			MONDAY March 27, 2022				
		STIIDENT MENTOD MENTEE D	March 27, 2023 REAKFAST (STUDENTS ONLY - <i>Ad</i>	vanced sign up will be required			
6:30-8:00AM		SIUDENI MENIUR-MENIEE B	Chesapeake	vanced sign up will be required)			
8:00-8:50AM	PLEN	IARY: Marisa Bass (Yale University)	 More than just a shell: collecting a Grand Ballroom 	and conchophilia in the Dutch Golde	en Age		
		NSA AT THE MOVIES - FILM FESTIVAL — CONTINUOUS SHOWINGS ALL DAY Promenade					
ROOM	Grand D/E/F	Grand East	Grand West	Grand A/B/C	University 1/2		
SESSION TITLE	ECOSYSTEM SERVICES Suzanne Bricker & Matt Parker	Louis Plough	Rom Lipcius, Rochelle Seitz & Matt Ogburn	BIRDS & SHELLFISH SANITATION Bob Rheault	ONE HEALTH EPIGENOMICS Acacia Alcivar-Warren		
9:00AM	DETERMINING FEEDING RATES IN EASTERN OYSTERS (CRASSOSTREA VIRGINICA) USING NATURAL SESTON FLOW-THROUGH SYSTEM Wiltsee*, Gray	RETROSPECTIVE ON 25+ YEARS OF IMPROVING WEST COAST OYSTER STOCKS Langdon, Schoolfield, Durland, De Melo, Divilov	Bachvaroff, Chung	Rheault	ONE HEALTH EPIGENOMICS: FROM VIBRIOS TO TRANSGENERATIONAL EPIGENETIC INHERITANCE - RECOGNITION OF STUDENTS AND 'OUTSTANDING ONE HEALTH RESEARCHERS' AWARDEES Alcivar-Warren, Tang		
9:15AM	EXAMINING PHYTOPLANKTON-RELATED ECOSYSTEM SERVICES OF SESSILE SUSPENSION FEEDERS IN INNER HARBOR, BALTIMORE, MARYLAND		TESTOSTERONE AND STEROIDOGENIC GENES IN THE MALE BLUE CRAB <i>CALLINECTES SAPIDUS</i> AND THEIR RELATIONSHIP WITH INSULIN-LIKE ANDROGENIC GLAND	SEASONAL PATTERNS OF DISTRIBUTION AND ABUNDANCE OF WATERBIRDS IN RELATION TO OYSTER AQUACULTURE IN COASTAL RHODE ISLAND	TRACKING ECOSYSTEM CONTAMINANTS TO PROTECT PUBLIC HEALTH Jones		
	Kido*, Stewart, Adaranijo, Geba, Schott	VIRGINICA Proestou, Sullivan, Delomas, Lundgren, Hart, Satkowski	FACTOR (IAG) AND CRUSTACEAN FEMALE SEX HORMONE (CFSH) Wang*, He, Blaney, Chung	Muller, Paton, McWilliams ^P			
9:30AM	SPATIALLY-EXPLICIT OYSTER FILTRATION SERVICES IN THE HUDSON RIVER ESTUARY: RESEARCH TO HELP GUIDE RESTORATION AND PUBLIC UNDERSTANDING Gray, Brady, Fraioli, Hare, Kramer, Schreiber	POLYPLOID BREEDING STRATEGIES FOR CRASSOSTREA VIRGINICA Small, Kube, Allen Jr.	Developing and validating novel microsatellite markers in the red deep-sea crab, <i>Chaceon Quinquedens</i> Green, Plough, Chung	EXPERIENCE Rivara, Byrnes, Carden, Finora			
9:45AM	FISH PRODUCTION AND USE OF OYSTER AQUACULTURE GEAR IN COMPARISON TO NATURAL		TRANSCRIPTOMIC ANALYSIS OF THE HEMOCYTE RESPONSE TO A VIRUS INFECTION Chung, Bachvaroff	OBSERVATIONS ON THE USE OF BIRD KITES AT AN OYSTER FARM IN SOUTHERN MOBILE BAY, ALABAMA Supan, Wilson, Bradley	ANALYSIS OF THE EXPRESSION AND INHIBITION OF THE PIRAB VP TOXIN IN VIBRIO AND NON-VIBRIO STRAINS: THE CASE OF THE PVA1 PLASMID Victorio-De Los Santos*, Vázquez-Reyes, Ayón-Pérez, Zambrano-Zaragoza, Agraz-Cibrián, Gutiérrez-Franco		
10:00AM	INTEGRATING INFORMATION ON BENEFICIAL SERVICES PROVIDED BY SHELLFISH AQUACULTURE INTO THE AQUACULTURE PERMITTING AND REVIEW PROCESS Schillaci, Rose, Mercaldo-Allen, Gordon, Clark, Kirk, Milke, Munroe, Phillips, Redman, Schultz, Shinn	,	Investigating the interstate movement of blue crab viruses and the implications for fishery biosecurity Herrera*, Zhao, Bachvaroff, Mohammed Geba, Schott	SMALL-SCALE INVESTIGATIONS OF BIRD DETERRENT METHODS ON AND AROUND MASSACHUSETTS SHELLFISH FARMS USING FLOATING GEAR Reitsma, Archer, Booth			
10:15AM		SEGREGATION DISTORTION AND NULL ALLELES IN THE EASTERN OYSTER (CRASSOSTREA VIRGINICA) Wang*, Guo	PARASITIC DINOFLAGELLATE HEMATODINIUM PEREZI PREVALENCE IN CALLINECTES SPP. IN A TROPICAL URBAN ESTUARY Pares*, Schott	COMPARING AVAILABLE DETERRENT METHODS TO REDUCE DOUBLE-CRESTED CORMORANT ATTEMPTS TO ROOST ON FLOATING OYSTER CAGES Cunningham, Wang, Burr, Tappa, Redd, Glover, Dorr	REPETITIVE SEQUENCE COMPOSITION IN TWO ASSEMBLIES OF PACIFIC OYSTER, CRASSOSTREA GIGAS Alcivar-Warren, Bao		
10:30-11:00AM			MORNING BREAK				
SESSION	UNDERGRADUATE RESEARCH COLLOQUIUM Ed Catapane & Margaret Carroll	SHELLFISH GENETICS & GENOMICS Louis Plough	BLUE CRAB ECOLOGY & FISHERIES Rom Lipcius, Rochelle Seitz & Matt Ogburn	BIRDS & SHELLFISH SANITATION Bob Rheault	ONE HEALTH EPIGENOMICS Acacia Alcivar-Warren		
11:00 AM	EFFECTS OF MANGANESE ON DOPAMINE D2R SIGNAL	Three cryptic surfclam taxa in southern New England: genetic differences, biogeography, and relevance for aquaculture Hare, Hartung	ECOLOGICAL ASPECTS OF THE TRANSMISSION OF HEMATODINIUM PEREZI TO BLUE CRABS Shields, Chen	A CAMPYLOBACTER ILLNESS OUTBREAK ASSOCIATED WITH OYSTERS CONTAMINATED BY SEABIRDS ROOSTING ON FLOATING AQUACULTURE GEAR Borkman, Slaten, Miller, Goetsch	OVERVIEW OF TRANSPOSABLE ELEMENT IDENTIFICATION, CLASSIFICATION, AND ANNOTATION FOR A BETTER EPIGENETIC LANDSCAPE GENERATION IN NON-MODEL EUKARYOTIC GENOMES Rodriguez, Arkhipova		
11:15 AM	Small*, Ulumbelashvili, Catapane, Carroll Western blot study of GABA and histamine Receptors in Peripheral tissues of Crassostrea virginica Mansfield*, Wallach, Foster, Pierce, Souffrant, Carroll, Catapane	CHALLENGES AND OPPORTUNITIES FOR GENOMICS-INFORMED SELECTIVE BREEDING OF HIGHLY DIVERGENT EASTERN OYSTER POPULATIONS IN TEXAS Hollenbeck, Matt, Portnoy	ASPECTS OF THE FEEDING ECOLOGY OF CARCINONEMERTES CARCINOPHILA AND ITS EFFECT ON CALLINECTES SAPIDUS REPRODUCTIVE OUTPUT Schneider, Pomroy*P, Shields	THE PREVALENCE OF BIRDS AS SOURCES OF FECAL CONTAMINATION IN THE SHELLFISH WATERS OF THE NORTHEAST U.S. Jones, Howell, Foxall, Howell			
11:30 AM	EFFECTS OF STIMULATION OF MANTLE RIM SENSORY TENTACLES BY ALGAE ON GILL CILIA BEATING IN THE BIVALVE MOLLUSC, CRASSOSTREA VIRGINICA	GENOMIC SELECTION MODELS FOR THE GROWTH AND SURVIVAL TRAITS OF THE EASTERN OYSTER IN LOW SALINITY WATER	,	Addressing data gaps in the consideration of bird-based pathogen introduction in shellfish aquaculture Noble, Ciesielski	PORTIONS OF A HOMO SAPIENS LINE 1 (L1) SEQUENCE ARE PRESENT IN PENAEID SHRIMP GENOMES Alcivar-Warren		
	Obianke*, McFarlane, Allam, Espinosa, Carroll, Catapane	Liu, Wolf-Bryant, Farrington					
11:45 AM	Obianke*, McFarlane, Allam, Espinosa, Carroll, Catapane	Strategies for cost-effective genomic breeding of Crassostrea virginica in Texas Matt, Portnoy, Hollenbeck	RELATING CLIMATE CHANGE TO ABUNDANCE AND REPRODUCTIVE DYNAMICS OF ATLANTIC BLUE CRAB (CALLINECTES SAPIDUS) IN SOUTH CAROLINA, USA Kendrick, Brunson	DEVELOPING STRATEGIES FOR MANAGERS AND INDUSTRY TO ADDRESS PUBLIC HEALTH CONCERNS RELATED TO BIRD CONGREGATIONS ON FLOATING AQUACULTURE GEAR Schillaci, Rheault	ONE HEALTH APPROACH TO STUDY THE IMPACT OF ANTIMICROBIAL RESISTANCE IN SHRIMP AQUACULTURE Rodulfo, De Donato ^P , Alcivar-Warren		
12:00 NOON	Obianke*, McFarlane, Allam, Espinosa, Carroll, Catapane GABA INHIBITS SEROTONERGIC INNERVATION TO THE GILL FROM THE VISCERAL GANGLIA IN THE BIVALVE MOLLUSC, CRASSOSTREA VIRGINICA	STRATEGIES FOR COST-EFFECTIVE GENOMIC BREEDING OF CRASSOSTREA VIRGINICA IN TEXAS Matt, Portnoy, Hollenbeck IMPROVING LOW SALINITY TOLERANCE IN LOUISIANA POPULATIONS OF THE EASTERN OYSTER, CRASSOSTREA VIRGINICA, USING GENOMIC SELECTION Schwartz, Plough, Lavaud, LaPeyre, Pandelides, Comba, Stauffer	REPRODUCTIVE DYNAMICS OF ATLANTIC BLUE CRAB (CALLINECTES SAPIDUS) IN SOUTH CAROLINA, USA Kendrick, Brunson HABITAT-SPECIFIC ABUNDANCE AND MORTALITY OF JUVENILE BLUE CRAB, CALLINECTES SAPIDUS, WITH BAYESIAN INFERENCE: INFLUENCES OF POST-LARVAL ABUNDANCE, SEASONALITY, AND TURBIDITY Hyman*, Chiu, Seebo, Saluta, Smith, Knick, Lipcius	INDUSTRY TO ADDRESS PUBLIC HEALTH CONCERNS RELATED TO BIRD CONGREGATIONS ON FLOATING AQUACULTURE GEAR	ANTIMICROBIAL RESISTANCE IN SHRIMP AQUACULTURE		
	Obianke*, McFarlane, Allam, Espinosa, Carroll, Catapane GABA INHIBITS SEROTONERGIC INNERVATION TO THE GILL FROM THE VISCERAL GANGLIA IN THE BIVALVE MOLLUSC, CRASSOSTREA VIRGINICA	STRATEGIES FOR COST-EFFECTIVE GENOMIC BREEDING OF CRASSOSTREA VIRGINICA IN TEXAS Matt, Portnoy, Hollenbeck IMPROVING LOW SALINITY TOLERANCE IN LOUISIANA POPULATIONS OF THE EASTERN OYSTER, CRASSOSTREA VIRGINICA, USING GENOMIC SELECTION Schwartz, Plough, Lavaud, LaPeyre, Pandelides, Comba, Stauffer USING ONLY LOW-DENSITY MARKER PANELS FOR GENOMIC SELECTION CAN LEAD TO DECLINING GENOMIC ESTIMATED BREEDING VALUE ACCURACY	REPRODUCTIVE DYNAMICS OF ATLANTIC BLUE CRAB (CALLINECTES SAPIDUS) IN SOUTH CAROLINA, USA Kendrick, Brunson HABITAT-SPECIFIC ABUNDANCE AND MORTALITY OF JUVENILE BLUE CRAB, CALLINECTES SAPIDUS, WITH BAYESIAN INFERENCE: INFLUENCES OF POST-LARVAL ABUNDANCE, SEASONALITY, AND TURBIDITY Hyman*, Chiu, Seebo, Saluta, Smith, Knick,	INDUSTRY TO ADDRESS PUBLIC HEALTH CONCERNS RELATED TO BIRD CONGREGATIONS ON FLOATING AQUACULTURE GEAR Schillaci, Rheault BIRDS ON FLOATING CULTURE, OH MY!	Antimicrobial Resistance in Shrimp aquaculture Rodulfo, De Donato ^P , Alcivar-Warren Epigenetic mechanisms reported in fish and Shellfish exposed to glyphosate-based Herbicides (GBH)		

^{*} denotes student presenter

MONDAY				
Ma	rch	27	2023	

			March 27, 2023		
		NSA AT THE MOVIES	- FILM FESTIVAL - CONTINUOUS	SHOWINGS ALL DAY	
			Promenade		
ROOM SESSION TITLE	Grand D/E/F DIVERSITY AND INCLUSION Angela Caporelli Aswani Volety	Louis Plough	Grand West BLUE CRAB ECOLOGY & FISHERIES Rom Lipcius, Rochelle Seitz & Matt Ogburn	TECHNOLOGY Yang Tao, Miao Yu & Allen Patillo	ONE HEALTH EPIGENOMICS Acacia Alcivar-Warren
1:30 PM		EVALUATION OF THREE NON-LETHAL BIOPSY METHODS FOR SNP ARRAY GENOTYPING IN THE EASTERN OYSTER, CRASSOSTREA VIRGINICA Plough, Schwartz	RELATIONSHIPS BETWEEN COMMUNITY STRUCTURE AND JUVENILE BLUE CRAB ABUNDANCE IN STRUCTURALLY COMPLEX NURSERY HABITATS IN THE YORK RIVER, CHESAPEAKE BAY Guennouni*, Hyman, Smith, Seebo, Saluta, Lipcius	SEABED CLASSIFICATION OF OYSTER FARMS USING A SINGLE BEAM SCANNING SONAR WITH MACHINE LEARNING Xu*, Rajasekaran, William, Pattillo, Gray, Miao Yu	REVERSE TRANSCRIPTASE-RELATED GENES AND THEIR POSSIBLE ROLE IN THE HOST CELL RESPONSE TO TRANSITION METAL POLLUTION Yushenova, Rodriguez, Arkhipova
1:45 PM		OPPORTUNITY FOR GENOMIC SELECTION TO INCREASE SURVIVAL AGAINST AN OSHV-1 MICROVARIANT FROM SAN DIEGO BAY (CALIFORNIA, USA) Thompson, Agnew, Calla, Burge	ONTOGENETIC VARIATION IN BLUE CRAB (CALLINECTES SAPIDUS) USE OF SEAGRASS NURSERIES: SURVIVAL AND ABUNDANCE VARY BY MICROHABITAT Lipcius, Farrar, Bromilow, Orth	MECHANIZED MANILA CLAM FARMING IN NORTHERN PUGET SOUND, WASHINGTON, USA Dewey	
2:00 PM	Does the past shape the future?: The future of increasing diversity in aquaculture Black	THE EFFECTS OF PROBE AND GDNA INSERT LENGTH ON THE DE NOVO ASSEMBLY AND CAPTURE EFFICIENCY OF EXPRESSED EXOME CAPTURE SEQUENCING (EECSEQ) Green*, Puritz	SPATIAL VARIATION IN NURSERY HABITAT USE BY JUVENILE BLUE CRABS IN A SHALLOW, WIND- DRIVEN ESTUARY Voigt, Eggleston ^P	AUTOMATING OYSTER AQUACULTURE WITH SOLAR ENERGY Caffrey, Pattison, Rice, Summers	ARE METALS ENDOCRINE-DISRUPTING CHEMICALS (EDC) IN SHELLFISH? Warren*, Hernandez, Alcivar-Arteaga, Alcivar-Warren
2:15 PM		INVESTIGATING THE EFFECTS OF COASTAL STRESSORS ON THE GENOMIC VARIATION OF OYSTER POPULATIONS IN NARRAGANSETT BAY, RHODE ISLAND	BLUE CRAB AND FORAGE FISH ABUNDANCES ARE REDUCED WITH SUBESTUARY SHORELINE AND UPLAND DEVELOPMENT Seitz, Lipcius, Saluta, Kornis, Breitburg,	DEVELOPING THE OYSTERBOT FOR OYSTER CAGE RETRIEVAL Curran, Leavitt ^P	CLASSIFICATION BY THE WORLD REGISTER OF MARINE SPECIES (WORMS): FOR <i>PENAEUS</i> SPECIES, ONLY <i>PENAEUS VANNAMEI</i> BOONE,
2:30 PM	THROUGH THE ISSUE OF DIVERSITY AND	Lotterhos, Lundgren, Modak, Proestou, Rawson, Robledo, Weedop, Witkop,	Jordan, Weller FEMALE BLUE CRAB SPAWNING MIGRATION REVEALED BY CARAPACE BIOGEOCHEMISTRY Ogburn, Gilmour, Aguilar, Johnson, Richie, Hines	INCORPORATING A DECADE OF WATER QUALITY DATA AROUND WASHINGTON STATE WITHIN A REGIONAL SMART AQUACULTURE FRAMEWORK Page, Booth, Suhrbier, Hudson	1931 IS ACCEPTED (<i>LITOPENAEUS VANNAMEI</i> IS NOT ACCEPTED) Alcivar-Warren
2:45 PM		Genomic and genetic investigations of the Bay scallop population in the Peconic Bay, New York Grouzdev, Espinosa, Muehl, Farhat, Boutet, Tanguy, Tettelbach, Tobi, Allam	Is the high exploitation rate resulting in the declining reproductive output of blue crab (<i>Callinectes sapidus</i>) in the Chesapeake Bay? Fujaya, Aguilar, Bardelli, Richie, Ogburn ^P	SHELLEVATOR TM : AUTOMATING OYSTER PRODUCTION ON SUBMERSIBLE AND MOBILE WATERCRAFT DePaola	IS GLYPHOSATE AND ENDOCRINE DISRUPTING CHEMICAL (EDC) IN PEOPLE AND SHRIMP? - A LITERATURE REVIEW Warren*, Hernandez, Alcivar-Arteaga, Alcivar-Warren
3:00 – 3:30 PM			AFTERNOON BREAK		
ROOM SESSION TITLE	University 3/4 PUBLIC SCIENCE ENGAGEMENT WORKSHOP David Shiffman	Grand East SHELLFISH GENETICS & GENOMICS Louis Plough	Grand West BLUE CRAB ECOLOGY & FISHERIES Rom Lipcius, Rochelle Seitz & Matt Ogburn	Grand A/B/C GENERAL CONTRIBUTED I Matt Parker	University 1/2 ONE HEALTH EPIGENOMICS Acacia Alcivar-Warren
3:30 PM		COMBINING PHYSIOLOGICAL ASSAYS, HIGH- THROUGHPUT SEQUENCING, AND FUNCTIONAL GENOMICS TO UNDERSTAND COSTS AND MECHANISMS ASSOCIATED WITH RESILIENCE TO ACIDIFICATION IN MARINE BIVALVES Schwaner*, Barbosa, Farhat, Boutet, Tanguy, Haley, Espinosa, Allam	AN ECOLOGICAL THREAT AND AN ECONOMIC RESOURCE: THE ATLANTIC BLUE CRAB IN MEDITERRANEAN WATERS Mancinelli	AQUACULTURE REGULATIONS: WHY THE COMPLEXITY? Zajicek	FROM BPA TO PHTHALATES TO PFAS: HOW ENVIRONMENTAL CHEMICALS ARE HARMING SHELLFISH AND HUMAN HEALTH AND WHAT WE CAN DO ABOUT IT Vandenberg
3:45 PM	HOW TO USE SOCIAL MEDIA TO	DENOVO TRANSCRIPTOME ASSEMBLY AND ANALYSIS OF THE FLAT OYSTER PATHOGENIC PROTOZOA, BONAMIA OSTREAE Chevignon, Dotto-Maurel, Serpin, Chollet, Arzul	EVIDENCE FOR A MALE BIAS IN BLUE CRAB (CALLINECTES SAPIDUS) POT-BASED SAMPLING Brunson, Sitta, Kendrick, Kingsley-Smith	COLLABORATIVELY TRACKING SHELLFISH AQUACULTURE PRODUCTION DATA IN WASHINGTON STATE Hudson, Eardley, Toepelt, Butler	
4:00 PM	A HANDS-ON WORKSHOP TO LEARN BASIC PRINCIPLES AND ADVANCED TIPS AND TRICKS FOR PUBLIC SCIENCE ENGAGEMENT, FOCUSING ON	Yong, Carnegie, Kingsley-Smith, Darden	Assessing northeast Florida offshore Blue Crab fishing effort within Florida State waters Ehnert-Russo, Crowley, Becker	MAINE NEARSHORE MARINE RESOURCES PROGRAM: A NEW NAME AND FOCUS Leach, White, Kanwit	
4:15 PM	CRAFTING YOUR MESSAGE AND USING SOME SOCIAL MEDIA TOOLS TO SHARE IT WITH THE WORLD	GENETIC BASIS OF ABNORMAL MUSSEL MORTALITY IN FRANCE USING A FIELD AND EXPERIMENTAL INFECTION INVESTIGATIONS Munusamy*, Lillehammer, Travers, Maurouard, Aslam, Dégremont	OF BLUE CRAB, CALLINECTES SAPIDUS,	University of Maryland online economic spreadsheet tool for oyster aquaculture: A Shellfish odyssey Parker	
4:30 PM			RANKING ECOSYSTEM IMPACTS OF THE CHESAPEAKE BAY BLUE CRAB (CALLINECTES SAPIDUS) USING EMPIRICAL GAUSSIAN GRAPHICAL MODELS Liang, Miller, Nesslage, Wilberg	DETECTING THE MULTIPLE STATES OF OYSTER ACTIVITY AND ORIENTATION USING DEEP LEARNING IMAGE PROCESSING AND COMPUTER VISION ALGORITHMS Jin, Comfort, Rudy	
4:45 PM					

^{*} denotes student presenter

TUESDAY				
March	28,	2023		

			March 28, 2023			
8:00-8:50AM	Grand Ballroom					
		NSA AT THE MO	VIES - FILM FESTIVAL – CONTINUOUS SHO Promenade	WINGS ALL DAY		
ROOM	Grand D/E/F	Grand East	Grand West	Grand A/B/C	University 1/2	
SESSION TITLE	ECHINODERMS Chris Pearce & Andrew Suhrbier	OsHV-1 Norovirus Colleen Burge	NUTRIENTS & SHELLFISH Lisa Kellogg	MUSSELS Luc Comeau	SHRIMPENCODE Acacia-Alcivar Warren & Kathy Tang	
9:00AM	EXPANDING NORTHEASTERN US GREEN SEA URCHIN AQUACULTURE PRODUCTION AND THEIR POTENTIAL TO REDUCE BIOFOULING OF SHELLFISH Suckling, Plee, Morse, Eddy	Degremont, Escoubas, Delmotte, Maurouard, Renault, Morga	DEVELOPING DEFAULT DENITRIFICATION ENHANCEMENT ESTIMATES FOR RESTORED OYSTER REEFS: A CHESAPEAKE BAY EXAMPLE Kellogg, Cornwell, Owens	SEASONAL VARIABILITY OF MYTILUS SP. FEEDING ACTIVITY: THE ROLE OF ENVIRONMENTAL CONDITIONS AND FOOD CHARACTERISTICS Aguera, Strohmeier, Krogness, Rastrick, Strand	SHRIMP GENOMES AND EPIGENOMES (SHRIMPENCODE): RECOGNITION TO STUDENTS AND "OUTSTANDING ONE HEALTH RESEARCHERS" AWARDEES Alcivar-Warren, Tang	
9:15AM	THERMAL PRIMING JUVENILE GREEN SEA URCHINS (STRONGYLOCENTROTUS DROEBACHIENSIS) TO INCREASE TOLERANCE TO EXTREME FIELD HETEROGENEITY Plee*, Suckling	EVALUATION OF TANGENTIAL FLOW FILTRATION COUPLED TO LONG-READ SEQUENCING FOR OSTREID HERPESVIRUS TYPE 1 GENOME ASSEMBLY Dotto-Maurel*, Pelletier, Morga, Jacquot, Faury, Dégremont, Bereszczynki, Delmotte, Escoubas, Chevignon	CRYOPRESERVATION OF TETRASELMIS STRIATA THROUGH SYSTEMATIC EVALUATION OF MULTIPLE PARAMETERS Yee*, Yang	THE ROLE OF GALACTOSAMINE IN MEDIATING CAPTURE EFFICIENCY IN MUSSELS AND ASCIDIANS Capriotti, Holohan, Rosa, Yahel, Shumway, Ward	PENAEID SHRIMP GENOMICS AND POST-GENOMICS: WHOLE REFERENCE GENOMES NEEDED FOR THE ECONOMICALLY IMPORTANT <i>PENAEUS</i> SPECIES Alcivar-Warren, Li	
9:30AM	BIOLOGICAL BIOFOULING CONTROL OF SALMON NET PENS USING THE GIANT RED SEA CUCUMBER, APOSTICHOPUS CALIFORNICUS Montgomery, Cannon, Pearce	VIRAL SHEDDING RATES OF TOLERANT AND SUSCEPTIBLE CRASSOSTREA GIGAS INFECTED WITH MULTIPLE OSHV-1 VARIANTS Agnew*, Burge, Parikh	ESTIMATING OYSTER LARVAL DEVELOPMENT AND SUCCESS AT METAMORPHOSIS IN THE WESTERN MISSISSIPPI SOUND Klein*, Powell, Zhang, Kreeger, Wissing	A MULTI-STUDY ANALYSIS OF GUT MICROBIOME DATA FROM THE BLUE MUSSEL (<i>MYTILUS EDULIS</i>) EMPHASIZES THE METHODOLOGICAL IMPACT OF GUT VOIDANCE ON BIOLOGICAL INTERPRETATION Griffin*, Darsan, Collins, Holohan, Ward		
9:45AM		SUSCEPTIBILITY OF SHELLFISH AQUACULTURE SPECIES IN THE CHESAPEAKE BAY AND MARYLAND COASTAL BAYS TO OSTREID HERPESVIRUS-1 MICROVARIANTS Kachmar*, Reece, Agnew, Schreier, Burge		INITIATING MUSSEL (<i>MYTILUS</i> SP.) MONITORING IN NORWAY AND BASELINE FOR 2021 AND 2022 Strohmeier, Aguera, Strand	Making sense of the taxonomy of the most commercially important shrimp <i>Penaeus fabricius</i> , 1798 s.l. (Crustacea: Decapoda: Penaeidae): a way forward Yang, Ma, Chu, Chan ^P	
SESSION TITLE		OsHV-1 Norovirus Colleen Burge	DOWN ON THE FARM Bill Walton & Leslie Sturmer	MUSSELS Luc Comeau		
10:00AM		MICROBIOME OF THE PACIFIC OYSTER BEFORE, DURING, AND AFTER AN OSHV-1 OUTBREAK Burge, Chu, Grimm, Shen, Dayal, Prado-Zapata, Evans, Dumbauld	GOT THE FUZZ?: A CONVERSATION ABOUT THE EFFECT OF STALKED CILIATES ON OYSTER NURSERY CULTURE Congrove, Glover ^P , Allen Jr., Snyder	IMPACT OF SOUND INTENSITY RELATED TO MARITIME TRANSPORT ON THE EMBRYOGENESIS AND METAMORPHOSIS OF THE BLUE MUSSEL, MYTILUS EDULIS Veillard*, Beauclercq, Olivier, Laurent, Genard, Marcotte, Tremblay		
10:15AM		LABORATORY STUDIES ON THE IMPACT OF AN OSHV-1 MICROVARIANT ON CRASSOSTREA VIRGINICA FAMILIES AND LINES Burge, Small, Agnew, MacIntyre, Reece ^P	CAN A FISH FINDER FIND MORE THAN FISH? Leavitt	Mussels in hot water: the behavioural ecology of temperate mussels under ocean warming and acidification Clements, Ramesh, Nysveen, Dupont, Jutfelt, Hicks, Tremblay, Comeau	USING GENOMES AND TRANSCRIPTOME DATASETS FOR FUNCTIONAL ANNOTATION OF THE IMMUNE RESPONSE OF PENAEID SHRIMP TO PATHOGENS De Donato, Rodulfo, Fajardo, Alcivar-Warren	
10:30-11:00AM			MORNING BREAK	Thicks, frembiay, comeau		
SESSION TITLE	SHELLFISH & SEAGRASS INTERACTIONS Brett Dumbauld & Kay McGraw	DISEASE Ryan Carnegie & Tal Ben Horin	DOWN ON THE FARM Bill Walton & Leslie Sturmer	MUSSELS Luc Comeau	SHRIMPENCODE Acacia-Alcivar Warren & Kathy Tang	
11:00 AM	JUVENILE PACIFIC OYSTER GROWTH AND FOOD RESOURCES IN EELGRASS HABITAT OF VARIABLE SHOOT DENSITY IN A US WEST COAST ESTUARY Merrill*, Dumbauld, McIntyre, Nash, Waldbusser	PATHOLOGY ASSOCIATED WITH RECURRING SUMMER OYSTER MORTALITIES Ben-Horin, Audemard, Ciesielski, Katsuki, Lucas, Noble, Reece, Small, Wilbur	Oyster Farming Resilience Index Grice, Swann, Sempier, Sempier, Deal	OCEAN ACIDIFICATION AND BIVALVE BYSSUS: EXPLAINING VARIABLE RESPONSES USING META-ANALYSIS Clements, George	A NOVEL VIRUS OF FLAVIVIRIDAE ASSOCIATED WITH SEXUAL PRECOCITY IN MACROBRACHIUM ROSENBERGII Tang, Dong, Wang, Hu, Li, Li, Cao, Shi, Wang, Zou, Song, Gao, Meng, Yang, Li, Shi, Huang	
11:15 AM	Assessing interactions between shellfish and seagrass beds and macroalgae to promote sustainable aquaculture in the Delaware Inland Bays Ozbay, Attarwala, Parsaeimehr	CHARACTERIZING DRIVERS OF OYSTER MORTALITY USING MOLECULAR TOOLS Ciesielski*, Lucas, Ben-Horin, Noble	BUILDING A BENCHMARKING PROGRAM FOR MARKET OYSTERS Walton, Lynch	OCEAN ACIDIFICATION, HYPOXIA, AND WARMING IMPAIR DIGESTIVE PARAMETERS AND ANTIOXIDANT RESPONSES OF MARINE MUSSELS Pan*, Khan, Hu, Wang		
11:30 AM	EFFECT OF OYSTER DENSITY ON THE BIOFILTRATION OF THE PATHOGEN, LABYRINTHULA ZOSTERAE Bergman*, Groner, Schreier, Burge	CO-OCCURRENCE PATTERNS OF OYSTER PARASITES ACROSS NATURAL AND ANTHROPOGENIC CONDITIONS IN CHESAPEAKE BAY Tracy, Lohan, Carnegie, McCollough, Southworth, Ogburn	THE AUBURN UNIVERSITY SHELLFISH LAB: TWENTY YEARS OF INDUSTRY-DRIVEN RESEARCH Tarnecki, Rikard, Grice, Walton	EXPLORING ADAPTATION AND PLASTICITY TO OCEAN WARMING IN BLUE MUSSELS (<i>MYTILUS EDULIS</i>) FROM ATLANTIC CANADA Clarke*, Hori, Comeau, Filgueira	ENDOGENOUS VIRUS ELEMENTS (EVE) OF INFECTIOUS HYPODERMAL AND HEMATOPOIETIC NECROSIS VIRUS (IHHNV-EVE) IN THE GENOMES OF PENAEUS VANNAMEI AND P. MONODON: INTERACTIONS WITH TRANSPOSABLE ELEMENTS Asuncion, Tang, Alcivar-Warren	
11:45 AM	Multi-year assessment of the impacts of oyster aquaculture on submerged aquatic vegetation Kellogg, Shields, Dreyer	ARE TRIPLOID OYSTERS MORE TOLERANT TO <i>PERKINSUS</i> MARINUS THAN DIPLOIDS? Brianik*, Lee, Allam	CONNECTION: AN EXAMPLE INVESTIGATING POOR GROWTH OF HARD CLAMS IN NEW JERSEY Gordon, Parikh, Parsons, Robillard, Dacanay, Schuster, Wasserman, Wikfors	Mussel farming in Galicia (NW Iberian Peninsula): NEW PERSPECTIVES IN A GLOBAL CHANGE SCENARIO Babarro, Silva, Padín, Gilcoto	White Spot Syndrome Virus (WSSV) genomes from China, Ecuador, Mexico and other countries are not integrated in the genomes of five Penaeid shrimp species, but endogenous viral elements (EVE) of WSSV (WSSV-EVE) are found in the	
12:00 NOON	NEKTON ASSOCIATIONS IN MOSAIC OF OYSTER AQUACULTURE, SEAGRASS, AND MUDFLAT HABITATS Boardman*, Subbotin, Ruesink	VISUALIZATION OF ENVIRONMENTAL PERKINSUS MARINUS CELL FORMS AND IMPLICATIONS FOR ITS TRANSMISSION DYNAMICS Poslednik*, Carnegie	New Hampshire Shellfish Farmers Initiative: the importance of outreach in the aquaculture industry Meyer*	COMMERCIAL PERFORMANCE OF BLUE MUSSEL (MYTILUS EDULIS) STOCKS AT A MICROGEOGRAPHIC SCALE Tremblay, Guillou, Cyr, Laplante, Bourque, Toupoint	TRANSCRIPTOME OF THE FIRST SPECIFIC PATHOGEN-FREE (SPF) PENAEUS VANNAMEI DOMESTICATED IN THE UNITED STATES Galindo*, Asuncion, Alday-Sanz, Alcivar-Warren	
12.1311	NEKTON USE OF OYSTER (<i>CRASSOSTREA GIGAS</i>) FLIP-BAG FARMS WITHIN AND ADJACENT TO NATIVE EELGRASS (<i>ZOSTERA MARINA</i>) HABITAT Houle, Page, Boardman, Ruesink	PERKINSUS MARINUS INFECTION OF CRASSOSTREA VIRGINICA WITH A CHANGING CLIMATE IN THE CHESAPEAKE BAY: A META-ANALYSIS	OUTCOMES AND FUTURE DIRECTIONS OF THE SUPPORTING OYSTER AQUACULTURE AND RESTORATION PROGRAM Hancock, Jones, Kornbluth, Greenberg, Rheault, Barley*P, Borgert, Popolizio	A FULLY-PHASED GENOME ASSEMBLY FOR MYTILUS EDULIS UNVEILS A HIGH DEGREE OF PRESENCE-ABSENCE VARIANCE BETWEEN MUSSEL POPULATIONS Hori TRIPLOID MUSSELS WITH BETTER ATTACHMENT MAY ACT AS	A RETROTRANSPOSON PUTATIVELY ASSOCIATED WITH ABDOMINAL SEGMENT DEFORMITY DISEASE (ASDD) OF FARMED PENAEUS VANNAMEI FROM THAILAND IS PART OF NONLTR-1_LVA RETROTRANSPOSON ISOLATED FROM THE FIRST SPECIFIC PATHOGEN-FREE SHRIMP DOMESTICATED IN THE UNITED STATES Alcivar-Warren, Yuan, Karoonuthaisiri, Uengwetwanit, Sittikankaew, Asuncion ^P	
12:30 PM		INHIBENS (S4) ROLE AS PROBIONT Coppersmith*, Charette, Ovalles, Bernabe, Nelson,	FATAL INJURIES ASSOCIATED WITH OYSTER AND CLAM AQUACULTURE IN PANACEA AND CEDAR KEY, FLORIDA Kane, Brooks, Myers, Durborow, Dunleavy	IRIPLOID MUSSELS WITH BETTER ATTACHMENT MAY ACT AS IMPROVED EXTRACTIVE SPECIES Osterheld*, Davidson, Comeau, Audet, Hori, Tremblay		
12:30-1:30 PM			LUNCH BREAK			

TUESDAY

March 28, 2023

NSA AT THE MOVIES - FILM FESTIVAL - CONTINUOUS SHOWINGS ALL DAY

				nenade 		
ROOM	Grand D/E/F	Grand East	Grand West	Grand A/B/C	University 3/4	University 1/2
SESSION TITLE	COMMERCIAL SHELLFISHERIES Kevin Stokesbury & David Rudders	DISEASE Ryan Carnegie & Tal Ben Horin	HARMFUL ALGAL BLOOMS Steve Morton	REMOTE SENSING & SHELLFISH Michelle Tomlinson & Suzanne Bricker	MEET THE AGENCIES Sandra Shumway	ShrimpENCODE Acacia-Alcivar Warren & Kathy Tang
1:30 PM 1:45 PM	THE FUTURE SUSTAINABILITY AND GROWTH OF THE IRISH BIVALVE INDUSTRY (BIVALVE PROJECT) Hlordzi, Lynch ^P , Culloty IMPROVING SHELLFISH HARVEST DATA IN MARYLAND THROUGH DAILY ELECTRONIC REPORTING Amrhein, Walters, Caretti, Slacum Jr.,	ANTIMICROBIAL EFFICACY OF EXTRACELLULAR TRAPS IN THE EASTERN OYSTER Brianik*, Bouallagui, Allam LIFE HISTORY AND IMPACTS OF AN UNDESCRIBED PARASITE ON ITS FIRST INTERMEDIATE HOST, THE BAY SCALLOP Boggess*, Andrade, Ben-Horin, Wilbur, Buck	APPLYING ENVIRONMENTAL DNA TECHNIQUES FOR EARLY DETECTION OF RUST TIDE CAUSED BY MARGALEFIDINIUM POLYKRIKOIDES AROUND AQUACULTURE FARMS Scro, Pilate, Osinski, Bayer, Smolowitz DIFFERENTIAL ACTIVATION OF SUBCELLULAR AND MOLECULAR MECHANISMS BY THE AMNESIC SHELLFISH POISONING TOXIN, DOMOIC ACID, BETWEEN THE SLOW-DEPURATOR PECTEN MAXIMUS AND THE FAST-DEPURATOR MYTILUS EDULIS García-Corona*P, Blanco, Hegaret, Fleury, Bidault, Calvo, Fabioux	THE NOAA AQUACULTURE PROGRAM — ECOLOGICAL FORECASTING DATA NEEDS Schillaci, Otoshi, Wesyby EXTENDING THE REACH OF QUASI-OPERATIONAL HARMFUL ALGAL BLOOM FORECASTS TO ESTUARINE SHELLFISH HARVESTING IN COASTAL CALIFORNIA Anderson, Kudela, Bjorkstedt, Free		GENOMIC SELECTION OF HEALTHY SHRIMP: A NEW, CONTINUOUS, WHOLE REFERENCE GENOME FOR SPECIFIC PATHOGEN-FREE (SPF) PENAEUS VANNAMEI IS NEEDED Alcivar-Warren GENOMIC ASSISTED BREEDING: PERSPECTIVES FOR GENOMIC SELECTION IN SHRIMP Isidro y Sanchez
2:00 PM	FOR SCALLOP, PLACOPECTEN MAGELLANICUS, CAMERA SAMPLING Delargy, Cassidy, Stokesbury	AN UNDESCRIBED APICOMPLEXAN PARASITE AS A MAJOR DRIVER OF THE COLLAPSE OF THE BAY SCALLOP POPULATION IN NEW YORK: A SIDE	BUOYS AND AUTONOMOUS SURFACE VEHICLES FOR AQUACULTURE: AN INEXPENSIVE HARMFUL ALGAL BLOOM MONITORING APPROACH Levin, Morton, Lantham	PHYTO-ARM, AN OPEN SOURCE/OPEN DESIGN TOOLKIT FOR AUTOMATED AND ADAPTIVE HAB MONITORING AND RESPONSE Brosnahan, Govostes, Lucke, Batchelder, Pathare, Petitt, Ward, Villac, Hubbard, Anderson, Doucette	AN OPPORTUNITY TO MEET THE LEADERS OF AGENCIES AND ORGANIZATIONS (PSI, ECSGA, NOAA, NAA, USDA, NRAC, PCSGA, APHIS, SEAGRANT) THAT	
2:15 PM	REDUCE BYCATCH AND INCREASE CATCH EFFICIENCY	SYNDROME: TRACKING RESPONSES IN MICROBIOME AND HOST HEALTH	Nanobubble ozone technology (NBOT) for scalable emerging algae/toxin mitigation and remediation Moeller, Lee, Janech, Beauchesne, Bland, Schanke	REMOTE SENSING FOR SHELLFISH MANAGEMENT: EFFORTS TOWARD EARLY WARNING, TOOL DEVELOPMENT AND TRAINING FOR HARMFUL ALGAL BLOOMS IN CHESAPEAKE BAY Tomlinson, Yu, Staugler, Abecassis, Wilson, Morton, Fuquay, Stumpf	SUPPORT SHELLFISH RESEARCH AND INDUSTRY — AND TO ASK QUESTIONS!	PRELIMINARY SURVEY OF TRANSPOSABLE ELEMENTS FROM SPECIFIC PATHOGEN-FREE (SPF) SHRIMP, PENAEUS VANNAMEI, DOMESTICATED IN THE UNITED STATES Alcivar-Warren, Bao
2:30 PM	Munroe, Morson, Saba	WHITE SPOT SYNDROME VIRUS (WSSV) TO NATIVE CRUSTACEANS OF SOUTH CAROLINA, USA Rothman*, Allen, Kingsley-Smith, Beers, Welch, Kendrick	Mobile Lab Utilized in Monitoring Phytoplankton Dynamics for Safe Shellfish Harvest in Southcentral Alaska Jarosz*, DeMaster, Branson	SATELLITE SEA SURFACE TEMPERATURE GUIDANCE FOR REDUCING VIBRIO PARAHAEMOLYTICUS IN SHELLFISH Daniels, Ransibrahmanakul, Ellett, Jacobs		THE GENOME OF <i>PENAEUS VANNAMEI</i> SOLINVIVIRUS (PVSV) IDENTIFIED IN DISEASED SHRIMP FROM BRAZIL IS IDENTICAL TO WENZHOU SHRIMP VIRUS 8 AND <i>P. VANNAMEI</i> PICORNAVIRUS IN WILD SHRIMP FROM CHINA - PORTIONS OF THESE VIRUSES ARE PRESENT IN ONE
2:45 PM	DEVELOPMENT ON THE COMMERCIAL SEA	PEREZI IN JUVENILE BLUE CRABS (CALLINECTES SAPIDUS) IN THE LABORATORY Chen*, Reece, Shields	AQUACULTURE PHYTOPLANKTON MONITORING NETWORK: A CITIZEN SCIENCE APPROACH TO MONITOR HARMFUL ALGAL BLOOMS AND CHANGES IN ENVIRONMENTAL CONDITIONS WITH THE AQUACULTURE INDUSTRY Rene, Maucher-Fuquay, Shuler, Morton	CAN SATELLITE PRODUCTS OR STATE MONITORING DATA SUBSTITUTE FOR ON-FARM DATA FOR OYSTER AQUACULTURE MODELING? Bricker, Ransibrahmanakul, Okada, Davenport, Karrh, Vogel, Briggs, Tomlinson		(ASM373033V1) OF THE TWO GENOME ASSEMBLIES AVAILABLE FOR <i>P. VANNAMEI</i> Zuniga, Alcivar-Warren
SESSION TITLE	COMMERCIAL SHELLFISHERIES Kevin Stokesbury &	DISEASE Ryan Carnegie & Tal Ben Horin	GENERAL CONTRIBUTED II Cathy Liu	REMOTE SENSING & SHELLFISH Michelle Tomlinson &	MEET THE AGENCIES Sandra Shumway	
3:00 PM	David Rudders Understanding reproductive development in female white shrimp, <i>Penaeus setiferus</i> in support of sustainable fisheries management		STAGING OF CHANNELED WHELK (<i>BUSYCOTYPUS CANALICULATUS</i>) FEMALE GONADS USING GROSS AND HISTOLOGICAL ANALYSES Towne, Cameron, Scro, Angell, Smolowitz	SELECTION WITH HIGH RESOLUTION SATELLITE IMAGERY Kiffney*, Jiang, Hesketh, Lavaud, Boss,		
	Mitchell*, Kingsley-Smith, Brunson, Wagner, Kendrick			Brady		
3:15PM			RECOVERY FROM ESTIVATION IN THE APPLE SNAIL, POMACEA MACULATA: NITROGEN EXCRETION Deaton	Бтацу		
3:30 PM	Wagner, Kendrick ROTATIONAL MANAGEMENT OF OYSTER HARVEST IN THE RAPPAHANNOCK RIVER, VIRGINIA: 15 YEARS ONWARD Southworth, Wesson, Button, Mann, Marquardt, Scheld A VIGNETTE ON THE EVOLUTION OF OYSTER MANAGEMENT: THE SEARCH FOR A TRIUMVIRATE OF REFERENCE POINTS SIMULTANEOUSLY DEFINING BIOMASS-MAXIMUM-SUSTAINABLE YIELD (BMSY), FISHING MORTALITY RATE AT MSY (FMSY), AND CULTCH CONTENT AT MSY Powell, Solinger, Hemeon, Pace	REGIONAL SHELLFISH SEED BIOSECURITY PROGRAM (RSSBP) FORUM: THE RSSBP WAS ESTABLISHED TO IMPROVE SHELLFISH HEALTH MANAGEMENT IN THE CONTEXT OF INTERSTATE COMMERCE IN AQUACULTURE PRODUCTS ALONG US COASTS. THIS OPEN FORUM WILL INCLUDE	SNAIL, POMACEA MACULATA: NITROGEN EXCRETION Deaton GROWTH OF THE BANDED TULIP (CINCTURA HUNTERIA) IN TAMPA BAY, FLORIDA Levine, Geiger	Diauy	AN OPPORTUNITY TO MEET THE LEADERS OF AGENCIES AND ORGANIZATIONS (PSI, ECSGA, NOAA, NAA, USDA, NRAC, PCSGA, APHIS, SEAGRANT) THAT	
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^{*} denotes student presenter

WEDN	NES	DAY
March	29.	2023

			March 29, 2023			
8:00-8:50AM	PLENARY: Vic Kennedy (<i>Emeritus</i> , University of Maryland) – <i>Depleting the immense protein factory that was Chesapeake Bay</i> Grand Ballroom					
		NSA AT THE I	MOVIES - FILM FESTIVAL – CONTINUOUS SH Promenade	IOWINGS ALL DAY		
ROOM SESSION TITLE	University 1/2 FRESHWATER MUSSELS Dee Kreeger	University 3/4 SHELLFISH RESTORATION & CONSERVATION Peter Kingsley-Smith	Grand A/B/C VIBRIO Steve Jones	Harbor I EDNA APPLICATIONS FOR SHELLFISH Phoebe Jekielek	Chesapeake CLAM SELECTIVE BREEDING: RESEARCH ADVANCEMENT & OPERATIONALIZING GENOMIC RESEARCH Dina Proestou & Rebecca Shuford	
9:00AM	REEFENSE: DARPA AND A MULTI-DISCIPLINARY TEAM OF SCIENTISTS JOIN FORCES TO DEVELOP OYSTER REEFS FOR COASTAL PROTECTION Bushek, Cebrian, Goad, Guo, Jin, Kibler, Kreeger, La Peyre, Lowe, Moody, Morris, Nassif, Rikard, Riman, San Nicolas, Sparks, Temple	ESTUARINE SHORELINE CONSERVATION AND RESTORATION IN THE URBANIZED WATERSHED OF CHARLESTON COUNTY, SOUTH CAROLINA, USA Kingsley-Smith, Sundin, Wagner, Dyar, Hodges, Bell, Prochaska, Morganello	VIBRIO PARAHAEMOLYTICUS POPULATION IN NATIVE AND CULTURED OYSTERS IN NEW HAMPSHIRE Whistler, Foxall, Wasson, Jones	ENVIRONMENTAL DNA (EDNA): WHAT IS IT AND HOW DOES IT WORK? Jekielek*	AN OVERVIEW OF THE SEA GRANT HARD CLAM SELECTIVE BREEDING COLLABORATIVE (HUB) Clemetson	
9:15AM	IMPLEMENTATION OF A REGIONAL "MUSSELS FOR CLEAN WATER INITIATIVE" FOR THE UPPER MID-ATLANTIC REGION Morgan, Kreeger, Cheng, Gentry	LOCATION AND REEF SIZE DRIVE OYSTER RESTORATION SUCCESS Caretti*, Eggleston, Bohnenstiehl, Puckett	Understanding the influence of the oyster on levels of human-pathogenic <i>Vibrio</i> spp. Audemard, Reece, Latour, Bienlien, Carnegie	DEVELOPING EDNA AS A TOOL FOR MONITORING CULTURED AND WILD POPULATIONS OF SEA SCALLOPS (<i>PLACOPECTEN MAGELLANICUS</i>) IN MAINE, USA Jekielek*, Leslie, Price	UPDATES FROM THE EAST COAST HARD CLAM SELECTIVE BREEDING COLLABORATIVE Allam, Espinosa, Grouzdev, Tanguy, Reece, Yang, Rivara, Reitsma, Clemetson, Guo	
9:30AM	INCIDENCE AND RESTORATION PRIORITIZATION OF RARE AND COMMON SPECIES OF FRESHWATER MUSSELS IN THE TIDAL DELAWARE RIVER, USA Kreeger, Cheng, Gentry, Morgan	COMPARISON OF ARTIFICIAL SUBSTRATES WITH OYSTER SHELL FOR OYSTER RECRUITMENT AND BIOMASS IN THE YORK RIVER, VIRGINIA Patel*, Knick, Saluta, Lipcius, Seitz	Studying <i>Vibrio parahaemolyticus</i> -eastern oyster (<i>Crassostrea virginica</i>) interactions, including the oyster-associated bacterial community Stevens, Hines, Madanick, Smith, Kuhn	PROACTIVE AND NON-INVASIVE PATHOGEN DIAGNOSTICS TO PREVENT THE SPREAD OF BONAMIA OSTREAE Regan, Vythalingam, Bean ^P	POPULATION GENETIC STRUCTURE AND TRANSCRIPTOMIC RESPONSE TO LOW SALINITY IN <i>MERCENARIA MERCENARIA</i> McDowell, Youtsey, Ropp, Snyder, Biesack, Reece	
9:45AM	FRESHWATER MUSSEL GROW OUT TECHNIQUES: LINKING MODERN AQUACULTURE PRACTICES WITH RESTORATION GOALS Cheng, Gentry, Kreeger, Butler, Thomas	SUCCESSFUL EASTERN OYSTER (CRASSOSTREA VIRGINICA) RECRUITMENT ON TWO ALTERNATIVE SETTLEMENT SUBSTRATES IN VIRGINIA TRIBUTARIES Seitz, Knick, Pysher, Suchonic	HITCHING A RIDE OR TAKING ADVANTAGE? HOW PHYTOPLANKTON AND HOST MICROBIOMES INFLUENCE VIBRIO SPP. ACCUMULATION IN OYSTERS Diner, Zimmer-Faust, Griffith, Gilbert	ENVIRONMENTAL DNA BASED DETECTION OF <i>POLYDORA</i> SPECIES ON OYSTER BEDS IN CHESAPEAKE BAY Biesack, Hudson, Fisher, McDowell	CHALLENGE OF HEAT SHOCK ON NORTHERN QUAHOGS FOR GENOME-WIDE ASSOCIATION STUDY Yang, Yee, Zeng, Bently, Bell	
SESSION TITLE	HATCHERIES Don Webster	SHELLFISH RESTORATION & CONSERVATION Peter Kingsley-Smith	VIBRIO Steve Jones	EDNA APPLICATIONS FOR SHELLFISH Phoebe Jekielek	CLAM SELECTIVE BREEDING: RESEARCH ADVANCEMENT & OPERATIONALIZING GENOMIC RESEARCH	
10:00AM	CHINESE "NATURE AND GROWER-CENTERED" OYSTER HATCHERY TECHNOLOGY: IS IT SUSTAINABLE? Thiyagarajan, Yu, Xiao, Li, You, Wang, Chung	ADVANCING ALTERNATIVES TO SHELL FOR OYSTER RESTORATION Moffat, Slacum Jr., Caretti	PROBIOTIC-INDUCED DISEASE RESISTANCE OF PACIFIC OYSTER LARVAE Hesser*, Mueller, Langdon, Schubiger	DEVELOPING LARVA-SPECIFIC ENVIRONMENTAL RNA (ERNA) TOOLS FOR THE BLUE MUSSEL AQUACULTURE INDUSTRY Ernst, Beal, Grey, Pepperman, Whitney, Price	Dina Proestou & Rebecca Shuford Selection for growth in hatchery-reared soft-shell clams, Mya arenaria L.: a series of field investigations Beal	
10:15AM		SEVEN YEARS OF MONITORING SHELLFISH ON A CONSTRUCTED, INTERTIDAL REEF IN THE DELAWARE BAY, NEW JERSEY Shinn, Bushek	PREVALENCE OF VIBRIO PARAHAEMOLYTICUS AND V. VULNIFICUS IN BLUE CRABS (CALLINECTES SAPIDUS) AND SEAWATER COLLECTED FROM THE MARYLAND COASTAL BAYS Smalls*, Jacobs, Townsend, Chigbu, Parveen		A COASTWIDE PERSPECTIVE ON PRODUCTION, CHALLENGES AND NEEDS IN STOCK IMPROVEMENT OF MERCENARIA MERCENARIA Rheault, Reitsma, Sturmer, Clemetson	
10:30-11:00AM			MORNING BREAK			
SESSION TITLE	HATCHERIES Don Webster	SHELLFISH RESTORATION & CONSERVATION Peter Kingsley-Smith	VIBRIO Steve Jones	MODELLING & CLIMATE CHANGE Eric Powell	CLAM SELECTIVE BREEDING: RESEARCH ADVANCEMENT & OPERATIONALIZING GENOMIC RESEARCH	
11:00 AM	LOW TEMPERATURE STORAGE OF BIVALVE LARVAE - A NEW MANAGEMENT TOOL FOR SHELLFISH HATCHERIES Rivara, Patricio, Allen	THE IMPACT OF VESSEL NOISE POLLUTION ON THE EARLY RECRUITMENT OF BENTHIC INVERTEBRATES IN TWO DISTINCT SITES IN SAINT-PIERRE AND MIQUELON, FRANCE Gauthier*, Uboldi, Tremblay, Meziane, Olivier, Chauvaud, Winkler	NESTED SPATIAL AND TEMPORAL MODELING OF ENVIRONMENTAL CONDITIONS ASSOCIATED WITH GENETIC MARKERS OF VIBRIO PARAHAEMOLYTICUS IN CRASSOSTREA GIGAS IN WASHINGTON STATE Fries, Davis ^P , Corrigan, DePaola, Curriero	TEMPORAL AND SPATIAL COMPARISONS OF OCEAN QUAHOG (ARCTICA ISLANDICA) GROWTH ON THE MID-ATLANTIC CONTINENTAL SHELF: FROM THE NEOGLACIAL THROUGH THE TWENTIETH CENTURY LeClaire, Powell ^P , Mann, Hemeon, Pace, Saba, du Pontavice, Sower	Dina Proestou & Rebecca Shuford	
11:15 AM	ON TRACK TO OPTIMIZE THE BOTTLE UPWELLER SYSTEM (BUPSY): TESTING FOUR BOTTLE CONFIGURATIONS Benitz, Leavitt ^P	REBUILDING A COLLAPSED MERCENARIA MERCENARIA POPULATION, RESTORING SEAGRASS MEADOWS, AND ERADICATING HARMFUL ALGAL BLOOMS IN A TEMPERATE LAGOON USING SPAWNER SANCTUARIES Doall, Peterson, Gobler	In-House Vibrio Parahaemolyticus enumeration in Oysters by Industry to Manage Risk DePaola, Kim, Tarnecki, Dewey	Physiological and Behavioural Response of Eastern Oysters (<i>Crassostrea virginica</i>) and soft-shell clams (<i>Mya arenaria</i>) to hypoxia and heatwaves Talevi* , Clarke , Coffin , Comeau , Sakamaki , Filgueira		
11:30 AM	OPTIMIZING A LOW-VOLUME FLOW-THROUGH SYSTEM FOR REARING PACIFIC OYSTER (<i>CRASSOSTREA GIGAS</i>) LARVAE Fleener, Thompson, Langdon ^P	RESTORATION OYSTER REEFS DO NOT PROVIDE SETTLEMENT AND EARLY NURSERY HABITAT FOR THE BLUE CRAB, CALLINECTES SAPIDUS Lipcius	PILOT-SCALE DEPURATION DEMONSTRATES THE SUITABILITY OF NON-PATHOGENIC <i>VIBRIO PARAHAEMOLYTICUS</i> AS A SURROGATE FOR COMMERCIAL-SCALE VALIDATION STUDIES Lunda*, Kilgore, Hesser, Waite-Cusic, Schubiger	EVALUATION OF THE DEGREE OF CO-OCCURRENCE OF SURFCLAMS AND OCEAN QUAHOGS AT FISHABLE CONCENTRATIONS Stromp*, Powell, Mann	PANEL DISCUSSION: PERSPECTIVES AND EXPERIENCES IN THE DEVELOPMENT OF GENOMIC TECHNOLOGY AND APPLICATION IN BROODSTOCK	
11:45 AM	EVALUATING ABIOTIC AND BIOTIC FACTORS INFLUENCING HARD CLAM PRODUCTION IN FLORIDA, USA Laramore, Getter ^{P*} , Sturmer, Anderson, Collins, Philps, Baker		EFFECTS OF AQUACULTURE PRACTICES ON VIBRIO AND THE MICROBIOME OF THE EASTERN OYSTER (CRASSOSTREA VIRGINICA) Parveen, Almuhaideb, Rashed, Hassan	CLIMATE-INDUCED WARMING ON THE MAB SEAFLOOR: MODELING FUTURE DISTRIBUTIONS OF THE ATLANTIC SURFCLAM (SPISULA SOLIDISSIMA) Spencer*, Powell, Klinck, Munroe, LeClair, Scheld, Hofmann, Curchitser, Alexander	PROGRAMS MODERATOR: REBECCA SHUFORD	
12:00 NOON	COMMERCIAL TRIALS WITH RAS FOR OYSTER (CRASSOSTREA VIRGINICA) LARVAE Congrove, Glover ^P , Ovissipour, van Senten, Bentley, Snyder, Schwarz	Supporting Oyster Aquaculture and Restoration (SOAR) in Maryland: an adaptive strategy to support oyster farmers and restore oyster reefs during Covid-19 Walters, Slacum Jr., Bryer, Hancock, Caretti, Wills, Amrhein	The Responses of Total and Potentially Pathogenic Vibrio Parahaemolyticus in Resubmerged Oysters in the Northeast U.S. Jones, Howell, Petitpas, Whistler, Foxall, Regan, Madden, Howell, Shanks, Nash	What shellfish farmers want the government to do to reduce climate impacts on their businesses McGee, Dewey		
12:15 PM	INDUSTRY UPDATE: DEVELOPING A PILOT SCALE HATCHERY IN DELAWARE Campbell, Hale, McIntosh, Blank	Integrating a Rapid Assessment Protocol (RAP) into Monitoring of Subtidal Oyster Reefs Tracy, Aguilar, Ritter, Ogburn		TAKING AN ENERGETIC APPROACH TO PREDICTING HABITAT SUITABILITY: THE INTERACTIVE ROLES OF TEMPERATURE AND FOOD AVAILABILITY IN BIVALVE DEVELOPMENT Czaja*, Jr, Allam, Espinosa, Beal, Pepperman		
12:30-2:00 PM			NSA BUSINESS LUNCHEON Grand Ballroom			
12:30-2:00 PM 2:00 - 4:30 PM 4:30 - 6:00 PM		Solar Oyster			CLAM HUB TEAM PROJECT MEETING	

^{*} denotes student presenter

THURSDAY March 30, 2023

8:00-8:50AM	PLENARY: Ximing Guo (Rutgers University) – <i>Shellfish aquaculture in the genome era</i> Grand Ballroom					
		NSA AT THE MOVIE	S - FILM FESTIVAL – CONTINUOUS S Promenade	SHOWINGS ALL DAY		
ROOM	Grand A/B/C	Grand D/E/F	Grand East	Grand West	University 1/2	
SESSION TITLE	OYSTERS Bill Fisher	SCALLOPS Steve Geiger	CLAMS Brian Beal	CONTAMINANTS OF EMERGING CONCERN Kayla Mladinich & J. Evan Ward	MANGROVE SHELLFISH Acacia Alcivar-Warren & Kathy Tang	
9:00AM	TRIPLOID PACIFIC OYSTERS EXPERIENCE ENHANCED MORTALITY FOLLOWING MARINE HEATWAVES George, Cattau, Middleton, Lawson, Vadopalas, Gavery, Roberts	CHANGING OCEAN ACIDIFICATION	EVALUATION OF IMMUNOLOGICAL RESPONSES TO ENVIRONMENTAL SALINITY CHANGE IN NORTHERN QUAHOGS, <i>MERCENARIA MERCENARIA</i> , USING FLOW CYTOMETRY Zeng*, Yang	CONTAMINANTS AND THEIR IMPACT ON BLUE MUSSELS, MYTILUS EDULIS Ciocan, Koagouw, Minier, Bucca, Hesketh, Stewart	Mangrove Shellfish: pollutants, ONE HEALTH, and epigenetics – recognition of Students and outstanding researchers Alcivar-Warren, Tang	
9:15AM	CITRATE-SYNTHASE RESPONSE AND MULTIPLE- STRESS IN PACIFIC OYSTERS, CRASSOSTREA GIGAS Cattau, George, Roberts	A DYNAMIC PATHWAY TO TRANSITION FROM VULNERABLE TO RESILIENT FISHERIES SOCIAL ECOLOGICAL SYSTEMS: A TRANSDISCIPLINARY CASE STUDY OF THE U.S. ATLANTIC SEA SCALLOP FISHERY Berger*, Colburn, Meseck, Siedlecki, Matassa, Hart, Bethoney, Inglis, Alves	OPTIMIZING HATCHERY CONDITIONING FOR SUNRAY VENUS CLAM SPAWNING Cerino, Ben-Horin ^P , Lucas, Synder, Wilbur	Understanding and leveraging the response of shellfish microbiomes to coastal pollution Diner, Wiggin, Gilbert	MOLLUSCS, MICROPLASTICS, AND THE MISINFORMATION HIGHWAY Shumway, Mladinich, Ward, Holohan, Blaschik	
9:30AM	Can we eat them to save them? Farming the West Coast native oyster, <i>Ostrea Lurida</i> , for market and restoration values in Tomales Bay, California Fleener, Rintoul, Maguire		A SOFT-SHELL CLAM RECRUITMENT MONITORING NETWORK: A TOOL FOR THE COASTAL COMMUNITIES OF MAINE Beal, Randall	EFFECTS OF ELEVATED TEMPERATURE AND TIO ₂ NANOPARTICLES ON THE GUT MICROBIOTA AND BYSSUS PERFORMANCE OF THE THICK SHELL MUSSEL, MYTILUS CORUSCUS Gao*, Li, Li, Wang		
9:45AM	Investigation of the Ostrea edulis Larval Microbiome throughout a natural spawning Event Farley, Regan, Warr, Batista, Bass, Bean		INTERTIDAL MUDFLATS AS NURSERY SITES FOR CULTURED, JUVENILE SOFT-SHELL CLAMS, MYA ARENARIA L. Beal, Coffin	FUTURE OCEAN ACIDIFICATION AND WARMING WILL INCREASE THE PHYSIOLOGICAL IMPACT AND BIOAVAILABILITY OF METALS FROM HISTORIC MINE DEPOSITS ON COMMERCIAL BIVALVE SPECIES Rastrick, Bank, Garcia, Krogness, Kutti, van der Meeren, Rastrick	ENVIRONMENTAL EPIGENOMICS AND TRANSGENERATIONAL EPIGENETIC INHERITANCE IN LIVESTOCK AND SHELLFISH SPECIES Khatib	
10:00AM	A COMPARATIVE STUDY OF THE BIODIVERSITY ASSOCIATED WITH FALLOW, ACTIVELY FISHED AND NON-FISHED EUROPEAN OYSTER (OSTREA EDULIS) BEDS Medlar, Graves, Culloty, Lynch ^P	PATTERNS AND PROCESSES UNDERLYING SPATIOTEMPORAL VARIATION IN BAY SCALLOP DENSITY AND SIZE-STRUCTURE WITHIN AND AMONG THREE SOUNDS OF NORTH CAROLINA LaCroce, Brooks, Eggleston	PILOT-SCALE STUDIES TO EXAMINE REPRODUCTIVE OUTPUT IN SOFT-SHELL CLAMS, MYA ARENARIA L. Beal, Randall	EFFECTS OF UNDERWATER NOISE ASSOCIATED WITH THE INSTALLATION OF OFFSHORE WIND TURBINES ON THE LARVAL DEVELOPMENT OF EASTERN NORTH ATLANTIC COMMERCIAL BIVALVES Olivier, Gigot, Bonnel, Mathias, Meziane, Tremblay, Chauvaud		
10:15AM			Three centuries of increasing growth rates of a long-lived clam (<i>Arctica islandica</i>) on the western mid-Atlantic Continental Shelf (US) Hemeon, Powell, Klinck, Mann^P, Pace	MICROPLASTIC ACCUMULATION KINETICS AND EFFECTS ON THE ENERGY CONDITION OF GIANT SCALLOP (<i>PLACOPECTEN MAGENALLICUS</i>)	STATUS OF MANGROVE FORESTS IN ECUADOR Galindo, Alcívar-Arteaga ^P , Hernández, Diaz, Asunción, Saltos, Figueroa, Espinoza, Villota, Calvache, Jaen, Valarezo, Romero, Mejía, Aveiga, Mendoza, Alcívar-Warren	
10:15-10:45AM			MORNING BREAK			
SESSION TITLE	OYSTERS Bill Fisher	SCALLOPS Steve Geiger		CONTAMINANTS OF EMERGING CONCERN Kayla Mladinich & J. Evan Ward	MANGROVE SHELLFISH Acacia Alcivar-Warren & Kathy Tang	
10:45AM	Assessing dredge gear versus diver-based surveys in support of a fishery-independent monitoring program for sub-tidal oyster reefs Bowling, Eggleston, Boutin	THE EFFECT OF POPULATION DENSITY ON OOCYTE DEVELOPMENT IN ATLANTIC SEA SCALLOPS (PLACOPECTEN MAGELLANICUS) Clark*, Roman, Mann, Rudders		MICROPLASTIC PARTICLES THAT CAN BE INGESTED BY THE QUAGGA MUSSEL, <i>DREISSENA BUGENSIS</i>	CYTOCHROME P450-DEPENDENT MIXED FUNCTION OXIDASES (MFO) SYSTEM DYNAMICS DURING THE POLYAROMATIC HYDROCARBON (PAH) METABOLISM IN THE GREEN MUSSEL, <i>PERNA VIRIDIS</i> (LINNAEUS, 1758) Amutha	
11:00 AM	EARLY LARVAL STAGES OF THE BIVALVES, CRASSOSTREA VIRGINICA AND MYTILUS EDULIS Peterson, Rawson	Testing the transfer of fecal and digestive gland microbiotas between mussels (<i>Mytilus Edulis</i>) and the King scallop (<i>Pecten maximus</i>) for accelerated depuration of domoic acid Deléglise* , Noël , Barnouin , Corona , Offret , Lassudrie , Hegaret , Bidault , Fabioux			(MangroveENCODE) Project of the FUCOBI Foundation of Ecuador: A ONE HEALTH APPROACH TO CONSERVATION OF HEALTHY MANGROVES, TO PRODUCE HEALTHY SHELLFISH, AND PROTECT PEOPLE'S LONG-TERM HEALTH Alcivar-Arteaga, Warren, Galindo, Hernandez, Díaz, Espinoza, Figueroa, Mejia, Romero, Asunción, Zuniga, Aveiga, Mendoza, Alcivar-Warren	
11:15 AM	ENERGETIC PHYSIOLOGY OF CRASSOSTREA VIRGINICA OYSTER SPAT FROM THE ACCLIMATION PERIOD TO THE DORMANCY PHASE: IMPLICATIONS FOR THEIR SURVIVAL DURING COLD WINTERS Bridier, Clements, Comeau, Mallet, Mallet, Carver, Tremblay	Observation of boring clams in calico scallops from Cape Canaveral, Florida, USA Geiger, Adams, Kiryu, Luba, Leal		OXIDATIVE STRESS, AND ENERGY METABOLISM Wei*, Gu, Wang	FUTURE DIRECTION OF THE FUCOBI MANGROVE SHELLFISH RESEARCH PROJECT IN ECUADOR THROUGH A ROTARY FOUNDATION GLOBAL GRANT - INTERESTED IN JOINING US? Alcivar-Arteaga, Alcivar-Warren ^P	
11:30 AM	REVISITING THE NEWELL NUMBER: ESTIMATING PRE-COLONIAL OYSTER ABUNDANCE AND ECOLOGICAL SERVICES IN THE CHESAPEAKE BAY Mann, Southworth, Tarnowski, Wesson, Marquardt, Harding, Rudnicky			MICROPLASTICS AS VECTORS OF VIBRIO PARAHAEMOLYTICUS TO THE PACIFIC OYSTER Wiggin*, Allard, Gilbert		
11:45 AM	ANALYSIS OF STRESS ASSOCIATED TO INTER-SITE TRANSPORT OF THE EASTERN OYSTER PRODUCTION Gravel-Brunet, Gilmore-Solomon, Tremblay			MICROPLASTICS AND OYSTER AQUACULTURE Mladinich*, Holohan, Ward, Shumway		
12:00-1:00 PM			LUNCH BREAK			

^{*} denotes student presenter

THURSDAY				
March	30,	2023		

		NSA AT THE MOVIES - FILM FESTIVA	L – CONTINUOUS SHOWINGS ALL DAY nenade	
ROOM	Grand A/B/C	Grand D/E/F	Grand East	Grand West
SESSION TITLE	OYSTERS Bill Fisher	MACROALGAE-SHELLFISH CO-CULTURE Michael Doall	HORSESHOE CRABS Elizabeth Bouchard & Daniel Sasson	GENERAL CONTRIBUTED III Daphne Munroe & Emily Fuqua
1:00 PM		Mapping the growth and quality of farmed sugar kelp (<i>Saccharina Latissimi</i>) in the estuaries surrounding Long Island, New York Doall, Curtin, Morrell, Provost, Eckstein, Chen, Gobler	A METHOD FOR ESTIMATING HORSESHOE CRAB ABUNDANCE IN THE DELAWARE BAY, USA Anstead, Sweka, Barry, Hallerman, Smith, Wong	OFF-SHORE AQUACULTURE POTENTIAL FOR THE ATLANTIC SURFCLAM, SPISULA SOLIDISSIMA: FIELD OBSERVATIONS AND MULTI-STRESSOR LABORATORY EXPERIMENTS Steeves, Munroe, Meseck, Guo, Towers, Myers, Martin, Dameron
1:15 PM	EFFECTS OF SHIFTS IN SALINITY AND PARASITE LOADING IN THE EASTERN OYSTER, CRASSOSTREA VIRGINICA Kirby, Geiger	USE OF SEAWEEDS TO PROTECT AQUACULTURED BIVALVES AGAINST CLIMATE CHANGE CO-STRESSORS AND HARMFUL ALGAL BLOOMS Gobler, Sylvers, Doall	Using epibiont diversity and carapace condition in American Horseshoe crabs (<i>Limulus polyphemus</i> L.) as tools to distinguish between populations and elucidate age-structure Botton, Colón, Jean-Baptiste, Zaw, Loveland	REVISITING ECOLOGICAL CARRYING CAPACITY INDICES FOR BIVALVE CULTURE Comeau, Guyondet, Drolet, Sonier, Clements, Tremblay, Filgueira
1:30 PM	IN EASTERN OYSTER ADULTS AND LARVAE Bhandari, Purnell, Yeboah, Butt, Liu	CAN INTEGRATED MULTI-TROPHIC AQUACULTURE HELP MITIGATE THE EFFECTS OF CLIMATE CHANGE ON ECONOMICALLY IMPORTANT FILTER FEEDERS Rastrick, Jiang, Wang, Graham, Collier, Whiteley, Strohmeier, Fang, Strand	MITIGATION STRATEGY FOR HORSESHOE CRAB IMPINGEMENT BY A FLORIDA POWER PLANT Heres, Brockmann, Crowley, Gandy	FOOD WEBS SUPPORTING CRAB PRODUCTION IN ESTUARIES WITH EXPANDING COASTAL URBANISATION Waltham, Connolly
1:45 PM	Survival and growth of tetraploid eastern oyster, <i>Crassostrea virginica</i> , in differing salinities within the northeastern Gulf of Mexico Capps, Rikard, Spellman, Chaplin	TROPICAL U.S.: METHODS FOR SUSTAINABLE	DISTRIBUTION OF HORSESHOE CRAB EGGS AND INFAUNA AROUND INTERTIDAL OYSTER FARMS IN DELAWARE BAY Bouchard*, Munroe, Maslo, Bushek	POTENTIAL TROPHIC NICHES OVERLAP OF NATIVE AND NON-INDIGENOUS SPECIES: WHO EATS WHAT AND WHO EATS MORE? Cabral*, Costa, Chainho, Comeau, Tremblay
2:00 PM		THE GREENWAVE OCEAN FARMING HUB: A PLATFORM FOR SEAWEED FARMER TRAINING AND COLLABORATION Olsen	RESTORED FRINGING MARSH IN STRATFORD POINT, CONNECTICUT Kasinak	How does recruitment contribute to recent shifts in long-term trajectories of burrowing shrimp populations and their effect on shellfish aquaculture in Willapa Bay, Washington? Dumbauld, McIntyre, Lewis, Ruesink, Hull
2:15 PM	VIRGINICA DURING SEVERE HYPOXIA: EFFECTS OF	INCORPORATING KELP AND OYSTER CO-CULTURE AT SCALE Grindle	COMPARING EMBRYONIC DEVELOPMENT IN BEACH AND MARSH HABITATS FOR THE AMERICAN HORSESHOE CRAB, <i>LIMULUS POLYPHEMUS</i> , IN SOUTH CAROLINA, USA Scott, Sasson, Kendrick, Brunson, Kingsley-Smith	SENSITIVITY OF THE GROOVED CARPET SHELL CLAM, RUDITAPES DECUSSATUS, TO OCEAN ACIDIFICATION EI-Wazzan, Shaltout, Madkour, Abu EI-Regal, EI Shazly, Awad
2:30 PM	DENSITY ON MICROCLIMATE IN OFF-BOTTOM OYSTER CULTURE GROW-OUT BAGS: OYSTER PERFORMANCE Grenn, Walton	LEVERAGING THE SHARED RESOURCES OF OYSTER CO-OPERATIVE TO SUPPORT KELP PRODUCTION Sparta, Foote, Sparta	THE USE OF NON-SANDY BEACH HABITATS BY SPAWNING HORSESHOE CRABS: A CONVERSATION ABOUT ITS IMPLICATIONS AND FUTURE RESEARCH PRIORITIES Sasson, Brunson, Scott, Kendrick	Ontogenetic shifts in salinity tolerance in the eastern oyster, <i>Crassostrea virginica</i> : Implications for restoration and recovery in Apalachicola Bay, Florida Fuqua*, Brooke
2:45PM		CO-CULTURE OF BAY SCALLOPS AND KELP IN CHINCOTEAGUE BAY, MARYLAND Rush, Holloway		EFFECTS OF HYPOXIA AND ACIDIFICATION ON EARLY-STAGE BIVALVES UNDER NATURAL AND ARTIFICIAL CYCLING CONDITIONS Kraemer Jr.*, Gobler
3:00 PM				TRANSGENERATIONAL INHERITANCE OF OCEAN ACIDIFICATION-INDUCED FEMINIZATION IN THE PORTUGUESE OYSTER Dang*, Thiyagarajan
3:30 – 6:00 PM			IAPPY HOUR room – 2 nd floor	
		Stauluiii Daili		