-BOTTOM OYSTER AQUACULTURE Gamble, Walton, Dorgan	HATCHERY-INDUCED GENETIC CHANGES DURING PRODUCTION OF RESTORATION SEED: HOW EXTENSIVE ARE THEY AND DO THEY MATTER? Hare
10:30-11:00AM	MORNING BREAK	
SESSION TITLE	DOWN ON THE FARM LeRoy Creswell & Julie Davis	GENETICS Stan Allen, Ximing Guo & Louis Plough
11:00 AM	GAUGING THE CURRENT IMPACT OF BLISTER WORM ON THE ATLANTIC AND GULF COAST OYSTER CULTURE INDUSTRIES Rawson, Walton, Dorgan, Morse	PARENTAGE ANALYSIS REVEALS LOSS OF GENETIC DIVERSITY IN HATCHERY PRODUCED COHORTS OF THE EASTERN OYSTER <i>CRASSOSTREA VIRGINICA</i> Hornick* & Plough
11:15 AM	PREVENTATIVE TREATMENTS FOR THE CONTROL OF BLISTER WORM <i>POLYDORA WEBSTERI</i> IN THE EASTERN OYSTER <i>CRASSOSTREA VIRGINICA</i> Rawson, Pianka, Morse	CHANGES IN GENETIC COMPOSITION OF PACIFIC OYSTER (<i>CRASSOSTREA GIGAS</i>) LARVAE REARED IN HIGH <i>pCO₂</i> CONDITIONS Durland*, De Wit, Langdon
11:30 AM	UNDERSTANDING <i>POLYDORA WEBSTERI</i> INFESTATION IN <i>CRASSOSTREA VIRGINICA</i> : APPLICATIONS FOR OFF-BOTTOM OYSTER FARMING Shade* & Walton	TESTING FOR GENETIC EFFECTS ON OYSTER STRESS TOLERANCE AND FITNESS-RELATED PERFORMANCE McFarland, Hare
11:45 AM	THE EFFECT OF PLOIDY AND BROODSTOCK ORIGIN ON SPRING MORTALITIES OF COMMERCIALY RAISED OYSTERS, <i>CRASSOSTREA VIRGINICA</i> Matt*, Guévelou, Allen Jr.	SUPERIOR TRIPLOID EASTERN OYSTERS PRODUCED BY SELECTING TETRAPLOIDS Guo, Liu, Xu, Chen, Dong, Lv, Whiteside, DeBrosse

12:00 NOON	OYSTER SOUTH: SUPPORTING OYSTER FARMING IN THE US SOUTH Walton, Walton, Rackley, Golden	EVOLUTION OF MITOTIC INSTABILITY IN TRIPLOID AND TETRAPLOID PROGENY OF THE EASTERN OYSTER <i>CRASSOSTREA VIRGINICA</i> OVER TIME USING CYTOGENETIC TECHNIQUES Sousa & Allen Jr.
12:15 PM	AN UPDATE ON THE STATUS OF OYSTER AQUACULTURE (<i>CRASSOSTREA VIRGINICA</i>) IN GEORGIA AND AN OVERVIEW OF THE BLUEPRINT FOR GEORGIA OYSTER AQUACULTURE Bliss, Guadagnoli, Andrews, Gambill, Risse	SUPERNUMERARY CENTROSOMES ASSOCIATED WITH ABNORMAL CHROMOSOME SEGREGATION IN TRIPLOID AND TETRAPLOID EMBRYOS OF <i>CRASSOSTREA VIRGINICA</i> Mosaru, Sousa, Allen Jr.^P
12:30–2:00 PM	LUNCH BREAK	
SESSION TITLE	DOWN ON THE FARM LeRoy Creswell & Julie Davis	FISHERIES AND CLIMATE CHANGE Roger Mann & Eric Powell
2:00 PM	OYSTER FARMING IN SOUTH CAROLINA: INDUSTRY DEVELOPMENT, CHALLENGES, AND OPPORTUNITIES Davis	DETERMINING INCIDENTAL DISCARD MORTALITY OF SEA SCALLOPS IN THE DREDGE FISHERY IN THE MID-ATLANTIC BIGHT Morson* & Bochenek
2:15 PM	DEVELOPMENT AND EXPANSION OF SHELLFISH AQUACULTURE IN NORTH CAROLINA: CHALLENGES AND OPPORTUNITIES Weirich	THE ROLE OF FISHERY ENHANCEMENT IN THE SUSTAINABLE OYSTER FISHERY IN DELAWARE BAY Munroe, Ashton-Alcox, Morson, Bushek
2:30 PM	THE REGULATORY BURDEN: TYPES OF ECONOMIC EFFECTS ON WEST COAST SHELLFISH FARMS van Senten, Engle	ASSESSMENT OF TROPHIC RESOURCES OF <i>CRASSOSTREA VIRGINICA</i> IN THE TEN THOUSAND ISLANDS MANGROVE (FLORIDA, USA) USING STABLE ISOTOPE AND LIPID BIOMARKERS Hermabessière, Loh, Le Grand, Goodman, Volety, Soudant^P
2:45 PM	DESIGN, BUILDING, AND PERFORMANCE OF SIMPLE YET FUNCTIONAL AMPHIBIOUS FARM VEHICLE Calvo, Calvo, Bosco	SUSTAINABILITY OF SPANISH CLAM FISHERIES IN A CHANGING CLIMATE Wethey, Woodin, Vázquez, Olabarria, Domínguez, Macho, Peteiro, Key
3:00 PM	LEGISLATIVE UPDATES FOR THE TEXAS OYSTER FISHERY, RESTORATION, AND AQUACULTURE Scarpa & Fox	EVIDENCE OF MULTIDECADAL RECRUITMENT IN THE OCEAN QUAHOG, <i>ARCTICA ISLANDICA</i> , IN THE WESTERN ATLANTIC OCEAN Pace*, Powell, Mann, Klink
3:15 PM	COLLAPSE OF THE OYSTER FISHERY IN APALACHICOLA BAY, FLORIDA Parker, Davis, Martin, Maloney, Tolopka	INVASION DYNAMICS OF THE OCEAN QUAHOG, <i>ARCTICA ISLANDICA</i> , IN THE WESTERN ATLANTIC OCEAN Powell, Pace, Mann, Klink
3:30 PM	FIELD TESTING OF NOVEL ANTIFOULING COATINGS FOR THE AQUACULTURE INDUSTRY Walsh, Shumway, Bullard	TRACKING THE FOOTPRINTS OF ATLANTIC SURFCLAMS AND OCEAN QUAHOGS FROM A 30-YEAR SURVEY IN GEORGES BANK: A TALE OF TWO SPECIES? Moreno, Powell, Kuykendall

SESSION TITLE	SHELLFISH AND HUMAN FOOD SECURITY Eddie Allison	FISHERIES AND CLIMATE CHANGE Roger Mann & Eric Powell
3:45 PM	WOMEN, A CRITICAL LINK IN SHELLFISHERIES AND FOOD SECURITY IN WEST AFRICA Crawford, Rice, Kent, Ndiaye, Janha, Sasu	SPATIAL DISTRIBUTION OF ATLANTIC SURFCLAMS (<i>SPISULA SOLIDISSIMA</i>) IN THE MIDDLE ATLANTIC BIGHT AND GEORGES BANK Timbs*, Mann, Powell
4:00 PM	THE ROLE OF LIFE CYCLE ASSESSMENT (LCA) IN EVALUATING ENVIRONMENTAL COSTS OF ANIMAL SOURCE FOODS Hilborn, Banobi, Hall, Pucylowski*^P, Walsworth	FACTORS AFFECTING DISTRIBUTION OF THE ATLANTIC SURFCLAM (<i>SPISULA SOLIDISSIMA</i>), A CONTINENTAL SHELF BIOMASS DOMINANT, DURING A PERIOD OF CLIMATE CHANGE Hofmann, Powell, Klinck, Munroe, Mann, Haidvogel, Narváez, Zhang, Kuykendall
4:15 PM	A HIERARCHICAL BAYESIAN MODEL ESTIMATING MICROBIAL CONCENTRATIONS FROM MOST PROBABLE NUMBER DATA Ben-Horin, Audemard, Bushek, Calvo, Reece	Discussion
4:30 – 6:00 PM	POSTER SESSION AND HAPPY HOUR - Mississippi & John Sevier Lobby	
7:00 PM - ???	STUDENT ENDOWMENT FUND AUCTION - Kentucky-Georgia-Carolina	

WEDNESDAY

March 29, 2017

8:00 – 8:50 AM	PLENARY: Eileen Hofmann – <i>Modeling marine bivalve populations: approaches and challenges</i> Kentucky-Georgia		
ROOM	Kentucky	Georgia	Carolina
SESSION TITLE	LARVAL SHELLS George Waldbusser & Jake Goodwin	MODELING MARINE BIVALVE DISEASES Eileen Hofmann & Eric Powell	CONTAMINANTS OF EMERGING CONCERN Evan Ward & Aswani Volety
9:00 AM	CALCULATING TIME-DEPENDENT CONNECTIVITY OF NORTHERN QUAHOG (<i>MERCENARIA MERCENARIA</i>) AND EASTERN OYSTER (<i>CRASSOSTREA VIRGINICA</i>) LARVAE IN BARNEGAT BAY LITTLE EGG HARBOR ESTUARY Goodwin, Defne, Munroe, Ganju, Vasslides	OYSTERS, SUSTAINABILITY, AND THE WORLD OF REFERENCE POINTS Powell, Hofmann, Klinck	INTERACTIONS BETWEEN POLYSTYRENE MICROPLASTICS AND MARINE PHYTOPLANKTON LEAD TO SPECIES-SPECIFIC HETERO-AGGREGATION Long, Paul-Pont, González-Fernández, Hégaret, Moriceau, Lambert, Huvet, Soudant^P
9:15 AM	ANCIENT CLAM GARDENS AS NURSERY GROUNDS: HOW DO SHELL HASH ADDITIONS AFFECT SETTLEMENT AND SURVIVAL? Munroe, Gray, Groesbeck, Solomon, Lepofsky, Rowell	THE INFLUENCE OF HYDRODYNAMICS (ADVECTION AND VERTICAL MIXING) ON DISEASE TRANSMISSION TIME IN BENTHIC METAPOPOPULATIONS DISTRIBUTED AMONG REEFS Bidegain, Klinck, Powell, Hofmann, Levin	INGESTION AND REJECTION OF MICROPLASTICS BY SUSPENSION-FEEDING BIVALVES: IMPLICATIONS FOR EXPOSURE AND ENVIRONMENTAL FATE Ward, Herrick, Rosa, Haynes, Holohan
9:30 AM	UNLOCKING THE SECRETS IN LARVAL SHELLS: LINKING LARVAL EXPOSURE TO PERFORMANCE <i>IN SITU</i> Rivest	INTERACTIONS AMONG CULTIVATED EASTERN OYSTERS <i>CRASSOSTREA VIRGINICA</i> AND THE UPPER DAMARISCOTTA RIVER, MAINE ECOSYSTEM: A COASTAL MONITORING AND MODELING STUDY Newell	INTERACTION OF POLYSTYRENE NANOPARTICLES WITH PACIFIC OYSTER (<i>CRASSOSTREA GIGAS</i>) GAMETES González-Fernández, Le Göic, Lambert, Tallec, Soudant, Huvet, Suquet, Paul-Pont
9:45 AM	INFLUENCE OF DIET ON ELEMENT INCORPORATION IN THE SHELLS OF TWO BIVALVE MOLLUSCS: <i>ARGOPECTEN IRRADIANS CONCENTRICUS</i> AND <i>MERCENARIA MERCENARIA</i> Elsaesser, Blake, Shumway, Hansen, Hallock-Muller, Betzer	PATHOGEN SOURCE OR SINK: THE POTENTIAL ROLE OF BIVALVE AQUACULTURE IN MITIGATING DISEASE RISK Burge, Ben-Horin^P, Groner, Carnegie, Bushek, Hofmann	FATE AND PERSISTENCE OF CONTAMINANTS OF EMERGING CONCERN IN OYSTERS GROWN IN A WASTEWATER-IMPACTED COASTAL POND Costa & Costa
10:00 AM	MORPHOLOGY AND MORPHOMETRY OF LARVAL AND POST-LARVAL BIVALVE MOLLUSCS FROM FRESHWATER, ESTUARINE, AND MARINE HABITATS: A SYNTHESIS Lutz & Goodwin	SPATIAL AND TEMPORAL ANALYSIS OF QPX DISEASE WITH ENVIRONMENTAL CONDITIONS IN RARITAN BAY, NY Dahl & Allam^P	IMPACTS OF <i>DEEPWATER HORIZON</i> OIL AND DISPERSANTS ON VARIOUS LIFE STAGES OF OYSTERS <i>CRASSOSTREA VIRGINICA</i> Volety, Vignier, Roberts, Loh, Boulais, Woodall, Soudant, Chu, Haynes, Morris, Lay, Krasnec, Lipton
10:15 AM	CREATING A LIBRARY OF HISTORICAL LARVAL SHELLS FOR SPECIES-SPECIFIC IDENTIFICATION OF EXTANT AND FUTURE COLLECTIONS Goodwin, Gallager, Johnson, Vrijenhoek, Lutz	Discussion	EFFECTS OF TiO ₂ NANOPARTICLES ON OYSTER HEMOCYTES: <i>IN VITRO</i> STUDIES UNDER LIGHT AND DARK CONDITIONS Doyle, Ward^P, Wikfors
10:30-11:00 AM	MORNING BREAK		

SESSION TITLE	APPLE SNAILS Shirley Baker	CRUSTACEANS Rom Lipcius & Brett Dumbauld	HARMFUL ALGAL BLOOMS AND SHELLFISH Mark Van Asten
11:00 AM	APPLE SNAILS: A REVIEW AND INTRODUCTION TO THE SPECIAL SESSION Baker & Baker	SEASONAL DISEASE CYCLES OF THE PARASITE <i>HEMATODINIUM PEREZI</i> IN THE MARYLAND AND VIRGINIA COASTAL BAYS Lycett* & Pitula	MECHANISTIC MODE OF PARALYTIC SHELLFISH TOXIN ACCUMULATION IN THE PACIFIC OYSTER (<i>CRASSOSTREA GIGAS</i>) Pousse*, Alunno-Bruscia, Flye-Sainte-Marie, Jean
11:15 AM	AN OVERVIEW OF APPLE SNAIL RESEARCH IN LAKE SEMINOLE, GEORGIA Marzolf, Shivers, Smith, Golladay, Covich	ASSOCIATION OF A VIRUS PATHOGENIC TO ATLANTIC BLUE CRABS (<i>CALLINECTES SAPIDUS</i>) WITH FISHING AND AQUACULTURE PRACTICES Spitznagel*, Small, Shields, Lively, Johnson II, Schott	HISTONE VARIANT EXPRESSION AND DNA METHYLATION MODIFICATIONS IN THE EASTERN OYSTER <i>CRASSOSTREA VIRGINICA</i> DURING SHORT-TERM RESPONSES TO FLORIDA RED TIDES Gonzalez-Romero, Suarez-Ulloa, Rodriguez-Casariago, Garcia-Souto, Diaz, Smith, Pasantes, Rand, Eirin-Lopez^P
11:30 AM	INVESTIGATION OF THE POPULATION GENETIC STRUCTURE OF THE INVASIVE ISLAND APPLE SNAIL, <i>POMACEA MACULATA</i> , IN SOUTH CAROLINA, USA Underwood*, Darden, Plante, Fowler, Knott, Kingsley-Smith	MATERNAL AND SALINITY EFFECTS ON BLUE CRAB (<i>CALLINECTES SAPIDUS</i>) LARVAL MORPHOLOGY : IMPLICATIONS FOR BIOPHYSICAL INTERACTIONS Caracappa* & Munroe	HOW WILL THE EMERGING HARMFUL ALGAL BLOOM SPECIES <i>ALEXANDRIUM MONILATUM</i> IMPACT <i>CRASSOSTREA VIRGINICA</i> IN CHESAPEAKE BAY? Pease*, Reece, Vogelbein, Carnegie
11:45 AM	SPATIAL VARIATION IN ADULT SEX RATIO ACROSS MULTIPLE SCALES IN THE INVASIVE GOLDEN APPLE SNAIL, <i>POMACEA CANALICULATA</i> Xu, Dick, Mu, Gu, Luo, Yang, Wei, Fang, Zhang, Hu	CLIMATE CHANGE TRADEOFFS: THE IMPACT OF ACIDIFICATION AND WARMING ON JUVENILE BLUE CRAB, <i>CALLINECTES SAPIDUS</i> , PHYSIOLOGY Glandon*, Paynter, Miller	TETRODOTOXIN (TTX) IN MUSSELS AND OYSTERS IN THE NETHERLANDS Smaal, Blanco-Garcia, van den Heuvel-Greve1, Gerssen, Poelman
12:00 PM	OXYGEN CONSUMPTION IN THE ISLAND APPLE SNAIL, <i>POMACEA MACULATA</i> IN WATER, IN AIR, AND DURING ESTIVATION Deaton & Mueck	SIZE AT MATURITY AND REPRODUCTIVE BIOLOGY OF JONAH CRABS, <i>CANCER BOREALIS</i> , IN THE MID-ATLANTIC BIGHT Olsen* & Stevens	THE EFFECTS OF ALLELOCHEMICALS FROM BLOOM-FORMING SEAWEEDS (<i>ULVA COMPRESSA</i> AND <i>ULVA RIGIDA</i>) ON SHELLFISH LARVAE Green, Gomez-Chiarri, Ranson, Rowley, Thornber
12:15 PM	CALCIUM SPHERULES IN THE MANTLE TISSUE OF THE ISLAND APPLE SNAIL, <i>POMACEA MACULATA</i> Mueck & Deaton^P	LARVAL RECRUITMENT PATTERNS DRIVE BURROWING SHRIMP (<i>NEOTRYPAEA CALIFORNIENSIS</i>) POPULATIONS IN US WEST COAST ESTUARIES AND THREATS TO SHELLFISH AQUACULTURE Dumbauld & Bosley	THE DEVELOPMENT AND APPLICATION OF A GENE BASED QPCR ASSAY FOR EARLY DETECTION AND MONITORING OF PSP-ASSOCIATED BLOOMS Van Asten, Neilan, Ruvindey, Murray
12:30–2:00 PM	NSA BUSINESS LUNCHEON East Lobby		
SCALLOP GALLOP – 5K RUN/WALK (SIGN UP AT THE REGISTRATION DESK) 3PM – LEAVES FROM HOTEL PARKING LOT ENJOY KNOXVILLE!!			
5:00 – 7:00 PM	POSTER SESSION AND HAPPY HOUR - Mississippi & John Sevier Lobby		

THURSDAY

March 30, 2017

**PLENARY: Aad Smaal – *Multiple uses of molluscs*
Kentucky-Georgia**

ROOM	Kentucky	Georgia	Carolina
SESSION TITLE	NEW PERSPECTIVES ON <i>PERKINSUS</i> PARASITES Ryan Carnegie & Kim Reece	CLAMS John Scarpa	GENERAL CONTRIBUTED
8:00 – 8:50 AM			
9:00 AM	MORE THAN TWENTY YEARS OF UNLOCKING THE MYSTERIES OF THE GENUS <i>PERKINSUS</i> USING MOLECULAR TOOLS Reece	ELEVATED TEMPERATURE HAS ADVERSE EFFECTS ON A GABA-MEDIATED ADAPTIVE RESPONSE TO SEDIMENT ACIDIFICATION IN JUVENILE SOFTSHELL CLAMS Clements, Bishop, Hunt	WAVED WHELK (<i>BUCCINUM UNDATUM</i>) IN THE MID-ATLANTIC BIGHT: LIFE HISTORY TRAITS AND POPULATION STRUCTURE Borsetti*, Munroe, Bochenek, Rudders, Dobson
9:15 AM	GENETIC TOOLS FOR DECODING <i>PERKINSUS MARINUS</i> GENOME Robledo, Cold, Freyria, Roos, Waller	SPATIAL VARIATION IN SOFTSHELL CLAM (<i>MYA ARENARIA</i>) RECRUITS IN A SOUTHERN MAINE TIDAL ESTUARY Beal, Coffin, Goodenow, Randall, Ellis, Pepperman, Jourdet	EFFECT OF DIATOM DIET ON PINTO ABALONE (<i>HALIOTIS KAMTSCHATKANA</i>) POSTLARVAL SURVIVAL, GROWTH, AND RADULAR MORPHOLOGY Kuehl*
9:30 AM	ARE JUVENILE MANILA CLAMS, <i>RUDITAPES PHILIPPINARIUM</i> , FREE FROM <i>PERKINSUS OLSENI</i> INFECTION? A CASE STUDY FROM A CLAM POPULATION ON THE WEST COAST OF KOREA Lee, Cho, Kang, Lee, Jeong, Choi	GROWTH AND SURVIVAL OF CULTURED JUVENILES OF THE ARCTIC SURFCLAM, <i>MACTROMERIS POLYNOMA</i> : INTERTIDAL FIELD EXPERIMENTS IN EASTERN MAINE Beal, Jourdet, Pepperman, Shumway, Davis	EFFECTS OF OCEAN ACIDIFICATION ON GONAD DEVELOPMENT OF THE EASTERN OYSTER (<i>CRASSOSTREA VIRGINICA</i>) Madec, Demey, Chenevert, Raine, Roberts, Volety
9:45 AM	SPATIO-TEMPORAL VARIATION IN <i>PERKINSUS OLSENI</i> INFECTION IN MANILA CLAM <i>RUDITAPES PHILIPPINARIUM</i> IN KOREAN WATERS Yang, Kang, Choi	SEXUAL DIMORPHISM IN MARINE BIVALVES AND EMERGING THROUGH ON THE LONG-LIVED <i>ARCTICA ISLANDICA</i> Long, Mann, Powell	HARNESSING ENVIRONMENTAL DNA TO ASSESS THE ENVIRONMENTAL SUSTAINABILITY OF COMMERCIAL SHELLFISH AQUACULTURE IN THE PACIFIC NORTHWEST Kralj*
10:00 AM	EXPERIMENTAL TRANSPLANTATION OF MANILA CLAM <i>RUDITAPES PHILIPPINARIUM</i> FROM AN AREA OF LOW <i>PERKINSUS OLSENI</i> INFECTION TO AN AREA OF HIGH <i>P. OLSENI</i> INFECTION ON THE WEST COAST OF KOREA: DRAMATIC INCREASE IN THE PREVALENCE AND INFECTION INTENSITY Cho, Choi, Lee, Waki, Lee, Park	SUB-ANNUAL SIGNATURES IN THE VALVES OF JUVENILE <i>ARCTICA ISLANDICA</i> AS HISTORICAL RECORD OF INTRA-ANNUAL CHANGING ENVIRONMENT Mann, Long^P, Pace, Powell	THE APPLICATION OF OPERATIONAL NATIONAL WEATHER SERVICE PRECIPITATION DATA TO SHELLFISH HARVESTING MANAGEMENT Schmidt, Blaylock, Zangari, Smith, Jenkins, Glenn
10:15-10:45 AM	MORNING BREAK		

SESSION TITLE	NEW PERSPECTIVES ON <i>PERKINSUS</i> PARASITES Ryan Carnegie & Kim Reece	CLAMS John Scarpa	
10:45 AM	GENE EXPRESSION IN MANILA CLAM <i>RUDITAPES PHILIPPINARUM</i> HAEMOCYTES AND IN THE PARASITE <i>PERKINSUS OLSENI</i> – <i>IN VIVO</i> AND <i>IN VITRO</i> CHALLENGES Hasanuzzaman, Cao, Fernández-Boo, Rubiolo, Robledo, Ronza, Gómez-Tato, Quiroga, Pardo, Villalba^P, Martínez	REPRODUCTIVE PATTERNS AND FATTY ACID COMPOSITION OF THE WILD AND CULTURED SUNRAY VENUS CLAMS, <i>MACROCALLISTA NIMBOSA</i> , ON THE FLORIDA WEST COAST Laramore, Sinacore, Urban, Sturmer, Yang	
11:00 AM	SEAWATER CAN BE AN ALTERNATIVE TO RAY'S FLUID THIOGLYCOLLATE MEDIUM (RFTM) TO DETECT AND QUANTIFY THE INFECTION OF <i>PERKINSUS OLSENI</i> IN THE MANILA CLAM <i>RUDITAPES PHILIPPINARUM</i> Umeda, Waki, Yoshinaga, Itoh	SPAWNING TRIALS WITH CULTURED SUNRAY VENUS CLAMS, <i>MACROCALLISTA NIMBOSA</i> , CONDUCTED OUTSIDE THE NATURAL SPAWNING SEASON Laramore, Baptiste, Sturmer	
11:15 AM	TESTING PLASMA SUBTILISIN INHIBITORY ACTIVITY AS A SELECTIVE MARKER FOR DERMAL RESISTANCE IN EASTERN OYSTERS Xue, Casas, Richards, Xu, La Peyre^P	PROTOCOL DEVELOPMENT FOR SPERM CRYOPRESERVATION IN THE NORTHERN QUAHOG (= HARD CLAM), <i>MERCENARIA MERCENARIA</i> Heenkenda* & Yang	
11:30 AM	DOES TOLERANCE EVOLUTION UNDERLIE AN OYSTER REVIVAL IN CHESAPEAKE BAY? Huey* & Carnegie	CRYOPRESERVATION OF TROCHOPHORE LARVAE IN THE NORTHERN QUAHOG (= HARD CLAM) <i>MERCENARIA MERCENARIA</i> Simon* & Yang	
11:45 AM	EVIDENCE FOR RESISTANCE EVOLUTION AS A COMPONENT OF THE RESPONSE OF <i>CRASSOSTREA VIRGINICA</i> TO <i>PERKINSUS MARINUS</i> Carnegie, Lane, Huey, Crockett	FACULTATIVE PERIOD OF SYMBIONT ACQUISITION AND DEVELOPMENTAL EFFECTS OF SYMBIOSIS IN THE GIANT CLAM <i>HIPPOPUS HIPPOPUS</i> Gula* & Adams	
12:00 – 1:30 PM	LUNCH BREAK		
SESSION TITLE	NEW PERSPECTIVES ON <i>PERKINSUS</i> PARASITES Ryan Carnegie & Kim Reece	MUSSELS Carter Newell & Aad Smaal	PHYSIOLOGY Lewis Deaton
1:30 PM	INFLUENCE OF <i>PERKINSUS MARINUS</i> INFECTION AND OYSTER HEALTH ON LEVELS OF HUMAN-PATHOGENIC <i>VIBRIOS</i> IN OYSTERS Bienlien*, Audemard, Reece, Carnegie	SHELLFISH ASSEMBLAGES AS HOTSPOTS FOR BIODIVERSITY Creaymeersch, Jansen^P, Smaal	TOLERANCE OF <i>CRASSOSTREA VIRGINICA</i> TO COMBINATIONS OF LOW SALINITY AND HIGH TEMPERATURE Southworth, Mann, Long
1:45 PM	INTERANNUAL SEASONAL PATTERNS OF <i>PERKINSUS MARINUS</i> INFECTIONS AND OYSTER MORTALITY IN DELAWARE BAY Bushek, Burt, Ford	PLEASE DON'T GO: AN ASSESSMENT OF SIMULTANEOUS SEEDING OF ADULT AND JUVENILE MUSSELS AS A METHOD TO INCREASE SPAT RETENTION South, Floerl, Jeffs	NEAR INFRARED REFLECTANCE SPECTROSCOPY (NIRS) TO DETERMINE COMPOSITIONAL ANALYSIS IN OYSTERS: PRESENT AND FUTURE Guévelou & Allen Jr.
2:00 PM	VARIATION IN PARASITE AVOIDANCE BEHAVIOR AMONG SELECTIVELY-BRED OYSTER FAMILIES Ben-Horin, Allen Jr., Small, Proestou	EFFECT OF SUBSTRATE AVAILABILITY ON THRESHOLDS IN MUSSEL BED ESTABLISHMENT Capelle, Leuchter, de Wit, Bouma	THE WARBURG EFFECT IS THE METABOLISM THAT PLAYS IN FAVOR OF THE HERPESVIRUS OSHV-1 IN OYSTER <i>CRASSOSTREA GIGAS</i> Corporeau, Delisle, Fuhrmann, Quéré, Pernet

2:15 PM	MONITORING DERMAL DISEASE IN THE MISSISSIPPI SOUND AND OBSERVATION OF A MASS MORTALITY EVENT Kuykendall, Powell, Soniat	EVALUATION OF A SUBMERSIBLE MUSSEL RAFT FOR USE IN SEMI-EXPOSED SITES: FIELD STUDY Dewhurst, Newell, Swift	PHOTORECEPTION AND GILL LATERAL CELL CILIA ACTIVITY IN BIVALVES Catapane & Carroll
SESSION TITLE	DISEASE (CONTRIBUTED) Henry Lane	MUSSELS Carter Newell & Aad Smaal	PHYSIOLOGY Lewis Deaton
2:30 PM	MILFORD PROBIOTIC STRAIN OY15 MOVES TOWARD COMMERCIALIZATION. RESULTS OF A COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENT (CRADA) BETWEEN THE MILFORD LABORATORY AND ENVERA LLC Kapareiko, Alix, Jeffress, Abraham, Hashman, Holt, Wikfors	EVALUATION OF A SUBMERSIBLE MUSSEL RAFT FOR USE IN SEMI-EXPOSED SITES: NUMERICAL MODELING Dewhurst, Newell, Swift	ROLE OF CARBOHYDRATE-PROTEIN INTERACTIONS IN MEDIATING FOOD CHOICE IN SUSPENSION-FEEDING BIVALVES Espinosa & Allam^P
2:45PM	<i>VIBRIO</i> SP. ABUNDANCE IN OYSTERS, WATER, AND SEDIMENT SAMPLED FROM VARIOUS TREATMENT/CULTURE CONDITIONS Scro, Smolowitz, Hamlin, Brawley, Weiss, Kite-Powell	HOW TO MEASURE MUSSEL VITALITY: EVALUATION OF SURVIVAL IN AIR AND NEUTRAL RED ASSAY AS A STRESS RESPONSE INDICATOR FOR THE BLUE MUSSELS (<i>MYTILUS EDULIS</i>) PROCESSING INDUSTRY van der Lee, Garcia, Jansen^P, Smaal	
3:00 PM	REDUCTION OF <i>VIBRIO CORALLIOLYTICUS</i> AND <i>VIBRIO TUBIASHII</i> -INDUCED MORTALITY OF LARVAL OYSTERS USING BACTERIOPHAGE THERAPY Richards & Watson	VARIABLE PARTICLE RETENTION EFFICIENCY BY <i>MYTILUS EDULIS</i> : FACT OR FICTION AND WHY IT MATTERS Cranford, Strohmeier, Filgueira, Strand	
3:15 PM	<i>BONAMIA OSTREAE</i> IN THE NEW ZEALAND FLAT OYSTER <i>OSTREA CHILENSIS</i> : UNDERSTANDING DISPERSAL OF THIS IMPORTANT MARINE PARASITE Lane*, Jones, Poulin		
3:30 – 5:00 PM	CLOSING HAPPY HOUR – Mississippi STUDENT AWARDS PRESENTATION		

Notes: Asterisks (*) denote student presenters

First author is presenting author, otherwise ^P denotes presenting author