

2008

## Southern California Academy of Sciences 2008 Session Schedule

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*Southern California Academy of Sciences 2008 Session Schedule*

*Friday, May 2, 2008*

*Location: LU Student Union 324*

**Session: Wildland Fire and Wildlife Habitat**

Chair: Sabrina Drill, UC Cooperative Extension

- 1      8:00    **IMPACTS OF POST-FIRE GEOLOGICAL PROCESSES ON AMPHIBIAN AND FISH HABITAT IN SOUTHERN CALIFORNIA.**  
R.N. Fisher, A.R. Backlin, C.J. Rochester, and S.H. Cannon. USGS Western Ecological Research Center, San Diego, CA, rfisher@usgs.gov, abacklin@usgs.gov, crochester@usgs.gov; USGS Central Region Geologic Hazards Team, Denver, CO, cannon@usgs.gov
- 2      8:20    **IMPACTS OF FIRE ON SANTA ANA SPECKLED DACE: A REDUCTION OF POPULATION AND GENETIC BIODIVERSITY IN SOUTHERN CALIFORNIA**  
A.E. Metcalf, P. VanMeter and J. VanMeter. Dept. of Biology, California State University, San Bernardino, 5500 University Pkwy, San Bernardino, CA 92407
- 3      8:40    **ARTHROPOD RECOLONIZATION AFTER DISTURBANCE BY FIRE: THE IMPORTANCE OF LOCAL VS. LANDSCAPE PROCESSES.**  
R. A. Redak and J. C. Burger, Department of Entomology, John T. Rotenberry, Department of Biology, University of California, Riverside, 92521 and M. A. Patten, Oklahoma Biological Survey, Norman Oklahoma 73019
- 4      9:00    **A SHORT-TERM EVALUATION OF A LONG-TERM RESEARCH PROBLEM: DESERT TORTOISES, THEIR HABITATS AND FIRE.**  
T.G. Esque, K. Drake, L.A. DeFalco, K.E. Nussear, S. Scoles-Sciulla, and P.A. Medica, US Geological Survey, Western Ecological Research Center, 160 N. Stephanie St., Henderson, Nevada 89074.
- 5 E    9:20    **EFFECTS OF FIRE ON RODENTS IN SAGEBRUSH-JUNIPER HABITATS OF THE MOJAVE DESERT.**  
C.M. Moore and P. Stapp, California State University, Fullerton, Department of Biological Science, Fullerton, CA, 92831.
- 6      9:40    **ACTIVE MANAGEMENT AIDS RECOVERY OF BURNT NATURAL LANDSCAPES**  
Carl E. Bell, Regional Advisor – Invasive Plants, University of California Cooperative Extension, San Diego, CA 92123
- 10:00–10:20    **BREAK**
- 10:20    **NEW RESEARCH PRIORITIES, QUESTION AND ANSWER SESSION**  
Tom Scott, UC Riverside, University of California Cooperative Ext.
- 7      10:40    **SUSTAINABLE AND FIRE-SAFE LANDSCAPES**  
Sabrina Drill, UC Cooperative Extension - Los Angeles County, 4800 E. Cesar E. Chavez Ave., Los Angeles, CA 90022
- 8      11:00    **CHAPARRAL DOES NOT “NEED” TO BURN: CORRECTING FIRE ECOLOGY MYTHS ABOUT MEDITERRANEAN SHRUBLANDS.**  
Richard W. Halsey, Director, California Chaparral Institute, PO Box 545, Escondido, CA 92033
- 11:30–12:30    **Plenary Lecture: LaCorte Hall A-103**  
Jon E. Keeley, USGS, Western Ecological Research Center, Sequoia-Kings Canyon Field Station, Three Rivers, CA 93271, USA, and Department of Ecology and Evolutionary Biology, University of California, Los Angeles, CA 90095, USA
- 9      “FIRE AS AN ECOSYSTEM PROCESS: PAST, PRESENT AND FUTURE”
- 12:30–1:20    **LUNCH BREAK**

*Friday, May 2, 2008*

*Location: LU Student Union 324*

**Session: Ecology and Conservation of California Sage Scrub**

Chair: Daren Sandquist, CSU Fullerton

- 10      1:20      **EFFECTS OF N DEPOSITION ON RIVERSIDEAN SAGE SCRUB**  
Edith B. Allen, Department of Botany and Plant Sciences, University of California, Riverside, 92521
- 11      1:40      **COASTAL SAGE WATER RELATIONS AND POTENTIAL INVASIBILITY**  
A.L. Jacobsen and R.B. Pratt. California State University, Bakersfield, Department of Biology, Bakersfield, CA, 93311.
- 12      2:00      **ECOPHYSIOLOGY OF COASTAL SAGE SCRUB OF SOUTHERN CALIFORNIA**  
R. Sharifi and P.W. Rundel. Department of Ecology and Evolutionary Biology, Los Angeles, CA 90095.
- 13 E      2:20      **DEER BROWSE AFFECTS ON POST-FIRE COASTAL SAGE REGENERATION ON SANTA CATALINA ISLAND.**  
A.R. Ramirez<sup>1</sup>, R.B. Pratt<sup>1</sup>, A.L. Jacobsen<sup>1</sup>, S.D. Davis<sup>2</sup>: <sup>1</sup>California State University, Bakersfield, Department of Biology, Bakersfield, CA 93311, <sup>2</sup>Pepperdine University, Natural Science Division, Malibu, CA 90263.
- 14 E      2:40      **THE ROLE OF RAINFALL PULSES, RESOURCE AVAILABILITY, AND FIRE IN THE CONVERSION OF COASTAL SAGE SCRUB TO ANNUAL GRASSLAND COMMUNITIES**  
Leah Goldstein, Matt Talluto, Eva Hernandez, and Katharine Suding. Department of Ecology and Evolutionary Biology, University of California, Irvine, CA 92697
- 3:00–3:20      **BREAK**
- 15      3:20      **DIVERSITY PATTERNS IN CALIFORNIA SAGE SCRUB**  
Jon E. Keeley<sup>1,2</sup>, C.J. Fotheringham<sup>2</sup>, Melanie Baer-Keeley<sup>3</sup>, and James B. Grace<sup>4</sup>, <sup>1</sup>USGS, Western Ecological Research Center, Sequoia-Kings Canyon Field Station, Three Rivers, CA 93271, <sup>2</sup>Department of Ecology & Evolutionary Biology, University of California, Los Angeles, CA 90095, <sup>3</sup>Resources Division, Sequoia National Park, Three Rivers, CA 93271, <sup>4</sup>USGS, National Wetlands Research Center, Lafayette, LA, 70506.
- 16 E      3:40      **CLIMATE ENVELOPE MODELING IN CALIFORNIA SAGE SCRUB: DEFINING THE BIOCLIMATIC NICHE**  
E. C. Riordan and P.W. Rundel. University of California, Los Angeles, Department of Ecology and Evolutionary Biology, Los Angeles, CA, 90095.
- 17      4:00      **ENVIRONMENTAL DRIVERS OF LANDSCAPE-SCALE COASTAL SAGE SCRUB CONVERSION TO EXOTIC GRASSLAND**  
K.L. Preston<sup>1</sup>, P. Sadler<sup>2</sup>, R. Johnson<sup>1</sup>, G. Miller<sup>2</sup> and E. Allen<sup>3</sup> <sup>1</sup>Center for Conservation Biology, University of California Riverside, 1303 Webber Hall, Riverside, CA 92521; <sup>2</sup>Department of Earth Sciences, UC Riverside, Riverside, CA 92521; <sup>3</sup>Department of Botany and Plant Sciences, UC Riverside, 2129 Bachelor Hall, Riverside, CA 92521
- 18      4:20      **IMPACTS OF ARGENTINE ANTS ON COMMUNITY PROCESSES IN CALIFORNIA SAGE SCRUB.**  
D.A. Holway. Section of Ecology, Behavior & Evolution, Division of Biological Sciences, University of California at San Diego, MC 0116, 9500 Gilman Drive, La Jolla, CA 92093-0116.

- 19 4:40 **COASTAL SAGE SCRUB RESTORATION AT AN AUDUBON CALIFORNIA SANCTUARY: A RESEARCH-BASED, NON-CHEMICAL APPROACH**  
S. A. DeSimone. Audubon California's Starr Ranch Sanctuary, 100 Bell Canyon Rd., Trabuco Canyon CA 92679.

5:00–7:00 **Poster Session**

*Friday, May 2, 2008*  
*Location: LU Student Union 322*

**Session: Controlling Runoff Pollution**

Chair: John Dorsey, Loyola Marymount University

- 9:30 **INTRODUCTION TO THE SYMPOSIUM:** John Dorsey, L.M.U.
- 20 9:40 **COUNTY OF LOS ANGELES COUNTYWIDE STORMWATER/URBAN RUNOFF PUBLIC EDUCATION PROGRAM**  
Kimberly Y. Lyman, County of Los Angeles Department of Public Works, Alhambra, CA, 91803.

10:00–10:20 **BREAK**

- 21 10:20 **PRODUCT SUBSTITUTION: DIAZINON**  
G. A. Brosseau. California Stormwater Quality Association (CASQA), P.O. Box 2105, Menlo Park, CA 94026
- 22 10:40 **USING COMMUNITY BASED SOCIAL MARKETING TO INCREASE USED OIL RECYCLING IN LOS ANGELES**  
Joyce Amaro, City of Los Angeles, Stormwater Public Education Program, 2714 Media Center Drive, Los Angeles, CA 90065
- 23 11:00 **ENFORCEMENT OF WATER WASTING-URBAN RUNOFF CODES & BMPS**  
N. Shapiro. City of Santa Monica, Environmental Programs Division, 200 Santa Monica Pier, Suite K, Santa Monica, CA 90401.

11:30–12:30 **Plenary Lecture: LaCorte Hall A-103**

Jon E. Keeley, USGS, Western Ecological Research Center, Sequoia-Kings Canyon Field Station, Three Rivers, CA 93271, USA, and Department of Ecology and Evolutionary Biology, University of California, Los Angeles, CA 90095, USA

9 **“FIRE AS AN ECOSYSTEM PROCESS: PAST, PRESENT AND FUTURE”**

12:30–1:20 **LUNCH BREAK**

- 24 1:20 **CALTRANS' USE OF AND RESEARCH ON VEGETATED BIOFILTER BMPS**  
K.L. Dreher<sup>a</sup> and M.M. Kerner<sup>b</sup>. <sup>a</sup>California Department of Transportation, Division of Environmental Analysis, Sacramento, CA, 94274. <sup>b</sup>California State University – Sacramento, Office of Water Programs, Sacramento, CA, 95819-6025.
- 25 1:40 **PERFORMANCE OF THE BALLONA FRESHWATER MARSH AS A MULTI-PURPOSE CONSTRUCTED WETLAND.**  
Edith Read. E Read and Associates, Inc., Orange, CA, 92866.
- 26 2:00 **ENFORCEMENT OF WATER WASTING-URBAN RUNOFF CODES & BMPS MEETING THE TRASH TMDL IN THE CITY OF LOS ANGELES**  
Morad Sedrak, City of Los Angeles, Bureau of Sanitation, Watershed Protection Division, Los Angeles, CA, 90015.

- 27        2:20    **SALT CREEK OZONE TREATMENT FACILITY FOR URBAN RUNOFF, DANA POINT, CALIFORNIA**  
Brad Fowler, P.E., Director of Public Works & Engineering Services, City of Dana Point, 33282 Golden Lantern, Dana Point, CA 92629
- 28        2:40    **REUSING ONE'S LOCAL WATER RESOURCES – DRY WEATHER RUNOFF REUSE THE SMURRF WAY**  
N. Shapiro. City of Santa Monica, Environmental Programs Division, 200 Santa Monica Pier, Suite K, Santa Monica, CA 90401.
- 3:00–3:20        **BREAK**
- 5:00–7:00        **Poster Session**

*Friday, May 2, 2008*

*Location: LU Student Union 326*

**Session: Reef Biology and Fisheries**

Chair: Daniel Pondella II, Occidental College

- 29 F        8:00    **LIFE HISTORY OF SARGO, *ANISOTREMUS DAVIDSONII*, IN THE SOUTHERN CALIFORNIA BIGHT**  
M.C. Mandrup and D.J. Pondella, II, Vantuna Research Group and Department of Biology, Moore Laboratory of Zoology, Occidental College, Los Angeles, CA 90041
- 30 M        8:20    **MICROSATELLITE DNA ASSESSMENT OF MULTIPLE PATERNITY IN THE VIVIPAROUS ROCKFISH *SEBASTES MELANOPS***  
K.W. Karageorge and R. Wilson, Jr. Department of Biological Sciences, California State University, Long Beach, Long Beach, CA 90840.
- 31        8:40    **LONG-TERM POPULATION TRENDS OF SOUTHERN CALIFORNIA SCIAENIDS IN THE PRESENCE OF OCEANOGRAPHIC CHANGE AND POWER PLANT ONCE THROUGH COOLING.**  
Eric F. Miller<sup>1</sup>, Daniel J. Pondella, II<sup>2</sup>, and Kevin T. Herbinson<sup>3</sup>; <sup>1</sup>MBC Applied Environmental Sciences, Costa Mesa, CA; <sup>2</sup>Vantuna Research Group, Occidental College, Los Angeles, CA; <sup>3</sup>ACT Environmental, Inc., Laguna Hills, CA
- 32 E        9:00    **INVESTIGATING ELK KELP'S (*PELAGOPHYCUS PORRA*), INABILITY TO INVADE POINT LOMA GIANT KELP BEDS**  
Stacie M. Fejtek<sup>1</sup>, Matthew S. Edwards<sup>1</sup>, & Kwan-Young Kim<sup>2</sup> <sup>1</sup>Department of Biology, San Diego State University, San Diego, California, USA <sup>2</sup>Department of Oceanography, Chonnam National University, Gwangju, Korea
- 33        9:20    **AN EMERGENCY INPUT ANALYSIS OF SANTA MONICA BAYKEEPER'S KELP RESTORATION PROJECT**  
Brian Meux, Santa Monica Baykeeper, Marina del Rey, CA 90292
- 34        9:40    **SOCIAL-ECOLOGICAL INTERACTIONS IN GIANT KELP FORESTS.**  
D. C. Reed, Marine Science Institute, University of California, Santa Barbara, CA. 93106.
- 10:00–10:20        **BREAK**
- 35        10:20    **PATTERNS OF FISH AND INVERTEBRATE ASSEMBLAGES AMONG KELP FORESTS IN SAN DIEGO**  
P.E. Parnell. Integrative Oceanography Division, Scripps Institution of Oceanography, La Jolla, CA, 92093-0227.

- 36 F 10:40 **MIDWATER FISH ASSEMBLAGES ASSOCIATED WITH PETROLEUM PLATFORMS ON THE SAN PEDRO SHELF: A COMPARISON WITH ADJACENT NATURAL REEFS**  
C. J. B. Martin and C. G. Lowe. Department of Biological Sciences, California State University, Long Beach, CA, 90840.
- 37 11:00 **THE NEARSHORE ROCKY-REEF FISHES OF THE SOUTHERN CALIFORNIA ISLANDS.**  
D.P. Pondella, II. Department of Biology and Vantuna Research Group, Moore Laboratory of Zoology, Occidental College, 1600 Campus Rd. Los Angeles, CA 90041
- 11:30–12:30 **Plenary Lecture: LaCorte Hall A-103**  
Jon E. Keeley, USGS, Western Ecological Research Center, Sequoia-Kings Canyon Field Station, Three Rivers, CA 93271, USA, and Department of Ecology and Evolutionary Biology, University of California, Los Angeles, CA 90095, USA
- 9 “**FIRE AS AN ECOSYSTEM PROCESS: PAST, PRESENT AND FUTURE**”
- 12:30–1:20 **LUNCH BREAK**

*Friday, May 2, 2008*  
*Location: LU Student Union 326*

**Session: Advances in Selective Fishing**

Chair: Mark Helvey, NOAA

- 38 1:40 **Overview of Efforts to Reduce Fishery Bycatch**  
Mark Helvey, National Marine Fisheries Service
- 39 2:00 **THE INTERNATIONAL SMART GEAR COMPETITION: INSPIRING INNOVATION BY CAPITALIZING CREATIVITY**  
M. Osmond, World Wildlife Fund, Palo Alto, CA 94301
- 40 2:20 **BOTTOM TRAWL PERFORMANCE IN THE CALIFORNIA HALIBUT TRAWL GROUNDS**  
S.P. Wertz, A.J. Frimodig, M.C. Horeczko, T.J. Mason, B.C. Owens, and M.W. Prall. State Fisheries Evaluation Project, Marine Region, California Department of Fish and Game, Los Alamitos, CA, 90720.
- 41 2:40 **DEVELOPMENTS IN SCIENTIFIC RESEARCH ON THE USE OF MODIFIED FISHING GEAR TO REDUCE LONGLINE BYCATCH OF SEA TURTLES**  
Y. Swimmer and C. Boggs. NOAA Fisheries, Pacific Islands Fisheries Science Center, Honolulu, Hawaii 96822
- 3:00–3:20 **BREAK**
- 42 3:20 **AN OVERVIEW OF FISHING GEAR AND FISHING PRACTICE MODIFICATIONS THAT HAVE RESULTED IN BYCATCH REDUCTION IN CALIFORNIA’S COMMERCIAL AND RECREATIONAL FISHERIES.**  
Angela Louie, California Department of Fish and Game, Los Alamitos, California.
- 43 3:40 **THE ROLE OF ALLOWABLE FISHING EFFORT IN PROVIDING INCENTIVES TO INNOVATE CONSERVATION TECHNOLOGY**  
S. M. Stohs. NOAA Fisheries, Southwest Fisheries Science Center, La Jolla, CA 92037-1508.

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SOUTHERN CALIFORNIA ACADEMY OF SCIENCES

- 44 4:00 CONSERVATION FISHING AGREEMENT – THE FIRST CONSERVATION EASEMENT IN THE OCEAN?  
Michael Bell, The Nature Conservancy, 75 Higuera Street, Suite 200, San Luis Obispo, CA 93401 Co Presenter: Edwin “Fast Eddie” Ewing, Commercial Fisherman, Morro Bay, CA
- 45 4:20 METHODOLOGIES FOR SOCIAL AND GEOGRAPHIC INTEGRATION OF MANDATORY AND VOLUNTARY BYCATCH REDUCTION TECHNOLOGY  
Ana Pitchon, CSU Dominguez Hills, Department of Anthropology, Carson, CA 90747, and Karma Norman, Northwest Fisheries Science Center, Seattle, WA 98112.
- 5:00–7:00 Poster Session

*Friday, May 2, 2008*

*Location: LU Student Union 323*

**Session: Contributed Papers**

- 46 8:20 LIFESTYLE AND QUALITY OF HEALTH FOR 19<sup>TH</sup> CENTURY POPULATIONS IN NORTH AMERICA.  
S. Fitz-González, MFS, California State University, Los Angeles, Department of Anthropology, Los Angeles, CA, 90032.
- 47 8:40 TIDAL LOADING RATES FOR FECAL INDICATOR BACTERIA (FIB) IN THE BALLONA WETLANDS, CALIFORNIA: RESULTS OF 12- AND 24-HR SURVEYS  
J. H. Dorsey, P. M. Carter, Loyola Marymount University, Department of Natural Science, Los Angeles, CA 90045. Sean Bergquist, Santa Monica Bay Restoration Commission, One LMU Dr., Pereira Annex MS 8160, Los Angeles, CA 90045
- 48 E 9:00 FORAGING ECOLOGY OF THE ELEGANT TERN IN RESPONSE TO NEW MARINE HABITAT AT THE RESTORED BOLSA CHICA ECOLOGICAL RESERVE.  
J.N. Hendricks and M.H. Horn. Department of Biological Sciences, California State University Fullerton, CA, 92831.
- 49 E 9:20 DEVELOPING *SALICORNIA VIRGINICA* AS A BIO-MONITOR FOR THE HEAVY METALS ZINC AND CADMIUM IN THE BALLONA WETLANDS.  
James R. Holmquist, Philippa M. Drennan, and James Landry. Loyola Marymount University, Departments of Biology and Natural Science, Los Angeles, CA 90045.
- 50 E 9:40 THE EFFECTS OF AGE AND SEXUAL EXPERIENCE ON THE MATING SUCCESS OF THE MALE HOUSE CRICKET, *ACHETA DOMESTICUS*  
E.S. Peralta and S.E. Walker, Southern California Ecosystems Research Program, California State University, Fullerton, Department of Biological Science, Fullerton, CA, 92831
- 10:00–10:20 BREAK
- 51 E 10:20 METAL CONCENTRATIONS IN *MACROCYSTIS PYRIFERA* BETWEEN THREE DEPTHS AT LA HARBOR AND EAGLE ROCK  
M.R. Raith and A.Z. Mason, Manley Lab Group, CSU, Fullerton and CSU, Long Beach, Department of Natural Sciences and Mathematics, Long Beach, CA, 90840.
- 52 E 10:40 SETTLEMENT OF *OSTREA CONCHAPHILA* AS A FUNCTION OF TIDAL HEIGHT IN A SOUTHERN CALIFORNIA  
L.A. Sam and D.C. Zacherl. California State University, Fullerton. Department of Biological Science.

53 E 11:00 **SONG PLAYBACK EXPERIMENTS IN ANNA'S AND COSTA'S HUMMING-BIRDS.**  
B.R. Williams, C. Castro, and A.M. Houtman. California State University, Fullerton, Department of Biology, Fullerton, CA, 92831.

11:30–12:30 **Plenary Lecture: LaCorte Hall A-103**

Jon E. Keeley, USGS, Western Ecological Research Center, Sequoia-Kings Canyon Field Station, Three Rivers, CA 93271, USA, and Department of Ecology and Evolutionary Biology, University of California, Los Angeles, CA 90095, USA

9 “FIRE AS AN ECOSYSTEM PROCESS: PAST, PRESENT AND FUTURE”

12:30–1:20 **LUNCH BREAK**

*Friday, May 2, 2008*

*Location: LU Student Union 323*

**Session: Contributed Papers (Continued)**

54 1:20 **LASER ABLATION ICP-MS ANALYSIS OF PREHISTORIC AND CONTEMPORARY WHITE CROAKER (*Geryonemeus lineatus*) OTOLITHS**  
James F. Harwood California State University, Bakersfield, Department of Biology, Bakersfield, CA 93311

55 1:40 **VARIATION IN THE DEEP SEA HOLOTHURIAN *PSYCHROPOTES LONGICAUDA* AND CONFIRMATION OF THE SPECIES *PSYCHROPOTES MIRABILIS***  
K.D. Trego, Nautilus Oceanic Institute, La Jolla, CA 92037

56 2:00 **ECOSYSTEM IMPLANTATION ON SATURN'S MOON TITAN BY ACCUMULATION OF INTERNAL OCEAN SATELLITE ICE DEBRIS CONTAINING ORGANISMS**  
K.D. Trego, Nautilus Oceanic Institute, La Jolla, CA 92037

57 2:40 **TRANSIENT MACROFAUNA INVERTEBRATES IN THE CHALLENGER DEEP ECOSYSTEM OF THE MARIANAS TRENCH**  
K.D. Trego, Nautilus Oceanic Institute, La Jolla, CA 92037

3:00–3:20 **BREAK**

*Friday, May 2, 2008*

*Location: LU Student Union 323*

**Session: Vulcanology**

Chair: A.L Smith, CSU San Bernardino

58 3:20 **THE GENERATION OF QUENCHED ENCLAVES DURING MAGMA MINGLING OF MAFIC MAGMAS: EXAMPLES FROM THE SIERRA NEVADA AND THE SOUTHERN CASCADES**  
B.L. Browne, A. Steiner, M. Van Ry and P. Saleen Cal State Fullerton Department of Geological Sciences, Fullerton, CA, 92834

59 3:40 **TURONIAN TO CAMPANIAN LAVAS FROM SOUTHWEST PUERTO RICO AND THE TIREO GROUP OF SOUTH CENTRAL HISPANIOLA (GREATER ANTILLES ISLAND ARC): IDENTIFICATION OF AN UPPER CRETACEOUS ISLAND ARC**  
Johannes H. Schellekens<sup>1</sup>, and Wayne T. Jolly<sup>2</sup> <sup>1</sup>temporarily Dept. of Geological Sciences, California State University, San Bernardino CA, <sup>2</sup>Department of Geological Sciences, Brock University, St. Catharines, Ontario L2O 3A1



- 60 P 4:00 **GRANDE SOUFRIERE HILLS VOLCANO, DOMINICA, LESSER ANTILLES**  
**G.E. Daly**<sup>1</sup>, A.L. Smith<sup>1</sup>, M.J. Roobol<sup>2</sup>, and J.E. Fryxell<sup>1</sup> <sup>1</sup>Department of Geological Sciences, California State University, San Bernardino, CA 92407; <sup>2</sup>Saudi Geological Survey, Jeddah, Saudi Arabia
- 61 P 4:20 **A STUDY OF GEOTHERMAL SPRINGS IN NORTHERN DOMINICA.**  
**S. Harrell**, A.L. Smith, E. Melchiorre, J. E. Fryxell, Department of Geological Sciences California State University, San Bernardino, California, 92407
- 62 4:40 **GEOLOGICAL EVOLUTION OF DOMINICA, LESSER ANTILLES**  
**A L. Smith**<sup>1</sup>, M.J. Roobol<sup>2</sup>, J.E. Fryxell<sup>1</sup> and L. Fernandez<sup>1</sup> <sup>1</sup>Department of Geological Sciences, California State University, San Bernardino, CA <sup>2</sup>Saudi Geological Survey, Jeddah, Saudi Arabia
- 5:00–7:00 **Poster Session**

*Friday, May 2, 2008*

*Location: Ballroom*

**Session: Poster Session**

- 63 E **GENETIC VARIATION AND SYSTEMATIC DIVERSITY IN THE AMPHIPOD GENUS *CYAMUS*, USING MITOCHONDRIAL AND NUCLEAR GENE SEQUENCE ANALYSIS.**  
**Tishy-Linda M. Bunk**, Biological Sciences, Cal. State L.A. Los Angeles, CA 90032-8201
- 64 **GENETIC CONFIRMATION OF HYBRIDIZATION BETWEEN *CATOSTOMUS FUMEIVENTRIS* AND *CATOSTOMUS SANTAANAE* (CYPRINIFORMES: CATOSTIMIDAE) IN THE SANTA CLARA DRAINAGE.**  
**D.G. Buth**<sup>1</sup>, J. Sim<sup>1</sup>, and C.C. Swift<sup>2</sup>. <sup>1</sup>Dept. of Ecology and Evolutionary Biology, UCLA, Los Angeles, CA 90095-1606, and <sup>2</sup>ENTRIX, Inc., 2140 Eastman Avenue, Suite 200, Ventura, CA 93003.
- 65 E **OBSERVING THE EFFECTS BIOFILMS, PLANTS AND SEDIMENTS HAVE ON CONCENTRATIONS OF NITRATE AND PHOSPHATE IN WATER SUPPLIES.**  
**John Campo** and Genevieve Ryan. Pasadena City College, Sustainability Studies Research Group, Pasadena, CA, 91106.
- 66 **COYOTE AND FOX ON THE PALOS VERDES PENINSULA**  
**Dalkey, A**<sup>1</sup>, K. Gallagher<sup>2</sup>, K. Bailey<sup>3</sup>, Elaine Chow<sup>3</sup>, K. Lyberger<sup>3</sup>, B. Niemiec<sup>4</sup>, and N. Wakayama<sup>3</sup>. <sup>1</sup>Palos Verdes Peninsula Land Conservancy, 916 Silver Spur Road #207, Rolling Hills Estates, CA, 90274, <sup>2</sup>Biology Department, California State University Long Beach, Long Beach, CA, 90840 <sup>3</sup>Palos Verdes Peninsula High School Rolling Hills Estates, CA, 90274, <sup>4</sup>Chadwick School, Palos Verdes, CA, 90274.
- 67 E **ABOVE AND BELOWGROUND FEEDBACKS FOLLOWING EXOTIC PLANT INVASION AND RESTORATION OF COASTAL SAGE SCRUB OF SOUTHERN CALIFORNIA**  
**S.J.M. Dickens** and E.B. Allen, Department of Botany and Plant Sciences, University of California Riverside, Riverside CA 92521
- 68 E **THE EFFECTS OF NITROGEN ADDITION AT DIFFERENT STAGES OF DECOMPOSITION**  
**M. Greas**, D. LeBauer, and K. Treseder. University of California, Irvine, Department of Ecology and Evolutionary Biology, Irvine, CA, 92697.
- 69 **PROTOCOLS FOR *HALIOTIS RUFESCENS* EGG CRYOPRESERVATION AND *IN VITRO* FERTILIZATION (YEAR 2)**  
**Julie A. Guerin**. Cabrillo Marine Aquarium, San Pedro, CA 90731; Palos Verdes Peninsula High School, Rolling Hills Estates, CA 90274

- 70 E **THE EFFECTS OF DISTURBANCE OF BIOLOGICAL SOIL CRUSTS ON THE GERMINATION OF EXOTIC PLANTS IN COASTAL SAGE SCRUB.**  
Rebecca R. Hernandez and Darren Sanduist, Department of Biological Science, California State University, Fullerton, CA 92831.
- 71 **ETHYLENE, TEMPERATURE, AND LIGHT EFFECTS ON THE GERMINATION OF THE SAND VERBENA, *ABRONIA MARITIMA* S. WATSON.**  
Kristine Tulio, Noel De Leon, and Philippa M. Drennan. Loyola Marymount University, Department of Biology, Los Angeles, CA 90045.
- 72 E **EFFECTS OF SMALL-SCALE DISTURBANCE ON SEED BANK SPECIES IN A COASTAL SAGE SCRUB COMMUNITY**  
F.D. Herrera. Biological Sciences Department, California State Polytechnic University, Pomona, CA, 91768
- 73 E **EFFECTS OF LIGHT AND COLUMN HEIGHT ON DIEL VERTICAL MIGRATION OF THE MARINE GASTROPOD *KELLETTIA KELLETTII***  
Kelley, S.L., Cortez, C.J., Hoese, W.J. and Zacherl, D.C.; California State University, Fullerton Department of Biological Science, Fullerton, CA 92831
- 74 E **PLANT ABSORPTION OF THE CHEMICAL POLLUTANTS NITRATE AND AMMONIA**  
Niree Kodaverdian, Pwint Khine, Steven Do, Jason Diep, Jimmy Lau, Kyaw Lynn. Sustainability Studies Research Group, Pasadena City College, CA 91106.
- 75 **USING HISTORICAL TAGGING DATA (1962-1971) TO ANALYZE THE SPAWNING RELATED MOVEMENTS OF BARRED SAND BASS, *PARALABRAX NEBULIFER* (SERRANIDAE) IN SOUTHERN CALIFORNIA.**  
C. Linardich, E. T. Jarvis, C. F. Valle, and P.Young. California Department of Fish and Game, Marine Region, Los Alamitos, CA, 90702.
- 76 E **POST-FIRE PLANT SUCCESSION AT TUCKER WILDLIFE SANCTUARY IN MODJESKA CANYON, CALIFORNIA.**  
V. Lopez, S. Simjee, W.J. Hoese, and D.R. Sandquist. Department of Biological Science, California State University Fullerton, Fullerton, CA 92834.
- 77 E **QUESTION REALITY: QUALITATIVE INTERPRETATIONS OF UNIVERSAL SCALING LAWS IN BIOLOGY-ECOLOGY-EVOLUTION**  
V.G. Minnich, M.L. Droser Advisor. Department of Earth Sciences. University of California, Riverside, 92521.
- 78 P **PALEO GROUNDWATER CHEMISTRY RECORD FROM FAULT ZONE BANDED CALCITE, MOUNTAIN PASS MINE, CA**  
D.S. Montgomery and E.B. Melchiorre. California State University, Department of Geology, San Bernardino, CA, 92407.
- 79 E **EFFECTS OF ANTHROPOGENIC WATER INPUTS ON ARGENTINE ANT INVASION IN RIPARIAN AREAS OF SOUTHERN ORANGE COUNTY**  
Kimberly Nelson and Paul Stapp, California State University of Fullerton Department of Biological Science, Fullerton, CA, 92831
- 80 E **BIOLOGICAL DIVERSITY STUDY OF ARTHROPODS AT SELECTED SITES IN THE HAHAMONGHA WATERSHED PARK, PASADENA, CA**  
Alice Okumura, Pasadena City College, Pasadena, California
- 82 E **GENETIC DIVERSITY ANALYSIS OF THE CALIFORNIA INVASIVE CHAMELEON GOBY (*TRIDENTIGER TRIGONOCEPHALUS*); EXPLORATON OF A GENETIC BOTTLENECK WITH COMMENTS ON AN *IN SITU* RISE IN POPULATION**  
J.R. Radecki, R.R. Wilson. California State University at Long Beach, Department of Biological Sciences, Long Beach, CA, 90840.

- 83 E      **GENETIC VARIABILITY WITHIN THE SANTA ANA WOOLLY STAR, *ERIASTRUM DENSIFOLIUM* SSP. *SANCTORUM*: REANALYSIS SEVENTEEN YEARS LATER**  
Y. Sanchez, A. Cohen, and Y. Atallah. California State University, Fullerton, Department of Biological Science, Fullerton CA, 92831.
- 84 P      **SELENIUM STRATIFICATION AND MIXING DYNAMICS OF UPPER NEWPORT BAY, CALIFORNIA**  
Shelley Shaul, Rachel Andrus, Roxanna Aguirre-Robertson, Barry Hibbs, Center for Environmental Analysis (CEA-CREST) California State University, Los Angeles, 90032
- 86 E      **A COMPARISON OF EMBOLISM AND EMBOLISM REPAIR IN TWO SALVIA SPECIES.**  
L.M. Velasco and H.J. Schenk. Southern California Ecosystems Research Program, California State University, Fullerton, Department of Biology, 800 N. State College Blvd. Fullerton CA 92831
- 87 E      **THE LIGHT'S ON BUT NOBODY'S HOME: NEGATIVE PHOTOTACTIC RESPONSE OF *KELLETTIA KELLETTII* LARVAE TO LIGHT INTENSITY AND WAVELENGTH.**  
K.M. Walker, W.J. Hoese, and D.C. Zacherl, California State University Fullerton, Department of Biological Science, Fullerton, CA, 92834.
- 88      **PREDICTING LUNG CANCER RELAPSE USING LEVELS OF 2881 PROTEINS**  
Timothy Wu<sup>1</sup>, Dennis Kibler<sup>2</sup>; <sup>1</sup>stormfyre@sbcglobal.net, University High School, 4771 Campus Drive, Irvine, CA 92612; <sup>2</sup>dennis.kibler@gmail.com, University of California, Irvine, Irvine, CA 92697
- 89      **COMPARISON BETWEEN ALCOHOLIC AND NONALCOHOLIC LIVER USING CT PHANTOM CALIBRATION**  
Wu, Helena(Hao). Los Angeles Biomedical Research Institute, Harbor UCLA, St. John's Department of Cardiovascular Research.

*Saturday, May 3, 2008*

*Location: LU Student Union 324*

**Session: Culture and Environment in the American Tropics**

Chair: Janine Gasco, CSU Dominguez Hills

- 90      8:40      **TRADITIONAL AGROFORESTRY SYSTEMS IN THE SOCONUSCO REGION OF CHIAPAS, MEXICO**  
J.L. Gasco, California State University, Dominguez Hills, Dept. of Anthropology, Carson, CA 90747
- 91      9:00      **LAND MANAGEMENT IN COASTAL CHIAPAS**  
T. Kasper, J. Lewis, E. Smith, S. Reimann, California State University, Dominguez Hills, Dept. of Anthropology, Carson, CA 90747
- 92      9:20      **PANELA PRODUCTION IN MESOAMERICA**  
S. Ulrich, California State University, Dominguez Hills, Dept. of Anthropology, Carson, CA 90747
- 93      9:40      **THE PROYECTO ARQUEOLOGICO TUMBES: AN OVERVIEW TO THE RESEARCH PROJECT**  
J.D. Moore, California State University, Dominguez Hills, Dept. of Anthropology, Carson, CA 90747
- 94      10:00      **THE 2007 FIELD SEASON OF PROYECTO ARQUEOLOGICO TUMBES**  
C. D'Anna and T. Black, California State University, Dominguez Hills, Dept. of Anthropology, Carson, CA 90747

- 95            10:20    **PREHISTORIC DIACHRONIC VARIATION IN MOLLUSCAN ASSEMBLAGES AND PALEOCLIMATIC DISRUPTIONS IN FAR NORTHERN PERU**  
J.D. Moore and J. Lewis, California State University, Dominguez Hills, Dept. of Anthropology, Carson, CA 90747
- 10:40–11:00            **BREAK**
- 11:00–11:20            **Welcome, Student Grant Awards,**
- 11:30–12:30            **Plenary Lecture: LU Student Union 324**  
Bill Hamner: UCLA, Dept of Ecology and Evolutionary Biology  
**“INNER SPACE SPECIATION PROJECT: MID-WATER AND EPIBENTHIC SAMPLING IN THE CELEBES SEA, PHILIPPINES”**
- 12:30–1:20            **LUNCH BREAK**

*Saturday, May 3, 2008*

*Location: LU Student Union 324*

**Session: Contributed Papers**

Chair: Philippa Drennan, Loyola Marymount University

- 96            1:40    **JOSHUA TREE (*YUCCA BREVIFOLIA*) MORTALITY AND RESPROUTING FOLLOWING THE 2005 HACKBERRY COMPLEX FIRES IN THE MOJAVE DESERT.**  
Philippa M. Drennan and John P. Waggoner, III. Department of Biology, Loyola Marymount University, Los Angeles, CA, 90045.
- 97 E            2:00    **INFLUENCE OF ANTHROPOGENIC NOISE ON SONG STRUCTURE IN *CALYPTE* HUMMINGBIRDS**  
English, S. and Houtman, A. California State University Fullerton, Department of Biological Science, Fullerton, CA, 92831.
- 98 E            2:20    **ARE LOOKS DECEIVING? SHOULD TWO NEARLY IDENTICAL CHITONS REALLY BELONG IN DIFFERENT SUBGENERA?**  
V.H. Lee<sup>1</sup>, A.A. Fore<sup>1</sup>, R.Z. El Hajjaoui<sup>1</sup>, A. Draeger<sup>2</sup>, and D.J. Eernisse<sup>1</sup>.  
<sup>1</sup>California State University Fullerton, Department of Biological Science, Fullerton, CA 92834, and <sup>2</sup>Kensington, California.
- 99 E            2:40    **EVIDENCE FOR ‘CONTEXTUAL DECISION HIERARCHIES’ IN THE HERMIT CRAB, *PAGURUS SAMUELIS*.**  
Billock, W.L. and Dunbar, S.G. Department of Earth and Biological Sciences, Loma Linda University, Loma Linda, California, USA 92350.
- 3:00–3:20            **BREAK**
- 100 E            3:20    **EFFECTS OF PREDATOR DENSITY ON GROWTH AND SURVIVAL OF THE TEMPERATE REEF FISH *LYTHRYPNUS DALLI***  
J.M. Krug<sup>1</sup>, S. Painter<sup>2</sup> and M.A. Steele<sup>1</sup>. <sup>1</sup>California State University, Northridge, Department of Biology, Northridge, CA, 91330; <sup>2</sup>University of California, Los Angeles, Department of Ecology and Evolutionary Biology, Los Angeles, CA, 90024.
- 101 E            3:40    **PHYLOGEOGRAPHIC ANALYSIS OF THE FIDDLER CRAB *UCA PRINCEPS* IN THE GULF OF CALIFORNIA AND OUTER COAST OF BAJA CALIFORNIA.**  
M. Kodama, R. A. Ellingson and D. K. Jacobs. University of California, Los Angeles, Department of Ecology and Evolutionary Biology, Los Angeles, CA, 90095.

- 102 P 4:00 **MOBILITY OF SELENIUM AND NITRATE ALONG A SHALLOW GROUNDWATER FLOWPATH, ORANGE COUNTY, CALIFORNIA**  
Rachel Andrus, Shelley Shaul, Barry Hibbs, Center for Environmental Analysis (CEA-CREST) California State University, Los Angeles, 90032 Andre Ellis, Department of Geology, University of Texas- El Paso, TX, 79968
- 103 F 4:20 **GENETIC SEPARATION FOR THE OUTER SOUTHERN CALIFORNIA CHANNEL ISLANDS? MICROSATELLITE DATA FROM KELP BASS (*PARALABRAX CLATHRATUS*)**  
S.M. Trbovich and R.R. Wilson. California State University-Long Beach, Department of Biological Sciences, Long Beach, CA 90840

*Saturday, May 3, 2008*

*Location: LU Student Union 322*

**Session: Research Training Program**

Chair: Gloria Takahashi:

- 104 8:40 **IDENTIFYING MACHINE LEARNING ALGORITHMS THAT POSSESS HIGH PREDICTIVE ACCURACIES FOR MULTIPLE TYPES OF CANCER**  
Timothy Wu<sup>1</sup>, Dennis Kibler<sup>2</sup>; <sup>1</sup>stormfyre@sbcglobal.net, University High School, 4771 Campus Drive, Irvine, CA 92612; <sup>2</sup>dennis.kibler@gmail.com, University of California, Irvine, Bren School of Information and Computer Science, Computer Science Department, Irvine, CA 92697
- 105 9:00 **PROTEASE INHIBITORS IN AUGMENT Temozolomide-based TREATMENT FOR MALIGNANT GLIOMAS**  
J.J. Wang, W.J. Wang, and T.C. Chen, Department of Neurosurgery, University of Southern California, Los Angeles, 90033
- 106 9:20 **REGULATION OF ALDEHYDE OXIDASE 4 (*Aox4*) GENE BY THE GRAINY-HEAD-LIKE EPITHELIAL TRANSACTIVATOR (*Get1*) TRANSCRIPTION FACTOR**  
A. Venkatesh, A. Bhandari, and B. Andersen. Departments of Medicine and Biological Chemistry, University of California, Irvine, CA, 92697.
- 107 9:40 **CARBOHYDRATE-BASED EXPERIMENTAL THERAPEUTICS FOR CANCER, HIV/AIDS AND OTHER DISEASES**  
Sarine Shahmirian and Steven B. Oppenheimer. California State University Northridge, Department of Biology and Center for Cancer and Developmental Biology, Northridge, CA, 91330.
- 108 10:00 **TO SPECIATE OR NOT TO SPECIATE?: POPULATION STRUCTURE OF *HAMINOEA VESICULA* (OPISTHOBRANCHIA: HAMINOEIDAE) IN THE NORTHEAST 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.
- 109 10:20 **SURVEY OF THE PLEISTOCENE CAMELIDAE MATERIAL OF RALPH B. CLARK REGIONAL PARK INTERPRETIVE CENTER, ORANGE COUNTY, CA.**  
M.K. Crowe and L. Babilonia Ralph B. Clark Regional Park, Interpretive Center, 8800 Rosecrans Ave. Buena Park, CA 90621.
- 10:40–11:00 **BREAK**
- 11:00–11:20 **Welcome, Student Grant Awards,**
- 11:30–12:30 **Plenary Lecture: LU Student Union 324**

**Bill Hamner: UCLA, Dept of Ecology and Evolutionary Biology**

“INNER SPACE SPECIATION PROJECT: MID-WATER AND EPIBENTHIC SAMPLING IN THE CELEBES SEA, PHILIPPINES”

12:30–1:20

LUNCH BREAK

*Saturday, May 3, 2008*

*Location; : LU Student Union 322*

**Session: Research Training Program (Continued)**

Chair: Jonathan Baskin, Cal. Polytechnic University, Pomona

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| 110       | 1:20 | COMPARISON BETWEEN ALCOHOLIC AND NORMAL LIVER USING CT PHANTOM CALIBRATION<br><u>Wu, Helena (Hao)</u> , Palos Verdes Peninsula H.S.  |
| 111       | 1:40 | EVOLUTIONARY CHANGES IN THE DIGESTIVE TRACT OF THE PARASITIC CATFISHES (TRICHOMYCTERIDAE)<br>Jonathan N. Baskin <sup>1</sup> , <u>Brian Diep</u> <sup>2</sup> , Jason Hwan <sup>1</sup> , Diana Jeon <sup>1</sup> . California State Polytechnic University Pomona, Department of Biological Sciences, Pomona, CA, 91768 <sup>1</sup> , San Gabriel High School, San Gabriel, CA, 91776 <sup>2</sup> |
| 112       | 2:00 | MODELING THE TOXIC EFFECTS OF SILVER NANOPARTICLES UNDER VARYING ENVIRONMENTAL CONDITIONS<br><u>Joyce Chai</u> Palos Verdes Peninsula High School, Rolling Hills Estates, CA<br>Mentor: Professor Eric M.V. Hoek, UCLA Department of Civil and Environmental Engineering.  |
| 113       | 2:20 | CHEMOTHERAPY AND THE UNFOLDED PROTEIN RESPONSE<br><u>Kevin Pan</u> (Lynbrook High School) Dr. Albert C. Koong, PhD & Mike Olson, M.D. Department of Radiation Oncology, Stanford University  |
| 114       | 2:40 | THE ROLE OF THE GET1 TRANSACTIVATOR IN THE REGULATION OF EPITHELIAL BARRIER STRUCTURE AND FUNCTION IN BLADDER EPITHELIUM<br><u>T. Kwong</u> , A. Soto, and B. Andersen. Chao Cancer Laboratory, University of California Irvine, Department of Medicine, Irvine, CA, 92697   |
| 3:00–3:20 |      | BREAK  |

*Saturday, May 3, 2008*

*Location: LU Student Union 322*

**Session: Research Training Program and Endangered Species**

Chair: Ann Dalkey, Palos Verdes Peninsula Land Conservancy

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| 115 | 3:20 | THE EL SEGUNDO BLUE BUTTERFLY RETURNS TO SOUTH BAY BEACHES<br><u>A. Dalkey</u> <sup>1</sup> and <u>M. Acosta</u> <sup>2</sup> . <sup>1</sup> Palos Verdes Peninsula Land Conservancy, 916 Silver Spur Road #207, Rolling Hills Estates, CA 90274, <sup>2</sup> SEA Lab, 1021 North Harbor Drive, Redondo Beach, CA. 90277. |
| 116 | 3:40 | EFFECTS OF VARYING ZINC CONCENTRATIONS ON BIOLUMINESCENCE IN <i>CYPRIDINA HILGENDORFII</i><br><u>Debra Chang</u> , Rancho Palos Verdes Peninsula H.S.  |

- 117            4:00    **THE ECOLOGY OF COYOTES ON THE PALOS VERDES PENINSULA**  
**Rebecca Niemiec**<sup>1</sup> Chadwick High School, 26800 South Academy Drive Palos  
Verdes, CA 90274; Ann Dalkey, Palos Verdes Peninsula Land Conservancy 916  
Silver Spur Road #207, Rolling Hills Estate, CA 90274; Dr. Paul Stapp,  
Department of Biological Science, California State University, Fullerton PO Box  
6850, Fullerton, CA 92834
- 118            4:20    **GENETIC COMPONENT IN MINIATURE SIZE MUTATION OF THE**  
**ENDANGERED PALOS VERDES BLUE BUTTERFLY**  
**E. Yang**<sup>1</sup> and J. Johnson<sup>2</sup>. <sup>1</sup>Palos Verdes Peninsula High School, 27118 Silver Spur  
Road, Rolling Hills Estates, CA 90274, <sup>2</sup>The Urban Wildlands Group, Los  
Angeles, CA 90024-0020

**ADDITIONAL TALKS**

- 119            **STUDY OF THE TRUNCATION OF CONVEX SYMMETRICAL POLYHEDRA**  
**Brian Li**, Chadwick School
- 120            **ACHIEVING NUTRIENT REDUCTIONS IN THE NEWPORT BAY WATERSHED –**  
**A CASE HISTORY**  
**G.P. Crompton** and K.H. Cowan. County of Orange, OC Watersheds Program, Anaheim,  
CA, 92806