

IV. CONTRIBUTED POSTER PRESENTATIONS

189 poster number is also the abstract number

193 (number italicized and underlined) identifies a student presentation

*identifies the presenter from among several authors listed

NOTE TO PRESENTERS: Boards on which to attach poster presentations will be set up in the hallway of the first floor of Science Hall. The poster boards have numbers on them that coincide with the numbers assigned to the posters in this program (see number to the left of the title of each presentation). You are expected to use the appropriately numbered board for your poster.

Posters should be set up at least 10 minutes prior to the start time of your session. You must be present with your poster for at least one hour during the four hours of the poster session in order to discuss your work. Cards will be available to use in posting the time(s) you will be available. ***If you are a student in competition for an Award of Excellence, you must be present with your poster from 12:00 p.m. to 2:00 p.m. in order to give judges the opportunity to review and discuss your work with you.*** Posters should be removed within one-half hour of the end of the session. Presenters assume full responsibility for the security of their poster and other materials. Unclaimed posters will be discarded at the close of the technical sessions Wednesday afternoon.

*Quick Directory of Sponsoring Sections
and Their Posters*

<i>Section</i>	<i>poster numbers</i>
Agriculture and Horticultural Sciences	152 – 153
Cell and Molecular Biology	140 – 146
Chemistry and Biochemistry	138 – 139
Earth Sciences	121
Ecology, Organismal Biology and Environmental Sciences	112 – 120
Education	122 – 123
Health Sciences	124 – 133
Industrial Science and Technology	136 – 137
Physics and Materials Science	134 – 135
Psychology	147 – 149
Social, Economic and Political Sciences	150 – 151

Tooth Ivory, **MARGARET E. “COOKIE” SIMS and DARBY A. MORRELL** (National Fish and Wildlife Forensics Laboratory, Ashland, OR 97520).

115 *Water Mold Diseases of Amphibian Embryos: Interactions among Three Saprolegnia Species*, **SUSAN F. BRADY***, **R. STEVEN WAGNER**, **DANIEL J. SELSKI**, and **JAMES E. JOHNSON** (Department of Biological Sciences, Central Washington University, Ellensburg, WA).

116 *The Effects of a Newly Discovered Parasite (*Apocephalus borealis*) on the Health of Honey Bee Colonies*, **ANDREW CORE***, **JOHN HAFERNIK**, **JONATHAN IVERS**, **CHRIS QUOCK**, **CHRIS SMITH**, and **TRAVIS SIAPNO** (Department of Biology, San Francisco State University, San Francisco, CA).

117 *Aquatic Gilled Mushrooms in the Rogue River in Oregon: a New Species of Psathyrella*, **JONATHAN L. FRANK^{1*}**, **ROBERT A. COFFAN²**, and **DARLENE SOUTHWORTH¹** (¹Department of Biology and ²Department of Environmental Studies, Southern Oregon University, Ashland, OR).

118 *Age-Specific Association with Potential Adult Habitat in Larval Bocaccio, *Sebastes paucispinis*, in the Southern California Bight*, **SEAN M. HITCHMAN^{1*}**, **NATHALIE REYNS¹**, and **RUSS D. VETTER²** (¹Department of Marine Science, University of San Diego, San Diego, CA; ²Fisheries Resources Division, Southwest Fisheries Science Center, La Jolla, CA).

119 *Declining – But Persistent – Atmospheric Contamination in Central California from the Re-suspension of Historic Leaded Gasoline Emissions as Recorded in the Lace Lichen (*Ramalina menziesii* Taylor) from*

Monday, 14 June 2010

POSTER SESSION I

Science Hall, 1st Floor Hallway

Monday

12:00 PM – 4:00 PM

**ECOLOGY, ORGANISMAL BIOLOGY,
and ENVIRONMENTAL SCIENCES**

112 *Analysis of the Spatial and Temporal Distributions of Dolphinfishes (*Coryphaena hippurus* and *C. equiselis*) in the Eastern Pacific Ocean*, **MARSHALL OLSON** (Department of Marine Science and Environmental Sciences, University of San Diego, San Diego, CA).

113 *An Analysis of *Drosophila suzukii* Populations in Jackson County, Oregon in 2009*, **WILLIAM REDD OURSLER** (St. Mary’s High School, Medford, OR).

114 *Forensic Analysis Reveals Hidden Etchings on Whale*

1892-2006, **A. RUSSELL FLEGAL¹, CÉLINE GALLON¹, SHARON HIBDON¹, ZIKA KUSPA¹ and LÉO F. LAPORTE^{2*}** (¹Institute of Marine Sciences, University of California, Santa Cruz, CA; ²Department of Earth and Planetary Sciences, University of California, Santa Cruz, CA).

- 120** *Stanford University's Water Efficiency Program - 10 Years Later*, **MARGARET L. LAPORTE** (Stanford University, Utilities Division, Sustainability and Energy Management, Stanford, CA).

EARTH SCIENCES

- 121** *A New Kungurian Dyscritellid from the Kaibab Limestone of Southern Nevada*, **MICHAEL S. TOMA* and ERNEST H. GILMOUR** (Department of Geology, Eastern Washington University, Cheney, WA).

EDUCATION

- 122** *Using Inquiry to Foster Student Critical Thinking and Content Knowledge in Undergraduate Fundamental Biology*, **MIAO GAO^{1*}, IAN QUITADAMO¹, and RALF GREENWALD²** (¹Department of Biological Science, ²Department of Psychology, Central Washington University, Ellensburg, WA).

- 123** *A Flow Visualization Project in Fluid Mechanics*, **FRANK JACOBITZ*, BRYCE ABRAHAM, JEFF BENTZ, LAUREN DORUTH, MATT FOSTER, MATT GABBARD, MICHAEL JAROSINSKI, ADAM JONES, YEHIA OMAR, BRYAN REED, AVERI THOMAS, VICKY VARGAS, and CASEY WEISS** (Mechanical Engineering Program, University of San Diego, San Diego, CA).

HEALTH SCIENCES

- 124** *Gender and Racial/Ethnic Disparities in the Association between Body Mass Index and Walking Impairment in Persons with Knee Pain and Stiffness: A Population-Based Study*, **STEPHEN J. MOREWITZ** (Department of Nursing and Health Sciences, California State University, East Bay, Hayward, CA).

- 125** *A Comparison of Oral Health Status and Oral Health Quality of Life Based on Clinical Determinants in a National Probability Sample*, **MARK S. ORTEGA*, RAUL LEAL-RODRIGUEZ*, YI LUO, HONGHU LIU, and MARVIN MARCUS** (California Endowment Pipeline Program, UCLA School of Dentistry, Division of Public Health and Community Dentistry, Los Angeles, CA).

- 126** *Psychobiology of Immigration Stress: Relevance to Nasopharyngeal Carcinoma (NpC) Prevalence*, **RAISA AVEZOVA^{1*}, OLUWADAYO OLUWADARA¹, GEORGE KOSSAN¹, WILLIAM YOON¹, JAVIER IRIBARREN², and FRANCESCO CHIAPPELLI¹** (¹Division of Oral Biology and Medicine, University of California, Los Angeles (UCLA) School of Dentistry, Los Angeles, CA; ²UCLA Chicano Studies Research Center, Los Angeles, CA).

- 127** *Association Between Body Mass Index and Demographic Characteristics in a National Sample of Children, Ages 6-11*, **ANAMEVYS ECHEVARRIA*, LUCELIA RIVERA*, HONGHU LIU, YI LUO, and MARVIN MARCUS** (California Endowment Pipeline Program, Division of Public Health and Community Dentistry, UCLA School of Dentistry, Los Angeles, CA).

- 128** *Demographic and Behavioral Factors and Active Caries in a National Sample*, **DENISE I. ROBLES*, MONIQUE R. BELIN*, YI LUO, HONGHU LIU, and MARVIN MARCUS** (California Endowment Pipeline Program, Division of Public Health and Community Dentistry, UCLA School of Dentistry, Los Angeles, CA).

- 129** *Characterizing the Role of Monocytes in Immune Responses Against Oral Tumors*, **CHELCEE BAKER^{1*}, AIDA ARASTEH², HELEN TSENG², and ANAHID JEWETT²** (¹Howard Hughes Medical Institute Pre-College Science Education Program, UCLA School of Dentistry; ²The Weintraub Center for Reconstructive Biotechnology, UCLA School of Dentistry, Los Angeles, CA).

- 130** *Regulatory T Cells in Recurrent Aphthous Stomatitis*, **YESSICA JUAREZ^{1*}, AUDREY NAVARRO², and FRANCESCO CHIAPPELLI²** (¹Howard Hughes Medical Institute Pre-College Science Education Program, Los Angeles, CA; ²UCLA School of Dentistry, Los Angeles, CA).

- 131** *Tumor-Suppressive microRNAs Inhibit Cancer Cell Growth*, **DARRON KINNEY^{1*} and KI-HYUK SHIN²** (¹Howard Hughes Medical Institute Pre-College Science Education Program; ²No-Hee Park Laboratory, UCLA School of Dentistry, Los Angeles, CA).

- 132** *Micro-electrode Array Impedance as a Measure of Local Environment and Effects of Microstimulation*, **REBECCA A. PARKER^{1*}, RICK**

VANWAGENEN² and BRADLEY E. GREGER³

(¹Interdepartmental Program in Neuroscience, University of Utah, Salt Lake City, UT; ²Blackrock Microsystems, Salt Lake City, UT; ³Department of Bioengineering, University of Utah, Salt Lake City, UT).

- 133** *The Use of Network Visualization Methods to Represent the Association of Inbreeding with Lung Fibrosis Incidence in Beagle Dogs that Inhaled ²³⁸PuO₂ Or ²³⁹PuO₂*, **DULANEY WILSON^{1*}, ANDREA BRIGANTIC¹, ALAN CHAPPELL² and WILLIAM F. MORGAN¹** (¹Biological Sciences Division, Pacific Northwest National Laboratory, Richland, WA; ²National Security Directorate, Pacific Northwest National Laboratory, Seattle, WA).

Tuesday, 15 June 2010

POSTER SESSION IIScience Hall, 1st Floor Hallway

Tuesday

12:00 PM – 4:00 PM

**PHYSICS and
MATERIALS SCIENCE**

134 *Endotoxin Detection using Electrochemical Method and the Effect of Nanoscale Confinement*, GAURAV CHATTERJEE^{1*}, SRIVATSA AITHAL¹, LILIAN GONG², SUTAPA BARUA³, KAUSHAL REGE³ and SHALINI PRASAD^{1,4} (¹Department of Electrical, Computer and Energy Engineering, Arizona State University, Tempe, AZ; ²Wellesley College, Wellesley, MA; ³Mechanical, Chemical, Aerospace and Materials Engineering, Arizona State University, Tempe, AZ; ⁴Department of Electrical and Computer engineering, Portland State University, Portland, OR).

135 *Biogenic Silica Incorporated Bio Sensors for Ultra Sensitive Protein Detection*, GAURAV CHATTERJEE^{1*}, VINDHYA KUNDURU¹, SRIVATSA AITHAL¹, KAI-CHUN LIN², B. L. RAMAKRISHNA² and SHALINI PRASAD^{1,3} (¹Department of Electrical, Computer and Energy Engineering, Arizona State University, Tempe, AZ; ²Mechanical, Aerospace, Chemical and Materials Engineering, Arizona State University, Tempe, AZ; ³Department of Electrical and Computer Engineering, Portland State University, Portland, OR).

**INDUSTRIAL SCIENCE and
TECHNOLOGY**

136 *Co-precipitation of Oxyanions of Arsenic(III) onto Lanthanum and Actinium Oxides*, ANPALAKI J. RAGAVAN (Department of Environmental Engineering, University of Nevada, Reno, NV).

137 *Room Temperature Nucleic Acid Storage Technology and Sustainable Practice by Scientific Laboratories*, AUTUMN NAILES^{1*}, SUPANIGAR RUANGSRI², and ICHIRO NISHIMURA² (¹Howard Hughes Medical Institute Pre-College Science Education Program, UCLA School of Dentistry; ²The Weintraub Center for Reconstructive Biotechnology, UCLA School of Dentistry, Los Angeles, CA).

CHEMISTRY and BIOCHEMISTRY

138 *Equilibrium Conformational Dynamics in an RNA Tetraloop from Massively Parallel Molecular Dynamics*, ALLISON J. DEPAUL¹, ERIK J. THOMPSON², SARAV S. PATEL^{1*}, KRISTIN HALDEMAN³, and ERIC J. SORIN¹ (¹Department of Chemistry and Biochemistry, ²Department of Chemical Engineering, and ³Department of Mathematics and Statistics, California State University Long Beach, Long Beach, CA).

139 *Using NMR Techniques in a Model Biphasic System to Find Partition Coefficients*, EMILY DRUSSEL^{1*}, BRYAN MARTIN¹, DAVID LUKER¹, MICHAEL HILL², GERRY CHINGAS¹, and OWEN McDOUGAL¹ (¹Department of Chemistry and Biochemistry, Boise State University, Boise, ID; ²Boise Technology Inc., Nampa, ID).

CELL and MOLECULAR BIOLOGY

140 *Expression and Purification of West Nile Virus prM Candidate Antigen for an Oral Vaccine*, REECE KNIPPEL* and KENNETH CORNELL (Department of Chemistry and Biochemistry, Boise State University, Boise, ID).

141 *Cx3cl1 Gene Expression in Adipogenic and Osteogenic Induced Bone Marrow Stromal Cells*, KEMI OYEWOLE^{1*}, BELLIN ENRIQUES^{1*}, NINI CHAICHANASAKUL², OLGA BEZOUGLAIA², JEANNE NERVINA², and SOTIRIOS TETRADIS² (¹Howard Hughes Medical Institute Pre-College Science Education Program, UCLA School of Dentistry, Los Angeles, CA; ²UCLA School of Dentistry, Los Angeles, CA).

142 *Cyclic Adenosine Monophosphate and Glucose Regulate Transcription of microRNA-375 via a Protein Kinase A Dependent Pathway*, ELIZABETH CLARK*, JAMIE MILLS, JUAN ARAUJO-SARINANA*, and DAVID M. KELLER (Department of Biological Sciences, California State University Chico, Chico, CA).

143 *Creating EF1- α Promoter pTRIPz Vectors to Express Cdk2ap1-shRNAmir in Mouse Embryonic Stem Cells*, RIGO MARTINEZ^{1*}, JAMAL MATTHEWS^{1*}, AMIT DESHPANDE², JEFFREY KIM², and DAVID T. WONG² (¹Howard Hughes Medical Institute Pre-College Science Education Program, UCLA School of Dentistry, Los Angeles, CA; ²Dental Research Institute, UCLA School of Dentistry, Los Angeles, CA).

144 *A Novel Method for Interrogating Loss of Function in Apoptosis*, **CHARLES W. MORGAN^{1*}**, **DANIEL C. GRAY¹**, and **JAMES A. WELLS²** (¹Graduate Group in Chemistry and Chemical Biology, ²Departments of Pharmaceutical Chemistry and Cellular and Molecular Pharmacology, University of California San Francisco, San Francisco, CA).

145 *Delta-Catenin Positively Modulates Gamma-Secretase Function in Alzheimer's Disease*, **LILLIAN F. ZHANG***, **MOCHTAR PRIBADI**, **XIN LIU**, and **HONG WU** (Department of Molecular and Medical Pharmacology, David Geffen School of Medicine, University of California Los Angeles, Los Angeles, CA).

146 *The Differences of Mineralization and Differentiation between Regular and Induced Dental Pulp Stem Cells*, **TAYLOR ROBERSON^{1*}**, **MO KANG²**, **JUEUN OH²**, and **SHEBLI MEHRAZARIN²** (¹Howard Hughes Medical Institute Pre-College Science Education Program, UCLA School of Dentistry; ²UCLA School of Dentistry, Los Angeles, CA).

PSYCHOLOGY

147 *The Effects of Masking on Just Noticeable Differences of Frequency*, **COLTON B. CHRISTIAN** (Department of Psychology, Southern Oregon University, Ashland, OR).

148 *Olfactory Priming and Self-Perceived Ratings of Empathy*, **COLTON B. CHRISTIAN** and **JEFFREY D. WHITAKER*** (Department of Psychology, Southern Oregon University, Ashland, OR).

149 *Evaluative Framing and Escalation of Commitment*, **SAMUEL WALLIS^{1*}** and **CHARLES WALLIS²** (¹Rogers Middle School, Long Beach, CA; ²Department of Philosophy, California State University, Long Beach, CA).

SOCIAL, ECONOMIC, and POLITICAL SCIENCES

150 *Gender of Missing Persons and the Number of Years That They are Reported Missing in Missing-Persons Reports*, **STEPHEN J. MOREWITZ** (California State University, East Bay, Department of Nursing and Health Sciences, San Francisco, CA).

151 *Age of Missing Persons and the Classification of Their Behavior as Unusual in Missing-Persons Reports*, **STEPHEN J. MOREWITZ** (California

State University, East Bay, Department of Nursing and Health Sciences, San Francisco, CA).

AGRICULTURE and HORTICULTURAL SCIENCES

152 *Farming and Seed Conservation Practices Of Rice Farmers in the Marginal Uplands of Lake Sebu, South Cotabato, Philippines*, **FLORENCE LASALITA-ZAPICO***, **TRES TINNA MARTIN**, **RUBY JANE PENA**, and **CATHERINE HAZEL AGUILAR** (Science Department, College of Natural Sciences and Mathematics, Mindanao State University, Fatima, General Santos City).

153 *Genetic Diversity Analysis of Traditional Upland Rice Cultivars in Kihan, Malapatan, Sarangani Province, Philippines Using Morphometric Markers*, **FLOR-ENCE C. LASALITA-ZAPICO^{1*}**, **JAIME A. NAMOCATCAT¹**, and **JOSEPHINE L. CARIÑO-TURNER²** (¹Science Department, College of Natural Sciences and Mathematics, Mindanao State University, Fatima, General Santos City; ²Indigenous Peoples Development Program, Office of the Provincial Governor, Provincial Capitol, Alabel, Sarangani Province).