	MONDAY March 30 th 2020					
6:30-8:00 AM	STUDENT BREAKFAST (STUDENTS ONLY) Hall of Fame					
8:00-8:50 AM	PLENARY: Roger Mann – Managing fisheries in the mid-Atlantic in the coming decades – reflections on a period as a fisheries management council member International A, B, C					
ROOM	International A	Carroll				
SESSION TITLE	ONE HEALTH EPIGENOMES AND MICROBIOMES: FROM SOIL TO PEOPLE WORKSHOP Acacia Alcivar-Warren & Kathy F.J. Tang	SHELLFISH RESTORATION AND CONSERVATION Peter Kingsley-Smith & Dave Bushek	SHELLFISH GENETICS AND GENOMICS Louis Plough & Jon Puritz	MUSSELS Paul Rawson		
9:00 AM	ONE HEALTH EPIGENOMICS AND MICROBIOMES: FROM SOIL TO PEOPLE WORKSHOP: RECOGNITION TO WINNERS OF STUDENT TRAVEL AWARDS AND OUTSTANDING RESEARCHERS IN AQUACULTURE – ONE HEALTH PIONEERS ADDRESSING ECOSYSTEM, ANIMAL, AND PUBLIC HEALTH ALGIVATE.	LARGE-SCALE OYSTER RESTORATION IN THE CHESAPEAKE BAY, USA Westby	A PRELIMINARY WHOLE-GENOME TEST FOR ADAPTIVE DIFFERENTIATION IN AN ISOLATED LOW-SALINITY EASTERN OYSTER POPULATION Hare, Kutsumi	INTER-INDIVIDUAL VARIABILITY OF FEEDING RATES AND FEEDING- DIGESTIVE FEEDBACKS IN MYTILUS EDULIS Steeves*, Strohmeier, Filgueira, Strand		
9:15 AM	TOWARDS TESTING THE HYPOTHESIS OF TRANSGENERATIONAL EPIGENETIC INHERITANCE (TGEI) OF HEALTH EFFECTS CAUSED BY EXPOSURE TO METALS, GLYPHOSATE, AND BISPHENOL IN NATURE Alcivar-Warten	PRINCIPLES FOR RESTORATION REFF MONITORING: ACCURACY AND PRECISION OF HABITAT-SPECIFIC ABUNDANCE AND DENSITY Lipcius, Burke, Hoenig, Schulte	WHOLE-GENOME RESEQUENCING REVEALS GENETIC VARIATIONS AND SELECTION SIGNATURES IN EASTERN OYSTER POPULATIONS FROM THE ATLANTIC COAST AND GULF OF MEXICO Liu, Guo, Yang, Wilbur, Varney, Casas-Liste, La Peyre	HABITAT TYPE INFLUENCES PHYSIOLOGICAL RESPONSE OF AN INVASIVE MUSSEL, MYTILUS GALLOPROVINCIALIS Collins, Burnett, Ramsey, Wagner, Zippay ^P		
9:30 AM	CHOOSE YOUR RESEARCH PROJECT CAREFULLY Shumway	ECOSYSTEM SERVICES OF RESTORED OYSTER REEFS: ENHANCED MACROFAUNA DENSITIES AND FISH FORAGING Seitz, Karp, Fabrizio, Pfirrmann	USING AN INDIVIDUAL-BASED MODEL TO FORECAST THE GENETIC IMPACT OF HATCHERY-BASED OYSTER RESTORATION Hornick*, Plough	A METHOD TO EXPERIMENTALLY PERTURB THE GUT MICROBIOME OF THE BLUE MUSSEL (MYTHUS EDULIS) WITH ANTIBIOTICS Griffin*, Holohan, Nigro, Ward		
9:45 AM	MANGROVES AND WETLAND ECOSYSTEMS Alcivar-Marcillo, Alcivar-Arteaga, Asunción, Galindo*P,	USING PASSIVE AND ACTIVE ACOUSTICS TO ASSESS OYSTER RESTORATION SUCCESS Eggleston, Caretti, Bohnenstiehl	CHANGE IN THE GENETICS OF THE PACIFIC OYSTER POPULATION OF WILLARD BAY, WASHINGTON, USA Hedgecock, Pan	INTRASPECIFIC VARIATION IN TOLERANCE TO ACUTE TEMPERATURE STRESS IN THE BLUE MUSSEL, MYTILUS EDULIS: A TEACHING MODEL RAWSON, Jayasundara		
10:00 AM	Saltos, Figueroa, Villota, Calvache, Hall, Kelley, Singh, Singh, Argandona, Zuniga, Espinoza, Luna, Berlanga-Robles, Echevarria, Ikeogu, Alcivar-Warren	RECOVERY AND RESILIENCE OF OYSTER REEFS IN THE BIG BEND REGION OF FLORIDA, USA Sturmer, Pine, Frederick	CHANNELED WHELK, BUSYCOTYPUS CANALICULATUS, POPULATION GENETIC STRUCTURE IN THE MID-ATLANTIC REGION Askin*, Fisher, McDowell	ADVANCING SUBMERGED MUSSEL FARMING TECHNOLOGIES TO ALLEVIATE EIDER DUCK PREDATION Chambers, Swift, Flanigan, Prien, Duffy		
10:15 AM	DISTRIBUTION AND TEN-YEAR TEMPORAL CHANGE OF MANGROVES IN THE GALAPAGOS Moity, Delgado, Salinas-de-Leon	NEW GLOBAL GUIDELNES FOR SHELLFISH REEF RESTORATION Westby, Fitzsimons, Branigan, Brumbaugh, McDonald, zu Ermgassen, DeAngelis, Geselbracht, Gillies, Hancock, Jeffs, McLeod, Pogoda, Theuerkauf, Thomas	GENOTYPE-DEPENDENT MORTALITY AND GROWTH IN LARVAE OF THE PACIFIC OYSTER Pan, Hedgecock	MODELLING HARMFUL ALGAL BLOOM IMPACTS ON BIVALVE BIOENERGETICS AND PRODUCTIVITY Lavaud, Nadalini, Filgueira, Babarro, Comeau, Tremblay		
10:30-11:00 AM		MORNIN	G BREAK			
SESSION TITLE	ONE HEALTH EPIGENOMES AND MICROBIOMES: FROM SOIL TO PEOPLE WORKSHOP Acacia Alcivar-Warren & Kathy F.J. Tang	SHELLFISH RESTORATION AND CONSERVATION Peter Kingsley-Smith & Dave Bushek	SHELLFISH GENETICS AND GENOMICS Louis Plough & Jon Puritz	SHELLFISH AQUACULTURE BUSINESS AND ECONOMICS Matt Parker & Jonathan van Senten		
11:00 AM	GREENHOUSE GAS EMISSIONS AND BLUE CARBON STOCKS IN COASTAL SALT MARSHES IN MASSACHUSETTS Tang, Wang	USING STATEWIDE DEMOGRAPHIC ASSESSMENTS OF THE EASTERN OYSTER, CRASSOSTREA VIRGINICA, TO INFORM RESTORATION AND MANAGEMENT EFFORTS IN SOUTH CAROLINA, USA Kingsley-Smith, Sundin, Wagner, Dyar	INFLUENCE OF GENOTYPE ON DNA METHYLATION AMONG OLYMPIA OYSTER POPULATIONS Spencer*, Silliman, Roberts	DEVELOPING FISHERIES AND MARKETS FOR THE INVASIVE EUROPEAN GREEN CRAB Bradt, McMahan		
11:15 AM	REVERSE-TRANSCRIPTASE RELATED GENES AND TRANSITION METAL STRESS RESPONSE Yushenova, Maffa, Rodriguez, Metzger, Arkhipova	UNOCCUPIED AERIAL VEHICLES (UAV): A NEW TOOL TO IMPROVE RESTORATION AND MANAGEMENT OF INTERTIDAL OYSTERS (CRASSOSTREA VIRGINICA) IN SOUTH CAROLINA, USA Sundin, Kingsley-Smith, Cook	OCEAN ACIDIFICATION INDUCES SUBTLE SHIFTS IN GENE EXPRESSION AND DNA METHYLATION IN THE TISSUE OF CALCIFICATION LOtterhos, Downey-Wall, Cameron, Ford, Begin, Venkataraman, Roberts, Ries	ECONOMICS OF SUBTIDAL OYSTER CULTURE IN DELAWARE BAY, USA Sullivan, Bushek, Calvo, Bochenek, Harman, Hollinger		
11:30 AM		CAUSE OF COLLAPSE AND PROGNOSIS FOR AN ICONIC OYSTER FISHERY IN APALACHICOLA, BAY, FLORIDA Lipcius	EXAMINING THE POTENTIAL FOR ACCLIMATION OF CRASSOSTREA VIRGINICA LARVAE TO OCEAN ACIDIFICATION Barbosa*, Schwaner, Farhat, Espinosa, Allam	EFFECTS OF DIFFERENT FINANCING SCENARIOS ON MARYLAND OYSTER FARM PROFITABILITY AND SUCCESS Parker		
11:45 AM	CONVERGENT ADAPTATION AT MULTIPLE GENOMIC LEVELS AMONG MANGROVE He, Xu, Feng, Guo, Shi ^p	SITING A LARGE-SCALE LIVING SHORELINE OYSTER REEF PROJECT IN SOUTH CAROLINA, USA Brown, Strickland, Pehl	ASSESSING THE EVOLUTIONARY RESPONSE OF EASTERN OYSTER LARVAE TO EXPOSURE TO COASTAL ACIDIFICATION AND SEWAGE EFFLUENT: A CASE STUDY Puritz, Harvey, Lotterhos	THE ECONOMIC IMPACT OF SHELLFISH AQUACULTURE IN MARYLAND, USA van Senten, Engle, Parker, Webster		
12:00 NOON	IN-DEPTH INVESTIGATION INTO PATHOPHYSIOLOGY OF THE GUT METAGENOME AND HOST RESPONSE TO VP _{AHPND} IN MADAGASCAR- MALAYSIA CROSSBRED BLACK TIGER SHRIMP, PENAEUS MONODON, COHORT STOCKS Soo*, Bhassu	REPURPOSING OF BRIDGE MATERIALS FOR OYSTER REEF CREATION Klein III, Leonard	ACUTE LOW SALINITY TOLERANCE IN THE EASTERN OYSTER (CRASSOSTREA VIRGINICA): PHYSIOLOGY, HERITABILITY, AND UNDERLYING-GENOMIC REGIONS McCarty*, Allen, Plough	IMPROVING THE (OFF) BOTTOM LINE: ASSESSING THE COSTS AND BENEFITS OF DIFFERENT CULTURE METHODS ON AN ALABAMA COMMERCIAL OYSTER FARM Hensey*, Grice, Parker, Stewart, Walton		
12:15 PM	IDENTIFICATION OF RECEPTOR RESPONSIBLE FOR BINDING OF THE AMINO-SUGARS SPECIFIC LECTIN DOMAIN OF PIRAB VP TOXIN OF	HOW DOES YOUR OYSTER GLOW? DEVELOPING A NOVEL OYSTER MARKING TOOL AND RESULTS FROM A RELATED DIRECT SETTING EXPERIMENT Spires, Westby, Steppe, Dumhart, Hildebrandt	DEVELOPING SUPERIOR OYSTERS (CRASSOSTREA VIRGINICA) FOR HIGH SALINITY ENVIRONMENTS IN COASTAL BAYS OF NEW JERSEY Whiteside*, Ratcliff, Woodruff, Deck, Wang, Zeng, Munroe, Calvo, Bushek, De Luca, Guo BREAK	THE EFFECTS OF PERMITTING DELAYS ON RETURN ON INVESTMENT FOR PACIFIC COAST SHELLFISH AQUACULTURE van Senten, Engle		
12:30-1:30 PM		LUNCH	DIGHT			

			NDAY 30th 2020	
ROOM	International A	International B	International C	Carroll
SESSION TITLE	ONE HEALTH EPIGENOMES AND MICROBIOMES: FROM SOIL TO PEOPLE WORKSHOP Acacia Alcivar-Warren & Kathy F.J. Tang	SHELLFISH RESTORATION AND CONSERVATION Peter Kingsley-Smith & Dave Bushek	SHELLFISH GENETICS AND GENOMICS Louis Plough & Jon Puritz	LEASING AND PERMITTING Stephanie Showalter Otts
1:30 PM	GENOMIC ANALYSIS OF VIBRIO PARAHAEMOLYTICUS REVEALS THE TRANSMISSION PATTERNS OF SHRIMP ACUTE HEPATOPANCREATIC NECROSIS DISEASE (AHPND) AND THE ORIGINS OF AHPND-ASSOCIATED PLASMID Fu, Wei, Xie, Pang, Huang, Dong ^P , Liu	BAY SCALLOP RESTORATION IN NEW YORK: THE LOOMING SPECTER OF CLIMATE CHANGE Tettelbach, Hughes, Peterson, Smith	FROM SEQUENCE TO CONSEQUENCE: GENOMIC SELECTION TO EXPAND AND IMPROVE SELECTIVE BREEDING FOR THE EASTERN OYSTER Guo, Allen, Jr., Proestou, Allam, Gomez-Chiarri, Hare, Liu, Lotterhos, Kube, Plough, Puritz, Rawson, Small, Varney, Verbyla, Wikfors, Wilbur	NAVIGATING THE COMPLEXITY OF SHELLFISH AQUACULTURE LEASING AND PERMITTING: UNDERSTANDING HOW THE PIECES FIT TOGETHER Ott Klein
1:45 PM	SHRIMP ENDOGENOUS VIRAL ELEMENTS (EVE) OF INFECTIOUS HYPODERMAL AND HEMATOPOIETIC NECROSIS VIRUS (IHHNV) AND THEIR IMPLICATIONS FOR SHRIMP DIAGNOSIS Saksmerprome, Jitrakorn, Arunrut, Kiatpathomchai, Flegel	INCREASES IN POPULATIONS OF THE NORTHERN QUAHOG (= HARD CLAM) MERCENARIA MERCENARIA FOLLOWING THE CREATION OF SPAWNER SANCTUARIES IN SHINNECOCK BAY, NEW YORK: CAUSATION OR CORRELATION? Doall, Cottrell, Peterson, Gobler	APPLYING GENETIC GROUPS TO THE ANALYSIS OF TRAITS IN CRASSOSTREA VIRGINICA IMPROVES OUR UNDERSTANDING OF INHERITANCE Small, Kube, Allen, Jr.	BALTIMORE DISTRICT, CORPS OF ENGINEERS PERMITTING OVERVIEW OF COMMERCIAL SHELLFISH AQUACULTURE ACTIVITIES IN MARYLAND, USA Francis, Jr.
2:00 PM	DEVELOPMENT OF A CONTINGENCY PLAN FOR SHRIMP ACUTE HEPATOPANCREATIC NECROSIS DISEASE (AHPND) Tang, Bondad-Reanaso, Arthur	USING BIVALVES TO ENHANCE BIOLOGICAL FILTRATION, PROMOTE NITROGEN REMOVAL, AND IMPROVE WATER QUALITY IN SHALLOW NEW YORK ESTUARIES Gobler, Doall, Peterson, DeSilva, Wozny	EVALUATING THE GENETIC BASIS OF "TRIPLOID MORTALITY" IN THE CHESAPEAKE BAY BY TESTING FAMILIES OF TRIPLOID CRASSOSTREA VIRGINICA Matt*, Small, Kube, Allen, Jr.	GROWING AQUACULTURE IN GEORGIA: REGULATORY AND POLICY UPDATE Henson*
2:15 PM	DEVELOPMENTAL AND BEHAVIORAL CHANGES OF THE WHITE SHRIMP, LITOPENAEUS SETIFERUS, UNDER THE EXPOSURE OF PHENYLPYRAZOLE FIPRONIL Albadran*, Fujiwara	MAXIMIZING SHELLFISH RECRUITMENT IN LIVING SHORELINES FOR RESTORATION AND HABITAT CONSERVATION EFFORTS Bouboulis, Moody, Beal, Gentry, Kreeger	EVALUATION OF TEMPORAL PATTERNS OF CHROMOSOMAL LOSS IN FAMILIES OF TETRAPLOID OYSTERS, CRASSOSTREA VIRGINICA Wolfe*, Wilbur	THE NORTH CAROLINA SHELLFISH LEASE PROGRAM Boyd, Graven
2:30 PM	EFFECTS OF INSECTICIDES, FIPRONIL, AND IMIDACLOPRID ON THE GROWTH, SURVIVAL, AND BEHAVIOR OF BROWN SHRIMP, FARFANTEPENAEUS AZTECUS Albadran*, Fujiwara	LARGE PROJECTED POPULATION LOSS OF A SALT MARSH BIVALVE (GEUKENSIA DEMISSA) FROM SEA LEVEL RISE Isdell, Bilkovic, Hershner	PROSPECTS FOR GENOMIC SELECTION IN BIVALVE AQUACULTURE Hollenbeck	TEXAS OYSTER MARICULTURE MOVING FORWARD Scarpa, Fox
2:45 PM	ASSESSMENT OF THE OXIDATIVE STRESS AND BIO- TRANSFORMATION ENZYMATIC EFFECTS OF GLYPHOSATE EXPOSURE ON THE PACIFIC WHITELEG SHRIMP, PENAEUS (LITOPENAEUS) VANNAMEI Amutha, Dinesh	PISMO CLAMS IN CALIFORNIA: GROWTH AND REPRODUCTION OF AN ICONIC SPECIES Marquardt*, Park, Clark, Ruttenberg	USING RADSEQ FOR THE IDENTIFICATION OF SNP ASSOCIATED WITH NORTHERN QUAHOG (= HARD CLAM) RESISTANCE TO QPX DISEASE Farhat, Tanguy, Espinosa, Guo, Boutet, Smolowitz, Murphy, Rivara, Allam	OVERVIEW OF THE FLORIDA AQUACULTURE LEASING PROGRAM Culpepper III
3:00 – 3:30 PM		AFTERNO	OON BREAK	
SESSION TITLE	ONE HEALTH EPIGENOMES AND MICROBIOMES: FROM SOIL TO PEOPLE WORKSHOP Acacia Alcivar-Warren & Kathy F.J. Tang	SHELLFISH RESTORATION AND CONSERVATION Peter Kingsley-Smith & Dave Bushek	SHELLFISH GENETICS AND GENOMICS Louis Plough & Jon Puritz	CEPHALOPODS Camino Gestal, Maria Prado-Alvarez & Marta Gomez-Chiarri
3:30 PM	HEAT SHOCK STRESS RESPONSE GENES REGULATED BY METHYLATION IN THE PACIFIC OYSTER, CRASSOSTREA GIGAS Arredondo Espinoza*, Escobedo-Fregoso, Sicard-Gonzales, Peña-Rodríguez, Roberts, Ibarra	FIRST NATURAL FIELD STUDY OF OYSTER SHELL LOSS: A CASE STUDY FROM THE MISSISSIPPI SOUND Pace, Poussard, Powell, Ashton-Alcox, Kuykendall, Solinger, Hemeon, Soniat	EFFECTS OF BITTER CRAB DISEASE ON THE GENE EXPRESSION OF ALASKA TANNER CRAB Crandall*, Jensen, White, Roberts	THE HAWAIIAN BOBTAIL SQUID, EUPRYMNA SCOLOPES, AS A MODEL HOST FOR UNDERSTANDING THE ROLE OF BENEFICIAL BACTERIA IN EGG DEFENSE AND DEVELOPMENT IN CEPHALOPODS Nyholm
3:45 PM	A LINE-I (L1)-LIKE NON-LTR RETROTRANSPOSON TRANSCRIPT OF CULTURED PENALUS WANNAME! FROM BRAZIL CONTAINS 3'-END TRANSCRIPT IS NOT PRESENT IN THE GENOME REFERENCE ASSEMBLED FROM P. WANNAME! FARMED IN CHINA Alcivar-Warten	SETTING OYSTER LARVAE ON EXISTING RIPRAP IN ST. LEONARD CREEK, MARYLAND, USA Troy*, Agboola, Ihde, Lacouture, DeMarr	CHARACTERIZATION OF THE IMMUNE-REGULATORY FUNCTION OF CSDE-1 IN CRASSOSTREA VIRGINICA HEMOCYTES Ricigliano*, Kuldell, Krause	SEQUENCE CHARACTERIZATION AND TISSUE EXPRESSION ANALYSIS OF THIOESTER-CONTAINING PROTEINS (TEP) AND COMPLEMENT MOLECULES IN THE SQUID, EUPRYMNA SCOLOPES: A MOLLUSCAN MODEL Thuraisamy*, Castillo
4:00 PM	EPIGENETIC MECHANISMS ASSOCIATED WITH METALS AND GLYPHOSATE IN MANGROVES, SHRIMP, AND PEOPLE – PEPIDEMIOLOGICAL STUDIES NEEDED TO ADDRESS POTENTIAL ASSOCIATION OF METALS IN SEAFOOD WITH NEURAL TUBE DEFECTS IN SOUTHERN ECUADOR GAIINDO'S, AICHYA-ATCAGA, ASUNCION	OPTIMIZING REMOTE SETTING ON DIFFERENT CULTCH TYPES FOR SMALL-SCALE OYSTER RESTORATION IN BARNEGAT, BAY, NEW JERSEY Thompson, Parsons	TWO HOST DEFENSE ASSOCIATED PROTEIN FAMILIES REFLECTING CHALLENGES TO FUNCTIONAL GENOMICS RESEARCH IN MOLLUSCS Xue	OCTOPUS AQUACULTURE: SEARCHING FOR A SUCCESSFUL PRODUCTION DRIVEN BY NUTRIGENOMIC AND EPIGENETIC INTERACTION STUDIES Gestal, Prado-Álvarez, Morales, Cardenete, García-Fernández, Dios, Varó
4:15 PM		ASSESSING SPATIAL DISTRIBUTION OF CRASSOSTREA VIRGINICA LARVAL SETTLEMENT WITHIN LARGE-SCALE SETTING TANKS Golding, Alexander, Alexander, Carey, Hood, Klages, Trommatter, Weschler, Willey	UNLOCKING THE EXOME: EXPLORING DE NOVO ASSEMBLY OPTIONS FOR CAPTURE SEQUENCING Green*, Puritz	EFFECT OF AN ENRICHED DIET IN GLOBAL PERFORMANCE AND TRANSCRIPTOMIC RESPONSE IN OCTOPUS VULGARIS Prado-Alvarez, García-Fernández, Tur, Domingues, Dios, Varó, Gestal
4:30 PM	DISCUSSION	IN SITU FILTRATION RATES OF ÖLYMPIA OYSTER, OSTREA LURIDA, HABITAT AND JAPANESE OYSTER, CRASSOSTREA GIGAS, AQUACULTURE Marks*, Zacheri	A CHROMOSOME-LEVEL REFERENCE GENOME ASSEMBLY FOR THE PACIFIC OYSTER (CRASSOSTREA GIGAS) Peñaloza, Gutierrez, Eory, Archibald, Bean, Houston	HANDBOOK OF PATHOGENS AND DISEASES IN CEPHALOPODS Gestal, Pascual, Guerra, Fiorito, Vicites
4:45 PM		SHELLFISH REHABILITATION EFFORTS IN NORTH CAROLINA: PAST, PRESENT, AND FUTURE Luck, Byrum, Peters	CLAM CONNECTIVITY: USING MOLECULAR MARKERS TO ADDRESS WILD QUAHOG (= HARD CLAM) MERCENARIA MERCENARIA, POPULATION STRUCTURE Ropp*, McDowell, Recec, Snyder	ICHTHYOBODO SPP.: HOST-PARASITE INTERACTIONS AND PATHOGENESIS IN CEPHALOPODS AND TELEOSTS Poynton
5:00 PM		IMPACTS OF OCEAN ACIDIFICATION ON BLUE MUSSEL GROWTH AND SHELLS Padilla, Villanueva, Campos, Milke, Meseck, Redman, Dixon, Veilleux		STATOLITH-BASED AGE ASSESSMENTS OF THE ATLANTIC BRIEF SQUID, LOLLIGUNCULA BREVIS, FROM THE CHARLESTON HARBOR ESTUARY, SOUTH CAROLINA, USA Good*, Kendrick, Kingsley-Smith
			b: a career development panel for students	

^{*} denotes student presenter

TUESDAY March 31st 2020

			March 31st 2020		
8:00-8:50 AM	PLENARY: M. Luz Pérez-Parallé – 'Omic' technologies applied to aquaculture International A, B, C				
ROOM	International A	International B	International C	Hall of Fame	Carroll
SESSION TITLE	THE SHRIMP GENOME AND EPIGENOME (SHRIMFENCODE) PROJECT Acacia Alcivar-Warren & Kathy F.J. Tang	OYSTERS Bill Fisher & Brett Dumbauld	CLAMS Brian Beal	ECHINOIDS Chris Pearce	
9:00 AM	THE SHEMP AND GENOME AND EPIGENOME: A REVIEW OF GENOME SIZES, TRANSPOSABLE ELEMENTS, SIMPLE SEQUENCE REPEATS, INTEGRATED VIRLUSES, AND EPIGENETIC COMPONENTS OF PENAEIDS Alcivar-Watten	EFFECT OF TIDAL RESUSPENSION WITH OYSTER BIODEPOSITS ON THE NUTRIENT AND OXYGEN DYNAMICS Porter, Blickenstaff, Cornwell, Jackson	GROWTH AND SURVIVAL OF NORTHERN (MERCENARIA MERCENARIA) AND SOUTHERN (M. CAMPECHIENSIS) QUAHOGS IN FLORIDA: HATCHERY AND NURSERY PHASES Barber	RESILENCE TO FOOD DEPRIVATION: A CASE STUDY OF SEA URCHIN LARVAE Griffith, Pan, Wang, Delatorre, Li, Manahan	
9:15 AM	NON-CANONICAL EPIGENETIC SYSTEM OF BACTERIAL ORIGIN IN AQUATIC MICRO-INVERTEBRATES Rodriguez, Yushenova, Arkhipova	OYSTERS, NUTRIENT REGENERATION, AND ALTERNATIVE PHYTOPLANKTON COMMUNITY STATES McCarthy*, Ray, Fulweiler	EFFECTS OF THE HARMFUL ALGA, COCHLODINIUM (MARGALEFIDINIUM) POLYKRIKOIDES ON CLEARANCE RATE OF THE JUVENUE NORTHERN QUAHOG (= HARD CLAM), MERCENARIA MERCENARIA de Silva*, Gobler	EFFECT OF TRANSPORT METHOD ON SUBSEQUENT SURVIVORSHIP AND GONAD YIELD AND QUALITY IN THE RED SEA URCHIN (MESOCENTROTUS FRANCISCANUS) Pearce, Warren	
9:30 AM		BIOTIC AND ABIOTIC FACTORS REGULATING MUCOSAL LECTINS IN THE OYSTER, CRASSOSTREA VIRGINICA Espinosa, Allam, Allam	EFFECTS OF GREEN CRAB, CARCINUS MAENAS, PREDATION ON SOFTSHELL CLAM, MYA ARENARIA, POPULATIONS IN MAINE DURING A WARMING OCEAN ENVIRONMENT Beal, Coffin, Randall	EFFECTS OF FEED RATION ON GROWTH AND GONAD PRODUCTION IN SMALL SEA URCHINS, LYTECHINUS WARIEGATUS Gibbs, Heflin, Taylor, Lawrence, Watts	
9:45 AM	COMPARATIVE GENOMICS IN DECAPOD SHRIMPS: REPETITIVE ELEMENTS EXPANSION AND GENOME EVOLUTION Yuan, Zhang, Gao, Liu, Li, Xiang	VARIATION IN ENERGY ALLOCATION TO REPRODUCTION OF PACIFIC OYSTER, CRASSOSTREA GIGAS, INFERRED FROM CULTURE EXPERIMENTS AND DYNAMIC BUDGET MODELS HASEgawa, Azumaya, Unuma, Watanabe, Matsumoto, Ito, Yamazaki, Hirano-Maeda	PHENOTYPIC AND TRANSCRIPTOMIC RESPONSE OF FARMED ATLANTIC SURFICLAMS (SPEULA SOLIDISSIMA) TO REPEATED HEAT STRESS AND THE FEASIBILITY OF SELECTED BREEDING FOR GREATER HEAT TOLERANCE Acquafredda*, Guo, Munroe	SEA URCHIN SOMATIC AND GONADAL RESPONSES TO DIFFERING STOCKING DENSITIES AND SEAWATER FLOW RATES: A CASE STUDY FOR EXPERIMENTAL DESIGN CONSIDERATIONS Suckling, Czachur, Ellis, Davies	
10:00 AM	THE SHRIMP GENOME AND EPIGENOME: A REVIEW OF GENOME SIZES, TRANSPOSABLE ELEMENTS, SIMPLE SEQUENCE REPEATS, INTEGRATED VIRUSES, AND EPIGENETIC COMPONENTS OF PENAEIDS Alcivar-Warten	CLMATE AND ESTUARNE GRADIENT INFLUENCE PACIFIC OYSTER CONDITION AND SPAWNING IN WILLAPA BAY, WASHINGTON, USA Dumbauld, Ruesink, Trimble, Forster, Hasegawa, Bolm, McIntyre	ARCTIC SURFICLAM, MACTROMERIS POLINYMA, FIELD GROWOUT TRAILS IN EASTERN MAINE, USA, USING CULTURED JUVENILES Beal, Pepperman, Ellis	EFFECT OF DIET AND TEMPERATURE ON GONAD ENHANCEMENT AND WASTE DEPOSITION FOR THE RED SEA URCHIN (MESOCENTROTUS FRANCISCANUS) Warren*, Flaherty, Cross, Pearce	
10:15 AM	GYPSY-4 LIVA LONG TERMINAL REPEAT (LTR) RETROTRANSPOSON FROM SPF SHRIMP PENAEUS (LTOPENAEUS) VANNAMEI DOMESTICATED BY THE BREEDING PROGRAM OF THE USMSTP CONSORTIUM IS SIMILAR TO ONE OF THE MOST EXPANDED GINE FAMILIES, GAG-POL POLYPROTEIN, IN THE GENOME ASSEMBLY OF P. VANNAMEI FARMED IN CHINA Alcivar-Warten	THE UNCONVENTIONAL FINDINGS OF HERBERT PRYTHERCH ON OYSTER SETTING AND METAMORPHOSIS Fisher	MANNE SHELLFISH LEARNING NETWORK Hillyer*, McGreavy, Perry	THE EFFECT OF DIFFERING FOOD TREATMENTS ON THE ENERGY BUDGET OF THE SEA URCHIN, ARBACIA PUNCTULATA Zavell*, Suckling	
10:30-11:00 AM			MORNING BREAK		
SESSION TITLE	THE SHRIMP GENOME AND EPIGENOME (SHRIMPENCODE) PROJECT Acacia Alcivar-Warren & Kathy F.J. Tang	OYSTERS Bill Fisher & Brett Dumbauld	CLAMS Brian Beal	BLUE CRABS Rom Lipcius & Rochelle Seitz	AQUACULTURE AND THE PRESS: A NEW WAY FORWARD Rona Kobell, Tim Wheeler & Louise Schiavone
11:00 AM	THE COMPLETE GENOME OF AN ENDOGENOUS NIMAVIRUS (NIMAV-1_LVA) FROM THE PACIFIC WHITELEG SHRIMP, PENAEUS (LITOPENAEUS) VANNAMEI	SPATIAL AND TEMPORAL VARIATION IN GROWTH RATES OF WILD EASTERN OYSTERS (CRASSOSTREA VIRGINICA) FROM DELAWARE BAY, NEW JERSEY, USA Gius, Morson, Munroe, Kraeuter	CLAM GARDENING IN SOUTH-CENTRAL ALASKA, USA Hetrick	LARGE-SCALE MOVEMENTS OF SPAWNING FEMALE BLUE CRABS IN THE GULF OF MEXICO: A GULF-WIDE MARK- RECAPTURE STUDY DATNELL, KEMBERLING STUDY DATNELL, KEMBERLING	PANEL DISCUSSION
11:15 AM	Bao, Tang, Alcivar-Warren	SALINITY TOLERANCE OF EASTERN OYSTERS FROM THE GULF OF MEXICO La Peyre, Casas, Walton, Aguilar, Rikard, Pollack, Palmer, Breaux, La Peyre, Kelly		MATERNAL AND BEHAVIORAL INFLUENCES ON LARVAL TRANSPORT IN BLUE CRABS Caracappa, Munroe, Chant, Fuchs	
SESSION TITLE	THE SHRIMP GENOME AND EPIGENOME (SHRIMPENCODE) PROJECT Acacia Alcivar-Warren & Kathy F.J. Tang	OYSTERS Bill Fisher & Brett Dumbauld	FRESHWATER MUSSELS AND ECOSYSTEM SERVICES Danielle Kreeger	BLUE CRABS Rom Lipcius & Rochelle Seitz	AQUACULTURE AND THE PRESS: A NEW WAY FORWARD Rona Kobell, Tim Wheeler & Louise Schiavone
11:30 AM	CHARACTERISTICS OF THE CHH GENES AND THEIR FUNCTIONS IN THE PROCESSES OF MOLTING AND MALE SEXUAL DIFFERENTIATION IN <i>LITOPENAEUS VANNAMEI</i> Xiang	EXAMINING INTRASPECIFIC DIFFERENCES IN OYSTER TOLERANCE TO REDUCED OXYGEN Davis*, Paynter, Plough	MUSSELS FOR CLEAN WATER INITIATIVE: EXPANDING WATER FILTRATION SCIENCE BEYOND SALTWARER AND INTO FRESHWATER ECOSYSTEMS OF THE MID-ATLANTIC Cheng, Kreeger, Padeletti, Gentry	CARAPACE BIOGEOCHEMISTRY REVEALS BLUE CRAB MIGRATIONS FROM NURSERY TO SPAWNING HABITATS Ogburn, Aguilar, Gilmour, Hines	
11:45 AM	NEW CHH GENE FROM THE PACIFIC WHITE SHRIMP, LTTOPENAEUS VANNAME! Ventura-López, Gómez-Anduro, Arcos, Llera- Herrera, Racotta, Ibarra	CARRYOVER EFFECTS OF HYPOXIA AND WARMING ON EASTERN OYSTER PERFORMANCE Donelan, Ogburn, Breitburg	NITROGEN BIOEXTRACTION BY JUVENILE ALEWIFE FLOATERS, UTTERBACKIANA MPLICATA, DURING POND REARING IN THE DELAWARE RIVER BASIN Gentry, Kreeger, Cheng, Gray	DRIVING TOP-DOWN REGULATION OF A SALT MARSH TROPHIC CASCADE Small*, Johnson	"CRISIS ON THE HALF-SHELL: THE
12:00 NOON	BULK SEGREGATION METHOD WITH TRANSCRIPTOMICS IS AN INNOVATIVE METHOD FOR IDENTIFYING TRUE SNP AND FUNCTIONAL GENES IN SPR WSSV-RESISTANT MADAGASCAR-MALAYSIA PENAEUS MONODON BREEDING LINE	RED MANGROVES (RHIZOPHORA MANGLE) POSITIVELY INFLUENCE THE EASTERN O'STER (CRASSOSTREA WIRGINICA) ALONG AN INTERTIDAL GRADIENT Chacin, Bell, Stallings	NITROGEN FILTRATION BY FRESHWATER AND SALTWATER BIVALVES: MPORTANCE OF SESTON COMPOSITION Kreeger, Cheng, Moody, Gentry	THRESHOLD EFFECTS OF SHORELINE ALTERATIONS FOR BLUE CRABS AND FORAGE FISH IN CHESAPEAKE BAY, USA Seitz, Lipcius, Saluta, Kornis, Breitburg, Jordan, Weller	CHESAPEAKE BAY" DOCUMENTARY & DISCUSSION
<u> </u>	Ghani, Bhassu ^P		I		
12:15 PM	Ghani, Bhassu* The Physical constraints of Recombination And Their influence on Genetic Risk Assessments Diviloy	A POTENTIAL ROLE FOR AMEBOCYTES IN OYSTER SHELL DEPOSITION Fisher	DISCUSSION	IMPACT OF HEATED EFFLUENT FROM THE OYSTER CREEK NUCLEAR GENERATING STATION ON ADULT BLUE CRABS IN BARNEGAT, BAY, NEW JERSEY, USA Jivoff, Cosby, Jainarine, Kaufmann, Tomayko	

^{*} denotes student presenter

			TUESDAY March 31st 2020		
ROOM	International A	International B	International C	Hall of Fame	Carroll
SESSION TITLE	THE SHRIMP GENOME AND EPIGENOME (SHRIMPENCODE) PROJECT Acacia Alcivar-Warren & Kathy F.J. Tang	OYSTERS Bill Fisher & Brett Dumbauld	CONTAMINANTS OF EMERGING CONCERN Evan Ward & Kayla Mladinich	BLUE CRABS Rom Lipcius & Rochelle Seitz	SEQUENCE ANALYSIS WORKSHOP Sarah Kingston & Maureen Krause
1:30 PM	THE FEM-I GENE AND ITS ANTISENSE TRANSCRIPT MAY HAVE A FUNCTION IN SEXUAL DEVELOPMENT OF THE PACIFIC WHITELEG SHRIMP, PENALUS VANNAME! Galindo-Torres, Ventura-López, Llera- Herrera, Ibarra ^P	CURRENT STATUS OF THE PUBLIC OYSTER AREAS IN LOUISIANA, USA Bourque, Banks	SELECTIVE INGESTION AND EGESTION OF MICROFIBERS IN THE BLUE MUSSEL, MYTILUS EDULIS, AND EASTERN OYSTER, CRASSOSTREA VIRGINICA Mladinich*, Holohan, Shumway, Ward	PREVALENCE OF THE PATHOGENIC VIRUS CALLIMECTES SAPIDUS REOVIRUS I (CSRVI) ACROSS THE TRANS-HEMISPHERIC HOST DISTRIBUTION Zhao*, Behringer, Bojko, Kough, Plough, Schott	
1:45 PM	THE FEM-I HOMOLOG C-LIKE PROTEIN (LOC113816458) IN THE GENOME SEQUENCE ASSEMBLY (ASM378908V1) OF PEVALEYS (LITOPENALES) VANNAME! FARMED IN CHINA IS HOMOLOGOUS TO THE FEM-I PROTEIN INVOLVED IN MALE SEXUAL DIFFERENTIATION AND GAMETE GENERATION CHARACTERIZED IN GONAD OF CULTURED P. VANNAME! FROM MEXICO GAlindo-Tortes*, Ventura-López, Ibarra, Aleiyar-Warten	WILD VS. HATCHERY-REARED SPATS OF OYSTER CRASSOSTREA REPOLLE: A COMPARISON OF GROWTH AND SURVIVAL IN GROW-OUT CULTURE Lebata-Ramos, Dionela, Novilla, Sibonga, Solis, Mediavilla	PHYSIOLOGICAL EFFECTS OF MICROPLASTIC INGESTION BY OYSTER LARVAE (CRASSOSTREA VIRGINICA) Knauss*, McFarland	RANKING ECOSYSTEM IMPACTS ON CHESAPEAKE BAY BLUE CRABS (CALLINECTES SAPIDUS) USING EMPIRICAL GAUSSIAN GRAPHIC MODELS Liang, Miller, Nesslage, Wilberg	GOT 'OMICS? II: JOIN US FOR AN INTERACTIVE PRACTICAL SESSION FOCUSED ON INTRODUCING TOOLS FOR GENOMIC SEQUENCE ANALYSIS
2:00 PM	DIFFERENCE IN GUT MICROBIOTA OF LITOPENAEUS WANNAME! BETWEEN A PLANT- AND ANIMAL-BASED DIET Galarza*, Castillo, Delgado, Boeing	PACIFIC OYSTER (CRASSOSTREA GIGAS) LOSSES AND SEED LIMITATIONS ON THE U.S. WEST COAST Hudson, Elston, Davis, Sahli, Houle, Suhrbier	EFFECTS OF MICROPLASTICS ON THE GUT MICROBIOME OF THE BLUE MUSSEL, MYTILUS EDULS Collins*, Holohan, Griffin, Ward	RECOVERY OF THE BLUE CRAB POPULATION AND FISHERY IN THE CHESAPEAKE BAY: MANAGEMENT SUCCESS, ENVIRONMENTAL CHANGE, OR DERELICT TRAP REMOVAL? Lipcius	
SESSION TITLE	THE SHRIMP GENOME AND EPIGENOME (SHRIMPENCODE) PROJECT Acacia Alcivar-Warren & Kathy F.J. Tang	OYSTERS Bill Fisher & Brett Dumbauld	CONTAMINANTS OF EMERGING CONCERN Evan Ward & Kayla Mladinich	BLUE CRAB GENOMICS AND TRANSCRIPTOMICS: THE PROGRESS OF THE BLUE CRAB GENOME PROJECT J. Sook Chung	SEQUENCE ANAYLSIS WORKSHOP Sarah Kingston & Maureen Krause
2:15 PM	THE REVERSE TRANSCRIPTASE (RT) OF RTE- 3_LVA NON-LTR RETROTRANSPOSON FROM SPF PENAEUS (LITOPENAEUS) VANNAMEI IS SIMILAR TO RT FROM P. MONODON ENDOGENOUS VIRUS IHHNV — INSIGHTS INTO HORIZONTAL GENE TRANSFER OF A DNA PARVOVIRUS ASUNCION, Tang, Alcivar-Warren	INVESTIGATION OF OYSTER STRAIN EFFECT IN AQUACULTURE AT COMMERCIAL SCALES Golt, Conway, Mitchelmore, Miller	PRESENCE OF MICROFIBERS IN ADULT OYSTERS AND WATER SAMPLES COLLECTED IN BOSTON HARBOR AND COASTAL MASSACHUSETTS Tobin*, Rich	GENOME SEQUENCING AND ASSEMBLY STRATEGIES FOR NON-MODEL MARINE ORGANISMS Zimin	
2:30 PM	DIFFERENTIAL TRANSCRIPTOMICS APPROACH ON AHPND-CHALLENGED DISEASE TOLERANT MADAGASCA-MALAYSIA PENEAUS MONODON REVEALS SIGNATURE EXPRESSION IN CONSERVED DOMAINS OF FUNCTIONAL GENES Bhassus, Soo	PERFORMANCE OF SUPPLY CHAINS FOR UNITED STATES FARMED OYSTERS Lane, Love, Kuehl, Clancy, Davis, Fry, Harding, Hudson	RISK MANAGEMENT OF ADDITIVES TRANSFERRED FROM PLASTIC EQUIPMENT INTO FARMED OYSTERS Omont, Cottin, Charbuillet, Froelich, Naffrechoux		
2:45 PM	CONJUGATIVE TRANSFER OF THE PVA1 PLASMID RESULTED IN THE FORMATION OF AHPND-CAUSING VIBRIO BACTERIA Tang, Dong, Song, Chen, Bi, Wang, Wang, Ren, Guo, Wang, Huang	MECHANISMS GOVERNING INTERTIDAL AND SUBTIDAL OYSTER REEF FORMATION AND MAINTENANCE IN THE BIG BEND REGION OF FLORIDA: INTERACTIONS OF SALINITY, IMMERSION TIME, AND PREDATION TWeitmann*. Frederick, Pine III	THE IMPACTS OF MICROPLASTICS ON THE LARGELY OVERLOOKED MARINE INVERTEBRATE – THE SEA URCHIN Suckling	CRACKING THE GENOME OF THE BLUE CRAB, CALLINECTES SAPIDUS Bachvaroff, Plough, Chung	
3:00 PM	HORIZONTAL PLASMID TRANSFER BETWEEN VIBRIO PRABABEMOLYTICUS PROVIDES A NOVEL MECHANISM FOR GENETIC EXCHANGE AND ENVIRONMENTAL ADAPTATION MEDIATED BY THE INSERTION SEQUENCE ISVALI Fu, Wei, Yang, Xie, Huang, Feng, Liu	OYSTER HABITAT ON DIFFERENT REEF TYPES IN THE CHESAPEAKE BAY, MARYLAND, USA Tracy, Heggie, Ogburn	INGESTION, BIOACCUMULATION, AND DEPURATION OF MICRO- AND NANOPLASTICS BY OYSTERS (CRASSOSTREA VIRGINICA) AND MUSSELS (MYTHUS EDULIS) Ward, Haynes, Mladinich, Griffin, Holohan	THE BLUE CRAB GENOME WEBSITE McDonald, Decree, Bachvaroff, Chung	GOT 'OMICS? II: JOIN US FOR AN INTERACTIVE PRACTICAL SESSION FOCUSED ON INTRODUCING TOOLS FOR GENOMIC SEQUENCE ANALYSIS
3:15PM	LONG-DISTANCE TRANSMISSION OF PATHOGENIC VIBRIO SPECIES BY MIGRATORY WATERBIRDS: A POTENTIAL THREAT TO PUBLIC HEALTH Fu, Hao, Yang, Li, Liu	OYSTER BREAKWATER REEFS PROMOTE ADJACENT MUDFLAT STABILITY AND SALTMARSH GROWTH IN A MONSOON DOMINATED SUBTROPICAL COAST Chowdhury, Walles, Sharifuzzaman, Hossain, Ysebaert, Smaal	THE INTERACTIVE EFFECTS OF TITANIUM DIOXIDE NANOPARTICLES AND LIGHT ON FERTILIZATION AND EMBRYOGENESIS OF THE PACIFIC OYSTER (CRASSOSTREA GIGAS) Haynes*, Tallec, Paul-Pont, Soudant, Ward	RANGE-WIDE POPULATION GENOMIC ANALYSIS OF THE BLUE CRAB, CALLINECTES SAPIDUS Plough, Lee, Schott, Kough, Behringer, Bojko, Bachvaroff, Chung	
3:30 PM	PENAIED SHRIMP IN CHESAPEAKE BAY: POPULATION GROWTH AND BLACK GILL DISEASE SYNDROME Tuckey, Swinford, Fabrizio, Small, Shields			TRANSCRIPTOMIC AND EXPRESSION ANALYSIS OF THE GENES INVOLVED IN ECDYSTEROIDOGENESIS AND CHOLESTEROL UPTAKE IN THE Y-ORGAN OF THE BLUE CRAB, CALLINECTES SAPIDUS Legrand, Bachwaroff, Schock, Chung ^P	
3:45 PM	A MULTI-PARASITE APPROACH TO UNDERSTANDING BLACK GILL IN WHITE SHRIMP (PENAUS SETIFERUS) Zuidema*, Kendrick, de Buron, Podolsky, Kingsley-Smith			EXAMINIOR THE POSSIBLE INFLUENCE OF GENETICS ON MIGRATION AND HABITAT PREFERENCE IN CALLINECTES SAPIDUS Moran*, Rittschof	
4:00 – 6:00 PM			POSTER SESSION AND HAPPY HO International D & E	DUR	
7:00 PM - ???	STUDENT ENDOWMENT FUND AUCTION International A, B, C				

			NESDAY 1st 2020		
8:00-8:50AM	PLENARY: J. Evan Ward – <i>Looking down the barrel of an endoscope: insights from thirty years of</i> in vivo <i>investigations on suspension-feeding molluscs</i> International A, B, C				
ROOM	Fayette	Carroll	Hall of Fame	Mencken	
SESSION TITLE	EASTERN OYSTER GENOME CONSORTIUM WORKSHOP Marta Gomez-Chiarri & Erin Roberts	SEAGRASS BIVALVE INTERACTIONS Brett Dumbauld & Kay McGraw	DOWN ON THE FARM Leslie Sturmer & Bill Walton	UNDERGRADUATE RESEARCH COLLOQUIUM Edward Catapane & Margaret Carroll	
9:00 AM	THE NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION (NCBI) GENOME ANNOTATION RESOURCES FOR SHELLFISH SPECIES O'Leary, Thibaud-Nissen, Murphy, Eukaryotic Genome Annotation Group, Schneider	OBLIGATE AND FACULTATIVE FACILITATION OF SEAGRASSES BY CHEMOSYMBIOTIC BIVALVES Chin, de Fouw, van der Heide, Cahill, Katcher, Paul, Campbell, Peterson	EFFECTS OF DIFFERENCES IN DURATION OF LARVAL PERIOD UPON THE FIELD PERFORMANCE OF CULTURED EASTERN OYSTERS (CRASSOSTREA VIRGINICA): 2019 RESULTS Bisker*, Rikard, Chaplin, Walton	IMPACTS OF ANTHROPOGENIC POLLUTION IN NEW JERSEY AND NEW YORK ESTUARIES ON THE PHYSIOLOGY OF CRASSOSTREA VIRGINICA Ward*, Thompson, Pollock, Gray	
9:15 AM		SEAGRASS OASIS: OCEAN ACIDIFICATION AND LOW PH SUBSIDIES Peterson, Lowell, Wallace, Gobler	OBSERVATIONS ON THE USE OF A MCDONALD FISH HATCHING JAR FOR OYSTER SEED CULTURE AND IMPROVEMENTS IN BOTTLE SILO DESIGN Supan, Truesdale	CARNOSINE REDUCES NEUROTOXIC EFFECTS OF MANGANESE ON AN OYSTER GILL CILIO-INHIBITORY DOPAMINE SYSTEM Ramirez*, Quintuna, Georges, Carroll, Catapane	
9:30 AM		LINKING LARVAL AND JUVENILE PERFORMANCE IN THE BIVALVE MERCENARIA: WHEN DOES THE JUVENILE ENVIRONMENT MATTER? Rugila*, Gobler, Lowell, Peterson, Thacker	EVALUATING SUBSTRATE REHABILITATION TECHNIQUES FOR BOTTOM CULTURE OF THE EASTERN OYSTER (CRASSOSTREA VIRGINICA) IN CHESAPEAKE BAY, USA Long*, Cornwell, Paynter, Webster	G PROTEIN-COUPLED INWARDLY-RECTIFYING POTASSIUM CHANNEL (GIRK) AND THE CONTROL OF GILL LATERAL CELL MEMBRANE POTENTIAL AND CILIA RESPONSE OF CRASSOSTREA VIRGINICA Johnson*, Small, Eid, Catapane, Carroll	
9:45 AM	TRAINING ON THE USE OF NCBI RESOURCES FOR EXPLORING GENOMES AND ANNOTATION TOOLS	EVALUATING THE USE OF MULTIVARIATE APPROACHES TO PREDICT HABITAT ASSOCIATIONS OF SHELLFISH COMMUNITIES IN OREGON ESTUARIES D'Andrea	IT'S IN THE BAG: TESTS OF EFFECTS OF BAG TYPE ON THE PERFORMANCE OF AQUACULTURED EASTERN OYSTERS, CRASSOSTREA VIRGINICA Walton, Robitaille, Spellman, Chaplin, Rikard	CARNOSINE REDUCES TOXIC EFFECTS OF MANGANESE ON MITOCHONDRIAL MEMBRANE POTENTIAL Bowman*, Wallach, Carroll, Catapane	
10:00 AM		CAN PACIFIC OYSTERS BE USED TO MITIGATE EELGRASS WASTING DISEASE? Agnew*, Burge, Eisenlord, Friedman	ASSESSING THE EFFECTIVENESS OF DESICCATION IN CONTROLLING BIOFOULING IN WATER COLUMN CULTURED OYSTERS, CRASSOSTREA VIRGINICA, IN THREE CHESAPEAKE BAY LOCATIONS	EFFECTS OF MANGANESE ON THE CILIO-INHIBITORY ACTIONS OF DOPAMINE D2 AGONISTS ON GILL LATERAL CELLS OF CRASSOSTREA VIRGINICA Ernest*, Baxter, Foster, Catapane, Carroll	
		POSITIVE EFFECTS OF SEAGRASS VEGETATION ON OYSTER GROWTH AND SURVIVAL THROUGH MITIGATION OF ENVIRONMENTAL STRESS	Hood*, Parker AUTOMATING OYSTER AQUACULTURE WITH THE SUN Rice, Pattison, Summers ^P , Borgert, Kiefer, Engstrom, Sheckells, Fleisher		
10:15 AM		Hori, Hamaguchi, Richard, Derolez, Lagarde			
10:30-11:00 AM			IG BREAK		
SESSION TITLE	EASTERN OYSTER GENOME CONSORTIUM WORKSHOP Marta Gomez-Chiarri & Erin Roberts	SEAGRASS BIVALVE INTERACTIONS Brett Dumbauld & Kay McGraw	DOWN ON THE FARM Leslie Sturmer & Bill Walton	REMOTE SENSING AND WATER QUALITY Stephanie Schollaert Uz & Michelle Tomlinson	
11:00 AM		ON THE CO-EXISTENCE OF SUBMERGED AQUATIC VEGETATION AND CAGE-BASED OYSTER AQUACULTURE IN VIRGINIA, USA Southworth, Wesson, Berman, Rudnicky, Mann	A FISH'S-EYE-VIEW: SHELLFISH FARMS AS MARINE HABITAT IN NEW JERSEY Shinn, Munroe	TOWARDS THE SURVEILLANCE OF HARMFUL ALGAL BLOOMS IN CHESAPEAKE BAY THROUGH THE APPLICATION OF OPTICAL REMOTE SENSING, ECOLOGICAL ASSOCIATIONS, AND CITIZEN MONITORING EFFORTS	
11:15 AM		EVALUATING THE IMPACTS OF COMMERCIAL-SCALE FLOATING OYSTER AQUACULTURE ON A ZOSTERA MARINA (EELGRASS) BED IN CHESAPEAKE BAY, VIRGINIA, USA Shields, Kellogg, Drever	SHELLFISH FARMING AND CULTURAL SERVICES: THE OTHER ECOSYSTEM SERVICE Michaelis*, Walton, Webster, Shaffer	Tomlinson, Wolny, Stumpf, Reece, Egerton, Meredith EXAMINING MODIS TSM TO EVALUATE CHANGES IN CHESAPEAKE BAY WATER CLARITY Lazar, Vogel, Bruce, McGowan	
11:30 AM	TRAINING ON THE USE OF NCBI RESOURCES FOR EXPLORING	A SHELLFISH INDUSTRY PERSPECTIVE ON SHELLFISH- EELGRASS INTERACTIONS — A PICTURE IS WORTH A THOUSAND WORDS AND VIDEO IS WORTH A MILLION Dewey	THE TOUGH PEOPLE BEHIND THE TENDER CLAMS: OCCUPATIONAL HEALTH AND SAFETY SUPPORT FOR CLAM MARICULTURISTS IN CEDAR KEY, FLORIDA, USA Kane, Myers, Durborow, Dunleavy, Rash, Brooks	USE OF CITIZEN SCIENTISTS TO MONITOR HARMFUL ALGAL BLOOMS, CHANGES IN ENVIRONMENTAL CONDITIONS, AND ITS UTILIZATION IN AQUACULTURE Morton, Maucher-Fuquay, Bravo	
11:45 AM	GENOMES AND ANNOTATION TOOLS	COMPARATIVE HABITAT USE OF ESTUARINE HABITATS WITH AND WITHOUT OYSTER AQUACULTURE	INTERNATIONAL SHIPPING (EXPORT) OF LIVE MOLLUSCS AND CRUSTACEANS	A GLOBAL SPATIAL ANALYSIS REVEALS WHERE MARINE AQUACULTURE CAN BENEFIT NATURE AND PEOPLE	
12:00 NOON		Bloch, Meaders ^P , Muething, Cziesla	Marston	Theuerkauf, Morris Jr., Waters, Wickliffe, Alleway, Jones SUSTAINABLE OYSTER AQUACULTURE, WATER QUALITY	
12:15 PM				IMPROVEMENT, AND ECOSYSTEM SERVICE VALUE POTENTIAL IN MARYLAND, CHESAPEAKE BAY Parker, Bricker	
				USING SATELLITES TO AID CHESAPEAKE BAY RESOURCE MANAGERS IN THE DETECTION OF POOR WATER QUALITY Schollaert Uz, McKay, McDonnell, Blough	
12:30-2:00 PM	NSA BUSINESS LUNCHEON International A, B, C				

	WEDNESDAY April 1st 2020					
ROOM	Fayette	Carroll	Hall of Fame	Mencken		
SESSION TITLE	OSHV-1 Tim Green, Colleen Burge & Kimberly Reece	SCALLOPS Richard Snyder & Michael Acquafredda	COASTAL ACIDIFICATION Bill Fisher, Jason Grear & Shannon Meseck	SHELLFISH MODELING: POPULATION DYNAMICS AND SUSTAINABLE MANAGEMENT Tom Soniat & Eric Powell		
2:00 PM	THE BATHYMETRIC LEVEL INDUCES A METABOLIC RESPONSE IN CRASSOSTREA GIGAS THAT PROTECTS FROM DEATH INDUCED BY THE MARINE VIRUS OSHV-1 Corporeau, Pernet, Petton, Quéré, Le Roy, Dubreuil, Vilaça, Langlois, Artigaud, Pichereau, Laca-Gervais	OPTIMIZING PRODUCTION AND PRODUCTS FOR SCALLOP AQUACULTURE Morse, Brady, Coleman, and Cowperthwaite	A SLOW GROWING PERSPECTIVE ON MULTI-GENERATIONAL RESPONSES TO FUTURE CHANGE Suckling, Clark, Peck, Davies	APPLYING SHELL-BUDGET MODELING TO DECLINING OYSTER POPULATIONS OF THE NORTHERN GULF OF MEXICO Soniat, Powell, Cooper, Rajerdra		
2:15 PM	IDENTIFICATION OF MOLECULAR MARKERS ASSOCIATED TO OSHV-1 RESISTANCE IN CRASSOSTREA GIGAS Prado-Alvarez, Carlsson, Cao, Culloty, Gestal, Villalba, Carlsson	SEA SCALLOP NEMATODE TRANSMISSION, TEMPORAL VARIATION, AND THERMAL TOLERANCE McGurk, Bushek, Munroe, Bochenek, Borsetti, Rudders, Roman	THRESHOLDS OF INTERGENERATIONAL PCO ₂ CONDITIONING ON METABOLISM AND OXIDATIVE STATUS OF JUVENILE PACIFIC GEODUCK, PANOPEA GENEROSA Gurr*, Trigg, Vadopalas, Roberts, Putnam	USING SHELL SURFACE AREA TO INFORM SUSTAINABLE FISHING PRACTICES OF THE EASTERN OYSTER IN THE PRESENCE OF DISEASE Solinger*, Powell, Alcox, Soniat, Hemeon, Poussard, Pace		
2:30 PM	DIFFERENTIAL RESPONSE OF VARIOUS STOCKS OF THREE OYSTER SPECIES TO EXPERIMENTAL CHALLENGES BY FRENCH AND AUSTRALIAN OSTREID HERPESVIRUS I VARIANTS Recee, Burge, Wippel, Dégremont, Dhar, Kirkland, MacIntyre, Morga, Agnew, Robison, Friedman	NON-INVASIVE HIGH-FREQUENCY SENSORS TO STUDY SHELLFISH ECOPHYSIOLOGY IN DYNAMIC COASTAL ENVIRONMENTS Volkenborn, Dwyer, Chester, Gurr, Tomasetti, Tettelbach, Gobler	EFFECTS OF BRIEF COASTAL ACIDIFICATION EXPOSURE ON WILD AND TRANSLOCATED BIVALVE POPULATIONS Grear, Pimenta, Booth, Horowitz, Mendoza, Liebman, Nye, O'Leary, Tettelbach, Gobler	OYSTER REEF ACCRETION RATES ESTIMATED FROM FOSSIL SHELL COLLECTIONS Mann, Southworth, Lockwood		
2:45 PM	HOW DO OSHV-1 MICROVARIANTS MEASURE UP? A LAB-BASED COMPARISON AMONG MICROVARIANTS AND COMMON USA OYSTER SPECIES Burge, Agnew, Dayal, Kachmar, Friedman, Dhar, Dégremont, Morga, Kirkland, Langdon, Schoolfield, Divilov, Dumbauld	EVALUATION OF THE RECREATIONAL HARVEST OF BAY SCALLOPS, (ARGOPECTEN IRRADIANS) IN STEINHATCHEE, FLORIDA, USA Granneman, Baxley, Bollinger, Heil, LaGanke, Levine, Pearson, Pudlak, Williams	EFFECTS OF BUFFERING MUDS WITH CALCIUM CARBONATE ON GROWTH AND SURVIVAL OF THE NORTHERN QUAHOG (=HARD CLAM) (MERCENARIA MERCENARIA) Curtin*, Volkenborn, Dwyer, Gobler	THE 'MIRACLE' OF DEPLETION: WHY THE OYSTER FISHERY IS NOT SELF-REGULATING Powell, Klinck, Poussard		
3:00 PM		STRATEGIES TO ENHANCE BAY SCALLOP POPULATIONS ON MARTHA'S VINEYARD Karney	STUDYING COASTAL ACIDIFICATION EFFECT ON THE ATLANTIC SURFCLAM, SPISULA SOLIDISSIMA, THROUGH AN EXPERIMENTAL AND MODELING SURVEY Pousse, Poach, Redman, Sennefelder, Veilleux, Krisak, Dixon, Li, Munroe, Hart, Hennen, Wikfors, Meseck ^p	OYSTER METAPOPULATIONAL DYNAMICS Theuerkauf, Eggleston ^p , Puckett		
3:15 PM		BAY SCALLOP, ARGOPECTEN IRRADIANS, CULTURE IN WACHAPREAGUE, VIRGINIA, USA Turner-Smith, Kelley, Turner, Orlando, Smith, Snyder ^P	COASTAL ACIDIFICATION EFFECT ON THE PHYSIOLOGY OF THE EASTERN OYSTER, CRASSOSTREA VIRGINICA: AN EXPERIMENTAL AND MODELING SURVEY Pousse, Redman, Sennefelder, Krisak, Li, Dixon, Poach,	ENVIRONMENTAL CONTROLS ON WITHERING SYNDROME IN ABALONE: A MODELING STUDY Hofmann, Friedman, Powell, Klinck, Neuman, Moore, Taniguchi, Kushner, Miner, Hemeon, Poussard, Solinger		
3:00 PM	DISCUSSION: STRATEGIES TO LIMIT DISEASE IMPACT AND RANGE EXPANSION		Veilleux, Milke, Wikfors, Hofmann, Klinck, Munroe, Meseck			
3:45 PM	_	DIVERSIFICATION OF BIVALVE AQUACULTURE IN THE NORTHEAST: TESTING SURVIVAL AND GROWTH OF BAY SCALLOPS (ARGOPECTEN IRRADIANS) IN NEW JERSEY Acquafredda, Deck*P, Whiteside, Munroe, Calvo, Bushek, De Luca, Guo	INTERACTING ACIDIFICATION AND SALINITY EFFECTS ON JUVENILE CRAB ARMOR AND CLAW STRENGTH Longmire*, Seitz, Seebo	PACIFIC NORTHWEST CRAB RESEARCH GROUP: CLOSING CRITICAL DUNGENESS CRAB DATA GAPS IN WASHINGTON WATERS Cruz, Barber, Harrington, Tobin, Bosley		
		GENETICS AND BREEDING FOR SCALLOP AQUACULTURE Guo		INTEGRATION OF DIFFERENT DATA SOURCES FOR MANAGEMENT OF OFFSHORE BIVALVE AQUACULTURE IN SAGRES, PORTUGAL Icely, Cristina, Fragoso, Goela, Gomes-Ferreira, Gormally, Lopes, Moore, and O'Donncha		
4:00 – 5:00 PM	DONAL MANAHAN, Division Director, Division of Integrative Organismal Systems, National Science Foundation NSF Opportunities in Integrative Biology: Organismal Responses to Environment Carroll					
5:00 - 7:00 PM	POSTER SESSION AND HAPPY HOUR International D & E					

SCAILOP GAILOP — Hotel Lobby ScO-8:50 AM PLENARY: João Ferreira — The coming of age of precision aquaculture — how models are changing the way we grow shellfish ROOM International A International B International C Carroll SESSION TITLE NORTHER DESCRIPTION SEEVE JONES & Cheryl Whistler DOWN WORKSHOP Nick Ray, Surg Ayvarian, Bove Handock & Wally Fullweiler NORSONS INTO THE PACIFIC ASSO MALTIFLE NORSONS INTO THE PACIFIC ASSO MALTIFLE NORSONS INTO THE NORTH ALAMITIC Whistler, Means, Feath, Hartrick, Jones OF 15 AM BACTEROPHICE AND PREDICTION THE ACTOR OF PARTICULAR AND ABETT SELECTION AND ABETT SELECT	HE NORTHERN QUAHOG OF NARRAGANSETT ercer, Heimann JLATION STRUCTURE ANIMAL ON EARTH ETS IN THE WORLD PACE, Long DOEAN QUAHOG AND HARD LATIONS TO THE
ROOM International A International B International C Carroll SESSION VIBRIO Steve Jones & Cheryl Whistler 9:00 AM PARAGERION STREAM OF THE ACTIONS SHAPED HE NATIVE STIG FOR ALTERNIS AND PERSON SHAPED HE NATIVE STIG FOR ALTERNIS AND PERSON SHAPED HE NATIVE STIG FOR ALTERNIS SHAPED HE NOTE ACTION SHAPED POST AM INTERNATION SHAPED HE NATIVE STIG FOR ALTERNIS SHAPED HE NOTE HE NO	HE NORTHERN QUAHOG OF NARRAGANSETT ercer, Heimann JLATION STRUCTURE ANIMAL ON EARTH ETS IN THE WORLD PACE, Long DOEAN QUAHOG AND HEARD LATIONS TO THE
SESSION TITLE Stev Jones & Cheryl Whistler 9:00 AM PIAGE-BIST INTERACTIONS SHAPED THE NATIVE STA6 POPULATION SUCCESSION THE PROFITE AND DULLIPLE DIVISIONS INTO THE NORTH ATLANTIC WHistler, Wassa, Fould, Hartwick, Jones PIASONS INTO THE NORTH ATLANTIC Whistler, Wassa, Fould, Hartwick, Jones PIASONS INTO THE NORTH ATLANTIC WHISTLER, WASSANS INTO HIS NORTH ATLANTIC BISTLER, WASSANS IN BASE IN MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED WAS A BEST MANAGEMENT PRACTICE BOAL DATE OF A CONTROLLED	HE NORTHERN QUAHOG OF NARRAGANSETT ercer, Heimann JLATION STRUCTURE ANIMAL ON EARTH ETS IN THE WORLD PACE, Long DOEAN QUAHOG AND HEARD LATIONS TO THE
TITLE Steve Jones & Cheryl Whistler Don Webster Don Webster OYSTER HABITATS VIA DENTIFIEIT CATION WORKSHOP Nick Ray, Suzy Ayazian, Boze Hancock & Wally Fluiveller Whistler Menn, Foral, Hartwick, Jones WORKSHOP Nick Ray, Suzy Ayazian, Boze Hancock & Wally Fluiveller Whistler Menn, Foral, Hartwick, Jones Workshop North Robinson Norther Menn, Foral, Hartwick, Jones Norther Whistler, Menn, Foral, Hartwick, Jones Structor Whistler, Menn, Me	HE NORTHERN QUAHOG OF NARRAGANSETT ercer, Heimann JLATION STRUCTURE ANIMAL ON EARTH ETS IN THE WORLD PACE, Long DOEAN QUAHOG AND HEARD LATIONS TO THE
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SP. THROUGH MOLECULAR DIAGNOSTICS Noble, Blackwood, Clerkin, Frodich	= HARD LATIONS TO THE
ENUMERATION OF PATHOGENIC VIBRIO SP. IN MID-ATLANTIC SEAWATER AND CYSTERS Parveen, Jacobs, Ozbay, Chintapenta, Almuhaideb, Mereditth, Ossai, Grant, Abbott, Chigbu, Brohawn, Richards 10:00 AM PREVALENCE OF PATHOGENIC VIBRIO PRAHAEMOLYTICUS AND VIBRIO VULNIFICUS IN OYSTERS HARVESTED IN NEWPORT BAY, CALIFORNIA, USA COOKsey*, Zimmer-Faust, Diner, Steel, Griffith, Verhoughstraete 10:15-10:45 AM EMERGING PACIFIC CYSTER SUMMER MORTALLITY IN BRITISH ENUMERATION OF PATHOGENIC VIBRIO PRAHAEMOLYTICUS AND VIBRIO VIBRIO VIBRIO VIBRIO PRAHAEMOLYTICUS AND VIBRIO VIBRIO VIBRIO VIBRIO VIBRIO VIBRIO VIBRIO VIBRIO PRAHAEMOLYTICUS AND VIBRIO VIBR	LATIONS TO THE
Vibrio vulnificus in oysters harvested in Newport Bay, California, USA Cooksey*, Zimmer-Faust, Diner, Steel, Griffith, Verhoughstraete 10:15-10:45 AM SESSION TITLE Steve Jones & Cheryl Whistler Steve Jones & Cheryl Whistler Marchand Cooksey* & Commenter, Weschler, Willey Marchand, USA Alexander, Alexander, Garey, Golding, Klages, Trommatter, Weschler, Willey MORNING BREAK NITROGEN REMOVAL CAPACITY OF OYSTER HABITATS VIA DENITRIFICATION WORKSHOP Nick Ray, Suzy Ayvazian, Boze Hancock & Wally Fulweider 10:45 AM EMERGING PACIFIC OYSTER SUMMER MORTALITY IN BRITISH A NEW SHELLFISH HATCHERY TO INCREASE PRODUCTION FOR BEYOND BIOEXTRACTION: THE ROLE OF OYSTER-MEDIATED AMERICAN LOBSTER (Homarus america) AMERICAN LOBSTER (Homarus america)	N THE MARYLAND
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COLUMBIA, CANADA, IS ASSOCIATED WITH VIBRIO SPP., TEMPERATURE, AND REPRODUCTIVE DEVELOPMENT Cowan*, Green, de la Bastide, Finston, Meyer, McAmmond, Van Hamme, Bottos, Hintz, Marshall, Pearce THE LONG ISLAND SHELLFISH RESTORATION PROJECT (LISRP) IN NEW YORK STATE Rivara THE LONG ISLAND SHELLFISH RESTORATION PROJECT (LISRP) IN NEW YORK STATE Rivara THE LONG ISLAND SHELLFISH RESTORATION PROJECT (LISRP) IN NEW YORK STATE Rivara THE LONG ISLAND SHELLFISH RESTORATION PROJECT (LISRP) IN NEW YORK STATE Rivara CRAB (CANCER BOREALIS) RELATIVE ABU STRUCTURE IN THE VINEYARD WIND LEA Zygmunt*, Cassidy, Stokesbury Zygmunt*, Cassidy, Stokesbury	NDANCE AND SIZE
REDUCING VIBRIO PARAHAEMOLYTICUS RISKS ASSOCIATED WITH OYSTER AQUACULTURE PRACTICES IN CONNECTICUT, USA DeRosia-Banick, Jones, Schillaci, Nash, Howell, Howell, Foxall, Hartwick, Whistler HATCHERY OPERATIONS FOR GENETIC IMPROVEMENT OF SHELLFISH ADDING OYSTER-MEDIATED DENITIFICATION ENHANCEMENT TO THE SUITE OF TOOLS USED TO ADDRESS EUTROPHICATION GOSNell, Rose, Bricker, Brush, Colden, Harris, Karplus, Laferriere, Merrill, Murphy, Reitsma, Shockley, Stephenson, Theuerkauf, Ward, Fulweiler ADDING OYSTER-MEDIATED DENITIFICATION ENHANCEMENT TO THE SUITE OF TOOLS USED TO ADDRESS EUTROPHICATION OFFSHORE ENVIRONMENTS Cassidy, Zygmunt, Stokesbury Stephenson, Theuerkauf, Ward, Fulweiler	BOTH INSHORE AND
A HIERARCHICAL, TIME-SERIES MODEL OF THE RELATIONSHIP BETWEEN ENVIRONMENTAL CONDITIONS AND VIBRIO PARAHAEMOLYTICUS GENETIC MARKERS IN WASHINGTON STATE PACIFIC OYSTERS FROM 2005-2019 Fries, Davis, Atherly, Olson, Bowers, De Paola, Curriero A HIERARCHICAL, TIME-SERIES MODEL OF THE RELATIONSHIP BETWEEN ENVIRONMENTAL CONDITIONS AND VIBRIO PARAHAEMOLYTICUS GENETIC MARKERS IN WASHINGTON STATE PACIFIC OYSTERS FROM 2005-2019 Fries, Davis, Atherly, Olson, Bowers, De Paola, Curriero DESIGN AND MANAGEMENT CRITERIA OF HATCHERIES SPECIALIZED FOR SHELLFISH BREEDING DAVIS MID-ATLANCUS) FROM A ROTATIONAL CLE MID-ATLANCUS FROM A ROTATIONAL CLE MID	OSED AREA IN THE
THE SEASONAL ECOLOGY OF VIBRIO PARAHAEMOLYTICUS IN A NEW ENGLAND ESTUARY Hartwick*, Berenson, Whistler, Naumova, Jones HETEROTROPHICALLY CONDITIONED RECIRCULATION SYSTEM FOR BIVALVE LARVAL CULTURE Bentley, Snyder, Ovissipour, Schwarz, Shiroodi, Urick, van Senten DISCUSSION CAN CUTTING BAR MODIFICATIONS REDU INCREASE CATCH EFFICIENCY IN THE ATL DREDGE FISHERY? Morson, Bochenek, Zemeckis, Gius, L.	JCE BYCATCH AND
BREAKTHROUGH OF ALGAL TOXINS INTO SHELLFISH HATCHERIES - NEW LINES OF RESEARCH ARE NEEDED TO SUPPORT PRODUCTION Smith, Carnegie, Reece, Hudson, Sanderson, Onofrio THE EFFECT OF DENSITY ON THE GROWT REPRODUCTION OF THE SEA SCALLOP, Pt MAGELLANICUS Clark*, Roman, Mann	LANTIC SEA SCALLOP
12:00-1:00 PM LUNCH BREAK	Lantic SEA SCALLOP Lin, O'Brien, Silady TH, YIELD, AND LACOPECTEN

	THURSDAY April 2 nd 2020					
ROOM	International A	International B	International C	Carroll		
SESSION TITLE	SHELLFISH DISEASES Roxanna Smolowitz & Ryan Carnegie	HATCHERIES Don Webster	SPATIAL PLANNING Ken Riley & Robert Isdell	COMMERCIAL SHELLFISHERIES Kevin Stokesbury & David Rudders		
1:00 PM	AN UPDATE CONCERNING THE ONGOING RESEARCH AND OCCURRENCE OF NEOPLASIA AND QPX IN NORTHERN QUAHOGS (= HARD CLAMS) OF MASSACHUSETTS IN 2019 Smolowitz, Gourlay, Reitsma, Murphy	OPTIMIZING NITROGEN IN MICROALGAL MEDIA FOR USE AS LIVE FEEDS Mitchell, Nunez, Rhyne	ATLANTIC AND GULF SHELLFISH SEED BIOSECURITY COLLABORATIVE: SHELLFISH DISEASE HEALTH DATABASE Marxen, Rowe, Bushek, Carnegie, Walton, Calvo, Hudson, Rheault, La Peyre, Pollack, Sturmer, Gustafson	THE SCALLOP FISHERY AND THE DEVELOPING WINDFARM INDUSTRY ON THE NORTH EAST CONTINENTAL SHELF OF NORTH AMERICA Stokesbury, Bethoney		
1:15 PM	COMPLETING THE LIFE CYCLE OF QPX: EVIDENCE OF ZOOSPORES AND DESCRIPTION OF A NEW REPLICATION PATHWAY Brianik*, Geraci-Yee, Allam	HATCHERIES DON'T HAVE TO BE COMPLICATED: KEEPING IT SIMPLE Karney	A SCIENCE-BASED MODEL TO ESTIMATE WATER QUALITY BENEFITS OF SHELLFISH BEDS TO INFORM RESTORATION PRIORITIZATION AND PROJECT DESIGN Moody, Kreeger Beal, Bouboulis	THE DISAPPEARANCE OF NEARLY 2 BILLION SCALLOPS Bethoney, Stokesbury		
1:30 PM	TAKING THE "X" OUT OF QPX (QUAHOG PARASITE UNKNOWN), A PARASITE OF THE NORTHERN QUAHOG (= HARD CLAM) MERCENARIA MERCENARIA GERACI-Yee*, Collier, Allam	HATCHERIES DON'T HAVE TO BE COMPLICATED: DEVELOPMENT FOR A NEW SPECIES SCARPA, Sturmer	SPATIAL DATA AND METHODS USED IN PLANNING LARGE- SCALE OYSTER RESTORATION IN THE CHESAPEAKE BAY Bruce, Lazar, McGowan, Westby	UTILIZING TIME-LAPSE IMAGERY TO QUANTIFY POST- TRANSPLANT SCALLOP BEHAVIOR Alexander, Siemann, Smolowitz		
1:45 PM	ENVIRONMENTAL ABUNDANCE OF <i>PERKINSUS MARINUS</i> IN THE YORK RIVER, VIRGINIA, USA Bienlien*, Carnegie	HATCHERIES DON'T HAVE TO BE COMPLICATED: THE CEDAR KEY SEED MODEL Sturmer	A GEOSPATIAL ASSESSMENT OF PRODUCTIVITY TO DESIGNATE ALTERNATIVE USES OF PUBLIC BAYLOR GROUNDS IN SUPPORT OF AQUACULTURE EXPANSION IN VIRGINIA, USA Berman, Mann, Wesson, Southworth, Rudnicky	SELECTIVITY OF TWO COMMERCIAL DREDGES FISHED IN THE NORTHWEST ATLANTIC SEA SCALLOP FISHERY Roman, Rudders		
2:00 PM	THE DISEASE DIAGNOSTIC DILEMMA: THE USE OF A NOVEL TESTING METHOD FOR DETERMINING CRASSOSTREA VIRGINICA DISEASE PREVALENCE AND INTENSITY Gourlay, Scro, Neil, Lundgren, Smolowitz	A HATCHERY CERTIFICATION PROGRAM FOR THE INTERSTATE TRANSFER OF SHELLFISH SEED Calvo, Hudson, Bushek, Carnegie, Gustafson, Rheault, Marxen	THE RISE OF SPATIAL INTELLIGENCE FOR PIONEERING AQUACULTURE DEVELOPMENT Riley, Wickliffe, Jossart, Guajardo, Morris, Jr.	SHIFTING PHENOLOGY OF COMMERCIAL WHITE SHRIMP LANDINGS IN SOUTH CAROLINA, U.S.A: THE ROLES OF SHRIMP MIGRATION AND CLIMATE Kendrick, Brunson, Dukes, Kingsley-Smith		
2:15 PM	PREVALENCE AND INTENSITY OF THREE OYSTER PARASITES (PERKINSUS MARINUS, HAPLOSPORIDIUM NELSON, AND BONAMIA SP.) IN WILD AND CULTURED OYSTERS (CRASSOSTREA VIRGINICA) ON AN OYSTER FARM IN SOUTHEASTERN NORTH CAROLINA, USA Varney, Wilbur		PALAUAN AQUACULTURE: SPATIAL ANALYSIS INFORMS SITING, DEVELOPMENT, AND MANAGEMENT IN A SMALL ISLAND DEVELOPING STATE Theuerkauf, Victor, Waters, Aulerio, Cuetos-Bueno, Jones	REFINING REPRODUCTIVE ASSESSMENT PROTOCOLS TO BETTER INFORM MANAGEMENT OF THE SOUTH CAROLINA WHITE SHRIMP (PENALUS SETIFERUS) FISHERY Brunson, Wagner, Gooding, Kendrick, Kingsley-Smith		
2:30 PM	FINDING A FOCUS ON SUMMER MORTALITY IN OYSTERS Carnegie		LARGE-SCALE PLANNING OF FISH AND SHELLFISH FARMING IN NOVA SCOTIA Grant, Filgueira, Ferreira, Koepke	EVALUATION OF LIFE HISTORY AND REPRODUCTIVE TIMING OF WAVED WHELK (BUCCINUM UNDATUM) ON THE U.S. MID-ATLANTIC CONTINENTAL SHELF BORSEtti*, Bochenek, Rudders, Dobson, Chang, Munroe		
SESSION TITLE	SHELLFISH DISEASES Roxanna Smolowitz & Ryan Carnegie		PLANNING INITIATIVES TO GROW AQUACULTURE Kim Thompson			
2:45 PM	MECHANISMS OF EASTERN OYSTER, CRASSOSTREA VIRGINICA, HEMOCYTES APOPTOSIS IN RESPONSE TO INFECTION WITH PERKINSUS MARINUS ROBERTS*, Wikfors, Proestou, Markey-Lundgren, Sullivan, Gomez-Chiarri		ALASKA MARICULTURE INITIATIVE – PHASE 2: IMPLEMENTATION OF THE 20-YEAR COMPREHENSIVE PLAN AND BUILDING INDUSTRY MOMENTUM Decker			
3:00 PM	REVISITING THE ROLE OF COPPER AND ZINC IN ANTIMICROBIAL DEFENSES OF EASTERN OYSTERS Fisher		THE MASSACHUSETTS SHELLFISH INITIATIVE: THE PROCESS OF DEVELOPING A HOLISTIC STATE-WIDE SHELLFISH MANAGEMENT PLAN Kirk, Sanderson, Soares, Schillaci, McNally, Sherman			
3:15 PM	DEVELOPMENT OF GENOMIC TOOLS TO STUDY THE RESISTANCE OF OSTREA EDULS TO ITS PARASITES IN THE CONTEXT OF GENETIC SELECTION AND OYSTER RESTORATION Boutet, Lallier, Toullec, Andersen, Bonnivard, Salaun, Gonzales-Araya, Chevalier, Farhat, Espinosa, Allam, Guo, Takeuchi, Koszul, Marbouty, Baudry, Tanguy ^p		RELATIONSHIPS BETWEEN SCIENCE, POLICY, AND POLITICS IN THE EFFECTIVE DEVELOPMENT OF SHELLFISH AQUACULTURE Webster			
3:30 PM			PUBLIC PRESENTATIONS AND THEIR INFLUENCE ON AQUACULTURE OPINIONS Scarpa			
3:45 PM			COLLABORATIVE COMMUNICATION STRATEGIES TO SUPPORT GROWTH AND DEVELOPMENT OF US MARINE AQUACULTURE Thompson			
4:00 – 5:00 PM			IAPPY HOUR onal D & E			