

MONDAY

March 19, 2018

STUDENT BREAKFAST (STUDENTS ONLY)

South

PLENARY: Suzanne Williams -Colourful shells: the evolution of colour in mollusca

Courtyard Ballroom

| ROOM | Federal | Superior | Municipal | James | North |
|----------------------|--|---|---|--|--|
| 6:30-8:00AM | STUDENT BREAKFAST (STUDENTS ONLY) | | | | |
| 8:00-8:50AM | PLENARY: Suzanne Williams -Colourful shells: the evolution of colour in mollusca | | | | |
| | | | | | |
| SESSION TITLE | OLYMPIA OYSTERS Kay McGraw & Betsy Peabody | GENETICS, GENOMICS, AND BREEDING Louis Plough | SHELLFISH LEASING & PERMITTING WORKSHOP: CASE STUDIES FOR OVERCOMING COMMON LEGAL BARRIERS Lisa Schiavinato | THE SHRIMP EPIGENOME (SHRIMPENCODE) PROJECT Acacia Alcivar-Warren | SCALLOPS Steve Geiger |
| 9:00AM | OLYMPIA OYSTERS – PAST, PRESENT, AND FUTURE McGraw & Peabody | IMPACTS OF OCEAN ACIDIFICATION ON THE SETTLEMENT OF <i>CRASSOSTREA GIGAS</i> Burton*, Meyer, Durland, Langond | LEGAL REQUIREMENTS FOR THE USE OF WATERFRONT INFRASTRUCTURE BY SHELLFISH GROWERS IN RHODE ISLAND: CHALLENGES FOR INDUSTRY SUSTAINABILITY Porter | SHRIMP EPIGENOME (SHRIMPENCODE) PROJECT SESSION Alcivar-Warren | DEVELOPMENT OF AQUACULTURE PRODUCTION TECHNIQUES FOR PURPLE-HINGE ROCK SCALLOPS Davis |
| 9:15AM | COAST-WIDE OLYMPIA OYSTER NETWORK: RESILIENT NATIVE OYSTERS FROM BRITISH COLUMBIA, CANADA TO BAJA CALIFORNIA, MEXICO Wasson, Zacherl, Zabin | STAGE-SPECIFIC EFFECTS OF ELEVATED SEAWATER pCO ₂ ON THE GENETIC COMPOSITION OF LARVAL PACIFIC OYSTERS (<i>CRASSOSTREA GIGAS</i>) Durland, Meyer, De Wit, Langdon | SHELLFISH LEASING AND PERMITTING: CASE STUDIES FOR OVERCOMING COMMON LEGAL BARRIERS Andrews | SHRIMPENCODE (2017-2027): TOWARDS UNDERSTANDING THE EPIGENETIC MECHANISMS AND TRANSGENERATIONAL INHERITANCE ASSOCIATED WITH EXPOSURE OF SPF SHRIMP, <i>PENAEUS (LITOPENAEUS) VANNAMEI</i> , TO ACUTE HEPATOPANCREATIC NECROSIS DISEASE (AHPND) CAUSING <i>VIBRIO</i> SPP. AND MICROBIAL TRANSGENE INSECTICIDE, <i>BACILLUS THURINGIENSIS</i> Alcivar-Warren, ShrimpENCODE collaborators | GROWTH, MORTALITY, AND YIELD OF FARMED SEA SCALLOPS (<i>PLACOPECTEN MAGELLANICUS</i>) IN MAINE USING THE EAR-HANGING METHOD, AND INFLUENCES OF SUBSTRATE AND DEPTH ON YIELD OF SCALLOP SPAT COLLECTORS Morse, Britsch, Perry, Cowperthwaite |
| 9:30AM | UNDERSTANDING TOP-DOWN, BOTTOM-UP, AND SUPPLY SIDE INFLUENCES ON OLYMPIA OYSTER POPULATIONS FOR MORE SUCCESSFUL RESTORATION Grosholz, Kimbro, White | GENOME SEQUENCING AND POPULATION GENOMIC ANALYSES PROVIDE INSIGHTS INTO THERMAL ADAPTATION OF PACIFIC ABALONE You, Huang, Luo, Ke | NAVIGATING THE COMPLEXITY OF AQUACULTURE PERMITTING: UNDERSTANDING HOW THE PIECES FIT TOGETHER THROUGH TWO CASE STUDIES Nichols & Janasie | EPIGENETIC RE-PROGRAMMING UPON FOREIGN (VIRAL) DNA INVASION INTO CELLS Doerfler | VARIABLE SPATIAL AND TEMPORAL OCEAN CONDITIONS IMPACT PHYSIOLOGICAL PERFORMANCE OF BIVALVES IN PUGET SOUND, WASHINGTON, USA Alma*, Fiamengo, Alin, Jackson, Padilla-Gamino |
| 9:45AM | TEMPORAL AND SPATIAL VARIABILITY IN OYSTER PERFORMANCE IN RESTORATION PROJECTS IN SAN FRANCISCO BAY, USA Zabin, Ayala, Kiriakopolos, Latta, Grosholz | DEVELOPING RESILIENCE TO OCEAN ACIDIFICATION IN RED ABALONE AQUACULTURE Swezey, Boles, Aquilino, Stott, Bush, Hill, Gaylord, Catton, Rogers-Bennett, Whitehead, Sanford | AQUACULTURE OFF THE CALIFORNIA COAST: BREAKING POLICY BARRIERS AND NEW GROUND AT THE STATE AND FEDERAL LEVELS Schiavinato | | BAY SCALLOP LARVAL SWIMMING BEHAVIOR IN RESPONSE TO TEMPERATURE, SALINITY, AND LIGHT Lynch* & Caracappa |
| 10:00AM | HOW LOW CAN THEY GO? DISTRIBUTIONS OF THE OLYMPIA OYSTER (<i>OSTREA LURIDA</i>) AND THE PACIFIC OYSTER (<i>CRASSOSTREA GIGAS</i>) AS A FUNCTION OF TIDAL ELEVATIONS AND IMPLICATIONS FOR RESTORATION Zacherl, Torres, Jr., Parker, Henderson, Tronske | USING NEXT GENERATION SEQUENCING TO IDENTIFY POTENTIAL LOCAL ADAPTATION TO SALINITY IN THE EASTERN OYSTER, <i>CRASSOSTREA VIRGINICA</i> , ALONG THE LOUISIANA GULF COAST Riley*, Kelly, La Peyre, La Peyre | | | RECREATIONAL HARVEST OF BAY SCALLOPS IN FLORIDA Geiger, Granneman, Scharf |
| 10:15AM | OLYMPIA OYSTER RECRUITMENT DYNAMICS FROM SOUTHERN CALIFORNIA TO BRITISH COLUMBIA Wasson, Hughes, Berriman, Chang, Deck, Dinnel, Endris, Espinoza, Dudas, Ferner, Grosholz, Kimbro, Ruesink, Trimble, Vander Schaaf, Zabin, Zacherl | MOLECULAR ADAPTATIONS OF BIVALVE MOLLUSCS REVEALED BY GENOMIC ANALYSES Guo | Discussion | | A PRELIMINARY ASSESSMENT OF THE ECONOMIC IMPACT ASSOCIATED WITH THE RECREATIONAL SCALLOP SEASON IN HERNANDO COUNTRY, FLORIDA Scharf, Adams, Geiger |
| 10:30-11:00AM | MORNING BREAK | | | | |
| SESSION TITLE | OLYMPIA OYSTERS Kay McGraw & Betsy Peabody | GENETICS, GENOMICS, AND BREEDING Louis Plough | EXTENSION AND OUTREACH INITIATIVES TO GROW SHELLFISH AND AQUACULTURE ACTIVITIES Tessa Getchis & Julie Decker | THE SHRIMP EPIGENOME (SHRIMPENCODE) PROJECT Acacia Alcivar-Warren | SCALLOPS Steve Geiger |
| 11:00 AM | RECRUITMENT PATTERNS OF OLYMPIA OYSTER, <i>OSTREA LURIDA</i> (CARPENTER 1864), IN THE GORGE WATERWAY – ENHANCEMENT FROM NEW BRIDGE PILINGS Pearse*, Kravac, Schroeder, Wright, Carolsfeld, Page | MONITORING THE GENETIC DIVERSITY OF HATCHERY-PRODUCED COHORTS AND SUPPLEMENTED REEFS OF THE EASTERN OYSTER, <i>CRASSOSTREA VIRGINICA</i> Hornick* & Plough | NOAA AQUACULTURE – OPENING REMARKS Rubino | UNDERSTANDING THE MOLECULAR BASIS OF SUSCEPTIBILITY OF PATHOGENESIS OF THE WHITE SPOT SYNDROME VIRUS (WSSV) USING COMPARATIVE TRANSCRIPTOMICS IN THE PACIFIC WHITELEG SHRIMP (<i>PENAEUS VANNAMEI</i>) AND EUROPEAN SHORE CRAB (<i>CARCINUS MAENAS</i>) Millard*, Verbruggen, Bickley, Bateman, Stentford, Tyler, van Aerle, Santos | THE RAMIFICATIONS OF MISMATCHING SPATIAL ROTATIONAL MANAGEMENT WITH LIFE HISTORY AND POPULATION TRAITS: AN EXAMPLE IN THE SEA SCALLOP FISHERY Stokesbury, Keiley, Georgianna, Bethoney, Inglis |
| 11:15 AM | INDEX SITE SURVEYS FOR OLYMPIA OYSTERS (<i>OSTREA LURIDA</i>) IN BRITISH COLUMBIA - 2009 to 2017 Norgard, Bigg, MacConnachie, Finney, Gillespie | TESTING FITNESS CONSEQUENCES OF DOMESTICATION SELECTION AT THE LARVAL STAGE IN EASTERN OYSTERS McFarland, Plough, Nguyen, Hare | ALASKAN MARICULTURE INITIATIVE – TANGIBLE INDICATIONS OF PROGRESS AS A RESULT OF A THREE-YEAR COMPREHENSIVE PLANNING PROCESS Decker & Cullenberg | | CHAIN REACTION? DEVELOPMENT AND TESTING OF A MODIFIED SEA SCALLOP DREDGE TO REDUCE FLATFISH BYCATCH Nichols, Pol, Chosid, Gribbin |
| 11:30 AM | FACTORS THAT AFFECT THE VERTICAL DISTRIBUTION OF OLYMPIA OYSTER LARVAE IN FIDALGO BAY WASHINGTON, USA McIntyre*, McPhee-Shaw, Hatch, Arellano | A GENOMIC TEST FOR HYBRIDIZATION BETWEEN SELECTIVELY BRED EASTERN OYSTER AQUACULTURE STRAINS AND WILD NEW YORK POPULATIONS Hare & Kutsumi | IMPLEMENTING PHASE II OF THE WASHINGTON SHELLFISH INITIATIVE Butler & Hoberecht | WHITE SPOT SYNDROME VIRUS (WSSV)-LIKE ELEMENT, <i>DNAV-1_LVA</i> , IN ORIGINAL SPECIFIC PATHOGEN-FREE (SPF) SHRIMP, <i>LITOPENAEUS VANNAMEI</i> , DOMESTICATED IN THE UNITED STATES Bao, Alcivar-Warren ^p , Bogden, Tao, Iyer, Mikhaylenko, Wittendorp, Mraz, Hart, Hatas, Kujawa, Wilson, Voss | DISCARD MORTALITY OF SEA SCALLOPS (<i>PLACOPECTEN MAGELLANICUS</i>) FOLLOWING CAPTURE AND HANDLING IN THE SEA SCALLOP DREDGE FISHERY Rudders, Roman ^p , Knotek, Sulikowski, Mandleman, Benoît |
| 11:45 AM | RECOGNIZING HOW LNC VARIATIONS EXPOSE OLYMPIA OYSTER POPULATIONS TO THERMAL RISK Adams | EVERYTHING FROM SHELLS: GENETICS OF SHELL SHAPE AND COLOR IN THE EASTERN OYSTER, <i>CRASSOSTREA VIRGINICA</i> Whiteside* & Guo | THE GULF OF MEXICO SHELLFISH INITIATIVE: A REGIONAL APPROACH Walton, Swann, Walton | | THE MISSING LINK: TRANSMISSION OF APICOMPLEXAN INFECTION IN GRAY MEAT ATLANTIC SEA SCALLOPS Inglis, Koop, Kristmundsson, Freeman, Georgianna |
| 12:00 NOON | IDENTIFYING REGULATORY BARRIERS TO NATIVE OYSTER RESTORATION IN WASHINGTON, USA Edelman* | COMPARISON OF GENETIC VARIATION AND INBREEDING AMONG THREE LINES OF HATCHERY-REARED <i>CRASSOSTREA VIRGINICA</i> BROODSTOCK Varney & Wilbur | AN UPDATE ON THE STATUS OF OYSTER AQUACULTURE (<i>CRASSOSTREA VIRGINICA</i>) IN GEORGIA Bliss, Guadagnoli, Andrews, Risse | POLYMORPHISMS IN <i>RTE-3_LVA</i> NON-LTR RETROTRANSPOSON OF SPF <i>PENAEUS VANNAMEI</i> FROM THE UNITED STATES: ITS ASSOCIATION WITH THE <i>PENAEUS MONODON</i> ENDOGENOUS VIRUS IHNV (INFECTIOUS HYPODERMAL AND HEMATOPOIETIC NECROSIS VIRUS) FROM AFRICA AND AUSTRALIA Espinoza*, Alcivar-Warren, Primavera, De La Pena, Tang, Zuniga, Xu | DEVELOPMENT OF DIAGNOSTIC PCR ASSAY TO DETECT APICOMPLEXAN PARASITE IN ATLANTIC SEA SCALLOPS (<i>PLACOPECTEN MAGELLANICUS</i>) WITH GRAY MEAT DISEASE Mastrostefano*, Scro, Jackson, Smolowitz |
| 12:15 PM | OLYMPIA OYSTER PRODUCTION AND RESEARCH AT THE KENNETH K. CHEW CENTER FOR SHELLFISH RESEARCH AND RESTORATION Ryan, Crim, Allen, Peabody | UNCOVERING THE GENETIC BASES OF GROWTH HETEROISIS IN THE PACIFIC OYSTER, <i>CRASSOSTREA GIGAS</i> Yin* & Hedgecock | LIVELIHOOD DIVERSIFICATION AND IMPLICATIONS IN EXTENSION PLANNING Michaelis*, Webster, Shaffer | | INVESTIGATION OF THE SCALLOP NEMATODE, <i>SULCASCARIS SULCATA</i> : DISTRIBUTION, SEASONALITY, SHEDDING, TRANSMISSION, THERMAL TOLERANCE, AND HOST IMPACT Rudders, Roman, Fisher, Bushek, Munroe, Bochenek, McGurk |
| 12:30-1:30 PM | LUNCH BREAK | | | | |

* denotes student presenter

^p denotes non first-author presenter

**MONDAY
March 19, 2018**

| ROOM | Federal | Superior | Municipal | James | North | |
|----------------------|--|--|--|---|--|---|
| SESSION TITLE | OLYMPIA OYSTERS Kay McGraw & Betsy Peabody | GENETICS, GENOMICS, AND BREEDING Louis Plough | EXTENSION AND OUTREACH INITIATIVES TO GROW SHELLFISH AND AQUACULTURE ACTIVITIES Tessa Getchis & Julie Decker | THE SHRIMP EPIGENOME (SHRIMPENCODE) PROJECT Acacia Alcivar-Warren | SCALLOPS Steve Geiger | |
| 1:30 PM | GENETIC CHARACTERIZATION OF WILD AND HATCHERY-PRODUCED <i>OSTREA LURIDA</i> IN PUGET SOUND, WASHINGTON, USA Spencer*, Vadopalas, Simchick, Crim, Goetz, Roberts | FAMILY-BASED GENETIC PARAMETERS FOR TETRAPLOID <i>CRASSOSTREA VIRGINICA</i> AND BREEDING IMPLICATIONS Allen, Jr., Small, Kube | SHELLFISH AQUACULTURE IN THE COASTAL (INLAND) BAYS OF DELAWARE 2018: STATUS AND OUTLOOK Ewart | THE PIRAB TOXIN-PRODUCING GENES OF <i>VIBRIO</i> SPP. HAVE A FUNCTION SIMILAR TO THE <i>BACILLUS THURINGIENSIS</i> CRY PROTEINS Gómez-Gil, Soto-Rodríguez | ISOLATION AND CHARACTERIZATION OF <i>FRANCISELLA HALIOTICIDA</i> FROM ABSCESS LESIONS IN THE ADDUCTOR MUSCLE OF YESSO SCALLOP, <i>PATINOPECTEN YESSOENSIS</i> Kawahara*, Kanamori, Yoshinaga, Itoh | |
| 1:45 PM | POPULATION GENOMICS AND PHYLOGEOGRAPHY OF THE OLYMPIA OYSTER Silliman* & Ernisse | OBSERVATIONS ON TETRAPLOID EASTERN OYSTERS, <i>CRASSOSTREA VIRGINICA</i> , AND IMPLICATIONS IN GENETIC IMPROVEMENT OF TRIPLOIDS Guo | FACILITATING BETTER DECISION-MAKING: IS SHELLFISHING RIGHT FOR YOU? Clemetson, Ciaramella, Rivara | | UPDATE ON TWO ENIGMATIC DISEASES (<i>PERKINSUS QUGWADI</i> AND <i>FRANCISELLA HALIOTICIDA</i>) AFFECTING THE HEALTH OF CULTURED YESSO SCALLOPS (<i>PATINOPECTEN YESSOENSIS</i>) IN BRITISH COLUMBIA, CANADA Meyer, Itoh, Lowe, Kim | |
| 2:00 PM | POTENTIAL TRANSGENERATIONAL EFFECTS OF OCEAN ACIDIFICATION ON THE OLYMPIA OYSTER, <i>OSTREA LURIDA</i> : A THREE-PART EXPERIMENTAL STUDY Wippel, Friedman, Crosson, Roberts, Strenge, George, Carrington, White | MOLECULAR EVOLUTION OF I84 PROTEASE INHIBITOR FAMILY IN CHINESE RAZOR CLAMS AND PHYLUM MOLLUSCA Wang, Xue, Mao, Dong, Li, Lin | LISTENING, LEARNING, AND LEADING TO SUPPORT RESPONSIBLE AQUACULTURE DEVELOPMENT IN CONNECTICUT Getchis, De Guise, Balcom, Concepcion | | GROWTH RATE MEASUREMENTS IN SCALLOPS: REVISITING MERRILL AFTER 50 YEARS ON THE LIBRARY SHELF Long*, Mann, Rudders, Roman, Chute, Cronin, Walker | |
| SESSION TITLE | OLYMPIA OYSTERS Kay McGraw & Betsy Peabody | GENETICS, GENOMICS, AND BREEDING Louis Plough | EXTENSION AND OUTREACH INITIATIVES TO GROW SHELLFISH AND AQUACULTURE ACTIVITIES Tessa Getchis & Julie Decker | THE SHRIMP EPIGENOME (SHRIMPENCODE) PROJECT Acacia Alcivar-Warren | GENERAL CONTRIBUTED I Paul Rawson & Sharon Lynch | |
| 2:15 PM | VARIATION IN RESPONSE TO OCEAN ACIDIFICATION AMONG OLYMPIA OYSTER FROM CALIFORNIA, OREGON, AND BRITISH COLUMBIA Silliman*, Bennett, Roberts | TRANSCRIPTOMIC RESPONSES TO DERMAL DISEASE IN SUSCEPTIBLE AND RESISTANT EASTERN OYSTERS Proestou, Lundgren, Small, Allen, Jr. | INTERACTIVE TALK: BUILDING A SHELLFISH HEALTH DATABASE TO FACILITATE SHELLFISH TRANSFERS Bushek, Calvo, Marxen, Carnegie, Rheault, Gustafson | TRANSPOSASE DDE DOMAINS AND N-6 DNA METHYLASE FAMILY PROTEINS AS POTENTIAL EPIGENETIC MARKS OF PATHOGENIC <i>VIBRIO</i> SPP. FROM ASIA (CHINA, VIETNAM, THAILAND) AND LATIN AMERICA (MEXICO, ECUADOR) THAT CAUSE ACUTE HEPATOPANCREATIC NECROSIS DISEASE (AHPND) IN SHRIMP Alcivar-Warren, Gómez-Gil, Soto-Rodríguez, Xu, Espinoza* | BACTERIAL COMMUNITY DYNAMICS IN AN OYSTER HATCHERY IN RESPONSE TO PROBIOTIC TREATMENT Stevick*, Sohn, Modak, Nelson, Rowley, Smolowitz, Post, Gómez-Chiarri | |
| 2:30 PM | QUANTIFYING PARAMETERS OF ECOLOGICAL CHANGE BEFORE AND AFTER OLYMPIA OYSTER RESTORATION Barber, Grossman, Cordell, McArdle, Hunter, Greiner | DIFFERENTIAL EXPRESSION OF APOPTOSIS PATHWAY GENE FAMILIES IN RESPONSE TO IMMUNE CHALLENGE IN <i>CRASSOSTREA GIGAS</i> AND <i>CRASSOSTREA VIRGINICA</i> Roberts* & Gomez-Chiarri | INTERACTIVE TALK: DEVELOPING A SHELLFISH HATCHERY BIOSECURITY CERTIFICATION PROGRAM Rheault, Bushek, Calvo, Carnegie, Hudson, Gustafson | THE CORE AND ACCESSORY GENOME OF <i>VIBRIO PARAHAEMOLYTICUS</i> , A PATHOGEN OF PENAEID SHRIMP Penir*, Saloma | MOLECULAR AND MORPHOLOGICAL ANALYSIS OF BIVALVE SHELL BORERS OF THE GENUS <i>POLYDORA</i> FROM THE EASTERN UNITED STATES Rawson, Rice, Lindsay | |
| 2:45 PM | SPATIALLY EXPLICIT ESTIMATES OF OLYMPIA OYSTER (<i>OSTREA LURIDA</i>) FILTRATION SERVICES: A MODEL-BASED APPROACH FOR AUGMENTING ECOSYSTEM SERVICES AND REDUCING RESOURCE USE DURING RESTORATION Gray, zu Ermgassen, Gair, Langdon, Lemagie, Lerczak | UNIQUE AND COMMON PATTERNS IN THE STRESS RESPONSE OF THE PACIFIC OYSTER, <i>CRASSOSTREA GIGAS</i> Eirin-Lopez & Suarez-Ulloa | MASSACHUSETTS SHELLFISH INITIATIVE Kirk | | EXPERIMENTAL INFECTION TO ASSESS PATHOGENICITY OF <i>PERKINSUS BEIHAENSIS</i> AGAINST DOMESTIC BIVALVE SPECIES IN JAPAN Komatsu, Yoshinaga, Itoh* | |
| 3:00 – 3:30 PM | AFTERNOON BREAK | | | | | |
| SESSION TITLE | OLYMPIA OYSTERS Kay McGraw & Betsy Peabody | GENETICS, GENOMICS, AND BREEDING Louis Plough | EXTENSION AND OUTREACH INITIATIVES TO GROW SHELLFISH AND AQUACULTURE ACTIVITIES Tessa Getchis & Julie Decker | THE SHRIMP EPIGENOME (SHRIMPENCODE) PROJECT Acacia Alcivar-Warren | SCALLOPS Steve Geiger | |
| 3:30 PM | TRACE ELEMENTAL FINGERPRINTS: AN ECOLOGICAL DETECTIVE'S TOOL TO TRACK OLYMPIA OYSTERS (<i>OSTREA LURIDA</i>) Hintz*, Becker, Carson, Rusk, Hatch, Allen, Vadopalas, Roberts | IMMUNOLOGICAL RESPONSE OF <i>CRASSOSTREA VIRGINICA</i> LARVAE TO PROBIOTIC <i>BACILLUS PUMILUS</i> RI06-95 Modak*, Nelson, Rowley, Gomez-Chiarri | FROM PILOT EFFORT TO A REGIONAL MONITORING PROGRAM: THE COAST-WIDE VENTLESS LOBSTER TRAP SURVEY Glenn & Pugh | DEFINING THE MICROBIOME OF THE PACIFIC WHITELEG SHRIMP (<i>LITOPENAEUS VANNAMEI</i>) IN WILD, AQUACULTURED, AND AHPND/EMS OUTBREAK CONDITIONS Cornejo-Granado*, Lopez-Zavala, Gallardo-Becerra, Mendoza-Vargas, Sánchez, Vichido, Brieba, Viana, Sotelo-Mundo, Ochoa-Leyva | <i>PERKINSUS OLSENI</i> IN MOLLUSCS FROM WESTERN AUSTRALIA Dang, Jenkins, Miller, Snow, Caraguel, Go, Bogema | |
| 3:45 PM | CONSERVATION PALEOBIOLOGY AS A TOOL TO SUPPORT OLYMPIA OYSTER RESTORATION Martinelli & Padilla-Gamiño | TRENDS IN OYSTER-ASSOCIATED MICROBIAL TRANSCRIPTOMES Stevick*, Post, Gómez-Chiarri | SUPPORTING MANAGEMENT OF THE EMERGING JONAH CRAB FISHERY AND THE ICONIC LOBSTER FISHERY IN THE NORTHEAST USA: A COLLABORATIVE FISHING VESSEL RESEARCH FLEET APPROACH Ellertson, Mercer, Spencer, Glenn | | UNDER THE RADAR: EMERGING <i>HAPLOSPORIDIA</i> SPP. IN WILD COMMON COCKLE, <i>CERASTODERMA EDULE</i> , AND MUSSELS, <i>MYTILUS</i> SPP., AT PACIFIC OYSTER, <i>CRASSOSTREA GIGAS</i> , CULTURE SITES Lynch, Rivero, Kelly, Quinn, Coughlan, Culloty | |
| 4:00 PM | | GENETIC MAPS AND ASSEMBLY OF THE PACIFIC OYSTER GENOME Hedgecock, Yin, Kitapci, Perez | MENTAL MODELING AND PARTICIPATORY SCIENCE TO INVESTIGATE PRIBILOF ISLAND BLUE KING CRAB McDonald, Reum, Holsman, Long, Armstrong, Armstrong, Sedlacek | | REPORT ON THE UNKNOWN HAPLOSPORIDIAN PARASITE FROM THE GRAY MUSSEL, <i>CRENOMYTILUS GRAYANUS</i> , FROM GANGNEUNG ON THE EAST SEA OF KOREA Cho*, Lee, Choi, Kang, Kim | |
| 4:15 PM | | THE EASTERN OYSTER GENOME: A RESOURCE FOR COMPARATIVE GENOMICS IN SHELLFISH AQUACULTURE SPECIES Gomez-Chiarri, Warren, Minx, Tomlinson, Guo, Proestou | ENGAGING FISHERMEN TO ADDRESS DATA GAPS AND EVOLVE MANAGEMENT OF THE QUAHOG (<i>MERCENARIA MERCENARIA</i>) IN NARRAGANSETT BAY Mercer, Leavitt, McManus, Heimann | EVALUATION OF MARINE BACTERIA AND THEIR POTENTIAL USE AS FEED ADDITIVE AND PROBIOTIC AGENT AGAINST PATHOGENIC <i>VIBRIO PARAHAEMOLYTICUS</i> (AHPND) IN WHITE SHRIMP, <i>LITOPENAEUS VANNAMEI</i> Sánchez-Díaz*, Ocampo-Ayala, Herrera-Patiño, Molina-Garza, Crúz-Suárez, Gómez-Gil, Silva, Ibarra-Gómez | HIGH MORTALITY, RETARDED REPRODUCTION, AND POOR GROWTH OF THE MANILA CLAM, <i>RUDITAPES PHILIPPINARUM</i> , CAUSED BY HIGH LEVELS OF THE PARAMYXEAN PARASITE, <i>MARTELLIA GRANULA</i> , INFECTION OBSERVED ON THE SOUTH COAST OF KOREA Lee*, Kang, Cho, Hong, Lee, Choi | |
| 4:30 PM | | DEVELOPING AN EFFECTIVE TRANSFECTION PROTOCOL FOR GENE EDITING IN THE PACIFIC OYSTER, <i>CRASSOSTREA GIGAS</i> Wang* & Guo | COLLABORATING FOR OYSTER SUSTAINABILITY: COMMUNICATIONS ASSESSMENT AND NETWORK ANALYSIS OF RESTORATION STAKEHOLDERS ON THE GULF COAST Brown* & Jacobson | | DO PARASITES OF THE GENUS <i>MIKROCYTOS</i> PRESENT A RISK FOR THE PRODUCTION OF SHELLFISH IN EUROPE? Arzul, Lupo, Engelsma, Garcia | |
| 4:45 PM | | EXPRESSED EXOME CAPTURE SEQUENCING (EECSEQ): A METHOD FOR COST-EFFECTIVE EXOME SEQUENCING NON-MODEL ORGANISMS Puritz & Lotterhos | | DIGITAL PATHOGEN SURVEILLANCE: A ONE HEALTH APPROACH TO PREVENTING INFECTIOUS DISEASES IN HUMANS AND ANIMALS Gardy | INSIGHTS INTO MORTALITIES AFFECTING SILVER-LIPPED PEARL OYSTER <i>PINCTADA MAXIMA</i> IN THE KIMBERLEY SINCE 2006 Dang, Snow, Miller, Irving | |
| 5:00 PM | FOCUS GROUP DISCUSSION: BUILDING A COAST-WIDE OLYMPIA OYSTER NETWORK FROM BAJA CALIFORNIA TO BRITISH COLUMBIA | DIFFERENCES IN MITOTIC INSTABILITY BETWEEN CHEMICAL AND MATED TETRAPLOID LINES OF THE EASTERN OYSTER, <i>CRASSOSTREA VIRGINICA</i> Sousa & Allen, Jr. | | | PUBLIC HEALTH AND PERSONAL LIVELIHOODS: A CASE STUDY OF OYSTERS AND NOROVIRUS IN HAMMERSLEY INLET, PUGET SOUND Nixon | |
| 5:15 PM | | | | | CARDIAC RESPONSES TO BIOGENIC AMINES IN SELECTED MOLLUSCAN SPECIES Guilbeaux* & Deaton | |
| 5:30 PM | | | | Discussion | | ISOLATION AND TESTING OF PROBIOTICS AS A POTENTIAL TOOL FOR THE MANAGEMENT OF EPIZOOTIC SHELL DISEASE IN THE AMERICAN LOBSTER, <i>HOMARUS AMERICANUS</i> Hoffman*, Castro, Underwood, Ranson, Hatzipetro, Somers, Rowley, Nelson, Gomez-Chiarri |
| 5:45 PM | | | | | | SHELLFISH INDUSTRY IN EU: AN EXERCISE OF STAKEHOLDERS MAPPING Arzul, Prou, Delangle, Venier, Cheslett, Furones, Moreira, Ventura, Figueras, Feist, Lupo |
| 6:00 PM | | | | | | |

* denotes student presenter

^P denotes non first-author presenter

**TUESDAY
March 20, 2018**

| PLENARY: Peter Beninger – Centering on functional anatomy unlocks neat stuff from the molecular to the ecological levels Courtyard Ballroom | | | | | |
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| ROOM | Federal | Superior | Municipal | James | North |
| SESSION TITLE | SCIENCE, ART, AND COMMUNICATION Sandra Shumway | VIBRIO Kristin DeRosia-Banick, John Jacobs & Rohine Paranjpe | HARMFUL ALGAL BLOOMS Vera Trainer | GENOMICS: AN INTRODUCTORY PRIMER WORKSHOP Sarah Kingston & Maureen Krause | GENERAL CONTRIBUTED II Lewis Deaton |
| 8:00-8:50AM | | | | | |
| 9:00AM | ART, SCIENCE, AND HUMOR: THE IMPORTANCE OF EFFECTIVE COMMUNICATION McDermott | Introduction MANAGING <i>VIBRIO PARAHAEMOLYTICUS</i> RISK IN THE US: INNOVATIVE STRATEGIES FOR RISK REDUCTION DeRosia-Banick, Jacobs^P, Paranjpe | FIRST RECORDS OF THE GENUS <i>AZADINIUM</i> (DINOPHYCEAE) FROM PUGET SOUND, WASHINGTON STATE Trainer, Kim, Bill, Adams, Tillmann, Krock, Harrington | NEW TO THE GENOMICS REVOLUTION, WONDERING WHAT IT IS ALL ABOUT, AND HOW IT CAN BE APPLIED TO SHELLFISH BIOLOGY? THIS INTERACTIVE WORKSHOP WILL INTRODUCE THE NOVICE TO 'OMICS BASICS AND USE A CASE-STUDY APPROACH TO WALK ATTENDEES THROUGH A GENOMICS PROJECT, FROM DATA COLLECTION TO PUBLICATION. PLEASE BRING YOUR LAPTOPS. | USING ARCHAEOLOGICAL OYSTER SHELL TO INFER ANCIENT MARICULTURE Jenkins* |
| 9:15AM | | POPULATION GENETICS, BIOGEOGRAPHY, AND PHYLOGENETICS OF <i>VIBRIO PARAHAEMOLYTICUS</i> FROM NORTH AMERICA USING WHOLE GENOME SEQUENCE DATA Miller, Lüdeke, Weimer, Jones^P | <i>PSEUDO-NITZSCHIA</i> EARLY WARNING BULLETIN INCREASES CLAMMING OPPORTUNITIES ON PACIFIC NORTHWEST OUTER COAST BEACHES Trainer, McCabe, Hickey, MacCready, Hunter, Moore, Doucette, Banas, Forster^P | | FRESHWATER MUSSEL SHELLFISHING AS EVIDENCE OF CULTURE CONTINUITY AND DIVERGENCE DURING THE LATE PREHISTORIC IN WISCONSIN McTavish* |
| 9:30AM | CONTEMPORARY OBSTACLES TO CREDIBILITY IN SCIENCE Beninger | ECOSYSTEM AND GENOMIC RESEARCH IN SUPPORT OF <i>VIBRIO PARAHAEMOLYTICUS</i> RISK MANAGEMENT: WHAT ARE THE CRITICAL THEMES? Jones, Whistler, Hartwick, Taylor, Marcinkiewicz, Foxall, Nash | IDENTIFYING ENVIRONMENTAL DRIVERS OF <i>ALEXANDRIUM</i> HARMFUL ALGAL BLOOMS IN SOUTHEAST ALASKA Tobin, Crumpton, Wallace, Eckert | QUANTIFYING OYSTER REEF DEVELOPMENTAL TRAJECTORIES FROM 16 YEARS OF LIVING SHORELINES RESEARCH IN SOUTH CAROLINA, USA Kingsley-Smith, Hodges, Stone, Sundin, Johnson, Tweel, Sanger | LUNG VOLUME IN THE APPLE SNAIL, <i>POMACEA MACULATA</i> Lee & Deaton |
| 9:45AM | | | TRANSFER OF THE HARMFUL ALGAL TOXIN, MICROCYSTIN, FROM FRESHWATER TO MARINE ECOSYSTEMS Hardy & Preece | | |
| 10:00AM | THE JAPANESE ART OF <i>GYOTAKU</i> , THE INTERSECTING OF SCIENCE AND ART Koike | ENVIRONMENTAL DETERMINANTS OF <i>VIBRIO PARAHAEMOLYTICUS</i> IN THE CHESAPEAKE BAY: CURRENT AND FUTURE WORK Davis, Jacob, DePaola, Curriero | MONITORING HAB TOXINS USING SPATT PROXY FOR SHELLFISH MANAGEMENT Morton, Haynes, Wang, Hattenrath, Gobler, Leighfield | LACTIC ACID IN THE TISSUES OF THE APPLE SNAIL, <i>POMACEA MACULATA</i> Essajee & Deaton | |
| 10:15AM | | NEXT GENERATION <i>VIBRIO</i> RISK TOOLS DePaola, Bowers, Davis, Curriero | | QUANTITATIVE METHODS FOR MEASURING MITOTIC, MEIOTIC, AND DIFFERENTIATION ACTIVITY WITHIN GAMETOGENESIS OF TRIPLOID <i>CRASSOSTREA VIRGINICA</i> Matt* & Allen, Jr. | |
| 10:30-11:00AM | MORNING BREAK | | | | |
| SESSION TITLE | SEAGRASS-BIVALVE INTERACTIONS Kay McGraw & Brett Dumbauld | VIBRIO Kristin DeRosia-Banick, John Jacobs & Rohine Paranjpe | HARMFUL ALGAL BLOOMS Vera Trainer | COMPARATIVE GENOMICS: A HANDS-ON WORKSHOP ON THE EASTERN OYSTER GENOME Marta Gomez-Chiarri | GENERAL CONTRIBUTED II Kristen Linesch & Michael Kendrik |
| 11:00 AM | BIVALVE – SEAGRASS INTERACTIONS: INTRODUCTION TO THE SESSION McGraw & Dumbauld | COLD CHAINS FOR FARMED OYSTERS PRODUCED IN THE CHESAPEAKE BAY AND MODELED <i>VIBRIO PARAHAEMOLYTICUS</i> GROWTH Love, Lane, Clancy, Davis, Fry, Harding, Hudson^P | SOUNDTOXINS: A PUGET SOUND HAB MONITORING PARTNERSHIP King, Claassen, Borchert, Trainer, SoundToxins Partnership | RECENT EFFORTS IN GENOMIC SEQUENCING FOCUSED ON INVERTEBRATE SPECIES PROVIDE AN EXCITING OPPORTUNITY TO ANSWER A MULTITUDE OF BASIC AND APPLIED QUESTIONS RELATED TO SHELLFISH BIOLOGY AND ECOLOGY. IN THIS HANDS-ON WORKSHOP, WE WILL TAKE ADVANTAGE OF THE RELEASE OF THE EASTERN OYSTER GENOME AND DEMONSTRATE HOW TO EXPLOIT THIS AND OTHER GENOMICS RESOURCES TO ANSWER KEY QUESTIONS IN INVERTEBRATE BIOLOGY. PLEASE BRING YOUR LAPTOP. | RADULAR DEVELOPMENT AND LACK OF RADULAR PLASTICITY IN PINTO ABALONE (<i>HALIOTIS KAMTSCHATKANA</i>) POSTLARVAE AND YOUNG JUVENILES Kuehl* |
| 11:15 AM | SHELLFISH AQUACULTURE AND EELGRASS: A GLOBAL META-ANALYSIS Ferriss, Conway-Cranos, Sanderson, Hoberecht | FORECASTING <i>VIBRIO PARAHAEMOLYTICUS</i> IN LONG ISLAND SOUND OYSTERS AND MANAGEMENT STRATEGIES FOR AQUACULTURE Whitney, DeRosia-Banick, Deignan-Schmidt | COMMUNITY-BASED MITIGATION OF HARMFUL ALGAL BLOOMS AND SHELLFISH POISONINGS IN SOUTHEAST ALASKA Kennedy, Lanphier, Whitehead | | GROWTH OF JUVENILE FRESHWATER MUSSELS (<i>ANODONTA IMPLICATA</i>) REARED IN PONDS WITHIN THE DELAWARE ESTUARY Cheng, Kreeger, Padeletti, Butler, Thomas |
| 11:30 AM | COASTAL MANAGEMENT USING OYSTER-SEAGRASS INTERACTIONS FOR SUSTAINABLE AQUACULTURE, FISHERIES, AND ENVIRONMENT Hori, Lagarde, Derolez, Richard, Hamaguchi, Hori, Makino | EVALUATING LIPOSOMES FOR THE DELIVERY OF OXYTETRACYCLINE TO OYSTER LARVAE (<i>CRASSOSTREA GIGAS</i>) AND SUBSEQUENT EFFECTS ON RESISTANCE TO <i>VIBRIO CORALLILYTICUS</i> Blodgett*, Langdon, Hawkyard | IMPACTS OF TWO HARMFUL ALGAL BLOOM SPECIES ON OYSTERS CULTURED IN LOWER CHESAPEAKE BAY Robison*, Vogelbein, Reay, Carnegie, Smith, Reece | | ARE OYSTERS IN THE CHESAPEAKE BAY PRIORITIZING THEIR OFFSPRING OVER THEIR HEALTH? Huey* & Carnegie |
| 11:45 AM | MANAGING EELGRASS AND SHELLFISH AQUACULTURE IN WASHINGTON: A WORKSHOP TO EXAMINE CHALLENGES AND INCONSISTENCIES Hoberecht, Sanderson, Ferriss | BACTERIOPHAGES SIGNIFICANTLY REDUCE LARVAL OYSTER MORTALITY CAUSED BY <i>VIBRIO CORALLILYTICUS</i> Madison*, Langdon, Hase, Richards, Watson, Soffer, Li, Sulakvelidze | IMPACTS OF TWO HARMFUL ALGAL BLOOM SPECIES ON DIPLOID AND TRIPLOID LARVAL AND JUVENILE OYSTERS Reece, Hobbs, Jones III, Scott, Harris, Vogelbein | | MOLECULAR CLONING, EXPRESSION PATTERN ANALYSIS, AND IN SITU HYBRIDIZATION OF A DMRT11E GENE IN THE ORIENTAL FRESHWATER PRAWN, <i>MACROBRACHIUM NIPPONENSE</i> Yabing, Hongtuo, Hui, Shengming, Wenyi, Shubo^P, Yongsheng, Sufei, Yiwei, Yan |
| 12:00 NOON | SOME CONSIDERATIONS FOR EVALUATING OYSTER-SEAGRASS INTERACTIONS AT BROADER SCALES IN US WEST COAST ESTUARIES Dumbauld | EFFECT OF ANOXIA ON THE VIRULENCE OF <i>VIBRIO CORALLILYTICUS</i> AND ITS IMPACT ON THE MORTALITY AND IMMUNE FUNCTION OF THE EASTERN OYSTER, <i>CRASSOSTREA VIRGINICA</i> Phippen*, Ivanina, Sokolova, Oliver | STAGE-SPECIFIC DETRIMENTAL EFFECTS OF THE BIOACTIVE EXTRACELLULAR COMPOUNDS PRODUCED BY <i>ALEXANDRIUM MINUTUM</i> ON EARLY DEVELOPMENT OF THE OYSTER <i>CRASSOSTREA GIGAS</i> Castrec*, Soudant, Petton, Ratiskol, Le Grand, Le Goic, Lambert, Boulais, Hégaret, Fabioux | | HORSESHOE CRAB PASSAGE THROUGH RACK-AND-BAG OYSTER FARMS Munroe, Bushek^P, Woodruff, Calvo |
| 12:15 PM | COMPARING FISH AND CRAB USE OF THE BOUNDARY BETWEEN TWO TYPES OF PACIFIC OYSTER AQUACULTURE AND EELGRASS IN WILLAPA BAY, WASHINGTON, USA Muething* & Dumbauld | THE EFFECTS OF AERIAL EXPOSURE AT LOW TIDE ON <i>VIBRIO</i> CONCENTRATIONS IN HARVESTED OYSTERS CULTURED IN THE INTERTIDAL Ben-Horin, Audemard, Bushek, Calvo, Reece | | | PHYSIOLOGICAL IMPACTS OF THE BIOMEDICAL BLEEDING PROCESS ON THE ATLANTIC HORSESHOE CRAB, <i>LIMULUS POLYPHEMUS</i> , IN SOUTH CAROLINA, USA Linesch, Burnett, Burnett, Kalisperis, Fowler |
| 12:30-1:30 PM | LUNCH BREAK | | | | |

* denotes student presenter

^P denotes non first-author presenter

| TUESDAY March 20, 2018 | | | | | |
|-----------------------------------|---|---|---|---|--|
| ROOM | Federal | Superior | Municipal | James | North |
| SESSION TITLE | SEAGRASS-BIVALVE INTERACTIONS Kay McGraw & Brett Dumbauld | VIBRIO Kristin DeRosia-Banick, John Jacobs & Rohine Paranjpe | CLAMS Matthew Hunter & Daniel Ayres | PREPARATION OF SHELLFISH FOR DISEASE DIAGNOSTICS WORKSHOP Roxanna Smolowitz & Dale Leavitt | NORTHWEST INDIAN TRIBES SHELLFISH MANAGEMENT AND FISHERIES Sandy Zeiner |
| 1:30 PM | QUANTIFYING ECOSYSTEM FUNCTIONS IN MIXED OYSTER CULTURE AND SEAGRASS/MACROALGAL HABITATS Cheney, Hudson, Dumbauld Cordell, Nash, Kramer | LEVELS OF <i>VIBRIO</i> SPP. AFTER DESICCATION AND RE-SUBMERGENCE OF OYSTERS STORED IN THREE COMMON GEAR TYPES IN ALABAMA Neil, Prunte, Webb, Walton, Jones | RAZOR CLAM (<i>SILIQUA PATULA</i>) SEASON SETTING IN WASHINGTON STATE Ayres & Parson | RISK OF DISEASE IS A CONSTANT THREAT TO SHELLFISH FARMERS ACROSS THE INDUSTRY. THIS WORKSHOP WILL PROVIDE GROWERS WITH INFORMATION TO AID IN THEIR DEFENSE AGAINST LOSING SHELLFISH TO DISEASE. MATERIAL COVERED DURING THE WORKSHOP WILL INCLUDE THE ANATOMY/PHYSIOLOGY OF BIVALVES, SOME OF THE MORE IMPORTANT DISEASES OF OYSTERS AND CLAMS FOUND IN THE U.S., WHAT TO DO IF A DISEASE IS SUSPECTED, AND MEANS OF BIOSECURITY TO REDUCE THE RISK OF DISEASE INITIATING. PARTICIPANTS WILL LEARN BASIC ANATOMY AND PHYSIOLOGY OF BIVALVE THROUGH A HANDS-ON DISSECTION OF CLAMS AND OYSTERS. AFTER DISSECTION, THERE WILL BE AN INTRODUCTION TO IMPORTANT DISEASES OF BIVALVES, INCLUDING DERMO AND ASSOCIATED DISEASES (<i>PERKINSUS MARINUS</i> AND <i>P. OLSENI</i>), MULTINUCLEATED SPHERE UNKNOWN (MSX – HAPLOSPORIUM NELSON), OSTREID HERPES VIRUS 1 (OSHV-1), QUAHOG PARASITE UNKNOWN (QPX) AND TRANSMISSIBLE TUMOR. | TRIBAL CO-MANAGEMENT OF THE SHELLFISH RESOURCES IN WASHINGTON STATE: AN EVOLVING PROCESS Fyfe |
| 1:45 PM | COMPARATIVE HABITAT USE OF ESTUARINE HABITATS WITH AND WITHOUT OYSTER AQUACULTURE: CHALLENGES, PARTNERSHIPS, AND INITIAL LESSONS Meaders, Bloch, Czesla | THE EFFECT OF HIGH SALINITY ON THE ABUNDANCE, ANTIBIOTIC RESISTANCE, AND GENETIC DIVERSITY OF <i>VIBRIO PARAHAEMOLYTICUS</i> IN AN OYSTER RELAY STUDY Parveen, Elmahdi, Jahncke, Jacobs, Bowers | THE OREGON PACIFIC RAZOR CLAM RESOURCE: HISTORIC AND CURRENT MANAGEMENT Hunter | | TRIBAL SHELLFISH HARVEST MANAGEMENT ON PRIVATELY OWNED TIDELANDS IN WASHINGTON STATE Moore, Barry, Unsell |
| 2:00 PM | MONITORING EELGRASS RESPONSES TO AQUACULTURE ACTIVITIES AND DEVELOPMENT OF IMPROVED MONITORING TOOLS Lummis*, Kroeker, Newkirk, Klausmeyer, Lomonico, Jones, Finger, Sawyer | EFFECTS OF TUMBLING AND REFRIGERATION ON THE ABUNDANCE OF <i>VIBRIO VULNIFICUS</i> AND <i>VIBRIO PARAHAEMOLYTICUS</i> IN CULTURED OYSTERS (<i>CRASSOSTREA VIRGINICA</i>) Prunte*, Walton, Jones | MONITORING THE RECOVERY OF EAST SIDE COOK INLET RAZOR CLAMS Kerkvliet, Booz, Blackmon, Hansen | | THE SWINOMISH SHELLFISH PROGRAM: MANAGEMENT, RESEARCH, AND RESTORATION EFFORTS Loomis, Barber^P, Greiner, Grossman |
| 2:15 PM | OYSTERS SHOW ENHANCED GROWTH IN EELGRASS: DOES PH EXPLAIN THE DIFFERENCE? Horwith & Lowe | THE ABUNDANCE AND OCCURRENCE OF <i>VIBRIO</i> IN CULTURED OYSTERS GROWN AT VARIOUS DEPTHS WITHIN THE WATER COLUMN Scro, Agnew, Smolowitz | RELATIONSHIP BETWEEN THE GROWTH CYCLE OF THE RAZOR CLAM AND THE SEASONALITY OF PHYTOPLANKTON BLOOMS ON THE WASHINGTON COAST Forster & Berry | | MAINTAINING LIVELIHOODS AND CULTURAL DIVERSITY THROUGH TRIBAL SHELLFISH AQUACULTURE Riccio, Toy, Parsons, Grinnell |
| 2:30 PM | OYSTERS SHOW ENHANCED GROWTH IN EELGRASS: DOES DIET EXPLAIN THE DIFFERENCE? Lowe* & Horwith | MITIGATION STRATEGIES FOR <i>VIBRIO PARAHAEMOLYTICUS</i> IN OYSTER SHELLSTOCK INTENDED FOR RAW CONSUMPTION Liu & DePaola | HABITAT EFFECTS OF MACROPHYTES AND SHELL ON THE PERFORMANCE OF JUVENILE CLAMS AND LOCAL PH CONDITIONS Greiner, Klinger, Ruesink, Horwith | | PACIFIC RAZOR CLAM AND DUNGENESS CRAB FISHERY MANAGEMENT CHALLENGES ON THE WASHINGTON COAST Schumacker |
| 2:45 PM | FILTER-FEEDING BIVALVES CAN ENHANCE <i>ZOSTERA MARINA</i> REPRODUCTIVE OUTPUT Peterson, Jackson, Furman | MANAGING <i>VIBRIO PARAHAEMOLYTICUS</i> IN WASHINGTON Hard | SPATIAL AND TEMPORAL POPULATION VARIABILITY IN INTERTIDAL CLAMS Barber, Ruff, McArdle, Hunter, Speck, Rogers, Greiner | | DUNGENESS CRAB TRAP CATCH EFFICIENCY RELATED TO ESCAPE RING LOCATION AND SIZE Stearns, Conrad, Winfrey, Shippentower-Games, Finley |
| 3:00 PM | HABITAT COMPLEXITY MEDIATES PREDATOR-BIVALVE INTERACTIONS IN CHESAPEAKE BAY Seitz & Glaspie | <i>VIBRIO PARAHAEMOLYTICUS</i> MANAGEMENT FOR OYSTERS IN MASSACHUSETTS Schillaci*, Jones, Whistler, Regan | THE CASE OF THE “MISSING” ARCTIC BIVALVES AND THE WALRUS, THE BIGGEST [IGNORED] CLAM FISHERY ON THE PLANET Mann, Powell, Munroe | | IMPLEMENTING A SIZE RESTRICTION TO OFFSET IMPACTS FROM SIZE-SELECTIVE HARVESTING OF GIANT RED SEA CUCUMBERS Mueller |
| SESSION TITLE | SEAGRASS-BIVALVE INTERACTIONS Kay McGraw & Brett Dumbauld | VIBRIO Kristin DeRosia-Banick, John Jacobs & Rohine Paranjpe | PHYTOPLANKTON CULTURE: A TRIBUTE TO RRL GUILLARD Gary Wikfors & Steve Morton | PREPARATION OF SHELLFISH FOR DISEASE DIAGNOSTICS WORKSHOP Roxanna Smolowitz & Dale Leavitt | NORTHWEST INDIAN TRIBES SHELLFISH MANAGEMENT AND FISHERIES Sandy Zeiner |
| 3:15PM | SHELLFISH COMMUNITY PATTERNS IN THE NATIVE AND NON-NATIVE EELGRASS HABITATS OF NETARTS BAY, OREGON, USA D’Andrea, Perotti, Moffett, Strickland | PANEL DISCUSSION: MANAGING <i>VIBRIO PARAHAEMOLYTICUS</i> RISK IN THE US: INNOVATIVE STRATEGIES FOR RISK REDUCTION | THE FUTURE OF THE PROVASOLI-GUILLARD NATIONAL CENTER FOR MARINE ALGAE AND MICROBIOTA Lomas, Sexton, Preston, Hurd, Blanchette, Reed | THE WORKSHOP WILL CONCLUDE WITH A DISCUSSION OF HOW TO RESPOND SHOULD ONE SUSPECT A DISEASE IS DEVELOPING ON THEIR FARM; THE TIMING OF MONITORING, SAMPLE COLLECTION AND SHIPPING; TESTING METHODS FOR DISEASE DIAGNOSIS; AND BIOSECURITY PRACTICES FOR THE FARM. | UNUSUAL 2017 MICROALGAL BLOOM HAS RIPPLE EFFECTS ON THE BIVALVES OF HOOD CANAL Paul & Books |
| 3:30 PM | EFFECTS OF CONTROLLED, LARGE-SCALE REMOVAL OF <i>ZOSTERA JAPONICA</i> ON ESTUARINE FAUNA Patten & Norelius | | MICROALGAL BIOCHEMICAL COMPOSITION AND BIVALVE NUTRITION: HOW WE KNOW WHAT WE KNOW Wikfors | | |
| 3:45 PM | ASSESSMENT OF INTERACTIONS BETWEEN SALMON HABITAT RESTORATION ACTIONS AND SHELLFISH RESOURCES Meaders & Schlenger | | WHAT WE STILL DO NOT KNOW ABOUT FEEDING BIVALVES AND WHAT WE NEED TO DO Henry & Reed | | |
| 4:00 PM | | | ESSENTIAL FATTY ACID ASSIMILATION AND SYNTHESIS IN <i>CRASSOSTREA GIGAS</i> LARVAE da Costa, Robert, Quéré, Wikfors, Soudant | | |
| 4:15 PM | | | ALGAL ECONOMICS FOR SHELLFISH HATCHERIES Glover & Roulston | | |
| 4:00 – 6:00 PM | POSTER SESSION AND HAPPY HOUR Madison Ballroom | | | | |
| 7:00 PM - ??? | STUDENT ENDOWMENT FUND AUCTION Courtyard Ballroom | | | | |

* denotes student presenter

^P denotes non first-author presenter

| WEDNESDAY March 21, 2018 | | | | | |
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| 8:00-8:50AM | PLENARY: Donal Manahan – <i>Predicting adaptive responses to ocean change: implications for aquaculture</i> Courtyard Ballroom | | | | |
| ROOM | North | West | James | South | East |
| SESSION TITLE | GREEN CRABS Sylvia Yamada & Thomas Therriault | UNDERGRADUATE RESEARCH COLLOQUIUM Edward Catapane | CONTAMINANTS OF EMERGING CONCERN Aswani Volety & Evan Ward | OYSTERS: EAST MEETS SOUTH MEETS WEST Chris Davis & Bill Walton | GENERAL CONTRIBUTED III Vincent Encomio & Michael Doall |
| 9:00AM | EUROPEAN GREEN CRAB IN BRITISH COLUMBIA: TRACKING THE SPREAD OF A HIGH-RISK INVADER Therriault, Hodes, Norgard, Curtis, Gillespie | IMMUNOHISTOFLUORESCENCE STUDY OF THE ACTIONS OF MANGANESE ON THE PHOSPHOLIPASE C AND IP3 RECEPTOR MECHANISMS OF DOPAMINE D2-LIKE POST-SYNAPTIC RECEPTORS IN <i>CRASSOSTREA VIRGINICA</i> Eid*, Amoako, Cummings, Jacobs, Carroll, Catapane | CAPTURE AND INGESTION OF NANOPARTICLES BY BIVALVES: IMPLICATIONS FOR BIOACCUMULATION AND TOXICITY Ward, Doyle, Haynes, Holohan | COMPARTMENTALIZATION OF HEMOCYTE FUNCTIONS IN CONGENERS OF TWO OYSTERS Little-Jackson, Faltz, Ivanina^P | A NOVEL LOW-VOLUME PORTABLE PUMP SYSTEM FOR SAMPLING LARVAL SHELLFISH IN SHALLOW, TURBULENT, 'DIRTY' ENVIRONMENTS Nichols & Hudak |
| 9:15AM | EUROPEAN GREEN CRAB IN THE WASHINGTON SALISH SEA: SAME STATE DIFFERENT INVASION Grason, McDonald, Little, Adams | A ROLE FOR PROTEIN KINASE C IN GILL LATERAL CELL ACTIVITY OF <i>CRASSOSTREA VIRGINICA</i> Johnson*, Ernest, Carroll, Catapane | A 72-HOUR GRAPHENE OXIDE NANOPARTICLE EXPOSURE STUDY WITH EASTERN OYSTERS Khan, Adeleye, Russo, Burgess, Ho | REEXAMINING <i>BONAMIA OSTREAE</i> IN MAINE FLAT OYSTERS Bienlien*, Lane, Carnegie | COMPARISON OF UNDERWATER PHOTO AND VIDEO SURVEY METHODS WITH DIVER OBSERVATIONS TO ASSESS NEARSHORE ALGAE AND BENTHIC MARINE INVERTEBRATE COMMUNITIES Bureau & Lessard |
| 9:30AM | BIOLOGICAL AND PHYSICAL OCEAN INDICATORS PREDICT THE SUCCESS OF THE INVASIVE EUROPEAN GREEN CRAB, <i>CARCINUS MAENAS</i> Yamada, Prickett, Yednock, Geierman, Indivero, Williams, Randall, Peterson, Fisher, Kosro | THE EFFECTS OF TAURINE ON MANGANESE ACCUMULATIONS IN GILL OF THE EASTERN OYSTER, <i>CRASSOSTREA VIRGINICA</i> Santos*, Agyei, Griffith, Jr., Carroll, Catapane | TEMPORAL EFFECTS OF EXPOSURE TO PHARMACEUTICALS AND PERSONAL CARE PRODUCTS AND THEIR MIXTURE ON THE EASTERN OYSTER (<i>CRASSOSTREA VIRGINICA</i>) METABOLOME Brew* & Black | A NEW COLLECTION METHOD FOR WILD PACIFIC OYSTER SPAT IN THE INTERTIDAL ZONE FOR COMPLEMENTING SPAT SUPPLY IN JAPAN Hasegawa, Watanabe, Higano, Tsuchihashi, Kuriyama | GROWTH AND REPRODUCTIVE CONDITION OF PACIFIC OYSTER (<i>CRASSOSTREA GIGAS</i>) RAISED IN AN INTERTIDAL RACK-SUSPENDED CULTURE SYSTEM IN TAEAN OFF THE WEST COAST OF KOREA, THREE YEARS AFTER THE <i>HEBEI SPIRIT</i> OIL SPILL Hong, Lee, Jeung, Park, Choi |
| 9:45AM | THE MORAN EFFECT AND REGIONAL SYNCHRONY OF EUROPEAN GREEN CRAB POPULATIONS ALONG THE PACIFIC COAST Grosholz, Chang, Jeppesen, McCann, de Rivera, Ruiz, Therriault, Wasson, Yamada | | LETHAL AND SUB-LETHAL EFFECTS OF THE POLYFLUORINATED COMPOUND, GENX, ON THE EASTERN OYSTER, <i>CRASSOSTREA VIRGINICA</i> Volety, Loh, Soudant, Lenentine, Harell, Soudant, Volety | DENSITY-DEPENDENT CAPTURE EFFICIENCY OF A SURVEY DREDGE AND ITS INFLUENCE ON THE STOCK ASSESSMENT OF EASTERN OYSTERS (<i>CRASSOSTREA VIRGINICA</i>) IN DELAWARE BAY Morson*, Munroe, Ashton-Alcox, Powell, Bushek, Gius | APPLICATION OF TRIPLOIDY TO AN EMERGENT OYSTER CULTURE INDUSTRY ON THE FLORIDA WEST COAST Cyr, Markham, Sims, Sturmer |
| 10:00AM | COMPARING PREDATION IMPACTS OF NATIVE AND INVASIVE CRABS USING A BIOENERGETICS APPROACH McDonald, Holsman, Armstrong | | INGESTION, BIOACCUMULATION, AND DEPURATION OF MICRO- AND NANO-PLASTIC PARTICLES BY MARINE BIVALVES Ward, Haynes, Holohan, Mladinich | THE BILLION OYSTER PROJECT: CHALLENGES, LESSONS, AND OPPORTUNITIES IN RESTORING OYSTERS TO AN URBANIZED ENVIRONMENT Burmester, McCann, Mosher, Malinowski | TAURINE REDUCES THE TOXIC EFFECTS OF MANGANESE ON MITOCHONDRIAL MEMBRANE POTENTIAL Catapane, Carroll, Florestan, Gazca |
| 10:15AM | EVALUATION OF SHORT-TERM REMOVAL EFFORT TO CONTROL THE EUROPEAN GREEN CRAB, <i>CARCINUS MAENAS</i> , POPULATION IN THE BROKEN GROUP ISLANDS, BRITISH COLUMBIA Yakimishyn & Zharikov | | DETERMINING PRESENCE OF MICROPLASTICS IN SHELLFISH FROM PUGET SOUND, WASHINGTON, USA Martinelli & Padilla-Gamiño | SURVEYING BENTHIC INVERTEBRATE COMMUNITIES ASSOCIATED WITH OYSTER AQUACULTURE SITES IN MAINE Lindsay, Deon, Holmes, Miller, Silverbrand, Rawson^P | OYSTER RESTORATION EFFORTS IN THE SOUTHERN INDIAN RIVER LAGOON, FLORIDA - INCORPORATING RESILIENCY TO FRESHWATER DISCHARGES Encomio |
| 10:30-11:00AM | MORNING BREAK | | | | |
| SESSION TITLE | GREEN CRABS Sylvia Yamada & Thomas Therriault | RIBBED MUSSELS Dave Bushek & Danielle Kreeger | CONTAMINANTS OF EMERGING CONCERN Aswani Volety & Evan Ward | OYSTERS: EAST MEETS SOUTH MEETS WEST Chris Davis & Bill Walton | GENERAL CONTRIBUTED III Vincent Encomio & Michael Doall |
| 11:00 AM | LARGE-SCALE GREEN CRAB REMOVAL AS SITE PREPARATION FOR EELGRASS RESTORATION EFFORTS IN PLACENTIA BAY, NEWFOUNDLAND, CANADA Best & Le Bris | SESTON FILTRATION AND RESTORATION POTENTIAL OF RIBBED MUSSELS COMPARED WITH OTHER NATIVE BIVALVES Kreeger, Moody, Cheng | EFFECTS OF SURFACE SURFACTANTS ON PARTICLE CAPTURE, CLEARANCE EFFICIENCY, AND CLEARANCE RATES OF THE BLUE MUSSEL (<i>MYTILUS EDULIS</i>) Rosa, Ward, Flores, Sierra, Torres | FOOD WEB OF THE EASTERN OYSTER AND BLUE CRAB: SCAVENGERS, FACILITATION, COMPETITION, AND KLEPTOPARASITISM Lipcius & Chei | IF YOU BUILD IT, WHY DO THEY COME? AN INVESTIGATION INTO THE MOTIVATIONS OF VOLUNTEER OYSTER GARDENERS Waters, Jr.*, Walton, Petrolia, Swann, Witte |
| 11:15 AM | ASSESSING SHELLFISH TRANSFERS AS A VECTOR FOR THE EUROPEAN GREEN CRAB (<i>CARCINUS MAENAS</i>) AND THE EFFECTIVENESS OF POWER-WASHING TO MITIGATE MOVEMENT Curtis, Pearce, Hodes, Therriault | HABITAT CHARACTERIZATION OF THE RIBBED MUSSEL (<i>GEUKENSIA DEMISSA</i>) AND ITS RESPONSE TO HARVEST IN SOUTH CAROLINA, USA Julien*, Tweel, Hadley, McGlenn, Kingsley-Smith | | OYSTER SHELL BUDGETS IN THE CHESAPEAKE BAY: A SUMMARY FROM LONG-TERM SURVEY DATA Mann, Southworth, Wesson, Tarnowski, Thomas | OYSTER RESTORATION IN HARRIS CREEK, MARYLAND: A PROGRESS REPORT Paynter, Needham, McDowell |
| SESSION TITLE | GREEN CRABS Sylvia Yamada & Thomas Therriault | RIBBED MUSSELS Dave Bushek & Danielle Kreeger | SHELLS AND MATERIALS Karolyn Hansen & Andrew Mount | OYSTERS: EAST MEETS SOUTH MEETS WEST Chris Davis & Bill Walton | GENERAL CONTRIBUTED III Vincent Encomio & Michael Doall |
| 11:30 AM | | EFFECTS OF PREDATION AND SUBSTRATE CHOICE ON RIBBED MUSSEL RECRUITMENT FOR LIVING SHORELINE APPLICATIONS Moody & Kreeger | CRACKING THE SHELL: AN INVESTIGATION OF SHELL REPAIR IN THE OYSTER, <i>CRASSOSTREA VIRGINICA</i> Outhwaite*, Hansen, Hansen | WORKSHOP: EXPLORING AN INITIATIVE TO TRAIN THE NEXT GENERATION OF SHELLFISH BIOLOGISTS | ARE SPawner SANCTUARIES AN EFFECTIVE RESTORATION STRATEGY FOR THE NORTHERN QUAHOG (= HARD CLAM) <i>MERCENARIA MERCENARIA</i> : A COMPARISON OF TWO RESTORATION EFFORTS ON LONG ISLAND, NEW YORK Doall, Kulp, Peterson, Lobue, Starke, Griffith, Gobler |
| 11:45 AM | Discussion | SPATIALLY EXPLICIT ESTIMATES OF THE IMPACTS OF SEA LEVEL RISE AND EROSION ON RIBBED MUSSEL (<i>GEUKENSIA DEMISSA</i>) MEDIATED ECOSYSTEM FUNCTIONS Isdell*, Bilkovic, Hershner | PHENOTYPIC PLASTICITY IN SHELL CONSTRUCTION AND REMODELING IN THE GASTROPOD, <i>NUCELLA LAMELLOSA</i> Charifson* & Bourdeau | | A DYNAMIC MODEL FOR MANAGEMENT OF OYSTER NURSERIES Soares, Nobre, Hubert |
| 12:00 NOON | | A PILOT STUDY OF NUTRIENT BIOEXTRACTION USING RIBBED MUSSELS AT HUNTS POINT, NEW YORK CITY, FROM CONCEPTION TO CONCLUSION: PATHS, PROCESSES, PARTNERSHIPS, PERCEPTIONS, AND PROJECTIONS Galimany, Wikfors^P, Dixon, Newell, Meseck, Henning, Li, Tedesco, Dwyer, Rose | MOLECULAR MODELING AND CHARACTERIZATION OF A MUSSEL ADHESIVE PROTEIN (MEFP-5) Zimlich*, Hansen, Hansen | | SPAT ON SHELL AS A MEANS FOR STOCK ENHANCEMENT OF PUBLIC REEFS IN ALABAMA, AND THE STANDARDIZATION OF SETTING EFFICIENCY ASSESSMENT Lappin*, Walton, Rikard, Herrmann |
| 12:15 PM | | | | | BABYSITTING BABY SQUID: <i>IN SITU</i> MONITORING OF LONGFIN INSHORE SQUID EGG DEPOSITION AND EMBRYONIC DEVELOPMENT Nichols, Groglio, Eldredge |
| 12:30-2:00 PM | NSA BUSINESS LUNCHEON Courtyard Ballroom | | | | |
| 2:00 - 4:30 PM | SCALLOP GALLOP EXPLORE SEATTLE!! | | | | |
| 4:30 - 6:00 PM | POSTER SESSION AND HAPPY HOUR Madison Ballroom | | | | |
| 6:30 PM - ??? | KEN CHEW CHINESE DINNER (Tickets must be purchased by 5PM on Monday) | | | | |

* denotes student presenter

^P denotes non first-author presenter

| <p style="text-align: center;">THURSDAY March 22, 2018</p> | | | | | |
|--|--|--|--|--|---|
| 8:00-8:50AM | <p style="text-align: center;">PLENARY: Gary Wikfors – ‘The Milford Method’: Origins, Evolution, and Applications Courtyard Ballroom</p> | | | | |
| ROOM | Federal | Superior | Municipal | North | West |
| SESSION TITLE | GEODUCKS Joth Davis & Paul Gribben | OsHV-1 Tim Green & Colleen Burge | SHELLFISH AND CLIMATE CHANGE Hillary Lane Glandon & Sarah Kingston | APPLICATIONS OF CRUSTACEAN BIOLOGY TO FISHERIES MANAGEMENT Theresa Bert & Harriet Perry | ONE HEALTH EPIGENOMICS AND MICROBIOMES: FROM SOIL TO PEOPLE WORKSHOP Acacia Alcivar-Warren |
| 9:00AM | COMPARISON OF GROWTH CURVES OF THE GEODUCK, <i>PANOPEA GLOBOSA</i> , FROM FOUR FISHING ZONES IN NORTHWESTERN MEXICO Aragón-Noriega, Cruz-Vásquez, Castillo-Vargasmachuca, Rodríguez-Domínguez, Alcántara-Razo, Ponce-Palafox, López-Sánchez | EXPERIENCES WITH OSTREID HERPESVIRUS 1 (OsHV-1) IN AUSTRALIA – IMPACTS AND POSSIBLE SOLUTIONS Kirkland, Gestier, Gu | WINTER IS (NOT) COMING: CHANGES TO OVERWINTER BEHAVIOR OF BLUE CRAB IN RESPONSE TO WARMING TEMPERATURES Glandon, Kilbourne, Miller | ENVIRONMENTAL DRIVERS OF THE SPATIAL AND TEMPORAL DISTRIBUTION OF SPAWNING BLUE CRABS, <i>CALLINECTES SAPIDUS</i> , IN THE WESTERN GULF OF MEXICO Anderson, Olsen, Wagner^P, Gelpi, Topping | ONE HEALTH EPIGENOMICS AND MICROBIOMES: FROM SOIL TO PEOPLE WORKSHOP Alcivar-Warren |
| 9:15AM | THE GEOGRAPHICAL DISTRIBUTION OF THE GEODUCKS, <i>PANOPEA GENEROSA</i> AND <i>P. GLOBOSA</i> González-Peláez, Vélez-Arellano, Bautista-Romero, Carvalho-Saucedo, Lluch-Cota | | THE ROLE OF CLIMATE IN DRIVING DISEASE DYNAMICS IN THE COMMERCIALY IMPORTANT WHITE SHRIMP, <i>LITOPENAEUS SETIFERUS</i> Kendrick, Frischer, Brunson, Gooding, Byers, Geer, Kingsley-Smith | A REVIEW OF RECENT FISHERY-INDEPENDENT AND FISHERY-DEPENDENT MONITORING DATA FOR BLUE CRABS IN THE GULF OF MEXICO SPECIFIC TO MANAGEMENT OF THE RESOURCE Wagner, Perry, Collins, Anderson, Burris, Anderson, Olsen, Gelpi, Topping | PRESENT STATUS OF MANGROVE ECOSYSTEMS IN MEXICO, WITH NOTES ON THEIR KNOWLEDGE AND CONSERVATION CHALLENGES REGARDING NATURAL AND ANTHROPOGENIC IMPACTS Ruiz-Luna & Berlanga-Robles |
| 9:30AM | GROWTH MODELING IN TWO POPULATIONS OF <i>P. GLOBOSA</i> FROM THE UPPER GULF OF CALIFORNIA: INTEGRATION OF INDIVIDUAL GROWTH PROFILES AND JUVENILE DATA TO TERMINAL SIZE-AT-AGE Vega-Collazo*, González-Peláez, Hidalgo-de-la-Toba, Bautista-Romero, Lluch-Cota | GENETIC VARIATION IN PACIFIC OYSTERS (<i>CRASSOSTREA GIGAS</i>) FOR RESISTANCE TO OSTREID HERPESVIRUS-1 Kube, Dove, Cunningham | ASSESSMENT OF THE DISTRIBUTION SHIFT AND RANGE EXPANSION OF THE ATLANTIC SURFLCLAM, <i>SPISULA SOLIDISSIMA</i> , USING A SPATIAL DISTRIBUTION FUNCTION MODEL Timbs*, Mann, Powell | A REVIEW OF RECENT FISHERY-INDEPENDENT MONITORING DATA FOR BLUE CRABS IN THE GULF OF MEXICO: THE DISCONNECT BETWEEN SETTLEMENT AND SUBSEQUENT JUVENILE ABUNDANCE Perry, Collins, Anderson, Johnson, Sanchez-Rubio, Burris, Wagner | |
| 9:45AM | POPULATION GENOMICS OF <i>PANOPEA GLOBOSA</i> BASED ON ANALYSIS OF SINGLE NUCLEOTIDE POLYMORPHISM OBTAINED BY DDRAD López*, Munguía, Cruz | DOES FIRST BARRIER PASSAGE SHUNT MATTER IN DISEASE REPRODUCTION? UPDATE FROM OSHV-1 – <i>CRASSOSTREA GIGAS</i> MODEL Morga, Picot, Faury, Dégremont, Renault, Lupo, Travers | THE ‘EAST OF NANTUCKET’ SURVEY: SURFLCLAMS ON THE MARCH OFFSHORE – MUSSELS BEWARE Kuykendall, Powell, Mann, Long, Timbs | A HIERARCHICAL BAYESIAN SURPLUS PRODUCTION MODEL FOR BLUE CRAB (<i>CALLINECTES SAPIDUS</i>) IN THE NORTHERN GULF OF MEXICO Oshima* & Leaf | |
| 10:00AM | INDIVIDUAL GROWTH PROFILES AS AN ALTERNATIVE TO THE TERMINAL SIZE-AT-AGE METHOD IN <i>PANOPEA GENEROSA</i> STUDIES Hidalgo-de-la-Toba*, González-Peláez, Morales-Bojorquez, Bautista-Romero, Lluch-Cota | OSTREID HERPES VIRUS IN THE UK: DISEASE CHALLENGES, SNP-ARRAY DEVELOPMENT, AND A GENOME-WIDE ASSOCIATION STUDY FOR HOST RESISTANCE IN PACIFIC OYSTERS (<i>CRASSOSTREA GIGAS</i>) Bean, Gutierrez, Hooper, Stenton, Sanders, Paley, Gharbi, Houston | THE WARMING OF THE NORTHWEST ATLANTIC AS RECORDED BY THE OCEAN QUAHOG, <i>ARCTICA ISLANDICA</i> , WITH A NOTE ON CLIMATE CYCLES Powell, Pace, Mann, Klinck | REPRODUCTION IN FEMALE STONE CRABS (GENUS <i>MENIPPE</i>) FROM TAMPA BAY, FLORIDA, USA: INTERANNUAL, SEASONAL, AND TEMPERATURE-RELATED VARIATION Bert, Gerhart, Crawford | MANGROVEENCODE (2017-2027): DEVELOPING TECHNOLOGIES FOR THE ASSESSMENT OF CO ₂ , MICROBIOME, ENDOCRINE DISRUPTING CHEMICALS (GLYPHOSATE, METALS) AND MICROBIAL TRANSGENE <i>BACILLUS THURINGIENSIS</i> IN MANGROVES SEDIMENT AND AGRICULTURAL SOIL OF SELECTED COUNTRIES Zuniga*, Espinoza, Ruiz-Luna, Berlanga-Robles, Gómez-Gil, Chouinard, Morell, Ochoa, Alcivar-Arteaga, Asunción, Galindo, Saltos, Zambrano, Alcivar Pinales, Alcivar-Warren, Echevarria, Ikeogu |
| 10:15-10:45AM | MORNING BREAK | | | | |
| SESSION TITLE | GEODUCKS Joth Davis & Paul Gribben | OsHV-1 Tim Green & Colleen Burge | SHELLFISH AND CLIMATE CHANGE Hillary Lane Glandon & Sarah Kingston | APPLICATIONS OF CRUSTACEAN BIOLOGY TO FISHERIES MANAGEMENT Theresa Bert & Harriet Perry | ONE HEALTH EPIGENOMICS AND MICROBIOMES: FROM SOIL TO PEOPLE WORKSHOP Acacia Alcivar-Warren |
| 10:45AM | GEODUCK STOCK ASSESSMENT IN BRITISH COLUMBIA Bureau | MAPPING GENES CONFERRING RESISTANCE TO OSHV-1 IN THE PACIFIC OYSTER Kitapci*, Burge, Closek, Friedman, Hedgecock | LARGE-SCALE PATTERNS OF TREMATODE PARASITES COMMUNITIES INFECTING <i>CERASTODERMA EDULE</i> FROM PORTUGAL TO MOROCCO Correia*, Magalhães, de Montaudouin, Bazairi, Gam, Freita | YOUNG-OF-THE-YEAR STONE CRAB (<i>MENIPPE</i>) RECRUITMENT IN THE GULF OF MEXICO OFF FLORIDA: KEY SHALLOW-WATER RECRUITMENT HOTSPOTS Bert, Crawford, Shea | THE EXCEPTIONALLY HIGH CARBON STOCKS OF MANGROVES AND THEIR POTENTIAL FOR THE GLOBAL MARKET OF CARBON – A REVIEW OF CO ₂ LEVELS IN THREE GEOGRAPHIC REGIONS OF ECUADOR Hernandez, Galindo*, Espinoza |
| 11:00 AM | EXAMINING WINTERTIME PARALYTIC SHELLFISH TOXICITY IN GEODUCKS IN SOUTHEAST ALASKA Hart*, Eckert, Tobin, Sullivan, Whitehead, Lanphier, Kennedy, Wallace | UNSUSPECTED OSHV-1 GENOMIC DIVERSITY AT INTER- AND INTRA-HOST LEVEL Lamy, Renault, Bietry, Faury, Webb, Pepin, Morga^P | VISUAL KEYS SUPPORT OYSTER HEALTH MONITORING AS PART OF OYSTER REEF RESTORATION EFFORTS Kane, Brooks, Sanchez, Thomas, Havens, Estes, Parker | TEMPERATURE EFFECTS ON THE BIOENERGETICS OF DUNGENESS AND GRACEFUL CRABS, WITH IMPLICATIONS FOR MANAGEMENT McDonald, Holsman, Workman, Armstrong | SHRIMPENCODE (2017-2027): TRANSPOSABLE ELEMENTS OF THE ORIGINAL SPECIFIC PATHOGEN-FREE SHRIMP (SPF), <i>PENAEUS (LITOPENAEUS) VANNAMEI</i> , DOMESTICATED IN THE UNITED STATES – REVIEW OF HORIZONTAL TRANSFER OF TRANSPOSONS (HTT) ASSOCIATED WITH SHRIMP DISEASES Alcivar-Warren, ShrimpENCODE Project Collaborators |
| 11:15 AM | PROTEOMICS REVEALS GEODUCK PHYSIOLOGICAL RESPONSE TO ENVIRONMENTAL CHANGE Spencer*, Horwith, Lowe, Timmins-Schiffman, Nunn, Roberts | AN ‘OMICS’ APPROACH TO UNDERSTAND OYSTER-OSHV-1 INTERACTIONS Rosani, Abbadi, Domeneghetti, Venier | USE OF A QPCR ASSAY TO DETECT THE TREMATODE, <i>PROCTOECES MACULATUS</i> , IN WATER COLUMN SAMPLES Agnew, Scro, Smolowitz | UNDERSTANDING BLUE CRAB, <i>CALLINECTES SAPIDUS</i> , PATTERNS OF MOVEMENT ALONG A SALINITY GRADIENT WITHIN THE ASHLEY RIVER, CHARLESTON, SOUTH CAROLINA, USA Brunson, Kendrick, Czwartacki, Kingsley-Smith | THE <i>NONLTR-1_LVA</i> NON-LTR RETROTRANSPON OF SPECIFIC PATHOGEN-FREE (SPF) SHRIMP, <i>LITOPENAEUS VANNAMEI</i> , FROM THE UNITED STATES IS HOMOLOGOUS TO THE NLRS NON-LTR RETROTRANSPON ASSOCIATED WITH ABDOMINAL SEGMENT DEFORMITY DISEASE (ASDD) OF CULTIVATED SHRIMP FROM THAILAND Alcivar-Warren, Bao, Espinoza* |
| 11:30 AM | CULTIVATION OF THE NEW ZEALAND GEODUCK, <i>PANOPEA ZELANDICA</i> Le, Alfaro, Young, King, Ragg, Hilton | MULTI-GENERATIONAL PLASTICITY AND ANTIVIRAL IMMUNITY IN THE OYSTER AGAINST OSHV-1 Lafont, Goncalves, Guo, Montagnani, Raftos, Green^P | LOCATION, LOCATION, LOCATION: POPULATION DIFFERENCES IN RESPONSE TO OCEAN ACIDIFICATION IN BLUE MUSSELS Padilla, Volkenborn, Gurr, Milke, Meseck, Rugila, Redman, Dixon, Veilleux, Liguori, Rosa | INTERACTING EFFECTS OF HUMANS AND NATURE: FLOODWATERS, FISHERMEN, AND POPULATION DECLINE OF THE BLUE CRAB Eggleston | OLIGOMERIZATION PATTERNS OF PIRA AND PIRB CAUSING ACUTE HEPATOPANCREATIC NECROSIS DISEASE (AHPNDD) AND ITS INTERACTION WITH THE MEMBRANE COMPONENTS OF THE EPITHELIAL CELLS OF THE SHRIMP HEPATOPANCREAS Victorio-De Los Santos*, Hernández-Santoyo, Soto-Rodriguez |
| 11:45 AM | | THE EFFECTS OF CRUDE AND REFINED ALGAL-DERIVED ANTIVIRAL BIOTHERAPEUTICS ON OSTREID HERPESVIRUS DEVELOPMENT AND PACIFIC OYSTER (<i>CRASSOSTREA GIGAS</i>) PERFORMANCE Bookelaar*, Culloty, Lynch | | REPRODUCTIVE BIOLOGY INFORMS FISHERY MANAGEMENT OF SNOW (<i>CHIONOECETES OPILIO</i>) AND TANNER CRABS (<i>C. BAIRDI</i>) IN THE EASTERN BERING SEA, ALASKA Kruse, Rebert, Richar, Slater, Webb | |
| 12:00-1:00 PM | LUNCH BREAK | | | | |

* denotes student presenter

^P denotes non first-author presenter

| THURSDAY March 22, 2018 | | | | | |
|----------------------------|--|--|--|---|---|
| ROOM | Federal | Superior | Municipal | James | North |
| SESSION TITLE | DOWN ON THE FARM LeRoy Creswell & Bobbi Hudson | OsHV-1 Tim Green & Colleen Burge | SHELLFISH AND CLIMATE CHANGE Hillary Lane Glandon & Sarah Kingston | APPLICATIONS OF CRUSTACEAN BIOLOGY TO FISHERIES MANAGEMENT Theresa Bert & Harriet Perry | ONE HEALTH EPIGENOMICS AND MICROBIOMES: FROM SOIL TO PEOPLE WORKSHOP Acacia Alcivar-Warren |
| 1:00 PM | A TOOL FOR SEED STOCK MANAGEMENT IN COMMERCIAL OYSTER NURSERIES Nobre, Soares, Ferreira, Hubert, Valente | A LIFE IN FLUX: EFFECTS OF FLUCTUATING TEMPERATURES, AIR EXPOSURE, SALINITY, SUSPENDED PARTICULATE MATTER (SPM), AND TURBIDITY ON OSTREID HERPES VIRUS-1 MICROVAR EXPOSED <i>CRASSOSTREA GIGAS</i> (VIVALDI PROJECT) Lynch, Molloy, Mcdonald, Cox, Culloty | EFFECT OF OCEAN ACIDIFICATION ON PACIFIC OYSTER (<i>CRASSOSTREA GIGAS</i>) REPRODUCTION Venkataraman* & Roberts | COMPARING INDEPENDENT APPROACHES TO ESTIMATE AGE OF THE JONAH CRAB (<i>CANCER BOREALIS</i>): CORROBORATING GASTRIC MILL BAND COUNTS AS A DIRECT AGING METHOD Huntsberger*, Wahle, Chen, Kilada | LACCASE-SILICA NANOPARTICLE CONJUGATES CAN EFFICIENTLY REDUCE THE EARLY MATURATION RISK DUE TO BISPHENOL A (BPA) IN FEMALE <i>ORECHROMIS MOSSAMBICUS</i> AND ITS TOXIC LOAD FROM THE CONTAMINATED EFFLUENT Manna* & Amutha |
| 1:15 PM | COMMERCIAL SCALE COMPARISON OF SELECTED WATER COLUMN OYSTER CULTURE GEAR TYPES AND NATIVE OYSTER STRAINS DEVELOPED FOR THE NORTH CAROLINA INDUSTRY Weirich, Wilbur, Cerino | SPATIO-TEMPORAL DYNAMICS OF PACIFIC OYSTERS MORTALITY PATTERNS ALONG THE FRENCH COAST: DISENTANGLING ORIGIN, AGING, AND ENVIRONMENTAL FACTORS Fleury, Barbier, Normand, Pouvreau, Petton, Daigle, Pernet | ESTIMATING SEASONAL GROWTH IN SEA SCALLOPS USING ISOTOPIC DATA IN A CHANGING ENVIRONMENT Stokesbury & Inglis | FINALLY, A TECHNIQUE TO AGE DECAPODS: PROGRESS WITH THE CARIBBEAN SPINY LOBSTER, <i>PANULIRUS ARGUS</i> , AND MANAGEMENT IMPLICATIONS Gnanalingam, Butler^P, Matthews, Hutchinson, Kilada | <i>SHRIMP SCAMPI</i> : A CITIZEN'S SCIENCE PROJECT TO EXAMINE LEVELS OF GLYPHOSATE AND OTHER ENDOCRINE DISRUPTING CHEMICAL (METALS BISPHENOL A) IN FROZEN SHRIMP SOLD IN SUPERMARKETS IN THE UNITED STATES Hutchins, Berardi, Tanikella, Reyes, Warren, Yang, Zambrano*^P |
| 1:30 PM | DEVELOPING A RESEARCH PROGRAM TO ADDRESS SHELLFISH GROWERS' NEEDS: NINIGRET POND – A CASE STUDY Leavitt, Rheault, Kinney | UNDERSTANDING THE PHYSIOLOGICAL MECHANISMS UNDERLYING THE ENHANCED SURVIVAL OF <i>CRASSOSTREA GIGAS</i> INFECTED BY THE OSTREID HERPESVIRUS 1 AT HIGH TEMPERATURE Delisle*, Petton, Burguin, Quéré, Fleury, Pauletto, Morga, Artigaud, Pichereau, Corporeau, Pernet | WARMING AND <i>pCO₂</i> EFFECTS ON FLORIDA STONE CRAB LARVAE Gravinese, Enochs, Manzello, van Woesik | POPULATION CYCLES IN CRAB FISHERIES Botsford | TBA |
| 1:45 PM | AQUACULTURE IN SHARED WATERS – AN AQUACULTURE TRAINING PROGRAM DESIGNED TO EXPLORE THE INTEGRATION OF FISHING AND FARMING IN MAINE Morse, Bartlett, Battista, Belle, Cleaver, Cowperthwaite, Davis, Johnson, Springuel | HOPING FOR THE BEST, PREPARING FOR THE WORST: DETERMINING RESISTANCE OF OYSTER SPECIES TO EXPOSURE TO OSHV-1 AND OSHV-1 _μ VARS IN THE UNITED STATES Burge, Reece, Rivlin, Wippel, Dar, Morga, Dégremont, Faury, Kirkland, Cortez, Sawyer, Moore, Friedman | AN INTERTIDAL HOST-PARASITE SYSTEM: PREDICTING SOME OF THE EFFECTS OF CLIMATE CHANGE Magalhães*, de Montaudouin, Figueira, Freitas | ALIGNING BIOLOGY, ASSESSMENT, AND MANAGEMENT OF BLUE CRAB IN CHESAPEAKE BAY Miller, Wilberg, Liang, Nesslage | CHILDRENCODE (2017-2027): REVIEW OF EPIGENETIC MECHANISMS ASSOCIATED WITH ENDOCRINE DISRUPTING CHEMICALS (GLYPHOSATE, METALS, BISPHENOL A) AND MICROBIAL TRANSGENE <i>BACILLUS THURINGIENSIS</i> IN SHELLFISH AND PEOPLE FROM ESTUARIES: A CASE STUDY OF METALS ASSOCIATED WITH MICROCEPHALY AND OTHER CONGENITAL MALFORMATIONS IN CHILDREN FROM SANTA ELENA PENINSULA OF ECUADOR Alejandro-Tigrero, Alejandro-Rosales, Molina-Vasquez*^P, Espinoza, Matute, Hutchins, Berardi, Tanikella, Reyes, Zambrano, Argandoña, Alcivar-Arteaga, Ikeogu, Asogwa, Obodoefuna, Amutha, Alarcon, Zambrano-Basurto, Alcivar-Warren |
| 2:00 PM | OBSERVATIONS OF GAMETOGENESIS IN <i>CRASSOSTREA VIRGINICA</i> ASSOCIATED WITH TRIPLOID-SPECIFIC SPRING MORTALITIES ON COMMERCIAL FARMS IN THE CHESAPEAKE BAY Matt*, Guévelou, Allen, Jr. | HAEMOCYTES FROM <i>CRASSOSTREA GIGAS</i> AND OSHV-1: A PROMISING <i>IN VITRO</i> SYSTEM TO STUDY HOST/VIRUS INTERACTIONS Morga, Faury, Guesdon, Chollet, Renault | THE PACIFIC OYSTER, <i>CRASSOSTREA GIGAS</i> , DEMONSTRATES SENSITIVITY TO TEMPERATURE AND RESILIENCE TO pH CHANGE DURING SUMMER GROWTH Hesketh*, Simpson, Ianson, Kohfeld, Harley | AN ECOLOGICAL FOUNDATION FOR THE RATIONAL MANAGEMENT OF THE FISHERY FOR CARIBBEAN SPINY LOBSTER (<i>PANULIRUS ARGUS</i>) Butler, Gnanalingam, Kough, Paris | BASIC RESEARCH NEEDED TO PRODUCE HEALTHY SHRIMP: A PUBLICLY AVAILABLE, FULLY-ASSEMBLED, REFERENCE GENOME FROM THE FIRST SPECIFIC PATHOGEN-FREE (SPF) DOMESTICATED STOCKS OF <i>PENAEUS (LITOPENAEUS) VANNAMEI</i> IN THE UNITED STATES IS A PRIORITY Alcivar-Warren, ShrimpENCODE Project Collaborators |
| 2:15 PM | GLYCOGEN CONTENT IN DIPLOID AND TRIPLOID <i>CRASSOSTREA VIRGINICA</i> DURING GAMETOGENESIS IN LOWER CHESAPEAKE BAY, USA Guévelou, Matt, Allen, Jr. | CHARACTERIZATION OF THE PACIFIC OYSTER MICROBIOME DURING A SUMMER MORTALITY EVENT King*, Jenkins, Go, Siboni, Seymour, Labbate | COMPARING NATIVE AND NON-NATIVE ESTUARINE SPECIES: DO MORE TOLERANT SPECIES HARBOR MORE GENES TO COMBAT CLIMATE CHANGE STRESS? McIntyre*, Der, Zacherl, Walter | ENCOURAGING DIAMONDBACK TERRAPIN CONSERVATION THROUGH COOPERATION WITH THE MISSISSIPPI BLUE CRAB FISHERY Burris & Floyd | |
| 2:30 PM | SUMMER MORTALITY IN FARMED TRIPLOID AND DIPLOID OYSTERS, <i>CRASSOSTREA VIRGINICA</i> , IN THE NORTHERN GULF OF MEXICO Wadsworth* & Walton | SIMULATED MARINE HEAT WAVE ALTERS ABUNDANCE AND STRUCTURE OF <i>VIBRIO</i> POPULATIONS ASSOCIATED WITH THE PACIFIC OYSTER RESULTING IN A MASS MORTALITY EVENT Green, Siboni, King, Seymour, Raftos | LINKING GENOTYPE TO PHENOTYPE IN A CHANGING OCEAN: INFERRING THE GENOMIC ARCHITECTURE OF A BLUE MUSSEL STRESS RESPONSE Kingston, Martino, Melendy, Reed, Carlon | | |
| 2:45PM | OYSTER INFESTATION: ABUNDANCE OF MUDBLISTER WORMS (<i>POLYDORA WEBSTERI</i>) IN ALABAMA COASTAL OYSTER FARMS Cole*, Dorgan, Walton | | | | |
| 3:00 PM | THE COSTS OF REGULATORY COMPLIANCE ON WEST COAST SHELLFISH FARMS: EFFECTS AND IMPACTS ON PRODUCERS van Senten & Engle | | | | |
| 3:15 PM | | | | | |
| 3:30 – 6:00 PM | CLOSING HAPPY HOUR Madison Ballroom | | | | |

* denotes student presenter

^P denotes non first-author presenter