100th Anniversary
Western Society of Naturalists
Meeting Program

Monterey, CA
November 10–13, 2016
Registration and Information
Welcome! The registration desk will be open Thurs 1700-2000, Fri-Sat 0730-1800, and Sun 1000-1300. Registration packets will be available at the registration desk for attendees who have pre-registered. Those who have not pre-registered but wish to attend the meeting can pay for membership and registration (with a late fee of $25 Student/ $40 Regular) at the registration desk. Unfortunately, tickets for the Saturday night buffet dinner cannot be sold at the meeting because the hotel requires final counts of attendees well in advance. The Attitude Adjustment Hour (AAH) is included in the registration price, so you will only need to show your badge or guest AAH ticket for admittance to the Monterey Bay Aquarium. WSN T-shirts and other merchandise can be purchased or picked up at the WSN Student Committee table.

Breakfast & lunch purchases are available at the hotel (see pg.4). A partial list of restaurants near the Hyatt Regency Monterey Hotel can also be found on the inside back cover (pg.46).

Celebrating 100 years of the Western Society of Naturalists!
This year’s Annual Meeting will feature many special events including a student workshop on science communication, the return of the AAH to the Monterey Bay Aquarium, symposia to explore the role and future of natural history, and a gala event on Saturday night including a buffet dinner, Presidential address, auction, live music and more! In addition, the meeting will offer over 500 contributed talks and posters, and special plenary talks from Mike Foster and Jim Estes.

Thanks to Student Travel Fund Donors
We are grateful to all of you who made donations to the Student Travel Fund when you registered; those funds are greatly appreciated by our many student members. Thank you!
SCHEDULE AT A GLANCE: MAIN EVENTS

THURSDAY, NOVEMBER 10, 2016

1900-2100 STUDENT WORKSHOP (Pre-registration required; Regency Ballroom) "STORY ART FOR SCIENCE COMMUNICATION"
2100 STUDENT MIXER. Casual, no-host get together (Knuckles Sports Bar)

FRIDAY, NOVEMBER 11, 2016

0800-1000 STUDENT SYMPOSIUM (Regency Ballroom) "COMMUNICATING THE VALUE OF NATURAL HISTORY THROUGH EXPLORATION AND DISCOVERY"
1030 RAFF SAGARIN FUND FOR INNOVATIVE ECOLOGY (by Ben Halpern, Danielle Zacherl)
1045 NATURALIST OF THE YEAR AWARD: JACKIE SONES (by Karina Nielsen)
1050 WSN NATURALIST OF THE YEAR (Jackie Sones)
1115 LIFETIME ACHIEVEMENT AWARD: MIKE FOSTER (by Dan Reed)
1130 "THE WESTERN SOCIETY OF NATURALISTS: 100 YEARS OF NATURALISM AND ATTITUDE ADJUSTMENT" (Mike Foster)
1200-1315 LUNCH (available for purchase in the Regency Foyer, see pg.4)
1315-1800 CONTRIBUTED PAPERS (Regency Ballroom ABC, Big Sur, Cypress, Spyglass, Windjammer)
1815 FIRST BUSES DEPART HOTEL FOR AQUARIUM (Running continuously)
1930-2230 ATTITUDE ADJUSTMENT HOUR (AAH) AT MONTEREY BAY AQUARIUM
2315 LAST BUS DEPARTS FROM AQUARIUM TO HOTEL

SATURDAY, NOVEMBER 12, 2016

0800-1000 PRESIDENTIAL SYMPOSIUM (Regency Ballroom) "THE FUTURE OF NATURAL HISTORY: THE ROLE AND RELEVANCE OF NATURAL HISTORY IN THE 21ST CENTURY"
1030-1200 CONTRIBUTED PAPERS (Regency Ballroom ABC, Big Sur, Cypress, Spyglass, Windjammer)
1200-1315 LUNCH (available for purchase in the Regency Foyer, see pg.4)
1315-1745 CONTRIBUTED PAPERS (Regency Ballroom ABC, Big Sur, Cypress, Spyglass, Windjammer)
1800-1900 ANNUAL BUSINESS MEETING (Spyglass Room)
1930-2130 PRESIDENTIAL BUFFET AND ADDRESS: Jay Stachowicz (Regency Ballroom)
2130-2400 UNDERSEA GALA: WSN AUCTION, LIVE MUSIC, and ENTERTAINMENT (Regency Ballroom)
SUNDAY, NOVEMBER 13, 2016

0800-0845 POSTER SET-UP FOR PRESENTERS* (Monterey Ballroom)
   *Please have your poster on display by no later than 08:45
0830-1000 WSN BRUNCH (Monterey Terrace)
0900-1200 WSN POSTER SESSION (Monterey Ballroom)
1200-1300 LUNCH (available for purchase in the Regency Foyer)
1300-1430 CONTRIBUTED PAPERS (Regency Ballroom ABC, Big Sur, Cypress, Spyglass, Windjammer)
1500-1600 PLENARY SPEAKER (Regency Ballroom)
   Jim Estes. “ADVENTURES IN NATURE AND PATHWAYS TO ECOLOGICAL UNDERSTANDING”
1600-1630 BOOK SIGNING: Your chance to purchase a signed copy of Jim’s new book!
   (“Serendipity: An Ecologist’s Quest to Understand Nature,” UC Press, 2016)

100th ANNIVERSARY SPECIAL TOPICS:

Alongside our usual range of topics, the 2016 meeting will also include sessions of contributed talks focused on nine Special Topics. For a summary of these sessions, please see the last page of the program (p.45).

A NOTE ON MEAL OPTIONS:

BREAKFAST: 7:00 to 8:30am (FRI, SAT). A variety of pastries, fruit, oatmeal, yogurt, and breakfast sandwiches will be available for "grab and go" purchase in the Regency Ballroom Foyer at reasonable prices. There are no restaurants other than the ones in the hotel within easy walking distance, so we encourage you to take advantage of this option.

LUNCH: 12:00 to 1:15pm (FRI, SAT, SUN). The hotel will sell salads, cold sandwiches, and a selection of hot items (soup, pizza, and possibly hot dogs or hamburgers) at reasonable prices in the Regency Ballroom Foyer. There are no restaurants other than the ones in the hotel within easy walking distance, so we encourage you to take advantage of this option. There will be tables and chairs set up so that you can enjoy lunch without the rush and hassle of trying to find lunch away from the hotel.
Hotel Floorplan (main hotel area)
Hotel Floorplan (conference center)
THURSDAY, NOVEMBER 10, 2016

STUDENT WORKSHOP and MIXER

1900-2100    STUDENT WORKSHOP    REGENCY BALLROOM

“STORY ART FOR SCIENCE COMMUNICATION”

We are very excited about this year’s student workshop, which will teach science communication skills using storytelling strategies from filmmaking. Story artists who work at Pixar Animation Studios will share techniques that filmmakers use to construct a story and to translate that story into visual form. A working group session will help participants begin to outline their own scientific stories using these techniques. Adapting story art strategies for science communication can be transformative for researchers at all levels, and while this workshop is student-focused, we encourage participation by any and all WSN attendees (pre-registration required).

PANELISTS:

Sara ElShafie, Ph.D. Candidate, UC Berkeley

Daniel McCoy, Technical Supervisor, Pixar Animation Studios

2100    STUDENT MIXER at Knuckles Sports Bar, Hyatt Regency Monterey Hotel
FRIDAY, NOVEMBER 11, 2016

STUDENT SYMPOSIUM (0800-1000)  REGENCY BALLROOM

“COMMUNICATING THE VALUE OF NATURAL HISTORY THROUGH EXPLORATION AND DISCOVERY”

0800 INTRODUCTION (Breck McCollum, WSN Student Committee)

0815 Jennifer Caselle, UC Santa Barbara
SCIENCE AND STORYTELLING: THE UNIVERSAL HOOK FOR OUR OCEANS

0835 Craig Young, Oregon Institute of Marine Biology, University of Oregon
OLD-FASHIONED ZOOLOGIZING WITH EXPENSIVE TOYS: COMMUNICATING THE EXCITEMENT OF DEEP-OCEAN SCIENCE

0855 James Barry, Monterey Bay Aquarium Research Institute
NATURAL HISTORY NO MORE – COMMUNICATING THE CHALLENGES FOR MARINE LIFE IN A CHANGING OCEAN

0915 Luiz Rocha, California Academy of Sciences
INTO THE TWILIGHT ZONE: USING SCIENTIFIC EXPLORATION TO INSPIRE CONSERVATION

0935 PANEL DISCUSSION

1000 COFFEE BREAK

1030 RAFE SAGARIN FUND FOR INNOVATIVE ECOLOGY
(by Ben Halpern, Danielle Zacherl)

1045 NATURALIST OF THE YEAR AWARD: JACKIE SONES (by Karina Nielsen)

1050 WSN NATURALIST OF THE YEAR (Jackie Sones, Bodega Marine Reserve)

1115 LIFETIME ACHIEVEMENT AWARD: MIKE FOSTER (by Dan Reed)

1130 Mike Foster, Moss Landing Marine Laboratories
THE WESTERN SOCIETY OF NATURALISTS: 100 YEARS OF NATURALISM AND ATTITUDE ADJUSTMENT

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2315 LAST BUS DEPARTS FROM AQUARIUM TO HOTEL
| Time  | Session 1: BALLROOM A  
Evaluating MPAS I  
Chair: Barron, A  
† eligible for Best Student Paper Award | Session 2: BALLROOM B  
Top-Down Control I  
Chair: Harley, CDG | Session 3: BALLROOM C  
Community Ecology I  
Chair: Allen, BJ | Session 4: BIG SUR  
Reproduction, Dispersal, Recruitment I  
Chair: Hadfield, MG |
|-------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| 1315  | Barron, A.  
DARE TO BE DEEP: MONITORING PROGRESS ON NORTH AMERICA’S MARINE PROTECTED AREAS (MPAS) | Ruesink, J.L.  
TOP-DOWN CONTROL AS A FUNCTION OF BIODIVERSITY? | Allen, B.J.  
TEMPORAL VARIATION IN MECHANISMS DRIVING NE BIODIVERSITY-PRODUC RELATIONSHIP IN A RESTORED COASTAL WETLAND | Hadfield, M.G.  
THE BACTERIAL BASIS OF LARVAL SETTLEMENT |
| 1330  | Calvanese, T.  
MOVEMENT PATTERNS OF FISHES OF REDFISH ROCKS MARINE RESERVE | Suchanek, T.H.  
REVISITING PAINE’S 1966 SEA STAR REMOVAL EXPERIMENT, THE MOST-CITED EMPIRICAL ARTICLE IN THE AMERICAN NATURALIST | Janousek, C.  
A BIOGEOGRAPHIC PERSPECTIVE ON ZONATION AND SPECIES RICHNESS IN MARSH PLANTS OF THE PACIFIC COAST | Ewers-Saucedo, C.  
WHATEVER FLOATS YOUR BOAT? THE POTENTIAL FOR ADAPTATION AND PHYLOGENETIC CONSTRAINT IN BARNACLE LARVAE |
| 1345  | Johnson, D.W.  
LARVAL CONNECTIVITY AND PERSISTENCE OF A MARINE FISH METAPOPULATION: IMPLICATIONS FOR DESIGNING NETWORKS OF MARINE PROTECTED AREAS | Bracken, M.E.S.  
COMPLEX TOP-DOWN AND BOTTOM-UP EFFECTS OF GRAZERS ON ROCKY SHORES | †Morton, J.P.  
PARASITES ENHANCE ECOSYSTEM FUNCTIONS AND RESISTANCE TO DROUGHT IN A COASTAL ECOSYSTEM | †Bashevkin, S.M.  
PIGMENTATION IN THE PLANKTON: TRADE-OFFS IN COLORATION FOR MARINE LARVAE |
| 1400  | Chiu, J.A.  
LESSONS FROM 10 YEARS OF COLLABORATIVE FISHERIES RESEARCH IN MPAS | Gravem, S.A.  
MECHANISMS DRIVING RESISTANCE AND RESILIENCE TO COMMUNITY CHANGE AFTER THE SEA STAR WASTING DISEASE OUTBREAK | Arenas, A.  
IMPACTS OF INVASIVE TAMARIX AND ITS REMOVAL ON THE INVERTEBRATE COMMUNITY IN TIJUANA ESTUARY | †Bergman, J.L.  
THE EFFECTS OF OCEAN ACIDIFICATION ON THE PHYSIOLOGY AND BEHAVIOR OF BROODED CORAL LARVE IN OKINAWA, JAPAN |
| 1415  | †Comet, S. M.  
INFORMING OREGON’S MARINE PROTECTED AREA (MPA) BASELINE: PAST AND PRESENT TRIBAL USES OF MARINE RESOURCES | Eckert, G.L.  
APEX PREDATORS, ECOSYSTEMS, AND COMMUNITY SUSTAINABILITY (APECS) IN COASTAL ALASKA | Petrelli, A.R.  
MORRO BAY AVIAN COMMUNITY SHIFT ASSOCIATED WITH EELGRASS COLLAPSE | †Lizárraga, D.M.  
LOW CONCENTRATIONS OF LARGE INEDIBLE PARTICLES REDUCE FEEDING RATES OF ECHINODERM LARVAE |
| 1430  | Van Diggelen, A.D.  
LINKING SCIENCE TO MANAGEMENT: ESTABLISHING A BASELINE OF CONDITIONS IN CALIFORNIA’S SOUTH COAST REGION | Wulff, J.L.  
TOP-DOWN CONTROL OF CORAL REEF SPONGES: NATURAL HISTORY DETAILS DISTENTANGLE WITHIN-VS. BETWEEN-HABITAT PATTERNS AND PROCESSES | †Valentine, M.M.  
DOES THE FUNCTIONAL DIVERSITY OF TROPICAL SPONGE COMMUNITIES MATTER FOR WATER COLUMN OUT CHARACTERISTICS? | Pineda, J.  
INFERRING LARVAL TRANSPORT FROM HIGH RESOLUTION PHYSICAL MEASUREMENTS AND SETTLEMENT DATA |
<table>
<thead>
<tr>
<th>Time</th>
<th>Session 5: CYPRESS</th>
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<td>PERSUASIVE PLASTICS: A NEW CHALLENGE FOR CRABS AND OUR SANDY BEACH ECOSYSTEM</td>
<td>SYSTEMATICS AND BIOGEOGRAPHY OF THE NORTHEAST PACIFIC CORALLINE ALGAL FLORA: LOCAL CHANGES, GLOBAL IMPLICATIONS</td>
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<td>REMOTE RESEARCH ON A BUDGET: DESIGNING VIDEO SYSTEMS FOR RESEARCH IN THE ULITHI ATOLL</td>
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<td>TESTING THE WATERS: INVESTIGATING EFFECTS OF WASTEWATER CONTAMINANTS ON A COMMERCIALY HARVESTED BIVALVE, THE PACIFIC OYSTER</td>
<td>SHIFTING STRENGTHS OF SPECIES INTERACTIONS IN A GUILD OF CRUSTOSE CORALLINE ALGAE REINTERPRETED WITH RESTRUCTURED SYSTEMATICS</td>
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<td>SEASONAL AND SPATIAL VARIABILITY IN CONTAMINANT CONCENTRATIONS OF OLYMPIA OYSTERS</td>
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<td>SEASKETCH SURVEYS ENABLE THE COLLECTION OF VOLUNTEERED GEOGRAPHIC INFORMATION IN MARINE PLANNING CONTEXT</td>
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<td>TUNICATE DEATH SQUAD: POTENTIAL ERADICATION TECHNIQUES FOR DIDEMNUM VEXILLIUM (KNOTT 2002) IN SITKA, AK</td>
<td>CHARACTERIZING A KEY ADAPTATION: THE EXTRAORDINARY JOINT MATERIAL OF CORALLINE ALGAE</td>
<td>DIRECT AND INDIRECT EFFECTS OF INVASIVE LIONFISH ON CORAL-REEF CLEANING MUTUALISTS</td>
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<td>LIFE HISTORY OF THE INVASIVE SEAWEED SARGASSUM HORNERRI</td>
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<td>ЍDoes drought result in a die-back of invasive <em>Lepidium latifolium</em> in a salt marsh?</td>
<td>BEYOND IDIOSYNCRASY IN OCEAN ACIDIFICATION RESEARCH: A CASE STUDY WITH CORALLINE ALGAE</td>
<td>DEVELOPING ENVIRONMENTAL DNA AS A POLICY-RELEVANT TOOL FOR 21ST CENTURY ECOLOGY</td>
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<td>ЍDo culverts prevent marine fish from accessing important habitats? A case study at the Colorado Lagoon, Long Beach</td>
<td>PHYSIOLOGICAL PLASTICITY AND LOCAL ADAPTATION TO ELEVATED PCO₂ IN CALCAREOUS ALGAE: AN ONTOGENIC AND GEOGRAPHIC APPROACH</td>
<td>IMPROVING REPRODUCIBILITY, COLLABORATION, AND COMMUNICATION IN ENVIRONMENTAL SCIENCE WITH OPEN SCIENCE TOOLS</td>
<td></td>
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<td>1515</td>
<td>DeVaney, S.C.</td>
<td>Hettinger, A.</td>
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<td>SPECIES DISTRIBUTION PREDICTION OF GIANT KELP USING CITIZEN SCIENCE DATA</td>
<td>MISSING THE FULL STORY: EXAMINING RESPONSES OF CORALLINE ALGAE TO ENVIRONMENTAL VARIABILITY IN THE CONTEXT OF OCEAN ACIDIFICATION</td>
<td>INCREASING STATE CAPACITY TO ENGAGE WITH MARINE RESOURCE STAKEHOLDERS</td>
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<td>Session 12: CYPRESS</td>
<td>Session 13: SPYGLASS</td>
<td>Session 14: WINDJAMMER</td>
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<td>FRIDAY, NOV 11</td>
<td>Applied Ecology II</td>
<td>Seascape Genetics</td>
<td>Behavioral Ecology</td>
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<td>Lester, S.E.</td>
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<td>Lowe, C.G.</td>
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<td>MARINE SPATIAL PLANNING MAKES ROOM FOR OFFSHORE AQUACULTURE IN CROWDED COASTAL WATERS</td>
<td>SEASCAPE GENETIC ANALYSIS FOR A CORAL REEF COMMUNITY USING COALESCENT MODEL SELECTION</td>
<td>BEACH BABIES - NEARSHORE MOVEMENTS OF JUVENILE WHITE SHARKS OFF SOUTHERN CALIFORNIA</td>
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<td>MONITORING STRATEGY EVALUATION: A NEW TOOL TO IMPROVE STATUS DETERMINATIONS OF SPECIES WITH LIMITED DETECTABILITY</td>
<td>A NEEDLE IN THE HAYSTACK: GENETIC TECHNIQUES TO EFFICIENTLY SAMPLE NEARSHORE LARVAL DISPERAL</td>
<td>AGGREGATIVE AND FEEDING THRESHOLDS OF SYMPATRIC RORQUAL WHALES WITHIN A FJORD SYSTEM</td>
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<td>Time</td>
<td>Session 8: BALLROOM A</td>
<td>Session 9: BALLROOM B</td>
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<td>Shaughnessy, F.J. THE MACROPHYTES, INVERTEBRATES AND FISH ALONG A GRADIENT OF MARINE PROTECTED AREAS IN NORTHERN CALIFORNIA</td>
<td>Johnson, L.E. CONSISTENCY IN A MARINE ALGAL-GRAZER INTERACTION OVER MULTIPLE SCALES</td>
<td>Walker, S.E. DIVERSITY OF SHELL REPAIR SCARS ON THE ANTARCTIC SCALLOP, ADAMUSSIUM COLBECKI</td>
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<td>1700</td>
<td>Succow, M.L. WHERE THE SURF MEETS THE SAND: PREDATION BY REDTAIL SURFPERCH ON PACIFIC SAND CRABS WITHIN NORTHERN CALIFORNIA SANDY BEACHES</td>
<td>Burt, J.M. ECOLOGICAL TRANSITIONS IN SEA OTTER-INDUCED REGIME SHIFTS</td>
<td>Ng, G. IMPACTS OF SENSORY STRESS ON PREDATOR’S INDIRECT EFFECTS WITHIN A TROPHIC MODEL</td>
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<td>1715</td>
<td>White, T.D. ASSESSING THE EFFECTIVENESS OF LARGE MARINE PROTECTED AREAS FOR REEF SHARK CONSERVATION</td>
<td>Hardy, N.A. A LOT TO LEARN ABOUT INTERACTIONS BETWEEN RECOVERING PINNIPED POPULATIONS AND TEMPERATE REEF COMMUNITIES</td>
<td>Spyksma, A.J.P. TO FLEET OR NOT TO FLEET? THE EFFECTS OF ALARM CUES ON THE BEHAVIOUR OF SEA URCHINS</td>
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<td>1730</td>
<td>Saarman, E.T. RESEARCH AND EDUCATION IN PROTECTED AREAS: A NOVEL ECOLOGICALLY-BASED PERMITTING DECISION FRAMEWORK</td>
<td>Kroeker, K.J. FUNCTIONAL RESPONSES OF SEAGRASS COMMUNITY TO OCEAN ACIDIFICATION AND NUTRIENTS: RESILIENCE TO MULTIPLE STRESSORS</td>
<td>Lewis L.S. COMPARATIVE METABOLIC, TROPHIC, AND FUNCTIONAL ECOLOGY OF TROPICAL HIBERBIVOROUS ECHINOIDS IN MAUI, HAWAII</td>
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<td>Jhaveri, P. K. EVALUATION OF A MOBILE TOUCH TANK OUTREACH AND TIDEPOOL INTERPRETIVE PROGRAM TO OFFSET VISITOR IMPACTS ON ROCKY INTERTIDAL ZONES</td>
<td>Harley, C.D.G. EFFECTS OF ENVIRONMENTAL STRESS ON A KEYSTONE PREDATOR, BIOGENIC HABITAT, AND LOCAL AND LANDSCAPE SCALE DIVERSITY</td>
<td>Narváez, C. A. COMPETITION AMONG SEA URCHINS: IS SIZE IMPORTANT?</td>
</tr>
<tr>
<td>Time</td>
<td>Session 12: CYPRUS</td>
<td>Session 13: SPYGLASS</td>
<td>Session 14: WINDJAMMER</td>
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<td>FEEDBACKS BETWEEN ECOSYSTEM STATE AND HUMAN BEHAVIOR DETERMINE CORAL REEF RESILIENCE</td>
<td>TESTING FOR CONCORDANCE BETWEEN BIOPHYSICAL MODELS OF DISPERAL AND SPATIAL GENETIC STRUCTURE FOR GREAT BARRIER REEF CORALS</td>
<td>FAT-TAILED FORAGING STRATEGIES REQUIRE ENERGETIC TRADE-OFFS IN PATCHY ENVIRONMENTS</td>
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<td>TRADEOFF ANALYSIS FOR BALANCING MULTIPLE OBJECTIVES IN OCEAN MANAGEMENT</td>
<td>IN THE WAKE OF A PANDEMIC: THE GENETIC CONSEQUENCES OF MASS MORTALITY AND MASS RECRUITMENT IN PISASTER OCHRACEUS</td>
<td>THE EFFECT OF INTER-SPECIFIC FORAGING AND ANTI-PREDATOR BEHAVIOURS ON PREY SELECTION: TESTS WITH CORAL REEF FISHES</td>
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<td>HOW MANY MALES DOES A POPULATION NEED?</td>
<td>EFFECTS OF ESTUARY OPENING ON POPULATION CONNECTIVITY OF CALIFORNIA KILLIFISH (FUNDULUS PARVIPINNIS)</td>
<td>STRATEGIC STRIKES: HOW MANTIS SHRIMP CRACK OPEN DIFFERENT PREY</td>
</tr>
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<td>1715</td>
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<td>WOMEN IN AQUACULTURE - WHERE RESTORATION, INDUSTRY, AND POLICY MEET</td>
<td>GEOGRAPHIC PATTERNS OF INTROGRESSION BETWEEN ANEMONES IN THE GENUS ANTHOPLEURA</td>
<td>INFLUENCE OF PERSONALITY ON GIANT PACIFIC OCTOPUS BEHAVIOR</td>
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<td>ANCIENT FISH WEIR TECHNOLOGY FOR MODERN STEWARDSHIP CHALLENGES: METHODS AND CONSIDERATIONS FOR COMMUNITY BASED SALMON MONITORING</td>
<td>POPULATION GENOMICS REVEALS HIGH CONNECTIVITY AMONG BREEDING COLONIES OF THE ELEGANT TERN (THALASSEUS ELEGANS)</td>
<td>SOCIALITY IN PARASITIC FLATWORMS: SPECIES OF A NEW TREMATODE FAMILY ALSO HAVE A NON-REPRODUCTIVE SOLDIER CASTE</td>
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<td>THE SURFING ECOLOGIST: A NEW SYNERGY FOR SCIENCE AND SURFERS</td>
<td>POPULATION GENETIC STRUCTURE OF THE BULL-KELP, NEROCYSTIS LUETKEANA</td>
<td>CONTEXT DEPENDENT BENEFITS OF SYMBIOTIC ALGAE TO THEIR HOST ANEMONE AND ASSOCIATED MODIFICATION OF ANEMONE BEHAVIOR</td>
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</table>
SATURDAY, NOVEMBER 12, 2016

PRESIDENTIAL SYMPOSIUM (0800-1000) REGENCY BALLROOM

“THE FUTURE OF NATURAL HISTORY: THE ROLE AND RELEVANCE OF NATURAL HISTORY IN THE 21ST CENTURY”

0800  INTRODUCTION (Jay Stachowicz)

0815  J. Emmett Duffy, Smithsonian Institution
NETWORKED NATURAL HISTORY FOR A NEW CENTURY

0840  Mary O’Connor, University of British Columbia
THE FUTURE OF NATURAL HISTORY: IT IS JUST A MATTER OF TIME

0905  Drew Harvell, Cornell University
TURNING UP THE HEAT ON MARINE DISEASE

0930  Rick Grosberg, University of California, Davis
THE FUTURE OF MARINE MOLECULAR ECOLOGY: BEYOND CONNECTIVITY

1000  COFFEE BREAK

1030-1200  CONTRIBUTED PAPERS (Regency Ballroom ABC, Big Sur, Cypress, Spyglass, Windjammer)

1200-1315  LUNCH (available for purchase in the Regency Foyer, see pg.4)

1315-1745  CONTRIBUTED PAPERS (Regency Ballroom ABC, Big Sur, Cypress, Spyglass, Windjammer)

1800-1900  ANNUAL BUSINESS MEETING (Spyglass Room)

1930-2130  WSN DINNER BUFFET AND PRESIDENTIAL ADDRESS: Jay Stachowicz
(Regency Ballroom)

2130-2400  UNDERSEA GALA: WSN AUCTION, LIVE MUSIC, and ENTERTAINMENT
(Regency Ballroom)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session 15: BALLROOM A</th>
<th>Session 16: BALLROOM B</th>
<th>Session 17: BALLROOM C</th>
<th>Session 18: BIG SUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1045</td>
<td>†Kosman, E THE EFFECT OF DENSITY ON CORRELATIONS BETWEEN GAMETE TRAITS IN A NATURAL POPULATION OF CIONA INTESTINALIS</td>
<td>Elahi, R. HONEY, I SHRUNK THE SNAILS: DECADAL-SCALE CHANGES IN BODY SIZE ALONG AN INTERTIDAL GRADIENT SUPPORT THE TEMPERATURE-SIZE RULE</td>
<td>†Moritsch, M.M. ARE SEA STARS RECOVERING AFTER SEA STAR WASTING SYNDROME? ASSESSING PISASTER RECOVERY WITH GROWTH RATES AND RECRUITMENT</td>
<td>Reynolds, P.L. LATITUDINAL PATTERNS IN EELGRASS ECOLOGY ACROSS THE NORTHERN HEMISPHERE</td>
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<tr>
<td>1100</td>
<td>Krueger-Hadfield, S.A. UNCONSCIOUS UNCOUPLING: INVASIONS OF NOVEL HABITATS DISRUPT MACROALGAL LIFE CYCLES</td>
<td>Boch, C.A. EFFECTS OF CURRENT AND FUTURE COASTAL UPWELLING CONDITIONS ON THE FERTILIZATION SUCCESS OF RED ABALONE (HALIOTIS RUFESCENS)</td>
<td>Wood, C.L. FISHING DRIVES DECLINES IN FISH PARASITE DIVERSITY AND HAS VARIABLE EFFECTS ON PARASITE ABUNDANCE</td>
<td>†Kardish, M.R. CONCORDANCE OF MICROBIAL COMMUNITIES, MESOGRAZERS, AND GENETIC STRUCTURE IN WORLDWIDE SAMPLING OF ZOSTERA MARINA</td>
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<td>1115</td>
<td>Sotka, EE RAPID EVOLUTION OF STRESS TOLERANCE FACILITATES THE WORLDWIDE INVASION OF A SEAWEED</td>
<td>Rogers-Bennett, L.R. MARINE HEAT WAVE LINKED TO SEA URCHIN BOOM, KELP DEFORESTATION, ABALONE STARVATION AND FISHERY DECLINES IN NORTHERN CALIF.</td>
<td>Dawkins, P.D. TRIPLE JEOPARDY: STRAIN, DOSAGE, AND ENVIRONMENT INCREASE VIRULENCE OF EELGRASS WASTING DISEASE</td>
<td>†Bracewell, S.A. LINKING RECRUITMENT TO COMMUNITY DEVELOPMENT OVER LATITUDE REVEALS A SHIFT IN THE ROLE OF STOCHASTIC VS. DETERMINISTIC PROCESSES</td>
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<td>†Schiebelhut, L.M. DEMYSTIFYING DISPERSAL: PATTERNS AND SOURCES OF LARVAL AND ALLELIC RECRUITMENT AFTER A MULTISPECIES INVERTEBRATE DIE-OFF</td>
<td>terHorst, C.P. EVOLUTION TO THE RESCUE: SYMBIONT EVOLUTION OFFERS HOPE FOR CORALS</td>
<td>Byers, J.E. CONSISTENCY OF TREMATODE INFECTION PREVALENCE IN HOST POPULATIONS ACROSS LARGE SPATIAL AND TEMPORAL SCALES</td>
<td>†Robinson, J.P.W. SCALE-DEPENDENCE OF BOTTOM-UP AND TOP-DOWN PROCESSES IN CORAL REEF BENTHIC COMMUNITIES</td>
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<td>Session 19: CYPRESS</td>
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<td>THE ROLE OF WARMING</td>
<td>SHOULD MOTHERS PROVISION OFFSPRING EQUALLY? THE FITNESS CONSEQUENCES OF WITHIN-BROOD VARIATION IN OFFSPRING SIZE</td>
<td>THE BIOGEOGRAPHY OF MARINE FISH EGG SIZE</td>
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<td>WHY DO COLDER MOTHERS PRODUCE LARGER OFFSPRING?</td>
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<td>IN THE HEAT OF THE</td>
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<td>PRYING INTO PRIVATE LIVES OF MUSSELS: FIELD MEASUREMENTS OF VALVE GAPE AND BODY POSTURE CHANGES IN THE WAVE-SWEPT INTERTIDAL ZONE</td>
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<td>MOMENT: DAILY FLUCTUATIONS IN TEMPERATURE STRUCTURE A SIERRA NEVADA ANT COMMUNITY</td>
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<td>CHARACTERIZING NET COMMUNITY PRODUCTION IN AN ECOSYSTEM INVADED BY SARGASSUM HORNERI</td>
<td></td>
<td>USING PROTEOMICS TO REVEAL SIRTUINS AS REGULATORS OF THE CELLULAR STRESS RESPONSE IN MYTILID MUSSELS</td>
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<td>THE ROLE OF DENSITY- ASSOCIATED PROCESSES AND SHADING IN THE STRUCTURE AND DISTRIBUTION OF OCTOCORAL COMMUNITIES</td>
<td>POLAR GIGANTISM REVISITED: HIGH-LATITUDE CRUSTACEANS HAVE LARGER GENOMES</td>
<td>ALL YOU CAN EAT BUFFET: REEF-BUILDING CORALS INCREASE HETEROTROPHIC FEEDING ALONG GRADIENTS OF PRIMARY PRODUCVITIY</td>
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<td>RUGOSE MICROHABITATS AFFECT OCTOCORAL DISTRIBUTION ON CORAL REEFS IN ST. JOHN, U.S. VIRGIN ISLANDS</td>
<td>PATCHY DISTRIBUTION, AND PATCHY TAXONOMY IN A SHALLOW-WATER MARINE MOLLUSC</td>
<td>PLASTIC RESPONSES TO TEMPERATURE IN JUVENILE PACIFIC ROCKFISH</td>
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</tbody>
</table>
| Time   | Session 22: BALLROOM A  
Genetic and Genomic Approaches to Ecol II  
Chair: Grosberg, RK | Session 23: BALLROOM B  
Climate Change and Phenology II  
Chair: O’Connor, MI | Session 24: BALLROOM C  
Intertidal Ecology I  
Chair: Sorte, CJB | Session 25: BIG SUR  
Fisheries Ecology I  
Chair: Lindholm, J |
|--------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| 1315   | Bernardi, G  
GENE EXPRESSION RESPONSES TO OCEAN ACIDIFICATION IN THE BLACK SURFPERCH, EMBIOTCA JACKSONI | †Frechette, D.M.  
EVERYONE IN THE POOL: THERMAL REFUGE USE BY ATLANTIC SALMON DURING IN-RIVER MIGRATION | †Worden, S.E.  
ROCKY INTERTIDAL SPECIES INTERACTION WEBS VARY WITH ROCK TYPE AND SITE IN CENTRAL CALIFORNIA | Lindholm, J.  
QUANTIFICATION OF HABITAT IMPACTS UNDER SELECTED TRAWL MODIFICATIONS: A COLLABORATIVE APPROACH TO PRESSING MANAGEMENT QUESTIONS |
| 1330   | Evans, T.G.  
TRANSCRIPTOMIC RESPONSES TO SEAWATER ACIDIFICATION AMONG SEA URCHIN POPULATIONS INHABITING A NATURAL PH MOSAIC | Cheng, B.S.  
ATMOSPHERIC RIVERS AND THE MASS MORTALITY OF WILD OYSTERS: INSIGHT INTO AN EXTREME FUTURE? | Bell, C.A.  
PATTERNS FROM DECADES OF ROCKY INTERTIDAL MONITORING | Yamane, L.  
EFFECTS OF HATCHERY SUPPLEMENTATION ON VARIABILITY IN EXPLOITED SALMON POPULATIONS |
| 1345   | Komoroske, L.M.  
LINKING TRANSCRIPTIONAL AND ORGANISMAL RESPONSES TO ENVIRONMENTAL SENSITIVITY IN AN ENDANGERED ESTUARINE FISH | Picard, M.  
EVENT-DRIVEN ESTUARINE ACIDIFICATION: UPWELLING AND STORM INFLOW ALTER OYSTER GROWTH DIFFERENTLY IN A NORTHERN CALIFORNIA ESTUARY | Sorte, C.J.B.  
MUSSEL DECLINES AND INTERTIDAL COMMUNITY SHIFTS OVER THE PAST 40 YEARS IN THE GULF OF MAINE | †Hinterman, K.D.  
ESTABLISHING A BIODIVERSITY AND DNA BARCODE BASELINE FOR ROCKY INTERTIDAL FISH COMMUNITIES IN NORTHERN CALIFORNIA |
| 1400   | †Dziedzic, K.E.  
PROFILING GENE EXPRESSION IN AN INTERTIDAL SEA ANEMONE (ANTHOPLEURA ELEGANTISSIMA) ACROSS HABITATS AND SYMBIOTIC STATES | Shauer, M.  
ASSESSING THE IMPACTS OF PROJECTED CLIMATE CHANGE ON THE ECOPHYSIOLOGY OF SACCHARINA LATISSIMA | Robinson, J.R.  
MUSSEL BED DYNAMICS, A FIVE YEAR PERSPECTIVE | Thompson, M.D.  
24 FATHOMS UNDER THE SEA: QUANTIFYING THE CAUSES AND CONSEQUENCES OF SHIFTS IN PACIFIC HERRING (CLUPEA PALLASII) SPAWN BEHAVIOR |
| 1415   | Lazzarotto, H.  
BOTH ISOLATION AND NATURAL SELECTION INFLUENCE THE POPULATION GENOMICS OF COPPELLA NIGROFASCIATA (PISCES) IN THE BRAZILIAN AMAZON | †Tanner, R.L.  
PARENTAL ORIGIN INFLUENCES LARVAL HATCHING SUCCESS DURING ACUTE THERMAL STRESS IN PHYLALYSIA TAYLORI | Cusson, M.  
EFFECT OF MULTIPLE DISTURBANCES AND STRESSES ON THE TEMPORAL TRAJECTORIES AND RECOVERY OF BENTHIC COMMUNITIES | †Emry, Sandra M.  
MONITORING THE GROWTH AND SURVIVAL OF LARVAL HERRING ON BRITISH COLUMBIA’S CENTRAL COAST |
| 1430   | Jue, N.J.  
RAPID EVOLUTIONARY RATES AND UNIQUE GENOMIC SIGNATURES IN THE REFERENCE GENOME FOR THE SOUTHERN OCEAN SALP, SALPA THOMPSONI | †Wong, J.M.  
WHOS YOUR MOMMYY? TRANSCRIPTOMICS REVEAL TRANSGENERATIONAL EFFECTS IN PURPLE SEA URCHINS EXPOSED TO UPWELLING CONDITIONS | †Duncan, E.A.  
ENVIRONMENTAL CONTROLS OF BLACK ABALONE BODY TEMPERATURE: LINKS TO THERMAL STRESS AND THE RISK OF DISEASE | Okamoto, D.K.  
IMPACTS OF METAPOPULATION DYNAMICS ON OVERFISHING RISK AND VULNERABILITY IN MULTISCALE FISHERIES |
<table>
<thead>
<tr>
<th>Time</th>
<th>Session 26: CYPRESS</th>
<th>Session 27: SPYGLASS</th>
<th>Session 28: WINDJAMMER</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>Conservation and Restoration</td>
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<td>THE SEAWEED FLORA OF CALIFORNIA, REBOOTED (1976-2016)</td>
<td>RESTORING TIDAL WETLANDS IN THE SAN FRANCISCO ESTUARY</td>
<td>HIGH PCO2 ALTERS THE ENERGETICS AND COMPOSITION OF BIOMASS, BUT NOT CALCIFICATION, IN A REEF BUILDING CORAL AT TWO LIGHT REGIMES</td>
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<td>CAUSES AND CONSEQUENCES OF THE ABUNDANCES OF THREE ROCKWEED SPECIES ON CALIFORNIA ROCKY SHORES</td>
<td>SEAGRASS RESTORATION AND THE TRAJECTORY OF ENHANCED ECOSYSTEM FUNCTIONING</td>
<td>SIZE-DEPENDENT PHYSIOLOGICAL RESPONSES OF A CORAL WITH COMPLEX MORPHOLOGY IN DIFFERENT ENVIRONMENTS</td>
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<td>FINE SEDIMENT ALTERS COMPETITION BETWEEN TWO ALASKAN KELPS AT THE MICROSCOPIC STAGE</td>
<td>PREDATION AND PREDATOR RESPONSE TO EXPERIMENTAL STOCKING OF RED ABALONE (HALIOTIS RUFESCENTS) IN SOUTHERN CALIFORNIA</td>
<td>DISTRIBUTION OF CARBONIC ANHYDRASE AND CARBON PARTITIONING IN SUBTIDAL MARINE MACROALGAE FROM SOUTHERN BRITISH COLUMBIA</td>
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<td>EFFECTS OF DAM REMOVAL ON NEARSHORE SUBTIDAL COMMUNITIES</td>
<td>DETERMINING POPULATION STRUCTURE, REPRODUCTIVE POTENTIAL, AND HABITAT ASSOCIATIONS OF PINTO ABALONE IN SOUTHERN CALIFORNIA</td>
<td>EFFECT OF SEAWATER WARMING AND LOW DISSOLVED OXYGEN ON BEHAVIOR AND PHYSIOLOGY OF MARINE BENTHIC INVERTEBRATES</td>
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<td>REDUCED PRODUCTIVITY AND COMPENSATORY LIGHT DYNAMICS FOLLOWING DISTURBANCE IN INTERTIDAL ALGAL ASSEMBLAGES</td>
<td>INTEGRATED HABITAT SUITABILITY EVALUATION INCORPORATING LIFE HISTORY, TOPOGRAPHY, AND TEMPERATURE FOR WHITE ABALONE RESTORATION</td>
<td>PHYSIOLOGICAL EFFECTS OF LOW DISSOLVED OXYGEN ON PACIFIC SANDDABS</td>
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<td>EFFECTS OF HERBIVORY ON INTERACTIONS AMONG CORAL REEF ALGAE</td>
<td>THE WORTH OF GIANTS: PUTTING A PRICE ON AN ENDANGERED FISH</td>
<td>EFFECTS OF HYPOXIA ON JET-PROPELLED ESCAPE BEHAVIOR IN DORYTEUTHIS OPALESCENS (CALIFORNIA MARKET SQUID)</td>
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<td>Johnson, S. B.  LOOKING FOR LARVAE IN ALL THE RIGHT PLACES</td>
<td>Hann, A.M.  LITTLE FISH, BIG PICTURE: COMPARING FORAGE FOOD CONDITIONS BETWEEN COLD AND WARM PERIODS IN THE NORTHERN CALIFORNIA CURRENT</td>
<td>Rader, R.B.  EVIDENCE OF COMPETITION FOR FOOD BETWEEN THE SNAIL, TEGULA FUNEBRALIS AND THE HERMIT CRAB, PAGURUS GRANOSIMANUS</td>
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<td>Session 30: BALLROOM B  Kelp Forest Communities I  Chair: Tinker, MT</td>
<td>Session 31: BALLROOM C  Intertidal Ecology II  Chair: Mieszkowska, N</td>
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<td>†Lowe, A.T.  A TALE OF TWO OYSTERS: COMPARATIVE RESPONSES OF OLYMPIA AND PACIFIC OYSTERS TO IN SITU FOOD AND PH VARIATION IN WASHINGTON STATE</td>
<td>Tinker, M. T.  LONG-TERM DYNAMICS OF SUBTIDAL COMMUNITIES AT SAN NICOLAS ISL: STABILITY, ALTERNATIVE STATES, AND A COMPLEX TOP-DOWN PERTURBATION</td>
<td>Mieszkowska, N.  BEYOND LONG-TERM AVERAGES: MAKING BIOLOGICAL SENSE OF A RAPIDLY CHANGING WORLD</td>
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<td>†Cannon, A.L. THE EFFECT OF SIMULATED GREEN TURTLE GRAZING ON THE ECOLOGY OF SEAGRASS BEDS IN BOCAS DEL TORO, PANAMA</td>
<td>Tapia-Lewin, S. FISHERS' PERCEPTIONS ON THE CHILEAN COASTAL TURF SYSTEM AFTER TWO DECADES: PROBLEMS, BENEFITS, AND EMERGING NEEDS</td>
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<td>†Burnett, N.P. THE STRENGTH OF KELP TISSUE DEPENDS ON AGE, SEASON, AND HERBIVORE ACTIVITY</td>
<td>Pausch, R.P. EFFECT OF GENET AND HABITAT ON OUTPLANTED ELKHORN CORAL (ACROPORA PALMATA) FRAGMENT SUCCESS</td>
<td>Liwanag, H.E.M. THE EFFECTS OF SUBMERGENCE ON THE THERMAL FUNCTION OF PINNIPED FUR</td>
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<td>†McHugh, T.A. THE EFFECTS OF DISTURBANCE EVENTS ON SUBTIDAL RED ALGAE COMMUNITIES</td>
<td>†Ladd, M.C. DENSITY DEPENDENCE DETERMINES SUCCESS OF ACROPORA CERVICORNIS RESTORATION EFFICACY ON A CARIBBEAN CORAL REEF</td>
<td>Kendall-Bar, J.M. SLEEPING WITH ONE EYE OPEN: USING EYE STATE AS A PROXY FOR UNIHEMISPHERIC SLEEP IN NORTHERN FUR SEALS</td>
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<td>Benkwitt, C.E. NON-CONSUMPTIVE EFFECTS OF NATIVE AND INVASIVE PREDATORS ON RECRUITMENT OF CORAL-REEF FISHES</td>
<td>Beas, R. ALASKA TO BAJA CONSORTIUM FOR REEF MONITORING (ABC-REEF): TRACKING REGIONAL CHANGE OF KELP FOREST ECOSYSTEMS</td>
<td>Donovan, D.A. BROAD SALINITY TOLERANCE OF THE NON-NATIVE CLAM NUTTALLIA OBSCURATA</td>
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<td>Strawhand, A.K. THE IMPACT OF WATER FLOW ON THE GROWTH AND INVASION OF TWO CRYPTIC WATERSIPORA SPP.</td>
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<td>†Muth, A.M. COMMUNITY VARIATIONS DUE TO THE PRESENCE AND ABSENCE OF CRUSTOSE CORALLINE ALGAE IN AN ARCTIC KELP SYSTEM</td>
<td>He, Q. NATURAL ENEMIES GOVERN ECOSYSTEM RESILIENCE IN THE FACE OF EXTREME DROUGHTS</td>
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<td>†Liu, O.R. NOVEL NONLINEAR FORECASTING METHODS IDENTIFY DYNAMIC SPECIES INTERACTIONS IN A SOUTHERN CALIFORNIA KELP FOREST</td>
<td>Whalen, M.A. EFFECTS OF SMALL-SCALE TOPOGRAPHY ON DEVELOPMENT OF ROCKY INTERTIDAL COMMUNITIES</td>
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<td>Silbiger, N.J “PH”-INGERPRINTING WEST COAST TIDE POOLS: PHYSICAL VERSUS BIOLOGICAL DRIVERS OF COASTAL BIOGEOCHEMISTRY</td>
<td>†Cunningham, S.R. DECOUPLING PHYSICAL FROM BIOCENIC EFFECTS OF THE GIANT KELP MACROCYSTIS PYRIFERA ON POC DISTRIBUTION IN A KELP FOREST</td>
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<td>Shears, N. T. INTERACTIVE EFFECTS OF INCREASING TURBIDITY AND WARMING ON KELP FOREST PRODUCTIVITY AND RESILIENCE</td>
<td>La Valle, F.F. PROMOTING UNDERGRADUATE RESEARCH WITH THE OUR PROJECT IN HAWAII'S INTERTIDAL (OPIHI) INTERNSHIP</td>
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<td>EFFECTS OF WATER FLOW ON CALCIFICATION FOR DIFFERENT MORPHOLOGIES OF CORALLINE ALGAE</td>
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<td>EFFECTS OF OCTOCORALS ON THE FEEDING BEHAVIOR OF HERBIVOROUS CORAL REEF FISHES IN THE CARIBBEAN</td>
<td>UNDERSTANDING THE EFFECTS OF BOATING INFRASTRUCTURE ON NATURAL HABITATS: A FINE-SCALE APPROACH</td>
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<td>RESPONSES OF MARINE FISHES TO SCUBA DIVING, FISHING, AND ENVIRONMENTAL CHANGE: IMPACTS ON PREDATION RATES</td>
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<td>THAT WHICH DOES NOT KILL YOU... DOES WATER MOTION DRIVE NET PRIMARY PRODUCTIVITY IN SUBTIDAL KELP?</td>
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<td>DIVING ACTIVITY IN A COMMON HERBIVOROUS REEF FISH, SPARISOMA VIRIDE</td>
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<td>EFFECTS OF HURRICANE SANDY ON GREAT SOUTH BAY, LONG ISLAND: ASSESSING WATER QUALITY, SEAGRASS, AND NEKTON COMMUNITIES</td>
<td>PATTERNS AND DRIVERS OF $\Delta^{13}C$ VARIATION IN MACROCYSTIS PYRIFERA</td>
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0800-0845  **POSTER SET-UP FOR PRESENTERS** (Monterey Ballroom)  
*Please have your poster on display by no later than 08:45*

0830-1000  **WSN BRUNCH** (Monterey Terrace)

0900-1200  **WSN POSTER SESSION** (Monterey Ballroom)

1200-1300  **LUNCH** (available for purchase in the Regency Foyer, see pg.4)

1300-1430  **CONTRIBUTED PAPERS** (Regency Ballroom ABC, Big Sur, Cypress, Spyglass, Windjammer)

1430-1500  **BREAK**

1500-1600  **PLENARY SPEAKER** (Regency Ballroom)

  **Dr. James Estes**, *University of California Santa Cruz*

  “ADVENTURES IN NATURE AND PATHWAYS TO ECOLOGICAL UNDERSTANDING”

1600-1630  **BOOK SIGNING**: Your chance to purchase a signed copy of Jim’s new book!  
(“*Serendipity: An Ecologist's Quest to Understand Nature,*” UC Press, 2016)
| Time  | Session 36: BALLROOM A  
Ocean Acidification II  
Chair: Sunday, JM |
|-------|---------------------------------------------------|
| 1300  | Sunday, J.M.  
STRONG SPECIES INTERACTIONS IN A WARMING AND ACIDIFIED OCEAN |
|       | Young, M.A.  
INTERACTION BETWEEN HABITAT AND OCEANOGRAPHIC VARIABLES AFFECTING CONNECTIVITY AND PRODUCTIVITY OF ABALONE POPULATIONS |
|       | Mach, M.E.  
REPRISE, REPEAT, AND REPLICATE: Establishing Foundations for Understanding Long-Term Changes in Marine Biodiversity |
|       | Ruttenberg, B.I.  
PARROTFISH HERBIVORY AND RECOVERY OF CARIBBEAN CORAL REEFS: SCALING UP FROM INDIVIDUAL BEHAVIOR TO ECOSYSTEM IMPACTS |
| 1315  | Anderson, K.M.  
CALCIFIED HERBIVORE LOSS MAY DISPROPORTIONATELY DRIVE RESPONSES TO OCEAN ACIDIFICATION IN NATURAL COMMUNITIES. |
|       | Castorani, M.C.N.  
CONNECTIVITY AND DYNAMICS OF GIANT KELP METAPOPULATIONS IN SOUTHERN CALIFORNIA |
|       | Miner, C.M.  
LARGE-SCALE IMPACTS OF SEA STAR WASTING DISEASE ON PISASTER OCCHRACEUS, RECENT RECRUITMENT, AND IMPLICATIONS FOR RECOVERY |
|       | Edmunds, P.J.  
GENETIC VARIATION IN GROWTH RATE IS A POOR PREDICTOR OF FITNESS FOR REEF CORALS |
| 1330  | Lord, J.P.  
COMMUNITY-LEVEL RESPONSES TO WARMING AND OCEAN ACIDIFICATION |
|       | Karatyev, V.A.  
AT WHAT SPATIAL SCALES SHOULD WE EXPECT ALTERNATIVE STABLE STATES IN MARINE COMMUNITIES WITH HIGH RECRUITMENT OPENNESS? |
|       | Williams, J.P.  
LONG-TERM MONITORING OF KELP FOREST AND TIDEPOOL COMMUNITIES: BEFORE, DURING, AND AFTER SEA STAR WASTING IN SOUTHERN CALIFORNIA |
|       | Burkepile, D.E.  
IMPACT OF NUTRIENT POLLUTION ON CORAL BLEACHING, CORAL MORTALITY, AND CORAL RECOVERY ON MOOREA CORAL REEFS |
| 1345  | Sullivan, J.M.  
EFFECTS OF ACIDIFICATION, TEMPERATURE AND FOOD AVAILABILITY ON THE PISASTER OCCHRACEUS RECRUIT - MUSSEL INTERACTION |
|       | Weitzman, B.P.  
VARIABILITY IN GREEN SEA URCHIN DEMOGRAPHY AT MULTIPLE SPATIAL SCALES ACROSS THE ALEUTIAN ARCHIPELAGO |
|       | Barbour, N.A.  
SPATIAL AND TEMPORAL VARIABILITY OF A BIOLOGICAL GUILD ON THE MONTEREY BAY SANDY CONTINENTAL SHELF DURING THE 2015-2016 EL NIÑO |
|       | Brooks, A.J.  
RECOVERY TRAJECTORIES OF REEF FISHES FOLLOWING LARGE-SCALE DISTURBANCES: SIZE MATTERS |
| 1400  | Brown, N.E.M.  
FOOD AVAILABILITY AND DIET MODULATE SPECIES- BUT NOT COMMUNITY-LEVEL RESPONSES TO ACIDIFICATION IN MARINE FOULING COMMUNITIES |
|       | Pang, G.H.  
SEA OTTER RECOVERY DRIVES SHIFTS IN ROCKY REEF ECOSYSTEM NICHE SPACE |
|       | Lohse, D.P.  
COMPARING CURRENT TO HISTORIC/PUBLISHED RANGE LIMITS: A CAUTIONARY TALE |
|       | Clements, C.S.  
CORAL DIVERSITY ENHANCES THE GROWTH, HEALTH, AND RESISTANCE TO MACROALGAL INVASION OF CORAL COMMUNITIES ON DEGRADED REEFs |
| 1415  | Ng, C.A.  
THE EFFECTS OF OCEAN ACIDIFICATION AND HYPOXIA ON GRAZING INTERACTIONS WITHIN GIANT KELP FORESTS |
|       | Raymond, W.W.  
SEA OTTER HARVEST AND POPULATION DYNAMICS IN SOUTHEAST ALASKA |
|       | Wheelock, M.K.  
SHIFTING SPECIES BOUNDARIES: NATIVE AND INTRODUCED MUSSELS (MYTILUS spp.) ON THE PACIFIC COAST |
|       | Nakajima, R.  
PLANKTONIC TROPHIC STRUCTURE IN A CORAL REEF ECOSYSTEM - CLASSICAL VERSUS MICROBIAL FOOD WEBS AND THE PRODUCTION OF MESOZOOPLANKTON |
<table>
<thead>
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<th>Session 40: CYPRESS</th>
<th>Session 41: SPYGLASS</th>
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<td>PALEOENDEMISM INDICATES PLEISTOCENE REFUGE ON A SEAMOUNT CHAIN AND EXTINCTION EVENTS ON THE WESTERN ATLANTIC CONTINENTAL SHELF</td>
<td>HOST-MEDIATED SYMBIONT DIVERGENCE IN A BIOLUMINESCENT VERTEBRATE-MICROBE SYMBIOSIS</td>
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<td>ORIGINS OF HAWAIIAN REEF FAUNA: EVIDENCE FROM SISTER PAIRS OF PACIFIC BLENNIES</td>
<td>STRENGTH OR NUMBERS: EFFECTS OF COMPETITION AND RECRUITMENT ON THE SUCCESS OF AN INVASIVE BRYOZOAN</td>
<td>ENDEMIC STICKLEBACK ON HAIDA GWAI IS HOST TO RARE DINOFLAGELLATE WITH COMPLEX HISTORY</td>
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<td>PHYLOGENOMIC ANALYSIS OF POCILLOPORA CORALS PROVIDES EVOLUTIONARY INSIGHTS INTO RECENT DIVERSIFICATION</td>
<td>REEF-FISH ASSEMBLAGE-LEVEL EFFECTS OF THE INTRODUCED GROUPER (CEPHALOPHOLIS ARGUS) IN HAWAII</td>
<td>RESOURCE USE OF INVASIVE LIONFISH AND A NATIVE PREDATOR COMPARED USING STABLE ISOTOPE ANALYSIS OF EYE LENSES</td>
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<td>QUANTIFYING THE CAPACITY FOR GENETIC ADAPTATION TO OCEAN ACIDIFICATION IN TROPICAL CORALS</td>
<td>VARIABILITY IN THE TROPHIC ECOLOGY OF A MESOPELAGIC PREDATORY FISH ACROSS THE NORTH PACIFIC SUBTROPICAL GYRE</td>
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<td>STRESS TOLERANCE, MULTIPLE STRESSORS, AND EVOLUTION</td>
<td>EFFECTS OF INVASIVE PACIFIC LIONFISH ON A NATIVE CORAL-REEF FISH</td>
<td>UNDER PRESSURE: BIOMECHANICS OF BUOYANCY IN BULL KELP (NEREOCYSTIS LEUTKEANA)</td>
</tr>
<tr>
<td>1415</td>
<td>Mackie, J. A.</td>
<td>†Srednick, G.S.</td>
<td>†Moscoso, J.A.</td>
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<tr>
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<td>LINKING COPPER AND OTHER FACTORS IN THE SPREAD OF MARINE FOULING SPECIES</td>
<td>INFLUENCE OF THE STRUCTURE OF AN INVASIVE ALGA ON THE DISTRIBUTION AND BEHAVIOR OF FISHES</td>
<td>ASSORTATIVE MATING IN THE SEA URCHIN LYTECHINUS VARIEGATUS: COLOR VARIATION, GAMETE COMPATIBILITY AND PATTERNS OF AGGREGATION</td>
</tr>
</tbody>
</table>
**POSTER TITLES**

* indicates presenting author
† indicates eligibility for Best Student Paper/Poster Award

Posters will be displayed in the Monterey Ballroom by number

**Presenters:** Please have your poster on display at the correct number by no later than 08:45am.

1. †Alma, L*, Fiamengo, C, Padilla-Gamino, J. L.
   PHYSIOLOGICAL RESPONSES OF PURPLE-HINGE ROCK SCALLOP TO INCREASED PCO₂ AND TEMPERATURE

   EFFECTS OF HYPOXIA ON REPRODUCTIVE OUTPUT IN BLUE (SEBASTES MYSTINUS) AND BROWN (SEBASTES AURICULATUS) ROCKFISHES

   INVASION DYNAMICS AND POTENTIAL REMOVAL STRATEGIES OF RHODACTIS HOWESII AT PALMYRA ATOLL

   IMPLICATIONS OF EL NIÑO FOR SOUTHERN CALIFORNIA’S KELP FORESTS: EFFECTS OF TEMPERATURE ON INVASIVE SARGASSUM HORNERI

   TRANSGENERATIONAL IMPACTS OF PH AND TEMPERATURE ON EARLY STAGE PURPLE SEA URCHINS, S. PURPURATUS

   BIVALVES AS ECOSYSTEM ENGINEERS IN PATAGONIAN ROCKY SHORES

   THE ROLE OF ACCLIMATION ON THERMAL LIMITS OF THE CALIFORNIA MUSSEL, MYTILUS CALIFORNIANUS

   METABOLIC SHIFTS IN WHITE MUSCLE OF JUVENILE COPPER ROCKFISH IN RESPONSE TO CHRONIC HYPOXIA AND LOW PH EXPOSURE

9. Behrens, M.D.*, Troyer, S.M.
   OH MY OYSTERS: DETECTING AN ANOMALOUS RECRUITMENT EVENT OF PACIFIC OYSTERS USING CITIZEN SCIENCE

   SHELLS SHOW SENESCENCE: A BAHAMIAN MPA PROTECTS QUEEN CONCH WITHIN ITS BORDERS, BUT LOW RECRUITMENT SUGGESTS FUTURE INEFFECTICACY
AN ACCESSIBLE PH CONTROL SYSTEM TO ANALYZE THE GROWTH OF INTERTIDAL ORGANISMS IN ACIDIC CONDITIONS

DIEL VERTICAL MIGRATION OF HYDROMEDUSAE AT HIGH RESOLUTION IN THE NORTHERN GULF OF MEXICO

13. Braciszewski, A.R.*, German, D.P.  
RELATEDNESS AND DIFFERENTIAL DISEASE RESISTANCE IN EASTERN PACIFIC HALIOTIDS

LEPTASTERIAS SPP. AND SEA STAR WASTING DISEASE: A TEMPERATURE AND SALINITY CHALLENGE EXPERIMENT

15. Brenot, L.*, Lafayette, J.  
QUANTITATIVE ANALYSIS OF BLEACHING IN THE TEMPERATE ANEMONE A. ELEGANTISSIMA

16. †Briggs, L.M.*, Smith, J.R.  
THE EFFECTS OF OCEAN WARMING AND ACIDIFICATION ON SEAWEED GROWTH AND URCHIN GRAZING

17. Brown, K.R.*  
CHARACTERIZING ARROWTOOTH FLOUNDER, ATERESTHES STOMIAS, GUT CONTENTS BY CAPTURE DEPTH AND SIZE CLASS

18. †Bruning, P.*, Cardenas, L.  
APPLICATION OF MICROSATELLITE MARKERS IN CONSERVATION GENETICS AND FISHERIES MANAGEMENT OF CONCHOLEPAS CONCHOLEPAS (LOCO).

19. †Buchbinder, M.V.*, Boyer, K.E.  
FACILITATING SEDIMENT ACCRETION AND BIOTIC RECOVERY IN A SALT MARSH RESTORATION SITE

OLYMPIA OYSTER (OSTREA LURIDA) LARVAL ABUNDANCE IN NORTHERN AND CENTRAL PUGET SOUND

21. (POSTER CANCELLED)

22. †Canepa, J.A.*, terHorst, C.P.  
PHENOTYPIC VARIATION ACROSS THE RANGE OF THE LINED SHORE CRAB

RECENT UNPRECEDENTED PURPLE URCHIN POPULATION BOOM IN NORTHERN CALIFORNIA RAZES ALGAL SPECIES AND EXPOSES BARE ROCK REEF

GROWTH COMPARISONS OF LUTJANUS ARGENTIVENTRIS JUVENILES ACROSS THE MANGROVE FORESTS OF THE GULF OF CALIFORNIA
25. **Centoni, J.J.*, Moitoza, F.D., Jenkinson, R.J., Craig, S.F.**
   THE EFFECT OF MARINE PROTECTED AREAS ON HARVESTED ABALONE AND URCHIN ABUNDANCE IN NORTHERN CALIFORNIA

26. **Chang, E.*, Swoap, K., Patterson, L.B., Nishizaki, M.T.**
   FLUCTUATING TEMPERATURES AND THERMAL STRESS IN MUSSELS: TIME-DEPENDENT RESPONSES IN RESPIRATION, GENE EXPRESSION AND GROWTH

27. (POSTER CANCELLED)

28. †**Cimon, S.*, Cusson, M.**
   EFFECTS OF MULTIPLE DISTURBANCES AND STRESSES ON A BENTHIC EELGRASS COMMUNITY

29. **Clare, X.S.*, Deheyn, D.D.**
   EFFECTS OF OCEAN ACIDIFICATION ON THE BIOLUMINESCENCE OF THE BRI Steele, SQUAMATA

30. **Clay, A.N.*, DeSantiago, R.**
   ANTHROPOGENIC DEBRIS CONSUMPTION BY WETLAND FISHES

   JUVENILE ROCKFISH (SEBASTES SPP.) DO NOT SHIFT METABOLIC POISE UNDER OCEAN ACIDIFICATION

32. †**Contolini, G.M.*, Palkovacs, E.P., Raimondi, P.T.**
   EXPLORING LOCAL ADAPTATION IN COASTAL SHELL-DRILLING PREDATORS

33. **Cooper, L.M.***
   STORAGE MECHANISMS OF PTERYGOPHORA CALIFORNICA: HOW AN UNDERSTORY KELP CAN RECOVER FROM DISTURBANCE AND THRIVE

34. **Corbett, B.C.*, Walz, K., Michisaki, R.*, Chavez, F.**
   EXPLAINING EDNA METHODOLOGIES AS A WAY TO DETECT THE RELATIONSHIP BETWEEN JANUS KILL AND KRILL IN MONTEREY BAY CANYON

35. **Craig, S.F.*, Jenkinson, R.S., Centoni, J.J., Moitoza, F.D.**
   SPATIAL VARIATION IN ROCKY REEF COMMUNITY STRUCTURE OF FAR NORTHERN CALIFORNIA COAST MARINE PROTECTED AREAS

36. **Cruz, K*, Moises, T**
   ANALYSIS OF MICROPLASTIC DEBRIS IN SAND SEDIMANTS AND ROCKFISH DIGESTIVE TRACT

37. **Cuizon, R.M.*, Adams, N.L.**
   COMMERCIAL TOPICAL SUNSCREENS ARE DETRIMENTAL TO DEVELOPMENT OF THE PURPLE SEA URCHIN, STRONGYLOCENTROTUS PURPURATUS

38. **Dávila,D.*, Orr, D., Garza, C.**
   MULTI-SCALE LANDSCAPE EFFECTS ON BIODIVERSITY

39. **Dedrick, A.G.*, Botsford, L.W., Baskett, M.L.**
   QUANTIFYING THE INTERACTIONS AMONG OCEAN ACIDIFICATION,
TEMPERATURE, AND FISHING FOR MARINE INVERTEBRATES AT THE POPULATION LEVEL

40. †Donham, E.M.*, Kroeker, K.J., Powell, C., Peabody, C.
SCALING PHYSIOLOGY TO SPECIES INTERACTIONS: IMPACTS OF CLIMATE CHANGE ON GRAZER CONSUMPTION AND METABOLISM

41. †Drake, C.A.*, Geller, J.B., Hamilton, S.L.
SEXUAL AND ONTOGENETIC VARIATION IN DECORATION CHOICE OF THE MASKING CRAB, LOXORHYNCHUS CRISPATUS

42. Dudoit, A.*, Gaither, M., Coleman, R., Browne, W., Bowen, B., Toonen, R.J.
PHYLOGEOGRAPHY OF THE CIRCUMTROPICAL SHRIMP, STENOPUS HISPIDUS (CRUSTACEA: DECAPODA)

43. †Dunic, J.D.*
A LIVING CATALOGUE OF DATASETS FOR ECOLOGISTS

44. Edwards, C., Fewell, T.*, Eynaud, Y., Petrovic, V., Sandin, S.
DIGITIZATION ACCURACY IN TWO DIMENSIONAL AND THREE DIMENSIONAL CORAL REEF MODELS: AN ASSESSMENT OF CROWDSOURCING FEASIBILITY?

45. Eernisse, D.J.*
THE WANDERING MEATLOAF AND THE SPLIT-PLATE BROODER: EACH CHITON HAS A CRYPTIC SISTER SPECIES ACROSS THE NORTH PACIFIC

46. Esgro, M.*, Lindholm, J., Nickols, K.J., Bredvik, J.
ROLE OF A MILITARY RESTRICTED AREA IN PROTECTION OF FISH AND INVERTEBRATE COMMUNITIES AT SAN CLEMENTE ISLAND, CALIFORNIA

47. †Estores-Pacheco, K.*, Valdés, A.
PSEUDOCRYPTIC SPECIATION OF TWO EASTERN PACIFIC SEA SLUG SPECIES

48. Estrada, A.C.*, Steele, M.A.
KEY HABITATS FOR GREEN ABALONE (HALIOTIS FULGENS)

EFFECTS OF TIDALLY DRIVEN VARIATION ON THE RESPONSE OF CORALLINE ALGAE TO OCEAN ACIDIFICATION

50. Fernandez-Nieto, G. D.*, Johnson, L. E.
BEHAVIORAL RESPONSE OF LITTORINA SAXATILIS TO DAILY FLUCTUATIONS OF TEMPERATURE

51. †Fiamengo, C.J*, Alma, L., Stromberg, K, Padilla-Gamino, J.L.
EXPLORING POTENTIAL FOR GENETIC RESCUE IN WARMING OCEANS FOR MARINE MUSSELS

52. †Field, L.C.*, Gravem, S.A., Menge, B.A., Barreto, F.S.
ASSOCIATION BETWEEN GENOTYPES AT ELONGATION FACTOR 1- A LOCUS AND RECOVERY FROM SEA STAR WASTING DISEASE IN PISASTER OCHRACEUS

UNDER PRESSURE: INSTRUMENTATION METHODS AFFECT FUR SEAL PELT FUNCTION DURING SIMULATED DIVES
54. **Fiorenza, E.A.*, Tolimieri, N, Samhouri, J.F.**
EELGRASS WASTING DISEASE ALONG AN URBAN GRADIENT IN PUGET SOUND, WA

55. **Flynn, K.L.*, Harley, C.D.G.**
WEAKENING ADDUCTOR MUSCLE STRENGTH IN MUSSELS (*MYTILUS TROSSULUS, MYTILUS CALIFORNIANUS*) AS A CONSEQUENCE OF OCEAN ACIDIFICATION

56. **Frimodig, A.J.*, Wertz, S.P., Ota, B.T.**
CALIFORNIA’S MARINE PROTECTED AREA NETWORK: THE MONITORING AND RESEARCH PATH TOWARD MEETING ADAPTIVE MANAGEMENT OBJECTIVES

57. **Fuchs, C.E.*, Adam, T.C., Duran, A., Burkepile, D.E.**
SEDIMENT REMOVAL ON A CORAL REEF INCREASES TURF ALGAE REMOVAL AND CAUSES SPECIES-SPECIFIC HERBIVOROUS FISH GRAZING RESPONSES

58. **Fulton-Bennett, H.***
REPRODUCTIVE CONSEQUENCES OF MORPHOLOGICAL VARIATION IN *EGREGIA MENZIESII*

RHODOLITH BED COMMUNITY STRUCTURE AND ENERGY FLOW AT SANTA CATALINA ISLAND, CA

60. **†Garrido, I.*, Pardo, L. M., Valdivia N., Gomez, I., Johnson, L.**
THE IMPORTANCE OF MACROALGAL CANOPY COVER FOR SPECIES RICHNESS. THE CASE OF ASSEMBLAGES IN THE ROCKY SUBTIDAL OF ANTARCTICA

METAGENETIC ANALYSIS OF COMMUNITY DIVERSITY ON AN ECOLOGICAL GRADIENT THROUGH A KELP FOREST IN MONTEREY BAY, CALIFORNIA

62. **†Gonzalez, J.A.*, Ruiz, G.M., Chang, A.L., Boyer, K.E.**
DISTRIBUTION AND IMPACTS OF A NON-NATIVE CRAB ON CORDGRASS RESTORATION IN SAN FRANCISCO BAY: A PREDATOR-MEDIATED INTERACTION?

63. **Goodman, M.G.*, Hannah, S., Ruttenberg, B.I.**
THE RELATIONSHIP BETWEEN GEOGRAPHIC RANGE EXTENT AND ADULT TRAITS IN COASTAL TEMPERATE FISHES

64. **Gottlieb, E.R.F., Pearse, J.S.***
OWL LIMPET SIZES AND SEA STAR ABUNDANCES IN MONTEREY BAY: COMPARING ESTIMATES BY CITIZEN SCIENTISTS AND PROFESSIONALS.

65. **†Grady, KO*, Bourgeon, AM, Resner, EJ, Cornella, KN, Belanger, BG, Hardy, KM**
EFFECT OF OXYGEN-LIMITING TIDAL CONDITIONS ON MUSCLE METABOLISM AND STRUCTURE IN THE GIANT ACORN BARNACLE, *BALANUS NUBILUS*.

ARE CLAM GARDENS IDEAL NURSERY GROUNDS? HOW DO SHELL HASH ADDITIONS AFFECT SETTLEMENT AND EARLY SURVIVAL?
AWASH WITH CRABS: POPULATION GENETICS AND CONNECTIVITY OF A
GREGARIOUSLY SETTLING SHORE CRAB IN NORTHERN CALIFORNIA

68. †Grime, B.C.*, Reynolds, A., Claise, J., Ford, T.
GREEN ABALONE (HALIOTIS FULGENS) AQUACULTURE AND RESTORATION: A
COMPARISON OF WILD ABALONE AND CAPTIVE BROODSTOCK

69. Grupe, B.M.*, Curtis, J.M.R., Boschen, R.E., Jamieson, J.W., Juniper, S.K., Murdock,
S.A., Tunnicliffe, V.
ENDEAVOUR HYDROTHERMAL VENTS MPA CONSERVATION AND MANAGEMENT
SUPPORTED THROUGH MULTIDISCIPLINARY INSTITUTIONAL COLLABORATIONS

70. Guell, B.A.*, Kurle, C.M., Ream, R.R., Zeppelin, T.T.
DETERMINING NORTHERN FUR SEAL PUP WEANING WITH STABLE ISOTOPE AND
STOMACH CONTENT ANALYSES

71. †Hagerty, M.*, Reyns, N., Pineda, J.
DISTRIBUTION PATTERNS OF BARNACLE LARVAE IN LA JOLLA, CALIFORNIA
NEARSHORE WATERS

72. †Hainey, M.A.*, Emlet, R.B.
BURSAL VENTILATION AS A MEANS OF RESPIRATION IN GORGONOCEPHALUS
EUCNEMIS

73. Hannah, S.M.*, Muñoz, J.M., Lauer, A., McDonald, B., Mulcahy, C., Field, C.,
Johnson, S., Fontaine, C., Whoriskey, S., Liwanag, H.
COCCIDIOIDOMYCOSIS IN STRANDED MARINE MAMMALS ALONG CALIFORNIA’S
COAST

74. Hansen, G.I.*, Hanyuda, T., Kawai, H.
MARINE ALGAE ARRIVING ON JAPANESE TSUNAMI MARINE DEBRIS AND THEIR
INVASION THREAT TO THE SHORES OF OREGON AND WASHINGTON, USA

75. †Hargenrader, C.S.*, Reyns, N., Pineda, J., Fontaine, D.F.
LINKING BARNACLE LARVAL SUPPLY, SETTLEMENT, AND ADULT POPULATION
DYNAMICS WITHIN THE LA JOLLA, CALIFORNIA ROCKY INTERTIDAL

76. Harris, A.C.*, Schwartzkopf, B.D., Arbuckle, S., Heppel, S.A.
THE INFLUENCE OF SPRING TIDES AND LUNAR PHASE ON PLANKTON
ASSEMBLAGES AND JUVENILE ROCKFISH DIET IN YAQUINA BAY, OREGON

77. †Head, T.B.*
PROTEOMIC ANALYSIS OF THE CRUSTACEAN MOLTING GLAND (Y-ORGAN)
OVER THE MOLT CYCLE

78. Hendrickson, C.I.*
THE EFFECT OF ISLAND BIOGEOGRAPHY ON ISOLATED CORAL HEAD RICHNESS
AND ABUNDANCE ON MOOREA, FRENCH POLYNESIA

79. Himstead, A.H.*, Wright, W.G.
SURVIVAL WITHOUT A SHELL: EVOLUTIONARY LOSS OF CHEMICAL AND
COGNITIVE DEFENSES ASSOCIATED WITH PRECISE PREDATOR AVOIDANCE
80. **Hintz, M, Becker, B.J., Thomsen, E.M.**
THE OLYMPIA OYSTER OBSTACLE: A COMPARISON OF SIZE AND REPRODUCTIVE RATES OF OUR NATIVE OYSTER IN PUGET SOUND

81. **†Hollarsmith, J.A.*, Grosholz, E.D.**
LOCAL ADAPTATION IN GIANT KELP (*MACROCYSTIS PYRIFERA*) TO TEMPERATURE AND PH

82. **†Huffmyer, A.S.*, Putnam, H.M., Gates, R.D.**
PARENTAL INFLUENCE ON GROWTH AND SURVIVORSHIP PATTERNS OF JUVENILE *POCILLOPORA DAMICORNIS* CORALS EXPOSED TO THERMAL STRESS

83. **†Hull, W.W.*, Bourdeau, P.E.**
PREDATORY CRABS CAN INFLUENCE THE VERTICAL DISTRIBUTION OF MUSSELS ON ROCKY SHORES IN THE ABSENCE OF A KEYSTONE PREDATOR

84. **Ingeman, K.E.*, Novak, M., Hixon, M.A.**
NOVEL PREDATORS AND NAÏVE PREY: MODELING SUBOPTIMAL RESPONSES TO INTRODUCED PREDATORS

85. **†Jaco, E.M.*, Steele, M.A.**
SPECIES-SPECIFIC RESPONSES OF FISHES TO PROTECTION IN MARINE PROTECTED AREAS MEASURED WITH STEREO-VIDEO

86. **Jensen, M.M.*, Saladrigas, A.H., Bennett, A.E., Goldbogen, J.A.**
THREE-DIMENSIONAL MORPHOLOGY AND FLOW CHARACTERISTICS OF BALEEN

SEASONAL AND SPATIAL VARIATION IN ABORAL OSSICLE DENSITY AND BODY SHAPE IN PISASTER OCHRACEUS

RISING SEAS AND THE SAN DIEGO INTERTIDAL: UTILIZING LARGE AREA IMAGING FOR MAPPING AND FUTURE SEA LEVEL RISE IMPACT EVALUATION

EFFECTS OF PH AND DISSOLVED OXYGEN ON THE OTOLITH MORPHOLOGY OF COPPER ROCKFISH, *SEBASTES CAURINUS*

90. **Kashef, N.S*, Stafford, D.M., Sogard, S.M.**
EFFECTS OF HYPOXIA ON EMBRYONIC DEVELOPMENT, LARVAL MORTALITY AND CRITICAL SWIMMING SPEED IN ROCKFISHES (*SEBASTES SPP.*)

91. **Kay, S.W.C.*, Harley, C.D.G.**
INDIRECT BENEFITS OF SEA STAR WASTING DISEASE ON *EVASTERIAS TROSCHELII* VIA COMPETITIVE RELEASE FROM *PISASTER OCHRACEUS*

DO YOUR NEIGHBORS MAKE YOU CRABBY?: INDIRECT EFFECTS OF CLIMATE CHANGE ON INTERTIDAL PORCELAIN CRABS
93. Knight, A.*, Huntington, B., Watson, J.
   THROUGH THE EYES OF THE STEREO: EVALUATION OF SIZING ERROR IN A
   GOPRO™ STEREO CAMERA SYSTEM

   OCEAN ACIDIFICATION STUDY THROUGH SYSTEMS AND INQUIRY SCIENCE

95. †Kobluk, H.K.*, Krumhansl, K.A., Salomon, A.K.
   BALANCING CONSERVATION, FOOD SECURITY & POVERTY ALLEVIATION:
   EVALUATING SMALL-SCALE ARTISANAL HARVEST OF YAGA (EGREGIA
   MENZIESII)

96. †Kohl, W.T., McClure, T.I.*, Miner, B.G.
   DECREASED TEMPERATURE FACILITATES SHORT-TERM SEA STAR WASTING
   SURVIVAL IN THE KEYSTONE INTERTIDAL PREDATOR PISASTER OCHRACEUS

97. Konecny, C.A.*, Harley, C.D.G.
   FACTORS INFLUENCING THE DISTRIBUTION OF THE NONINDIGENOUS
   ANEMONE, DIADUMENE LINEATA, ALONG THE COAST OF BRITISH COLUMBIA

98. Korabik, A.R.*, Lonhart, S.
   UNDOING THE UNDARIA: AN ASSESSMENT OF MANAGEMENT STRATEGIES FOR
   THE INVASIVE SPECIES UNDARIA PINNATIFIDA IN MONTEREY BAY HARBOR

   KELP FOREST FISH COMMUNITY PRODUCTIVITY ON NEARSHORE REEFS ALONG
   THE CALIFORNIA COAST

100. †Kurman, M.D.*, terHorst, C.P.
   MACROCYSTIS PYRIFERA ZOOSPORE SETTLEMENT IN RESPONSE TO WARMING
   VARIES AT THE INDIVIDUAL AND POPULATION LEVEL

101. †Lamont, E.I.*, Emlet, R.B.
   SWIMMING KINEMATICS OF THE THORACICAN CYP RiDS OF BALANUS GLANDULA

102. Lawrence, K.A.*, Watson, J.L., Huntington, B.E.
   THE LIVING BENTHOS: A NEW METHOD FOR QUANTIFYING LIVING STRUCTURE
   FROM UNDERWATER VIDEO

103. †Leach, T.S.*, Wong, J.M., Hofmann, G.E.
   EXPLORING TRANSGENERATIONAL EFFECTS IN PURPLE SEA URC HINS: USING
   DNA METHYLATION TO LINK ADULT CONDITION TO PROGENY PERFORMANCE

104. Lecky, J.*, Oleson, K.L.L., Donovan, M.K., Wedding, L., Falinski, K., McCoy, K.,
   Kappel, C., Selkoe, K.
   ECOSYSTEM VULNERABILITY AND CUMULATIVE HUMAN IMPACTS ON HAWAIIAN
   REEFS

105. †Ledbeter, J.F.*, Hovel, K.A.
   HABITAT STRUCTURE AND FISH FORAGING: EFFECTS OF EELGRASS EPIBIONTS

106. †Lee, J.*, Micheli, F., Hughes, B.B., Kroeker, K.J., Peay, K.G.
   EFFECTS OF OCEAN ACIDIFICATION ON SURFGRASS INTERACTION WITH
   EPIPHYTES, GRAZERS, AND OPPORTUNISTIC MICROBES
   Metal ships, concrete modules, and rocky reefs: quantifying how reef type influences fish communities

108. †Lenz, E.A.*, van der Steeg, E., Gates, R.D.
   Utilizing intraspecific variation in bleaching response of a broadcast spawning coral to selectively breed higher tolerance

109. †Libunao, D.E.*, Edmunds, P.J.
   Long-term changes in the population structure of the Caribbean coral Favia fragum

110. †Logan, R.K.*, Lowe, C.G.
   Comparing temporally explicit and traditional home range estimators: a case study using data from three kelp forest gamefishes

   Assessment of ocean acidification and warming on the growth, calcification, and biophotonics of a California grass shrimp

112. Luongo, S.M.*, Lowe, C.G.
   Seasonally acclimated metabolic Q₁₀ of the California horn shark, Heterodontus francisci

113. Malloy, M.E*, Ul-Hasan, S, Sistrom, M.A
   Can the morphological variation of a common species, Califoruniconus californicus, inform us on coastal change in the Anthropocene?

   Fish movement and habitat characteristics in a tidally restricted urban lagoon

   Effects of ocean acidification and hypoxia on behavior and physiology of rockfishes (Sebastes spp)

   Sea otters may promote healthy eelgrass beds in southeast Alaska

117. †McAtee, K.J.*, Whitcraft C.R.
   Short term impact of sediment augmentation on vegetation and invertebrate communities in a southern California coastal wetland

118. McHugh, D.*, Schult, N., Rhodes, E., James, I., Reardon, K., Timmers, M.
   Using autonomous reef monitoring systems (ARMS) and DNA barcoding to assess polychaete diversity on Pacific coral reefs

119. McIntire, L.C.*, Bourdeau, P.E.
   The non-lethal effects of predators on predatory whelk, Nucella lamellosa, shell morphology
120. †McIntyre, S.L.*, Der, J.P., Zacherl, D.C., Walter, R.P.  
TRANSCRIPTOME RESPONSE TO THERMO-OSMOTIC STRESS IN CALIFORNIA’S NATIVE AND NON-NATIVE OYSTERS

121. †Meese, E.N.*, Lowe, C.G.  
DIEL MOVEMENTS AND FINE-SCALE ACTIVITY PATTERNS OF THE CA HORN SHARK, HETERODONTUS FRANCISCI

122. †Mejia Munoz, J.*, Hannah, S., Liwanag, H., McDonald, G., Mulcahy, C., Norris, T., Johnson, S., Palmer, L., Lauer, A.  
COCCIDIOIDOMYCOSIS IN RESCUED MARINE MAMMALS ALONG CALIFORNIA’S COAST

GOING WITH THE FLOW: CHANGES IN MUSSEL RECRUITMENT AND POPULATION SIZE OVER TIME

BARREN GONADS: A NON-LETHAL METHOD OF ASSESSING SEA URCHIN CONDITION IN A TEMPERATE KELP FOREST SYSTEM.

125. Moran, A.R.*, Barholomew-Good, L., Hultgren, K.M.  
SUBLETHAL EFFECTS OF LEAD POLLUTION ON INTERTIDAL CRUSTACEANS IN THE PUGET SOUND

126. †Munsterman, K.S.*, Davis, S.L., Holbrook, S.J., Schmitt, R.J.  
FUNCTIONAL ROLE OF A COMMON HERBIVORE IN MOOREA, FRENCH POLYNESIA

DEVELOPMENT AND DEPLOYMENT OF HIGH RESOLUTION OSMOTICALLY DRIVEN SAMPLING SYSTEMS TO TRACK NUTRIENT FLUX IN COASTAL MARINE SYSTEMS

WINTERTIME ZOOPLANKTON DIVERSITY IN ARTHUR HARBOR, ANTARCTICA PENINSULA

GEOGRAPHIC VARIATION IN THE STRUCTURE OF CALIFORNIA’S SANDY BEACH ECOSYSTEMS

effect of short- and long-term exposure to low ph and dissolved oxygen on swimming performance of juvenile rockfish

131. †Ostrowski, E.G.*, Bird, A., Eernisse, D.J.  
PREDICTIVE HABITAT MODEL OF PINTO ABALONE IN SAN DIEGO COUNTY, CALIFORNIA

132. Page, T*  
SUCCESION OF MARINE FOULING COMMUNITIES IN CHANNEL ISLANDS HARBOR, OXNARD, CALIFORNIA
133. Paguirigan, M.N.*, Durkin, C.A.
   INFLUENCE OF DIATOM MORPHOLOGY AND COMMUNITY COMPOSITION ON AGGREGATION IN MONTEREY BAY, CALIFORNIA

134. Pandori, L.L.M', Sorte, C.J.B.
   THE WEAKEST LINK: VULNERABILITY ACROSS LIFE STAGES OF MARINE INVERTEBRATES UNDER CLIMATE WARMING

   THE EFFECT OF MALE LIMITATION ON THE REPRODUCTIVE OUTPUT OF THE BLUEBANDED GOBY (LYTHRYPNUS DALLI)

136. Pearse, J.S.*
   MONITORING A SURFGRASS MEADOW IMPACTED BY DOMESTIC SEWAGE IN NORTHERN MONTEREY BAY, 1973-2016

137. Pearse, V.B.*, Hanks, H.E., Ceja, H.J.
   THE BLACK OYSTERCATCHER PROJECT: CITIZEN SCIENTISTS TRACK A BIRD OF CONSERVATION CONCERN

   OCEAN ACIDIFICATION AND HYPOXIA EFFECTS ON METABOLIC PERFORMANCE IN LARVAL BROWN ROCKFISH, SEBASTES AURICULATUS

139. Phan, M. E.*, Tissot, B
   A COMPARISON OF SEA STARS LIVING IN COASTAL AND BAY SITES AFTER SEA STAR WASTING DISEASE

140. Poirson, B.N.*, Menge, B.A., Gravem, S.A.
   THE EFFECT OF CLIMATE CYCLES AND UPWELLING ON ROCKY INTERTIDAL LOW ZONE COMMUNITIES IN OREGON AND NORTHERN CALIFORNIA

141. †Popovic, I*, Riginos, C
   NAVIGATING THE OMICS PIPELINE: INVESTIGATING THE HISTORY OF GENETIC ADAPTATION IN NATIVE AND GLOBALLY INVASIVE MARINE MUSSELS

   SEXUAL REPRODUCTION CONTINUES AFTER BLEACHING IN HAWAIIAN CORALS

   AGE DISTRIBUTIONS OF A LONG LIVED KELP REVEAL THE TIMING OF ALGAL RECOVERY FOLLOWING SEA OTTER RANGE EXPANSION

144. †Provost, M.M.*, Jones, S.B., Coleman, K.E., Clark, E.C., Stoll, J.S., Dubik, B.A.
   FISHERIES RESPONSE TO CLIMATE CHANGE DEPENDS ON SPATIAL SCALE

   VALIDATING A DIGITAL PHOTOGRAMMETRIC METHOD FOR NON-INVASIVE ESTIMATES OF LIMPET GROWTH IN THE FIELD
146. †Ramírez-Valdez, A.*, Bagur, M., Johnson, A.F., Aburto-Oropeza, O., Parnell, E., Dayton, P.K.
    100 YEARS OF RESEARCH ON KELP FOREST ECOSYSTEMS IN CALIFORNIA AND BAJA CALIFORNIA

    COMMUNITIES ASSOCIATED WITH A MASSIVE CRUSTOSE CORALLINE ALGAE REEF HABITAT IN THE WESTERN ALEUTIAN ISLANDS

148. †Resner, E.J.*, Belanger, B.G., Hardy, K.M.
    EFFECT OF OXYGEN LIMITING TIDAL CONDITIONS ON HEMOLYMPH PARAMETERS IN THE GIANT ACORN BARNACLE, BALANUS NUBILUS.

149. Rice, M.M.*, Burkepile, D.E.
    VARIATION IN CORALLIVORY AND WOUND HEALING ACROSS POCILLOPORA MORPHOLOGIES IN MOOREA, FRENCH POLYNESIA

150. †Richardson, Rachel L.*, Bob Carpenter
    HOW CRUSTOSE CORALLINE ALGAE RESPOND TO OCEAN ACIDIFICATION

151. Robinson, H.E.*, Strickler, J.R., Lenz, P.H.
    EATING FAST FOOD: THE EFFECT OF PREY ESCAPE BEHAVIOR ON PREDATION STRATEGIES OF LARVAL FISH THROUGH ONTOGENY

    EFFECT OF DIET ON GROWTH IN PODOCNEMIS UNIFIES: ASSESSING OPTIMAL DIETS FOR TURTLES IN CONSERVATION ORIENTED HEAD START PROGRAMS

    FLOATING FORESTS: VALIDATION OF A CITIZEN SCIENCE EFFORT TO ANSWER GLOBAL ECOLOGICAL QUESTIONS

    DIET-RELATED CHANGES IN THE FATTY ACID PROFILES OF THE ESTUARINE MYSID MESOPODOPSIS SLABBERI

155. †Saldaña, P.H.*, Anderson, T.W.
    IMPACTS OF PREDATOR DIVERSITY ON SUBTIDAL RED ALGAE-ASSOCIATED INVERTEBRATE ASSEMBLAGES

156. †Salter, N.*, Roberts, C., Dudus, S., Rowell, K., Salomon, A.K.
    ANCIENT CLAM GARDENS: EXPLORING CULTURAL AND ECOLOGICAL MECHANISMS THAT ENHANCE CLAM PRODUCTION

    CARRY-OVER EFFECTS OF FERTILIZATION IN STRESSFUL CONDITIONS ON RED ABALONE (HALIOTIS RUFESCENS) LARVAL DEVELOPMENT

158. †Satterthwaite, E.V.*, Morgan, S.G., Harvey, J.B., Ryan, J.P., Vrijenhoek, R.C.
    EFFECTS OF SEASONAL VARIATION IN OCEANOGRAPHY ON LARVAL ASSEMBLAGES IN THE NORTHERN MONTEREY BAY, CA UPWELLING SYSTEM
159. Shapiro, S.J.*, Bourdeau, P.E.
GASTROPOD CALISTHENICS- AN INVESTIGATION OF RIGHTING SPEED AND TENSILE STRENGTH IN THE INTERTIDAL WHELK NUCella ostrina

CHARACTERIZATION OF PELAGIC BIODIVERSITY AT DAVIDSON SEAMOUNT

161. Shrestha, J.*, Hamilton, S.L.
FISH-DERIVED NUTRIENTS IN KELP FORESTS: THE INFLUENCE OF MARINE RESERVES ON A HIDDEN NITROGEN SOURCE

162. Sidun, A.F.W.*, Wright, W.G.
SLIGHT ACIDITY ABOLISHES CHEMICALLY MEDIATED PREDATOR AVOIDANCE BEHAVIOR IN AN INTERTIDAL HERMIT CRAB

163. Soto, K.J.*, Kim, S.
HABITAT PREFERENCES OF INVERTEBRATES IN THE NEAR VENT ENVIRONMENT OF THE LAU BASIN

164. †Speare, K.E.*, Duran, A., Fuchs, C., Burkepile, D.E.
INTERACTIONS OF CORAL RECRUITS AND JUVENILE CORALS WITH SEDIMENT AND ALGAE ON REEFS IN THE FLORIDA KEYS

165. †Spector, P*
CHARACTERIZING HOW THE LOSS OF CANOPY FORMING ALGAE EFFECTS PATTERNS OF NET COMMUNITY PRODUCTION ON TEMPERATE ROCKY REEFS

166. †Spitzer, C.A.*, Anderson, T.W., Sikkel, P.C.
PARASITE-MEDIATED PREDATOR-PREY INTERACTIONS IN CALIFORNIA COASTAL FISHES

167. Stafford, D.M.*, Kashef, N.S, Sogard, S.M.
EFFECTS OF HYPOXIA ON EMBRYOLOGY OF SEBASTES: FROM EGG TO LARVA

168. Steele, M., Guest, M.*, Adreani, M., Pang, S.
REPRODUCTIVE SUCCESS OF SMALL MALES OF LYTHERYPS DALLI, BLUEBANDED GOBY, POPULATION ON SANTA CATALINA ISLAND.

169. Sternberg, D.R.*, Bramanti, L., Edmunds, P.J.
ASPERGILLOSIS INFECTIONS MEDIATE POPULATION SIZES OF GORGONIA VENTALINA ON TWO SHALLOW REEFS IN ST. JOHN, US VIRGIN ISLANDS

170. †Stirling, B.S.*, Johnson, D.W.
YOU ARE WHAT YOU EAT: AMONG-POPULATION VARIATION IN DIET OF BLACK SURFPERCH (EMBIOTOCA JACKSONI)

171. Swanson, K.L.*, Taylor, K.J., Goshorn, G.V., Bourdeau, P.E.
SNAIL WARFARE: AN INVASIVE SPECIES BEHAVIORAL RESPONSE TO NATIVE CRABS

172. †Tasoff, A.J.*, Johnson, D.W.
CAN LARVAE OF A MARINE FISH ADAPT TO OCEAN ACIDIFICATION?
173. Thisner, T. J.*, Boch, C., Barry, J. P.
EFFECTS OF OCEAN ACIDIFICATION ON SPERM MOTILITY IN THE RED ABALONE
(HALIOTIS RUFESCENS)

AN INTEGRATIVE INTERTIDAL ZOOPLANKTON TRAP CAPABLE OF SAMPLING
OVER MULTIPLE TIDAL CYCLES AND IN DETRITUS-LADEN WATERS.

175. Thornhill, L, Becker, B.J.*, Gonzaga, J, ThomSEN, E
INTO THE DEEP EXHIBIT: TEACHING THE PUBLIC ABOUT MARINE LIFE AND
ENVIRONMENTAL ISSUES

176. †Turner, M.S.*, Ruesink, J.L., Good, T.P.
HABITAT ASSOCIATION ACROSS FUNCTIONAL AND TAXONOMIC GROUPS OF
WATERBIRDS: A CITIZEN SCIENCE APPROACH

177. Tyler K. B.*, Carpenter R.
EFFECTS OF OCEAN ACIDIFICATION FOR DIFFERENT MORPHOLOGIES OF
HYDROLITHON REINBOLDII CORALLINE ALGAE

178. Uyeoka, A.K.*, Pearse, J.S.
TRACKING THE GROWTH OF BAT STARS (PATIRIA MINIATA) AND HOPKINS ROSE
NUDIBRANCHS (OKENIA ROSACEA) IN THE FIELD

179. Valley, J.R.*, Emlet, R.B.
LIFE IN THE BALANCE: DISTRIBUTION AND DEVELOPMENT OF ASYMMETRIC
VELA

KELLETS WHELK PROTEOMICS REVEALS COLD-STRESS COSTS TO MOVING
POLEWARD IN RESPONSE TO CLIMATE CHANGE

181. Vásquez, V.E.*, Ebert, D.A.
"IT'S HAMMERTIME!": UNCOVERING THE SECRETS OF AN ICONIC SHARK WITH
CITIZEN SCIENCE

182. †Vilalta, A.*, Montaño, G., Aguilar, L.E., Torres, G., Ramirez, A.
IMPORTANCE OF M. PYRIFERA AND THE UNDERSTORY ALGAE AS HABITAT FOR
FISH IN BAJA CALIFORNIA KELP FOREST

183. †Voisinet, M.P.*, Vasquez, M.C., Elowe, C., Crocker, D.E., Tomanek, L.
PROTEOMIC RESPONSE OF ELEPHANT SEAL PUPS, MIROUNGA
ANGUSTIROSTRIS, TO PROLONGED FASTING

184. Wade, C.*, Downs, J., Armco, I., Lindholm, J.
FISH USE OF LOW-RELIEF, SOFT-BOTTOM BENTHIC HABITATS ON CENTRAL
CALIFORNIA’S CONTINENTAL SHELF

185. Walker, J.K.*, Long, J.D.
BURROWING CRABS ALTER SALT MARSH PLANT COMMUNITY COMPOSITION

186. Wallingford, P.D.*, Sorte, C.J.B.
CLIMATE CHANGE AND SHIFTING FOUNDATIONS: PREDATOR-PREY
RELATIONSHIPS ACROSS LOCAL AND LATITUDINAL GRADIENTS
187. Watson, J.C.*
DECADAL SCALE CHANGES IN LONG-LIVED KELP POPULATIONS REFLECT HISTORICAL AND ENVIRONMENTAL FACTORS

188. Watson, J.L.*, Lawrence, K.A., Huntington, B.E.
HABITAT ASSOCIATIONS FOR NEARSHORE ROCKFISH FROM AN UNCONVENTIONAL SOURCE

EARLY LIFE HISTORY OF CRABS IN PRIBILOF ISLANDS NEARSHORE HABITAT AND POTENTIAL FOR REBUILDING OF ALASKAN BLUE KING CRAB

190. E. Wenger*, M. Rivera, J. Dillon, C. Whitcraft
THE IMPACTS OF SEA LEVEL RISE ON DECOMPOSER COMMUNITIES IN CALIFORNIA SALT MARSHES

191. Wickliff, C.L.*, Wendt, C.A., Ryan, J.S., Moore, Dr S.W., Nelson, Dr P.A.
USING INEXPENSIVE MATERIALS TO SURVEY CORAL REEFS ECOSYSTEMS ON ULITHI ATOLL

192. †Williams, C.M.*, Claisse, J.T., Coogan, G.C., Moffly, S.L.
SPATIAL DIFFERENCES IN LIFE HISTORY PARAMETERS OF A NON-FISHED POMACENTRID HYPSPYOPS RUBICUNDUS IN THE SOUTHERN CALIFORNIA BIGHT

OCEAN TIPPING POINTS: SYNTHESIZING AND COMMUNICATING DATA FOR EFFECTIVE MARINE MANAGEMENT

194. †Wise, M. M.*
NUTRIENT FLUX AND ALGAL BIOMASS DYNAMICS IN TIDALLY RESTRICTED REGIONS OF THE ELKHORN SLOUGH

195. Xu, A.X.*, Hoese, W.J., Zacherl, D.C.
AVIAN USE OF MUDFLAT HABITAT PRIOR TO LIVING SHORELINES RESTORATION

196. Yarbrough, Alora*, Martin, K. L. M.
POTENTIAL EFFECTS OF CLIMATE CHANGE ON EMBRYONIC DEVELOPMENT OF CALIFORNIA GRUNION

197. Yeager, M.E.*, Hovel, K.A.
SCALING UP: USING AN INDIVIDUAL BASE MODEL TO EXAMINE THE EFFECTS OF HABITAT STRUCTURE ON NURSERY HABITAT FUNCTION

198. Yoshioka, R.M.*, Galloway, A.W.E.
INTEGRATING PHOTOGRAPHY INTO NATURAL HISTORY, SCIENCE, AND COMMUNICATION

MESOPREDATOR RELEASE: MORAY EELS INCONSPICUOUSLY PREDOMINATE HEAVILY FISHED REEFS
200. Zimmermann, S.A.*, Edmunds, P.J.
    MICROHABITAT SELECTION BY JUVENILE SCLERACTINIANS AND OCTOCORALS IN ST. JOHN, U.S. VIRGIN ISLANDS

201. Zippay, M.L., Hosek, K.E.*
    THE CELLULAR STRESS RESPONSE OF *MYTILUS EDULIS* TO TEMPERATURE VARIATION AND PREDATION RISK

EXHIBITORS PRESENT AT SUNDAY POSTER SESSION

- Marine Reserves Program, Oregon Department of Fish and Wildlife
- CenCOOS (Aric Bickel)
- CSU Monterey Bay/NOAA Research Experience for Undergraduates (REU) program (Corey Garza)
Alongside our usual range of topics, the meeting includes sessions of contributed talks focused on the Special Topics listed below. Please see the schedule for session times and locations.

FRIDAY: SPECIAL TOPICS FOR CONTRIBUTED TALKS

- **Variability in the Strength of Top-Down Control**: This session honors Bob Paine’s contribution to understanding how predators shape the structure and function of ecological communities, while exploring new ideas about the factors that govern the strength of top-down control. (Chairs: Jennifer Ruesink, University of Washington, and Chris Harley, University of British Columbia)

- **Evaluating Marine Protected Areas**: This session explores the performance of marine protected areas, and includes studies with diverse approaches ranging from field surveys and monitoring, to modeling efforts that evaluate network performance. (Chairs: Alexandra Barron, Canadian Parks and Wilderness Society; Emily Saarman, UC Santa Cruz)

- **Seascape Genetics**: This session explores ways to advance the use of seascape genetic methods to illuminate marine population structure and local adaptation, including efforts to meet the goals of ecosystem-based management. (Chair: Eric Crandall, CSU Monterey Bay)

- **Coralline Algae in the NE Pacific**: This session focuses on the biodiversity, biogeography, and ecology of coralline algae, including their value as model organisms for studies of ocean acidification and biomechanics. (Chairs: Patrick Martone, University of British Columbia; Paul Gabrielson, UNC Chapel Hill)

- **Conservation Technologies**: This session explores new technologies and methodologies that augment our traditional approaches to understanding natural history, improve our ability to manage resources, or transform the speed with which we can respond to rapidly unfolding events. (Chair: Sean Anderson, CSU Channel Islands)

SATURDAY: SPECIAL TOPICS FOLLOWING PRESIDENTIAL SYMPOSIUM

- **Comparative/Biogeographic Ecology**: Population and community ecology at biogeographic scales including the use of experiments that examine geographic variation in ecological processes, studies of range limits, or other large-scale questions. (Chair: Emmett Duffy, Smithsonian Institute)

- **Climate Change and Phenology**: Incorporating natural history information to understand responses of communities and ecosystems to a changing environment. (Chair: Mary O’Connor, University of British Columbia)

- **Genetic and Genomic Approaches to Ecology**: New studies using genetic or genomic tools to examine questions about organismal biology, ecology, physiology, and evolution. (Chair: Rick Grosberg, UC Davis)

- **Microbial and Disease Ecology in a Changing Ocean**: Advances in understanding the role of microorganisms in the ecology of plants and animals, including the ecology of disease and host-pathogen interactions. (Chair: Drew Harvell, Cornell University)
Dr. Mike Graham’s Recommended Local Restaurants
(within ~1.0 to 2.0 miles of the Hyatt Regency Hotel)
“I have been to every one -- they are all great.” – Mike Graham

(1) **Randy’s Sandwich Shop** (1193 10th St, Monterey). Phone: (831) 375-9161.
(2) **Esteban Restaurant** (Casa Munras Garden Hotel & Spa; 700 Munras Ave, Monterey). Phone: (831) 375-0176.
(3) **Ambrosia Indian Bistro** (565 Abrego St, Monterey). Phone: (831) 641-0610.
(4) **RG Burgers** (570 Munras Ave, Monterey). Phone: (831) 372-4930.
(5) **Bull and Bear Whiskey Bar and Taphouse** (479 Alvarado St, Monterey). Phone: (831) 655-3031.
(6) **Poke Lab** (475 Alvarado St, Monterey). Phone: (831) 200-3474.
(7) **Britannia Arms** (444 Alvarado St, Monterey). Phone: (831) 656-9543.
(8) **Alvarado Street Brewery** (426 Alvarado St, Monterey). Phone: (831) 655-2337.
(9) **Monterey’s Fish House** (2114 Del Monte Avenue, Monterey). Phone: (831) 373-4647.
(10) **Chili’s Grill and Bar** (1349 Canyon Del Rey Boulevard, Seaside). Phone: (831) 393-0598.
(11) **Ichi-Riki Japanese Restaurant** (1603 Del Monte Boulevard, Seaside). Phone: (831) 394-7733.
(12) **Turtle Bay Taqueria** (1301 Fremont Boulevard, Seaside). Phone: (831) 899-1010.
(13) **Fishwife Seafood Cafe** (789 Trinity Avenue, Seaside). Phone: (831) 394-2027.
(14) **Breakfast Club** (1130 Fremont Boulevard, Seaside). Phone: (831) 394-3238.
(15) **Black Bear Diner** (2450 N Fremont St, Monterey). Phone: (831) 645-9700.