2009

Southern California Academy of Sciences 2009 Session Schedule

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Southern California Academy of Sciences 2009 Session Schedule

Friday, May 29, 2009
Location: Cecilia 214

Session: Sustainable Fisheries
Chair: Mark Helvey

1 8:20 RECONCILING FISHING WITH ENVIRONMENTAL SUSTAINABILITY
Mark Helvey. NOAA National Marine Fisheries Service, Southwest Region, Sustainable Fisheries Division, Long Beach, CA 90802

2 8:40 ASSESSING POST-RELEASE MORTALITY FOR COMMON THRESHER SHARKS CAPTURED IN THE SOUTHERN CALIFORNIA RECREATIONAL FISHERY
G. Heberer1; C.A. Sepulveda2; S.A. Aalbers3; D. Bernal3; S. Kohin4; National Marine Fisheries Service, Southwest Region, 6010 Hidden Valley Drive, Carlsbad, CA. 92011 2Pfleger Institute of Environmental Research, Oceanside, CA.; 3University of Massachusetts, Dartmouth, Dartmouth, MA; 4National Marine Fisheries Service, Southwest Fisheries Science Center, La Jolla, CA.

3 9:00 SEALED OFF FROM THE FISH: EVALUATING A MODIFICATION TO PREVENT MARINE MAMMAL DEPREDATION ON CALIFORNIA HALIBUT TRAWL GEAR

4 9:20 NOAA FISHERIES SERVICE ETHICAL ANGLER PROGRAM
M.F. Golden. NOAA Fisheries Service, Long Beach, CA 90802

5 9:40 FISHES AND FISHING IN THE LOS ANGELES RIVER
Sabrina L. Drill1 and Camm Swift2. 1UC Cooperative Extension, Los Angeles County, 4800 E. Cesar Chavez Ave., Los Angeles, CA 90022; 2Entrix, Inc. 2140 Eastman Ave # 200, Ventura, CA 93003

10:00–10:20 BREAK

6 10:20 THE NATIONAL MARINE FISHERIES SERVICE SOUTHWEST REGION OBSERVER PROGRAM’S ROLE IN REDUCING BYCATCH AND MANAGING SUSTAINABLE FISHERIES.

7 10:40 FEDERAL STATUTORY FRAMEWORK FOR ACHIEVING ECOSYSTEM SUSTAINABILITY DURING FISHING OPERATIONS IN CALIFORNIA
Christina C. Fahy National Marine Fisheries Service – Southwest Regional Office; 501 W. Ocean Blvd.; Suite 4200; Long Beach, California 90802

8 11:00 CENTRAL COAST GROUNDFISH PROJECT: PARTNERSHIP DRIVEN EFFORT TO IMPROVE CONSERVATION OF GROUNDFISH RESOURCE THROUGH FISHING HARVEST REFORM
Michael Bell. Project Director, The Nature Conservancy, San Luis Obispo, CA, 93401

11:30–12:30 Plenary Lecture; Auditorium
Bill Patzert, Jet Propulsion Laboratory
The Oceans Under Stress...The Future Ain’t What It Used To Be.

12:30–1:20 LUNCH BREAK
Friday, May 29, 2009  
Location: Cecilia 214

Session: Soft Bottom Marine Ecology  
Chair: M. James Allen: SCCWRP

9 F 1:40 STUDIES OF TWO INDIGENOUS FLATFISH, PACIFIC SANDDAB AND ENGLISH SOLE, IN SANTA MONICA BAY – SEASONAL AND LOCATION-ASSOCIATED DIFFERENCES IN SEX STEROID LEVELS  
D.M. Petschauer, C. Cash, J.A. Reyes and K.M. Kelley  
Environmental Endocrinology Lab, Marine Biology Program, California State University, Long Beach, Long Beach, CA 90840

10 2:00 BATHYMETRIC RESPONSES IN FUNCTIONAL STRUCTURE OF SOUTHERN CALIFORNIA SOFT-BOTTOM FISH COMMUNITIES TO CHANGING OCEAN CONDITIONS  
M. J. Allen, Southern California Coastal Water Research Project, Costa Mesa, CA 92626.

11 2:20 SPAWNING-RELATED MOVEMENTS OF BARRED SAND BASS, *PARALABRAX NEBULIFER*, IN SOUTHERN CALIFORNIA: INTERPRETATIONS FROM TWO DECADES OF HISTORICAL TAG AND RECAPTURE DATA.  

12 F 2:40 HABITAT USE AND THE EFFECTS OF HABITAT BREAKS ON THE MOVEMENTS OF TEMPERATE GAMEFISHES IN A SOUTHERN CALIFORNIA MARINE PROTECTED AREA  
T. Mason and C.G. Lowe. California State University Long Beach, Department of Biological sciences, Long Beach, CA, 90840.

3:00–3:20 BREAK

13 3:20 FIELD RESEARCH AT CABRILLO MARINE AQUARIUM: LONG-TERM MONITORING OF LOCAL MARINE HABITATS  

14 3:40 MEGABENTHIC INVERTEBRATES OF THE UPPER CONTINENTAL SLOPE OFF SOUTHERN CALIFORNIA  
Don Cadien, Marine Biology Lab, Sanitation Districts of Los Angeles County, Carson, CA, 90745

15 4:00 CAN SEDIMENT PROFILE IMAGING ENHANCE TRADITIONAL BENTHIC ASSESSMENTS?  
J. Ananda Ranasinghe¹ and Giancarlo Cicchetti². ¹Southern California Coastal Water Research Project (SCCWRP), Costa Mesa, CA 92626 and ²US Environmental Protection Agency, Narragansett, RI 02882.

16 4:20 THE SANDY BEACH ECOSYSTEM AS AN INTEGRATED WHOLE: COMPONENTS, CONNECTIONS, AND CONCERNS  
K. L. Martin and J. E. Dugan. Pepperdine University, Department of Biology, Malibu, CA, 90253 and University of California, Santa Barbara, Marine Science Institute, Santa Barbara, CA, 93106.

5:00–7:00 Poster Session
Friday, May 29, 2009  
Location: Cecilia 216

Session: Contributed Papers  
Chair: John Dorsey, Loyola Marymount University

17 8:00  INDICATION OF PROTEIN PRESERVATION IN THE FOSSIL WHALE BONES OF THE MIOCENE/PLIOCENE PISCO FORMATION, PERU  
U.L. Vidal1, D.S. Boskovic1,2, L.R. Brand1. 1Department of Earth and Biological Sciences, School of Science and Technology, Loma Linda University, Loma Linda, CA, 92350. 2Division of Biochemistry, School of Medicine, Loma Linda University, Loma Linda, CA, 92350.

18 E 8:20  SLUG SEX, REPRODUCTIVE INTERFERENCE, AND ALLEE EFFECTS AT A SHIFTING RANGE BOUNDARY  
A.S. Llaban and P.J. Krug. California State University Los Angeles, Department of Biological Sciences, Los Angeles, CA 90032.

C.P. Kofron and F.X. Villablanca. U.S. Fish and Wildlife Service, Ventura, CA; and Department of Biological Sciences, California Polytechnic State University, San Luis Obispo.

20 9:00  FROM DOT LOCALITIES TO AN UPDATED DISTRIBUTION MAP: REFINING THE DISTRIBUTION PATTERN OF THE RARE “COMMON GARTERSNAKE” (THAMNOPHIS SIRTALIS) IN THE SEMI-ARID SOUTH COAST BIOREGION OF CALIFORNIA.  
Edward L. Ervin1 and Clark R. Mahrdt2. 1Associate Biologist, Merkel & Associates, Inc., 5434 Ruffin Road, San Diego, CA 92123; 2Research Assistant, San Diego Natural History Museum, Dept. of Herpetology, P.O. Box 121390, San Diego, CA 92112-1390

21 E 9:20  FLUCTUATING AND TRANSLATIONAL ASYMMETRY AS INDICATORS OF STRESS FOR COASTAL WETLAND PLANTS  
LaRie Burgoyne, Daryle Hinton-Hardin, Gianna Ramos, Mackenzie Shribbs, and Dr. Philippa M. Drennan, Loyola Marymount University, Department of Biology, Los Angeles, CA 90045

22 E 9:40  EVALUATING CONTAMINANTS IN AN ENDANGERED SPECIES INHABITING AN URBANIZED COASTAL ECOSYSTEM: BIOACCUMULATION AND HEALTH EFFECTS IN THE EAST PACIFIC GREEN TURTLE (CHELONIA MYDAS) IN SAN DIEGO BAY  
Lisa Komoroske1, Rebecca Lewison1, Peter H. Dutton2, Jeffrey Seminoff2, Dimitri Deheyn3; 1San Diego State University; 2NOAA- Southwest Fisheries Science Center; 3Scripps Institution of Oceanography

10:00–10:20 BREAK

Friday, May 29, 2009  
Location: Cecilia 216

Session: Climate Change  
Chair: Ann Dalkey, Palos Verdes Peninsula Land Conservancy

23 10:20  EVERYONE CAN MAKE A DIFFERENCE: REDUCING GREENHOUSE GAS EMISSIONS AT THE LOCAL LEVEL.  
Dalkey, A. Palos Verdes Peninsula Land Conservancy, Rolling Hills Estates, CA, 90274
<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Title</th>
<th>Authors/Institution</th>
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<tbody>
<tr>
<td>28</td>
<td>2:00</td>
<td>BLACK FLY (DIPTERA: SIMULIIDAE) DISTRIBUTION, DIVERSITY, AND ANTHROPOGENIC INFLUENCES ON LARVAL ABUNDANCE IN THE UPPER SAN GABRIEL RIVER CATCHMENT (LOS ANGELES COUNTY, CALIFORNIA).</td>
<td>C.W. Solek, Southern California Coastal Water Research Project, Watersheds Department, Costa Mesa, CA, 92626.</td>
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<tr>
<td>29 E</td>
<td>2:20</td>
<td>SETTLEMENT OF OSTREA LURIDA AS A FUNCTION OF TIDAL HEIGHT IN NEWPORT BAY, CALIFORNIA</td>
<td>L.A. Sam and D.C. Zacherl. California State University, Fullerton. Department of Biological Science.</td>
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<tr>
<td>30 E</td>
<td>2:40</td>
<td>ALGAL CONTROL BY PHOSPHATE RESTRICTION IN SHALLOW, FRESHWATER LAKES</td>
<td>T. M. Magrann, S. G. Dunbar, PhD, and D. Boskovic, PhD. Marine Research Group, Loma Linda University, Department of Earth and Biological Sciences, Loma Linda, CA, 92350.</td>
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<tr>
<td>31 E</td>
<td>3:20</td>
<td>THE PHYTOREMEDIATION CAPACITY OF BACCHARIS SALICIFOLIA WITH RESPECT TO COPPER SEQUESTRATION</td>
<td>Cordale Johnson, John Thomlinson, and Connie Vadheim Roth, Cal State University Dominguez Hills, Department of Biology, Carson, CA, 90747.</td>
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<tr>
<td>32 E</td>
<td>3:40</td>
<td>THE PRODUCTION OF ACOUSTIC SIGNALS IN THE HOUSE CRICKET ACHETA DOMESTICUS: MORPHOLOGICAL INFLUENCE ON CALLING SONGS.</td>
<td>D. Lim and S.E. Walker. California State University, Fullerton, Department of Biological Science, Fullerton, CA, 92831.</td>
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</tbody>
</table>
Friday, May 29, 2009
Location: View Room

Session: Poster Session and Wine and Cheese Social 5–7 P.M.

33 E 4:00 EFFECT OF EXOTIC ANNUAL GRASS REMOVAL ON THE RE-ESTABLISHMENT OF COMMON NATIVE OAK UNDERSTORY SPECIES ON SANTA CATALINA ISLAND, CA
Matthew P. Sutton and Darren R. Sandquist. California State University, Fullerton, Department of Biological Science, Fullerton, CA, 92834-6850.

34 E 4:20 ARE ALL LARVAE CREATED EQUAL? LIPID VARIATION IN KELLETIA KELLETII LARVAE ACROSS THEIR GEOGRAPHIC RANGE.
S.L. Kelley and D.C. Zacherl. Southern California Ecosystems Research Program, California State University, Fullerton, Department of Biology, Fullerton, CA, 92831.

A.W. Fredell and D. C. Zacherl, California State University Fullerton, Fullerton, CA, 92834

5:00–7:00 Poster Session

Friday, May 29, 2009
Location: View Room

Session: Poster Session and Wine and Cheese Social 5–7 P.M.

36 COMPARISON OF TWO URBAN WETLAND SITES USING BENTHIC MACROINVERTEBRATES AND ABIOTIC VARIABLES
D. A. Anaya and John R. Thomlinson, California State University, Dominguez Hills, Department of Biology, Carson, CA, 90747

37 E THE EFFECTS OF LIGHT AND FEEDING CYCLES ON FEEDING ANTICIPATORY BEHAVIORS OF THE BAY PIPEFISH, SYNGNATHUS LEPTORHYNCHUS
K. Bayley, H. Chu and M. Estrada. University of California Los Angeles, Department of Ecology and Evolutionary Biology, Los Angeles, CA, 90024

38 E CORRELATION BETWEEN FREQUENCY OF MARINE LEECH (Malmiana buthi) INFECTION AND THE SIZE OF ITS FISH HOST (Oligocottus snyderi)
Noelle Bidegainberry, Alison Fujii, and Larisa Pender-Healy, Dept. of Ecology and Evolutionary Biology, UCLA

39 P COMBINED GEOCHEMICAL AND DIGENETIC PROCESSES CONTROL THE CADMIUM ENRICHEMENT IN SEDIMENTARY ROCKS OF SOUTHERN TOGO, WEST AFRICA
M.H. REZAIE-BOROON, California State University, Los Angeles, CA, mrezaie@calstatela.edu, RAMIREZ, P., California State University, Los Angeles, CA, pramir@calstatela.edu, GNANDI, K., University of Lome, Togo, kgnandi@yahoo.fr

40 F DEVELOPMENT OF THE HEART AND QUANTIFICATION OF SPONGY VERSUS COMPACT MYOCARDIUM IN ENDOThERMIC AND ECTOTHERMIC SCOMBRID FISHES
Doreen Emilee Carpio, Lori Critchfield, and Kathryn Dickson; California State University of Fullerton, Department of Biological Science; Fullerton, CA 92831

41 E INTROGRESSION OF MITOCHONDRIAL DNA BETWEEN CATOSTOMUS FUMEVENTRIS AND CATOSTOMUS SANTAANAE (CYPRINIFORMES: CATOSTOMIDAE) IN THE SANTA CLARA DRAINAGE
Chris Chabot¹, Donald Buth¹, Camm Swift², Jonathan Sim¹, Thomas Dowling³, Larry Allen³¹UCLA, Los Angeles, CA, ²Entrix, Inc., Ventura, CA, ³Arizona State University, Tempe, AZ, ⁴California State University, Northridge, CA

42 A COMPARISON OF CURRENT AND HISTORICAL SHOREBIRD POPULATIONS IN VENTURA COUNTY: PRELIMINARY RESULTS
Angela Chapman, Donald A. Rodriguez, Christopher Kahler, Christina Fahim, Lisa Winfrey and Amanda Goldstein. Biology and Environmental Science and Resource Management Programs, One University Drive, California State University Channel Islands, Camarillo, CA 93012
A STING TO DIE FOR: RELATIONSHIP BETWEEN VENOM AVAILABILITY AND PREDATORY AND DEFENSIVE STINGING BEHAVIOR IN THE CENTIPEDES *SCOLOPENDRA POLYMORPHA* AND *S. SUBSPINIPES*

A.M. Cooper, G.A. Fox, D.R. Nelsen, and W.K. Hayes. Loma Linda University, Department of Earth and Biological Sciences, Loma Linda, CA, 92350.

HOW DANGEROUS ARE BABY RATTLE SNAKES? ORIGIN AND PREVALENCE OF A DEFANGED MYTH

A.G. Corbit and W.K. Hayes, Department of Earth and Biological Sciences, Loma Linda University, Loma Linda, CA, 92350.

STORMWATER PLUME DEVELOPMENT IN SANTA MONICA BAY, CA (USA)

A.A. Corcoran, K.M. Reifel, B.H. Jones and R.F. Shipe. Department of Ecology and Evolutionary Biology, University of California Los Angeles, Los Angeles, CA, 90095; Marine Environmental Biology, Department of Biological Sciences, University of Southern California, Los Angeles, CA, 90089; Institute of the Environment, University of California Los Angeles, Los Angeles, CA, 90095.

MICROCLIMATE TRENDS FOR THREE SPECIES OF COASTAL SAGE SCRUB ON THE PALOS VERDES PENINSULA.


AGGREGATING BEHAVIOR AND SPECIES PREFERENCE IN THREE SPECIES OF GUNNEL: *Apodichthys flavidus*, *Apodichthys fucorum* and *Pholis ornamenta*.

T. Duong, J. Gov, and G. Liu. UCLA, Department of Ecology and Evolutionary Biology, Los Angeles, CA, 90095.

COMPARISON OF DIGESTIVE ENZYME ACTIVITIES IN THE ENDOTHERMIC MAKO SHARK AND THE ECTOTHERMIC BLUE SHARK

Ali Forghani, Ramtin Khanipour, and Kathryn Dickson; California State University of Fullerton, Department of Biological Science; Fullerton, CA 92831

VENOM YIELD AND CHARACTERISTICS IN THE DESERT HAIRY SCORPION (*HADRURUS ARIZONENSIS*)

G.A. Fox, W.K. Hayes, A.M. Cooper, and D.R. Nelsen. Department of Earth and Biological Sciences, Loma Linda University, Loma Linda, CA, 92350.

TEMPORAL TRENDS IN SOUTHERN CALIFORNIA SURF FISH POPULATIONS


TOLERANCE INTERVALS OF BIOINDICATORS CHARACTERIZE REFERENCE CONDITIONS FOR SOFT BOTTOM MACROFAUNA OFF SAN DIEGO, SOUTHERN CALIFORNIA

Nick Haring, Tim Stebbins, Ron Velarde; City of San Diego Marine Biology Laboratory, Metropolitan Wastewater Department, San Diego, CA 92101


DISTRIBUTION AND ABUNDANCE OF JUVENILE *POCILLOPORA SP.* AND ENCRUSTING CORALLINE ALGAE ON OCEANOGRAPHIC MOORINGS AROUND MOOREA, FRENCH POLYNESIA

A.K. James, Moorea LTER, University of California Santa Barbara, Department of Ecology Evolution and Marine Biology, Santa Barbara, CA, 93117.

TO SPECIATE OR NOT TO SPECIATE?: POPULATION STRUCTURE OF *HAMINOEA VESICULA* (OPISTHOBRANCHIA: HAMINOEIDAE) IN THE NORTH-EAST PACIFIC

Bonnie R. Lei, Walnut High School, 400 North Pierre Road, Walnut, CA 91789; Department of Biological Sciences, California State Polytechnic University, Pomona, 3801 West Temple Avenue, Pomona, CA 91768-4032
55 E THE IMPACT OF FIGHTING STRESS ON LIFESPAN IN THE HOUSE CRICKET (*ACHETA DOMESTICUS*)
W. Liu, C. Mac, and S. E. Walker. Department of Biological Science, California State University Fullerton, Fullerton CA 92831

56 E DO WOODY CHAPARRAL SPECIES FACILITATE RECRUITMENT OF ISLAND OAKS ON CATALINA ISLAND?
Miguel A. Macias, Matthew P. Sutton and Darren R. Sandquist. California State University, Fullerton, Department of Biological Science, Fullerton, CA, 92834-6850.

57 ENVIRONMENTAL METAPHORS IN SCIENCE AND SOCIETY: WORKFLOW OF THE CASE STUDY “THE ELEPHANT AND THE OAK TREE”
V.G. Minnich. University of California, Santa Barbara. Donald Bren School of Environmental Science and Management. Santa Barbara, CA, 93106.

58 M POSSIBLE ROLE OF KIDNEY CHROMAFFIN CELLS IN CRANIAL ENDOTHERMY IN THE ALBACORE TUNA, *Thunnus alalunga*
H. Musharbash and K.A. Dickson, Department of Biological Science, California State University Fullerton, Fullerton, CA, 93831

59 POKE BUT DON’T PINCH: RISK ASSESSMENT AND DEFENSIVE BEHAVIORS OF THE WESTERN WIDOW SPIDER (*LATRODECUTUS HESPERUS*)
D.R. Nelsen, A.M. Cooper, G.A. Fox, and W.K. Hayes. Loma Linda University, Department of Earth and Biological Sciences, Loma Linda, CA, 92350.

60 E ECOLOGY OF AN INTERTIDAL LEECH: EXPANDING THE RANGE OF *MALMIANA BUTHI*
J.C. Notar and J. Gessow. University of California, Los Angeles, Department of Ecology and Evolutionary Biology, Los Angeles, CA, 90095.

61 AERIAL THERMAL IMAGERY AND PLANT DIVERSITY IN POST-FIRE ENVIRONMENTS OF THE NORTH MOUNTAIN EXPERIMENTAL AREA
Mark E. Parlow, Marcia G. Narog, Jan L. Beyers, David R. Weise, Philip J. Riggan, and Anna Wrona. USDA Forest Service, Riverside, California, 92507

62 THE USE OF ROTENONE AS MEANS OF INCREASING SURVEY BIODIVERSITY IN THE ROCKY INTERTIDAL ZONE
C.R. Pospisil, Rene Carbajal and Suong Tran. Department of Ecology and Evolutionary Biology, UCLA, Los Angeles CA, 90095-1606

63 E AN HERBARIUM STUDY OF THE PHENOLOGY OF FOUR WET-SEASON DECIDUOUS TROPICAL PLANT SPECIES
J. Quintanilla, L. Gabrielian, and V. Carmona-Galindo. Department of Biology, Loyola Marymount University, Los Angeles, CA 90045.

64 E DO Medicago truncatula SEEDS PERCEIVE NOD FACTOR?
N.R. Rahman, G.Ramírez, and G. Brelles-Mariño, California State Polytechnic University, Biological Sciences Department, 3801 W. Temple Ave., Pomona, CA 91768.

65 EVIDENCE FOR SIMILAR CLIMATIC CONDITIONS DURING DEPOSITION OF THE PALEOCENE SILVERADO AND LAS VIRGENES FORMATIONS OF SOUTHERN CALIFORNIA AND THE EOCENE IONE FORMATION OF CENTRAL CALIFORNIA
P.G. Ramirez and A.C. Hamane, Department of Geological Sciences, California State University, Los Angeles Los Angeles, CA 90032

66 M AN INVESTIGATION OF THE MECHANISM OF METHOXYCHLOR IMPACT ON THE DEVELOPMENT OF THYMOCYTES.
Sergio Sandoval, University of La Verne Biology Department, 1950 Third St. La Verne, CA 91750

67 E DISTRIBUTION OF MYLITUS AND PISASTER AT THE LOS ANGELES RIVER OUTLET

68 F EFFECTS OF DELAYED HATCHING ON DEVELOPMENT AND SWIMMING SPEED IN THE CALIFORNIA GRUNION, *LEURESTHES TENUIS*
Treybig, Tracie; Degrassi, Allyson; Casillas, Ernesto; Hessom, Elizabeth; Ramos, Elaine.

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69  E  THE DISTRIBUTION AND BEHAVIOR OF THE INTERTIDAL LEECH Mahliana buthi  AS OBSERVED IN THE ROCKFISH TANK AT THE BODEGA MARINE LABORATORY
Ashleigh Berger, David Lau, Christina Truong. Department of Ecology and Evolutionary Biology, University of California, Los Angeles, 90024

70  E  TEMPERATURE REQUIREMENTS FOR GERMINATION OF THE SAND VERBENAS Abronia Maritima S. AND Abronia Umbellata L.
Kristine Tulio and Philippa M Drennan, Loyola Marymount University, Department of Biology, Los Angeles, CA 90045

71  P  IDENTIFYING CULTURABLE BACTERIA FROM DEL REY LAGOON, LOS ANGELES COUNTY, DURING FLOOD AND EBB TIDAL FLOWS
Jennifer T. Valdez1, Julie Huh2, John H. Dorsey3, Loyola Marymount University, Department of Civil Engineering, Los Angeles, CA 900451, Marlborough School, Los Angeles, CA 900042, Loyola Marymount University, Natural Science Department, Los Angeles, CA 900453

72  E  SEXUAL DIMORPHISM IN HOUSE CRickets (ACHETA DOMESTicus) AND Gryllus Pennsylvanicus
B.D. Narcisse1, K. Vuong1, J. Andrew Roberts2, and S. E. Walker1. 1Department of Biological Science, California State University Fullerton, Department of Biology, Fullerton, CA, 92831. 2Department of Evolution, Ecology, and Organismal Biology, The Ohio State University at Newark, Newark OH, 43055

73  M  THE EFFECTS OF AGE AND STRESS ON THE IMMUNE RESPONSE OF MALE AND FEMALE HOUSE CRICKETS (ACHETA DOMESTICUS)
K. Celeste, E. Hill, and S. E. Walker Department of Biological Science, California State University Fullerton, Fullerton, CA, 92831.

74  E  OCULAR MUSCLES AS A HEAT SOURCE FOR CRANIAL ENDOThermY IN THE SHORTFIN MAKO SHARK, Isurus OXYRINCHUS
N.P. West and K.A. Dickson, California State University Fullerton, Department of Biological Science, Fullerton, CA, 92831.

75  E  EFFECTS OF RECENT FIRE ON PLANT DIVERSITY ALONG CHAPARRAL FUEL BREAKS
Anna M. Wrona, Marcia G. Narog, Tim Paysen, Jan L. Beyers, USDA Forest Service Pacific Southwest Research Station, Riverside, California, 92507.

Saturday, May 30, 2009
Location: Cecilia 214
Session: Reef Biology
Chair: Daniel Pondella III, Occidental College
79 E 9:40 A TEST FOR CORRELATED RECRUITMENT OF PREDATOR AND PREY SPECIES OF KELP FOREST FISHES
J.M. Krug and M.A. Steele. California State University, Northridge, Department of Biology, Northridge, CA, 91330.

10:00–10:20 BREAK

Eric F. Miller, MBC Applied Environmental Sciences, Costa Mesa, CA

81 10:40 THE ROCKY REEFS OF THE SOUTHERN CALIFORNIA BIGHT
D.J. Pondella, II. Department of Biology and Vantuna Research Group, Moore Laboratory of Zoology, Occidental College, 1600 Campus Rd. Los Angeles, CA 90041

82 11:00 THE ICHTHYOPLANKTON OF KING HARBOR, REDONDO BEACH, CALIFORNIA, 1974–2006
D. J. Pondella, II, J. P. Williams and E. F. Miller. Department of Biology and Vantuna Research Group, Moore Laboratory of Zoology, Occidental College, 1600 Campus Rd. Los Angeles, CA 90041. MBC Applied Environmental Sciences, 3000 Red Hill Ave., Costa Mesa, CA 92626

11:30–12:30 Plenary Lecture: Location: Auditorium
Dr. Ann Scarborough Bull, Minerals Management Service
Outlook On The Outer Continental Shelf For Offshore Energy

12:30–1:20 LUNCH BREAK

83 1:40 15 YEARS OF PLATFORM FISH RESEARCH SOMEHOW REDUCED TO A 15 MINUTE SOUNDBITE
M. S. Love and M. Nishimoto, Marine Science Institute, University of California, Santa Barbara, 93106. D. S. Schroeder, Minerals Management Service, 770 Paseo Camarillo, CA 93010.

84 2:00 HABITAT FORMING INVERTEBRATES ASSOCIATED WITH OIL PLATFORMS IN THE SANTA BARBARA CHANNEL: POSSIBLE ALTERNATIVE STABLE STATES
H.M. Page, J.E. Dugan, C.S. Culver, and S.C. Schroeter, Marine Science Institute, University of California, Santa Barbara, CA, 93117.

85 2:20 SITE FIDELITY PATTERNS OF GROUNDFIshES ASSOCIATED WITH PLATFORMS IN THE SANTA BARBARA CHANNEL.
C.G. Lowe, K.M Anthony, E.T. Jarvis, L.F. Bellquist, and M.S. Love. California State University Long Beach, Dept. of Biological Sciences, Long Beach, CA 90840. Marine Science Institute, University of California Santa Barbara, Santa Barbara, CA 93106

86 F 2:40 HOMING AND HABITAT USE OF ROCKFISHES AROUND OIL PLATFORMS IN THE SANTA BARBARA CHANNEL.
K.M. Anthony and C.G. Lowe. California State University Long Beach, Department of Biological Sciences, Long Beach, 90840.

3:00–3:20 BREAK

87 3:20 FISH RECRUITMENT AT PLATFORMS IS LINKED TO OCEAN CURRENT PATTERNS
M.M. Nishimoto, L. Washburn, M.S. Love, D.M. Schroeder and B.M. Emery. Marine Science Institute, University of California, Santa Barbara, CA 93117; Department of Geography, UCSB; Institute for Computational Earth System Science, UCSB; Minerals Management Service, Pacific OCS Region, Camarillo, CA
88  3:40  SAN PEDRO SHELF PLATFORM FISH ASSEMBLAGES AND RELATIONS TO HABITAT QUALITY
     C.J.B. Martin*, B.J. Allen, and C.G. Lowe. Department of Biological Sciences, California State University, Long Beach, CA 90840

89 F  4:00  THE SITE FIDELITY AND DEPTH DISTRIBUTION OF SHALLOW OCCURRING NEARSHORE REEF SPECIES INHABITING OFFSHORE PETROLEUM PLATFORMS ON THE SAN PEDRO SHELF
     Carlos Mireles and Christopher G. Lowe, Department of Biology, California State University Long Beach, 1250 Bellflower Blvd, CA, 90840

90  4:20  WHAT CAN OIL PLATFORM STUDIES TELL US ABOUT THE POTENTIAL ECOLOGICAL CONSEQUENCES OF OFFSHORE RENEWABLE ENERGY?

Saturday, May 30, 2009
Location: Cecilia 203

Session: Archaeology

Chair: Edgar Huerta and Steven James, CSU Fullerton

91  1:40  RETHINKING THE PARADIGM: THE CLAY ARTIFACTS FROM CA-ORA-64, THEIR SIGNIFICANCE, AND PLACE WITHIN THE EARLY CERAMIC COMPLEX OF SOUTHERN CALIFORNIA AND ADJACENT REGIONS.
     Edgar Huerta. Department of Anthropology, California State University, Fullerton, 800 N. State College Blvd., Fullerton, CA 92831.

92  2:00  ZOOARCHAEOLOGICAL EVIDENCE FOR A TRANS-HOLOCENE "BROAD-SPECTRUM REVOLUTION" ON THE CALIFORNIA COAST.
     Judith F. Porcasi. Cotsen Institute of Archaeology at UCLA, Los Angeles, CA, 90095

93  2:20  SAN CLEMENTE ISLAND STEATITE SOURCING
     Amy L. Tupa. California State University Long Beach, Department of Anthropology, Long Beach, CA 90840

94  2:40  THE NINTH CHANNEL ISLAND: ARCHAEOLOGICAL INVESTIGATIONS AT ABALONE COVE ON THE PALOS VERDES PENINSULA.
     Steven R. James and Gary Jones. Department of Anthropology, California State University at Fullerton, P.O. Box 6846, Fullerton, CA 92834-6846.

3:00–3:20  BREAK

Saturday, May 30, 2009
Location: Cecilia 203

Session: Paleontology

Chair: Mark Roeder, San Diego Natural History Museum

95  3:20  MARINE DINOFLAGELLATES FROM THE OLIGOCENE OTAY FORMATION, SAN DIEGO COUNTY, SOUTHERN CALIFORNIA
96 3:40 STRATIGRAPHIC LEAKAGE OF TERTIARY PALYNOMORPHS INTO BEDFORD CANYON FORMATION LIMESTONE, SANTA ANA MOUNTAINS, SOUTHERN CALIFORNIA

97 4:00 NEOGENE HERPETOFAUNAS FROM LOUISIANA, USA AND THEIR BIOGEOGRAPHICAL AND PALEOENVIRONMENTAL SIGNIFICANCE
M. J. Williams Natural History Museum of Los Angeles County, Department of Vertebrate Paleontology, Los Angeles, CA 90007

98 4:20 LATE PLEISTOCENE FOSSILS FROM THE PACIFIC CITY PROJECT SITE IN HUNTINGTON BEACH, SOUTHERN CALIFORNIA
M.A. Roeder, Department of Paleontology, San Diego Natural History Museum P.O. Box 121390, San Diego, CA 92112.

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Saturday, May 30, 2009

Location: Cecilia 216

Session: Contributed Papers

Chair: John Roberts, California State University, Dominguez Hills

99 E 1:20 POPULATION DYNAMICS AT A SHIFTING RANGE BOUNDARY BETWEEN SISTER SPECIES OF ESTUARINE SEA SLUG: ROLE OF THE PHYSICAL ENVIRONMENT VERSUS LARVAL SUPPLY
M.N. Garchow and P. Krug. CSU Los Angeles, Department of Biology, Los Angeles, CA, 90032.

100 E 1:40 NITRIC OXIDE SIGNALING REGULATES LARVAL METAMORPHISIS IN A HOST-SPECIALIZED SEA SLUG.
M. R. Romero and P. J. Krug, California State University, Los Angeles, Department of Biology, Los Angeles, CA 90032.

101 E 2:00 COMPARATIVE PHYLOGEOGRAPHY OF CARIBBEAN SEA SLUGS WITH LONG-LIVED VS. SHORT-LIVED LARVAE
Danielle Y. Trathen California State University, Los Angeles

102 E 2:20 STABLE ISOTOPE ANALYSIS OF A SEAGRASS FOOD WEB IN SAN DIEGO BAY
J.P. Farlin, Fish Ecology Laboratory, San Diego State University, San Diego, CA, 92115.

103 M 2:40 DOCUMENTATION OF THYROID ENDOCRINE DISRUPTION IN PACIFIC STAGHORN SCULPIN (LEPTOCOTTUS ARMATUS) AND SHINER SURFPERCH (CYMATOGASTER AGGREGATA) RESIDING IN SAN FRANCISCO BAY
Brar NB1,2, Waggoner CM1,2, Reyes JA1,2, Fairey R3, and Kelley KM1,2 1Environmental Endocrinology Laboratory Department of Biology, CSULB, CA 90840. 2Institute for Integrated Research on Materials, Environment, and Society, CSULB, CA 90840. 3Marine Pollution Studies Laboratory, Moss Landing Marine Laboratories, CA

3:00–3:20 BREAK

104 F 3:20 FACTORS THAT ELICIT A SWITCH IN LARVAL DEVELOPMENT OF THE SEA SLUG ALDERIA WILLOWI
Dominique Gordon and Patrick Krug . Biological Sciences, California State University, Los Angeles
PROGRAM

105  3:40  SURVIVAL AT THE EDGE: ECOPHYSIOLOGY AND RANGE LIMITS OF ALDERIA
    E.L. Shimer and P.J. Krug, California State University, Los Angeles,
    Department of Biology, Los Angeles, CA 90032

106  4:00  POSSIBLE MACROBENTHIC COMMUNITIES IN THE DEEPEST OCEAN HADAL TRENCHES
    Kent D. Trego, Nautilus Oceanic Institute, La Jolla, California 92037

107  4:20  INTERNAL OCEAN SURFACING ON THE JUPITER SATELLITES EUROPA AND GANYMEDE
    K.D. Trego, Nautilus Oceanic Institute, La Jolla, CA 92037

108  4:40  EVAPORATION OF OCEANS ON THE SURFACE OF MARS
    Kent D. Trego, Nautilus Oceanic Institute, La Jolla, CA 92037

Saturday, May 30, 2009
Location: Cecilia 202
Session: Research Training Program Session I
Chair: Richard Schwartz

109  8:20  COMPARATIVE HISTOLOGY OF THE DIGESTIVE TRACT IN THE SOUTH AMERICAN PARASITIC CATFISHES (TELEOSTEI, TRICHOMECTERIDAE)
    Diep, Brian1, Jonathan N. Baskin2, Andrew Chen2 San Gabriel High School, San
    Gabriel, CA, 917762, California State Polytechnic University Pomona, Depart-
    ment of Biological Sciences, Pomona, CA, 917682

110  8:40  CRYPTIC SPECIES AND SYNONYMS: A RECLASSIFICATION OF THE TROPICAL SPURIlla GENUS
    Bonnie R. Lei, Walnut High School, 400 North Pierre Road, Walnut, CA 91789.
    Department of Biological Sciences, California State Polytechnic University,
    Pomona, 3801 West Temple Avenue, Pomona, CA 91768-4032.

111  9:00  AN ANALYSIS OF COYOTE AND FOX DIETARY HABITS IN THE PALOS VERDES LAND PRESERVES, PALOS VERDES PENINSULA, LOS ANGELES COUNTY, CALIFORNIA
    Mitchell, Alayna1; Dalkey, Ann2 Torrance High School, 2200 West Carson
    Street, Torrance, CA 905011 Palos Verdes Peninsula Land Conservancy, 916
    Silver Spur Road, Suite 207, Rolling Hills Estates, CA 902742

112  9:20  ANTS AS SYMBIOTIC PARTNERS AND HABITAT QUALITY INDICATORS FOR GLAUCOPSYCHE LYGDAMUS PALOSVERDESSENSIS, THE PALOS VERDES BLUE BUTTERFLY
    Ariel Takayanagi; Palos Verdes High School

113  9:40  DYNAMICS OF FECAL INDICATOR AND OTHER BACTERIA DURING VARYING TIDAL CONDITIONS IN DEL REY LAGOON, PLAYA DEL REY, CALIFORNIA
    J.J. Huh, J.T. Valdez, J. Dorsey. Leonetti-O'Connell Honors Research in Science,
    Loyola Marymount University and Marlborough School, Department of Natural
    Sciences, Los Angeles, CA, 90015 and 90004.

10:00–10:20 BREAK

114  10:20  AN INVESTIGATION OF RADIOISOTOPEs AND E.COLI LEVELS IN SANTA MONICA BEACH
    A. R. Kelleghan Notre Dame Academy, Los Angeles, CA and University of
    Southern California, Los Angeles, CA

115  10:40  THE EFFECT OF DENITRIFICATION ON METHANOGENESIS IN CONSTRUCTED WETLANDS
    Sumit Mitra, University High School, Irvine, CA

http://scholar.oxy.edu/scas/vol108/iss2/6
116 11:00 EFFECTS OF DROUGHT CONDITIONS ON THE WATER RELATION AND PHOTOSYNTHETIC CO₂ UPTAKE OF INVASIVE AND NATIVE PLANTS OF CALIFORNIA

Suh Y. Woo

Teacher Peter Starodub, Mentor Dr. Rasoul Sharifi, Research conducted at University of California, Los Angeles, Department of Ecology and Evolutionary Biology

11:30–12:30 Plenary Lecture: Auditorium
Dr. Ann Scarborough Bull, Minerals Management Service
Outlook On The Outer Continental Shelf For Offshore Energy

12:30–1:20 LUNCH BREAK

Saturday, May 30, 2009
Location: Cecilia 202

Session: Research Training Program Session II

Chair: Martha Schwartz

117 1:40 MPP+ MEDIATES CALPAIN ACTIVATION IN PRIMARY NEURONS: A FLUORESCENT BASED ANALYSIS OF A PARKINSONIAN MODEL

Alexa Aranjo, Mr. Martin Byhower, Chadwick School; Professor Michel Baudry
University of Southern California

118 2:00 CONSTRUCTION OF HUMAN RECOMBINANT IgA1 SPECIFIC TO M1 MANNAN ON CANDIDA ALBICANS CELL SURFACE

Elizabeth Hong, Nicole Johnson, and Mason Zhang Ph.D. California State University Long Beach 1250 Bellflower Blvd, MICR 202E Long Beach, CA 90268

119 2:20 EXTRACELLULAR WNT/β-CATENIN AUTOCRINE SIGNALING SUPPORTS A MALIGNANT PHENOTYPE EVEN WITHOUT INTRACELLULAR WNT PATHWAY MUTATION IN COLON CANCER

Andrius Planutis
University High School, Irvine, California, and University of California, Irvine, 3800 Parkview Lane #8B, Irvine, California 92612, pandrys@gmail.com

120 2:40 EFFECTS OF ALCOHOL CONSUMPTION ON LEFT VENTRICULAR FUNCTION AND CALCIFICATION

Wu, Helena (Hao); Teacher Peter Starodub, Mentor Dr. Budoff and Dr. Mao, Research conducted at Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center

3:00–3:20 BREAK

121 3:20 IMPROVING ELEVATOR SCHEDULING EFFICIENCY BY IMPLEMENTING A SMARTER CONTROLLER

Kenny Lei
Walnut High School, 400 N. Pierre Road, Walnut, CA 91789.
California State Polytechnic University, Pomona, 3801 W. Temple Avenue, Pomona, CA 9176

122 3:40 PROPARGYL METHYL ETHERS: NOVEL PRECURSORS TO COBALT-COMPLEXED PROPARGYL CATIONS

Sarine Shahmirian and Gagik G. Melikyan
California State University Northridge, Department of Chemistry and Biochemistry, Northridge, CA, 91330

123 4:00 EQUUS MATERIAL FROM THE LA HABRA FORMATION, RALPH B. CLARK REGIONAL PARK, BUENA PARK, ORANGE COUNTY, CALIFORNIA.