

6th International
SYMP^{OSTER}OSIUM
Cape Cod Massachusetts USA

PROGRAM OF PRESENTERS

SESSION A – NOURISHING THE BODY

#1

Dr. Mitsugu Watanabe – INVESTIGATION OF THE BLOOD-BRAIN BARRIER PERMEABILITY OF A NOVEL ANTIOXIDANT (E6) EXTRACTED FROM SOFT BODY OF CRASSOSTREA GIGAS

Co-Authors: Kazuyo Fukushima, Emiko Miki, Kosuke Aritake, Yoshihiro Urade

#2

Dr. Kazuyo Fukushima – A NOVEL ANTIOXIDANT E6 EXTRACTED FROM SOFT BODY OF CRASSOSTREA GIGAS: ITS LIPID ANTIOXIDANT EFFECTS IN THE BRAIN

Co-Authors: Mitsugu Watanabe, Miho Uema, Kosuke Aritake and Yoshihiro Urade

#3

Dr. Emiko Miki - HEPATOPROTECTIVE EFFECTS OF A NOVEL ANTIOXIDANT E6 DERIVED FROM PACIFIC OYSTER (CRASSOSTREA GIGAS)

Co-Authors: Hirotooshi Fuda, Shu-Ping Hui, Sae joko, Hiroaki Okabe, Shigeki jin, Seiji Takeda, Takayuki Watanabe, Hitoshi Chiba, Mitsugu Watanabe

#4

Dr. Yoshinaru Honda – EFFECTS OF SOFT BODY EXTRACTS OF CRASSOSTREA GIGAS ON ANTIOXIDANT ENZYMES AND ON HEPATIC ANTIOXIDANT ACTIONS

Co-Authors: Mitsugu Watanabe

#5

Dr Kazunari Tanaka – EFFECTS OF FEEDING OYSTER PEPTIDES ON LIPID METABOLISM IN SD RATS

#6

(UNABLE TO ATTEND) **Stephen Archer** – TASTE COMPONENTS OF OYSTERS AND HOW THEY MIGHT BE INFLUENCED – A REVIEW

SESSION B – IMPROVING THE HEALTH OF COASTAL WATERS

#7

Dr. Hauke Kite-Powell – THE ECONOMICS OF ECOSYSTEM SERVICES FROM OYSTER FARMING

#8

Dr. Austin Humphries - THE ROLE OF OYSTER RESTORATION AND AQUACULTURE IN NUTRIENT CYCLING WITHIN A RHODE ISLAND ESTUARY

Co-Authors: Suzanne Ayvazian, Robinson Fulweiler

#9

Mr. Jefferson Flood - DELAWARE OYSTER INDUSTRY

Co-Authors: Dr. Sunny L. Jardine, Dr. George R. Parsons

#10

Dr. Jonathan Grabowski - RESTORING OYSTER REEFS TO RECOVER ECOSYSTEM SERVICES

#11

Dr. M. Lisa Kellogg, presented by Mark W. Luckenbach - NITROGEN REMOVAL ASSOCIATED WITH OYSTER REEFS

Co-Authors: Mark W. Luckenbach, Jeffrey C. Cornwell, Michael Owens

#12

Dr. Anamarija Frankic - IMPROVING THE WATER QUALITY AND BIODIVERSITY BY RESTORING OYSTER REEF HABITATS IN WELLFLEET HARBOR, MA, USA

#13

Mr. George Chuckie Green and **Dr. Richard H. York, Jr.** - OYSTER AQUACULTURE FOR FISHERY AND WATER QUALITY RESTORATION IN THE TOWN OF MASHPEE, MA, USA

#14

Mr. Ronald Zweig - OYSTERS, WATER QUALITY IMPROVEMENT AND BIODIVERSITY ENHANCEMENT: EXPERIENCE FROM CAPE COD, MASSACHUSETTS, USA

Session B cont'd

#15

Dr. Brian Howes – MONITORING WATER QUALITY ASSOCIATED WITH OYSTER ACQUACULTURE IN LITTLE POND, FALMOUTH, MA AND ITS' EFFECTIVNESS IN REDUCING AMBIENT NUTRIENT CONCENTRATIONS

#16

Mr. Richard Karney - STRATEGIES TO RESTORE OYSTER POPULATIONS IN TWO SALT PONDS ON MARTHA'S VINEYARD

#17

Ms. Diane Murphy - OYSTER *Crassostrea virginica* SURVEILLANCE IN SOUTHEASTERN MASSACHUSETTS, USA

#18

Mr. Joshua Reitsma - CAPE COD OYSTERS IN TERMS OF NITROGEN AND NUTRITION
Co-Authors: Abigail Archer and Diane Murphy

#19 NONE

#20

Dr. Scott Gallager - AMERICAN OYSTER RESTORATION PLAN IN POPPONESSET BAY, MASSACHUSETTS: TOWARDS A SUSTAINABLE COMMERCIAL FISHERY THROUGH NOVEL APPROACHES TO MAXIMIZING YIELD AND ECOSYSTEM RECOVERY

SESSION C – SOME INTERNATIONAL BIRD’S-EYE VIEWS

#21

Dr. Mark W. Luckenbach - OYSTERS IN CHESAPEAKE BAY: A THIRTY-YEAR RETROSPECTIVE ON THE PATH TO RECOVERY

#22

Dr. Susanne Lindegarth - ADVANCES AND CHALLENGES FOR OYSTER CULTIVATION IN SWEDEN

Co-Authors: Linnea Thorngren Matsson, Thomas Holthuis Dunér, Agnes Faxén, Mats Lindegarth, Alyssa Joyce and Åsa Strand

#23

Dr. John Supan - DEVELOPMENT OF ALTERNATIVE OYSTER FARMING ZONES IN LOUISIANA

#24

Dr. Nancy Nevejan – FUTURE FOR OYSTER HATCHERIES IN CENTRAL - VIETNAM: EXPERIENCE FROM THE BELGIAN - VIETNAMESE VLIR-PROJECT

#25

Jill Coates – A CASE STUDY: SAOGA/SAORC --- Had to Cancel

#26

Dr. Jonathan King – OVERCOMING STAGNATION IN EU AQUACULTURE PRODUCTION; THE CHALLENGE OF GETTING TENURE FOR OYSTER FARMERS IN THE U.K.

#27

Dr. Hauke Kite-Powell – SHELLFISH FARMING FOR FOOD SECURITY AND ECONOMIC DEVELOPMENT

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Dr. Katsuyoshi Mori – PERSPECTIVES ON OYSTER AQUACULTURE IN JAPAN

SESSION D – GENETICS TOWARD LONGEVITY AND PRODUCTIVITY

#29

Dr. Keisuke Takahashi - PROFILING DIFFERENTIAL GENE EXPRESSION BETWEEN GRANULOCYTES AND HYALINOCYTES OF THE PACIFIC OYSTER *Crassostrea gigas*

Co-Author: Katsuyoshi Mori

#30

Dr. Standish Allen Jr - GROWTH OF *Crassostrea virginica* AQUACULTURE IN CHESAPEAKE BAY

Co-Authors: Standish K Allen Jr., Donald Meritt

#31

Dr. Torrance Hanley – EFFECTS OF INTRASPECIFIC DIVERSITY ON GROWTH, SURVIVORSHIP, AND RECRUITMENT OF THE EASTERN OYSTER ACROSS ENVIRONMENTS

#32

Dr. A. Randall Hughes - EVIDENCE FOR AND AGAINST LOCAL ADAPTATION IN JUVENILE OYSTER (*CRASSOSTREA VIRGINICA*) TRANSPLANTS ACROSS MULTIPLE SITES IN THE SOUTHEASTERN U.S.

Co-Authors: Torrance C. Hanley, James E. Byers, Jonathan H. Grabowski, David L. Kimbro, Jennafer C. Malek, Michael F. Piehler

#33

Dr. Ziniu Yu - INTERSPECIFIC BACKCROSSES BETWEEN THE HYBRIDS OF *Crassostrea honglongensis* and *C. gigas* AND THE TWO PARENT SPECIES

Co-Authors: Yuehuan Zhang

#34

Dr. Dina Proestou.- ASSESSING THE CONTRIBUTION OF AQUACULTURE AND RESTORATION TO WILD OYSTER POPULATIONS IN A RHODE ISLAND COASTAL POND

Co-Authors: Hannah K. Jaris, Marta Gomez-Chiarri, David Steven Brown

#35

Dr. Hong Yu – MENDELIAN INHERITANCE OF GOLDEN SHELL COLOR IN THE PACIFIC OYSTER *CRASSOSTREA GIGAS*

Co-Authors: Qi Li, Hong Yu, Jianlong Ge, Lingfeng Kong

SESSION E - CLIMATE CHANGE

#36

Dr. Gary Wikfors - DIVERSE EVIDENCE FOR A PRIMARY ROLE OF HEMOCYTES IN OYSTER SHELL CONSTRUCTION

Co-Authors: Andrew W. Mount

#37

Dr. David Kimbro - DROUGHT INCREASES CONSUMER PRESSURE ON OYSTER REEFS CRASSOSTREA VIRGINICA IN FL, USA

Co-Authors: Hanna G. Garland

#38

Dr. John Wright - OCEAN ACIDIFICATION REDUCES THE ABILITY OF FAMILY LINES OF THE PACIFIC OYSTER *Crassostrea gigas* TO RESPOND TO PREDATORY WHELKS

#39

Dr. Clyde McKenzie

A COMPARISON OF THE EFFECTS OF HURRICANE AGNES IN 1972 IN THREE MAJOR OYSTERING LOCATIONS

#40

Dr. Kide Gebru - ADAPTATION METHODS TO CLIMATE CHANGE IN ETHIOPIA USING ADWA WOREDA AS A CASE STUDY

SESSION E - DISEASE AND SAFETY

#41

Dr. Gulnihal Ozbay - INVESTIGATING TOTAL BACTERIA, TOTAL VIBRIONACEAE, AND vibrio paraheamolyticus IN EASTERN OYSTERS *C. virginica* FROM DELAWARE ISLAND BAYS, USA

Co-Authors: Johnna Fay, Kenneth Hannum, Karuna Chintapenta

#42

Dr. Toshio Sato – NOVOVIRUS DETECTION IN OYSTERS AND HUMAN FECES

Co-Author: Hiromi Mori

#43

Dr. Ana Carolina Luz Braz da Cunha – FIRST REPORT OF *Perkinsus* INFECTING *Crassostrea gigas*

Co-Authors: Vitor de Almeida Pontinha; Angela Mara Moura da Luz; Aime Rachel Magenta Magalhaes; Jose Luiz Pedreira Mourino

#44

Dr. Christopher Schillaci - MASSACHUSETTS OYSTER AQUACULTURE MANAGEMENT AND STATISTICS

#45

Dr. Scott Lindell - DISEASE-RESISTANCE AND IMPROVED PERFORMANCE FOR GENETICALLY IMPROVED AND CROSS-BRED EASTERN OYSTERS *CRASSOSTREA VIRGINICA*. RESULTS FROM A DECADE OFF FIELD TRIALS IN NEW ENGLAND

Co-Authors: Dr. Paul Rawson

#45.5 Dr. Amy Costa - EVALUATING THE POTENTIAL OF ATLANTIC OYSTERS *Crassostrea virginicas* TO BIOACCUMULATE CONTAMINANTS OF EMERGING CONCERN IN COASTAL EMBAYMENTS

SESSION F - PROPAGATION AND GROW-OUT

#46

Dr. William Walton - QUANTIFYING EFFECTS OF CULTURE METHODS ON QUALITY AND CONSISTENCY OF EASTERN OYSTER, *Crassostrea virginica*, ALABAMA, USA

#47

Dr. Gulnihal Ozbay - EASTERN OYSTER LARVAE *Crassostrea virginica* REMOTE SET PRACTICE IN DELAWARE

Co-Authors: Brian Reckenbeil, Frank Marengi, Laurieann Phalen, John Ewart

#48 *Cancelled*

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Dr. Karen Pianka - PREVENTATIVE TREATMENTS FOR BLISTER WORM (A PEST SPECIES) IN THE EASTERN OYSTER

Co-Authors: Dr. Paul Rawson

#50

Dr. M. Shahadat Hossain - SUBSTRATE PREFERENCE AND GROWTH OF OYSTER SPAT IN THE KUTUBDIA ISLAND, BANGLADESH

#51

Dr. Chai-Cheng Huang - IN-SITU STUDY OF THE FLOATING RAFT SYSTEM FOR OYSTER AQUACULTURE

Co-Authors: Chun-Ho Chan; Ming-Feng Lee

#52

Dr. Rolando Pakingking Jr. - SANITARY QUALITY OF OYSTERS (*Crassostrea iredalei*) PRODUCED IN SELECTED AREAS IN PANAY, WESTERN VISAYAS, PHILIPPINES

Co-Authors: Lilibeth Hualde, Ernestina Peralta

SESSION G - RESTORATION CASE STUDIES & ISSUES

#52

Ms. Sandra Macfarlane – INCORPORATING BMPS IN SHELLFISH AQUACULTURE AND RESTORATION PROGRAMS: DEMONSTRATING SOCIAL AND ENVIRONMENTAL RESPONSIBILITY

#53

Dr. Bryan DeAngelis - HOW MUCH IS ENOUGH: QUANTIFYING ECOSYSTEM SERVICES TO SET OBJECTIVES FOR OYSTER RESTORATION ON A SYSTEM-WIDE SCALE

#54

Dr. Michael Hodges - SOUTH CAROLINA OYSTER RESTORATION AND ENHANCEMENT PROGRAM: CREATING COASTAL STEWARDS THROUGH DIRTY WORK

Co-Authors: Nancy Hadley, Jared Hulteen

#55

Dr. Ray Grizzle - EASTERN OYSTER *Crassostrea virginica* REEF RESTORATION IN NEW HAMPSHIRE, USA: MOVING TOWARDS DESIGN CRITERIA FOR RECRUITMENT-LIMITED POPULATIONS

#56

Dr. Matthew Hare - WHAT DOES LOCAL ADAPTATION LOOK LIKE FOR AN EVOLUTIONARY BET HEDGER, THE EASTERN OYSTER *Crassostrea virginica*?

Co-Authors: Yuka Kutsumi, Department of Natural Resources, Cornell University, Ithaca, NY 14850

#57

Dr. Ashlee Lillis - CLAMOUR ON THE REEF: CHARACTERIZING HABITAT - ASSOCIATED UNDERWATER SOUNDSCAPES FROM AN ECOLOGICAL PERSPECTIVE

Co-Authors: David Eggleston, Del Bohnenstiehl

#57.5

Dr. Mark Borelli - THE POTENTIAL USE OF A PHASE MEASURING SIDESCAN SONAR TO QUANTIFY OYSTER POPULATIONS

SESSION H- COMMUNITY ENGAGEMENT AND EDUCATION

#58

Mrs. Betsy Peabody - THE ROLE OF STAKEHOLDERS IN PUGET SOUND NATIVE OYSTER RESTORATION

#59

Ms. Emily Vogler – A FRAMEWORK FOR COASTAL ECOLOGY: SCULPTURAL FORMS AS INFRASTRUCTURE OF COASTAL RESILIENCE AND EDUCATION

Presenting Authors: Scheri Fultineer and Emily Vogler

Co-Authors: Scheri Fultineer; Marta Gomez-Chiarri; Breea Govenar, Dale Leavitt, Emily Vogler

#60

Dr. William Walton – OYSTER SOUTH: OYSTER FARMING IN THE SOUTHERN US

#61

Ms. Meredith Comi & Ms. Debbie Mans - THE INTERSECTION OF SCIENCE AND POLICY- HOW STAKEHOLDER INVOLVEMENT AFFECTS RESTORATION EFFORTS

#62

Mr. Peter Malinowski - BILLION OYSTER PROJECT – EDUCATION THROUGH ECOSYSTEM RESTORATION

#63

Mrs. Andrea Bearbower - BIVALVES TAKING UP RENT IN MANHATTAN

#64

Dr. Dana Morse – THE MAINE OYSTER TRAIL

Co-Authors: Belle, S., Morse, D.L.*, Schmitt, C., and Springuel, N.

#64.5

Dr. Richard Carey – LESSONS OF EXPERIENCE IN A CHANGING WORLD