

**COLLEGE OF CHARLESTON GRADUATE STUDENT COLLOQUIUM, SEPTEMBER 24<sup>th</sup>**

- 9:30 **Introduction.** Dr. Peter Kingsley-Smith, SCDNR Marine Resources Research Institute.
- 9:45 **TOXIC DINOFLAGELLATES AND THEIR ASSOCIATED MICROBIAL COMMUNITY: PRELIMINARY EVIDENCE THAT ALGICIDAL BACTERIA INTERFERE WITH THE AL-2 QUORUM SENSING SYSTEM.** Blair, W. & Doucette, G.
- 10:00 **MYXOZOAN PARASITES OF THE SPOTTED SEATROUT: DO THEY WEAKEN THE HEALTH OF THEIR HOSTS?** Cosmann, P., Arnott, S., de Buron, I., Roumillat, W.A. & Strand, A.
- 10:15 **POPULATION STRUCTURE OF SPOT (*LEIOSTOMUS XANTHURUS*) IN SOUTH CAROLINA.** Johnson, J., Arnott, S., Roumillat, W.A., Whitaker, D., Ballenger, J. & McDonough, C.
- 10:30 **COMPARATIVE EFFECTS OF *IN VITRO* PFOS AND DE-71 EXPOSURE ON BOTTLENOSE DOLPHIN AND MURINE IMMUNE FUNCTION.** Wirth, J.R., Peden-Adams, M.M., Henry, N. & Fair, P.A.

10:45 – 11:00 **BREAK (MRRI LOBBY)**

- 11:00 **QUANTIFICATION OF THE INTERACTION BETWEEN BOTTLENOSE DOLPHINS AND THE ATLANTIC BLUE CRAB FISHERY IN CHARLESTON, SC.** Duquette, A., Kracker, L. & McFee W.
- 11:15 **THE ROLE OF NANOG IN MAINTAINING LUNG HEALTH IN THE BOTTLENOSE DOLPHIN, *TURSIOPS TRUNCATUS*.** Glade, L. & Baatz, J.E.
- 11:30 **ANTAGONISTIC INTERACTIONS AMONG BACTERIAL POPULATIONS OF MARINE INTERTIDAL SEDIMENTS.** Hook, W. & Plante, C.

11:45 – 1:15 **LUNCH (MRRI Lobby)**

- 1:15 **A LATITUDINAL BODY SIZE CLINE IN A MARINE ISOPOD REFLECTS LOCAL ADAPTATION TO SEAWATER TEMPERATURE AND PREDATOR RISK.** Manyak, A., Bell, T. & Sotka, E.
- 1:30 **IMPACT OF TEMPERATURE-INDUCED VIRAL RESISTANCE ON DIMETHYLATED SULFUR COMPOUNDS IN THE COCCOLITHOPHORID, *EMILIANIA HUXLEYI*.** Kendrick, J. & DiTullio, J.
- 1:45 **RECOVERY FROM HYPOXIA AND HYPERCAPNIC HYPOXIA: IMPACTS ON THE TRANSCRIPTION OF KEY ANTIOXIDANT GENES IN THE SHRIMP *LITOPENAEUS VANNAMEI*.** Darling, C., Burnett, K. & Burnett, L.
- 2:00 **THE INFLUENCE OF ENVIRONMENTAL pH / HYPERCAPNIA ON THE SHELL STRENGTH OF THE EASTERN OYSTER, *CRASSOSTREA VIRGINICA*.** Sherer, E. & Burnett, L.

2:15 – 2:30 **BREAK (MRRI Lobby)**

- 2:30 **EFFECT OF SEDIMENT ON THE ANTIMICROBIAL ACTIVITY OF *MELANOCHLAMYS DIOMEDEA* AMONG DIFFERENT HABITATS.** Smoot, S., Plante, C. & Podolsky, R.D.
- 2:45 **PERFORMANCE CHANGES WHEN EXPOSED TO VARYING OXYGEN LEVELS IN THE ATLANTIC BLUE CRAB, *CALLINECTES SAPIDUS* RATHBUN.** Stover, K., Burnett, L., McElroy, E. & Burnett, K.
- 3:00 **DETERMINING FACTORS THAT INFLUENCE THE MOLECULAR QUANTIFICATION OF THE HARMFUL RAPHIIDOPHYTE, *HETEROSIGMA AKASHIWO*, USING A SANDWICH HYBRIDIZATION ASSAY (SHA).** Doll, C. & Greenfield, D.

3:15 – 4:00 **BREAK (MRRI Lobby)**

- 4:00 **Closing address:** The impacts of climate change on ocean ecosystems. Dr. John Bruno.
- 5:00 **Closing remarks and award presentation.** Dr. Craig Plante, MRRI Auditorium.
- 5:30 **Lowcountry Boil and Introduction of new students,.** SCDNR Outdoor Classroom.

## POSTER PRESENTATIONS

- #1 **COMMUNITY STRUCTURE OF TEMPERATE REEF FISH AS A FUNCTION OF REEF AGE: CASE STUDY USING LOW-RELIEF ARTIFICIAL AND NATURAL REEFS.** Altizer, C., Reichert, M., Ballenger, J., Sancho, G. & Martore, R.
- #2 **SPATIAL AND TEMPORAL GENETIC DIFFERENCES IN STRIPED BASS, *MORONE SAXATILIS*, IN FOUR SOUTH CAROLINA WATERSHEDS.** Anderson, A.
- #3 **LOW-TEMPERATURE TOLERANCE OF AGE-0 SPOTTED SEATROUT, *CYNOSCION NEBULOSUS*, IN SOUTH CAROLINA.** Anweiler, K. & Denson, M.
- #4 **DIET AND FEEDING SELECTIVITY OF ESTUARINE GOBIES OF SOUTH CAROLINA.** D'Aguillo, M. & Harold, A.
- #5 **FEEDING ECOLOGY AND REPOPULATION RATES OF LIONFISH ON SOUTH CAROLINA ARTIFICIAL REEFS.** Doty, S. & Sancho, G.
- #6 **CHARACTERIZATION OF THE *SYMBIODINIUM MICROADRIATICUM* SPLICED LEADER RNA AND THE EFFECT OF HEAT AND CHEMICAL SHOCK ON THE RNA TRANS-SPLICING MECHANISM.** Feltman, P. & Van Dolah, F.
- #7 **PREDICTING IMPACTS OF GLOBAL CLIMATE CHANGE ON THE NORTHWEST ATLANTIC LOGGERHEAD SEA TURTLE (*CARETTA CARETTA*) POPULATION: LOCOMOTOR RESPONSES OF HATCHLINGS TO DIFFERING INCUBATION TEMPERATURES.** Fisher, L. & Owens, D.
- #8 **EFFECTS OF HYPOXIA AND LOW pH ON MOSQUITO CONTROL PESTICIDE TOXICITY IN TWO COMMERCIAL SHELLFISH SPECIES.** Garcia, R. & DeLorenzo, M.
- #9 **COMPARATIVE IMPACT OF THE INVASIVE PARASITIC SPECIES, *ANGUILLICOLOIDES CRASSUS* ON THE AMERICAN EEL POPULATIONS BETWEEN THE ACE BASIN AND NORTH INLET NERRS AND THE COOPER RIVER.** Hein, J., Arnott, S., de Buron, I., Roumillat, W.A. & Upchurch, S.
- #10 **DISTRIBUTION AND HEALTH ASSESSMENT OF RED DRUM, *SCIAENOPS OCELLATUS*, EXHIBITING EXTERNAL LESIONS WITHIN SOUTH CAROLINA ESTUARIES.** Meadors, W. & Arnott, S.
- #11 **SPATIAL AND TEMPORAL VARIATION OF GENETIC DIVERSITY IN RED PORGY, *PAGRUS PAGRUS*, IN THE SOUTH ATLANTIC BIGHT.** Murray, D.C.
- #12 **ASSESSMENT OF POPULATION GENETIC STRUCTURE IN THE SPOTTED EAGLE RAY (*AETOBATUS NARINARI*) FOUND SEASONALLY OFF COASTAL SARASOTA, FL.** Newby, J. & Shedlock, A.
- #13 **CHARACTERIZING THE GENETIC POPULATION STRUCTURE AND GENETIC INFLUENCES OF WINTER-KILL EVENTS IN SPOTTED SEATROUT (*CYNOSCION NEBULOSUS*) IN SOUTH CAROLINA.** O'Donnell, T.
- #14 **DIETARY NICHE OVERLAP OF AN ESTUARINE PREDATOR COMMUNITY IN SOUTH CAROLINA.** Shaw, A., Sancho, G. & Frazier, B.
- #15 **EFFECTS OF LIGHT IRRADIANCE LEVELS ON THE EXPRESSION AND ABUNDANCE OF ICE-BINDING PROTEINS IN THE SEA ICE DIATOM, *FRAGILARIOPSIS CYLINDRUS*.** Smith, J., Janech, M., DiTullio, J., Lee, P. & Byrum, C.
- #16 **EFFECTIVENESS AND COSTS OF HYPOXIA ACCLIMATION IN PACIFIC WHITE SHRIMP, *LITOPENAEUS VANNAMEI*.** Tommerdahl, A., Burnett, L. & Burnett, K.
- #17 **GROWTH, DISTRIBUTION, AND SKELETAL STRUCTURE OF DEEP-WATER SCLERACTINIAN CORALS UNDER 'ACIDIFIED' OCEAN CONDITIONS IN THE SOUTHERN CALIFORNIA BIGHT.** Wickes, L. & Etnoyer, P.