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IV. CONTRIBUTED POSTERS

193 (number italicized and underlined) indicates a student presentation

*indicates the presenter from among several authors listed

207 poster number is also the abstract number

NOTE TO PRESENTERS: Boards on which to attach poster presentations will be set up under canopies outside of the James M. Taylor II Commons. 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 display space for your poster.

Posters should be set up at least 15 minutes prior to the start time of your session. You must be present with your poster for at least one hour during the three and a half 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 1:30 p.m. to 3:30 p.m. if presenting on Monday or 9:00 a.m. to 11:00 a.m. if presenting on Wednesday 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 materials.

*Quick Directory of Sponsoring Societies
and Sections and Their Posters*

<i>society or section</i>	<i>poster numbers</i>
Agriculture and Horticulture	202 – 203
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Chemistry and Biochemistry	185 – 190
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Physics and Materials Science	191 – 194
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DONIK² (¹Department of Chemistry & Biochemistry, San Francisco State University, San Francisco, CA; ²California Section, ACS, Walnut Creek, CA)

165 *Involving Students from Pharmacy and Other Professional Schools in Science Education at K-12 Grade Levels*, ***JIM BLANKENSHIP**¹ and **JUDI WILSON**² (¹Department of Physiology and Pharmacology, School of Pharmacy, University of the Pacific, Stockton, CA; ²Office of Science and Special Projects, San Joaquin County Office of Education, Stockton, CA)

GENERAL and INTERDISCIPLINARY

166 *Archeological Residues, Chemical Clues for Deciphering Stone Tool Uses*, **JEFFREY J. ROSENRETER** (Department of Chemistry and Environmental Science, Idaho State University, Pocatello, ID)

167 *Advancing Women Faculty at Utah State: ADVANCE Goals and Outcomes*, **KIM SULLIVAN**¹, **RONDA CALLISTER**², **CHRISTINE HULT**³, ***ROBERT H. SCHMIDT**⁴, **ANN AUSTIN**⁵, **CHRISTINE HAILEY**⁶, and **TRISH KALBAS-SCHMIDT**⁷ (Departments of ¹Biology and ²Management and Human Resources, ³College of Humanities and Social Sciences, Departments of ⁴Environment and Society and ⁵Family, Consumer, and Human Development, ⁶College of Engineering, ⁷ADVANCE Office, Utah State University, Logan, UT)

HEALTH SCIENCES

168 *Looking in All the Wrong Places: HIV Patients Seeking Dental Treatment in the Medical Emergency Care System*, ***CHIOMA KAS-OSOKA**, **KAMI LAURENCE**, **RICHLAND MOSLEY** and **BENJAMIN FREED** (Southern California Regional Dentistry Post-Baccalaureate Program, University of California, Los Angeles, School of Dentistry, Los Angeles, CA)

169 *Complex Dental Treatments For HIV Patients*, ***KARONATUM**, **MARQUITA JACKSON**, **IJEOMA IGWE**, and

Monday, 16 June 2008

POSTER SESSION I

Under the Canopies

Monday

1:00 PM – 4:30 PM

EDUCATION

162 *Wetlands restoration at the University of California field site in Richmond, California*. **WILLIAM B. N. BERRY** (Department of Earth and Planetary Science, University of California, Berkeley, CA)

163 *Using Malama ke `Aina to Teach Science and Math in Hawai`i*, **COLBY KEARNS** [plus K-8 teachers and administrators, and UH Hilo faculty and graduate students] (Tropical Conservation Biology and Environmental Science M.S. Program, University of Hawai`i at Hilo, Hilo, HI)

164 *San Francisco State Chemistry Students Teach at Family Science Nights*, ***MARGARETA SEQUIN**¹ and **ALEX MA-**

BENJAMIN FREED (Southern California Regional Dentistry Post-Baccalaureate Program, University of California, Los Angeles, School of Dentistry, Los Angeles, CA)

170 *Cysteine Protease Inhibitor CSTI is a Candidate Biomarker of Senescent Cells*, **DANIEL KEPPLER¹, ZHANG, JUN³, TEERU BIHANI⁴ and *ATHENA W. LIN²** (¹College of Pharmacy and ²College of Osteopathic Medicine, Touro University, CA; ³UCSF, CA; ⁴Tufts University School of Medicine, MA)

171 *Skin Test Reactivity to Aeroallergens in Patients ≤ 15 yr old Referred to a Hilo Allergy Clinic, 1995-2007: Comparison to Honolulu Patterns in 1966 and 2006*, ***ELIZABETH TAM¹, JOY SAKAI¹, STUART RUSNAK², MARIANNE YOSHIDA¹, B. DYLAN FERN¹ and PHILIP KUO¹** (Departments of ¹Medicine and ²Pediatrics, John A. Burns School of Medicine, University of Hawaii, Honolulu, HI, Office of Student Affairs, JABSOM, Honolulu, HI)

172 *Heart Rate Variability in Adults Exposed to Different Levels of Volcanic Air Pollution*, ***DOMINIC CHOW¹, ANDREW GRANDINETTI², EDWARD FERNANDEZ¹, JENNIFER ORR¹, BARBARA BROOKS³, A. JEFF SUTTON⁴, TAMAR ELIAS⁴, REID HOSHIDE^{1,2} and ELIZABETH TAM¹** (Departments of ¹Medicine and ²Public Health Sciences, John A. Burns School of Medicine, University of Hawaii, Honolulu, HI; ³Hawaii State Department of Health; ⁴US Geological Survey, Hawaii National Park, Volcano, HI; ¹BSB 222C, Honolulu, HI)

173 *New Insights: Leprosy as a New Cure for Atherosclerosis?* **RITA CHUANG** (USC School of Dentistry, Los Angeles, CA)

ECOLOGY, ORGANISMAL BIOLOGY and ENVIRONMENTAL SCIENCES

174 *Polymer Nanocomposite Based Chemiresistive Gas Sensors*, **DIVAKARA MEKA¹, LINDA GEORGE², SHALINI PRASAD¹** (¹Department of Electrical and Computer engineering and ²Department of Environmental Science, Portland State University, Portland, OR)

175 *Quantitative Detection of MTBE-degrading Bacteria with Nanoparticle-DNA Probes*, ***REEF B. HOLLAND, AHJEONG SON and KRASSIMIRA R. HRISTOVA** (Department of Land, Air, and Water Resources, University of California Davis, Davis, CA)

176 *Free-living and Symbiotic Prokaryotes as Inorganic Nitrogen Sources to Chuuk Lagoon (Federated States of Micronesia)*, ***JEANA L. DRAKE and EDWARD J. CARPENTER** (Romberg Tiburon Center for Environmental Studies, San Francisco State University, Tiburon, CA)

177 *Seed Rain and Seed Bank Dynamics after Experimental Removal of Non-Native Species in a Hawaiian Lowland Wet Forest*, **LINDA R. SWEINHART** (Hawaii Community College, Forest TEAM Program, Hilo HI)

178 *Urban Impact on Spider Communities in the San Francisco Presidio*, ***MISHA LEONG, PEDRO MORGADO, THERESA SHELTON, and JOHN HAFERNIK** (Department of Biology, San Francisco State University, San Francisco, CA)

179 *Using Spiders as Bioindicators to Assess Success of Restoration Projects*, ***PEDRO MORGADO, MISHA LEONG, THERESA SHELTON, and JOHN HAFERNIK** (Department of Biology, San Francisco State University, San Francisco, CA)

180 *An assessment of Watershed Health in the Presidio of San Francisco using Aquatic Macroinvertebrate Communities*, **THERESA L. SHELTON** (Department of Biology, San Francisco State University, San Francisco, CA)

181 *Efficacy of Irradiated Sporozoites as a Vaccine for Avian Malaria (Plasmodium relictum)*, ***D. ALLAN HALL¹, CARTER T. ATKINSON² and SUSAN I. JARVI¹** (¹University of Hawaii at Hilo, Biology Department, Hilo HI; ²U.S. Geological Survey, Pacific Island Ecosystems Research Center, Hawaii National Park, HI)

182 *Nitrogen and Carbon Isotopic Assessment of the Discoloration of Laver Cultivated in Ariake Bay, Japan*, **SHINGO UEDA¹, CHUN-SIM U. GO¹, YUN-SEOK KIM¹, YOSHIO KAWAMURA², CHITOSHI MIZOTA³, SHOICHI SHIMOYAMA⁴ and *TAKAO KATASE¹** (¹College of Bioresource Sciences, Nihon University, Kanagawa, Japan; ²Saga Prefectural Ariake Fisheries Research and Development Center, Saga, Japan; ³Faculty of Agriculture, Iwate University, Iwate, Japan; ⁴Faculty of Sciences, Kyushu University, Fukuoka, Japan)

183 *Conservation of the Viola adunca: The Relationship between Native Forbs, Invasive Forbs and Soil Chemistry in the Clatsop Plains*, ***RAYMOND OGLE¹, DYLAN TAYLOR² and RICHARD VAN BUSKIRK¹** (¹Department of Environmental Science, Pacific University, Forest Grove, OR; ²Department of Biology, Pacific University, Forest Grove, OR)

184 *Recreational Use and Impacts Assessment for Richardson's Ocean Park, Hilo, Hawaii*, **COLBY KEARNS** (Keaau, HI)

CHEMISTRY and BIOCHEMISTRY

185 *Three Dimensional Solution Structure for alpha-Conotoxin MII [E11A]: Structure-Function Studies in the Development of Therapeutic Approaches for Parkinson's Disease*. ***MATTHEW TURNER and OWEN McDUGAL** (Department of Chemistry and Biochemistry, Boise State University, Boise, Idaho)

186 *Development of a Passive Diffusive Sampling Device for Assessment of Atrazine in Time-variant Streams of Hawaii*, ***SIMONA VADUVESCU and JON-PIERRE MICHAUD** (Department of Chemistry, University of Hawaii at Hilo, Hilo, HI)

187 *Loss of Antioxidant Gene Function Slows Protein Turnover and Photoinhibition Repair in Cyanobacteria*, ***WENDY K.**

CECIL, BETHANY BORBELY and STEPHEN K. HERBERT (Department of Plant Sciences, University of Wyoming, Laramie WY)

188 *Nle¹AIV Increases Hippocampal Matrix Metalloproteinases in Culture: A Possible Treatment for Alzheimer's Disease*, ***BENJAMIN MORESCO, PAIGE CLAIBORNE, LISA RODIN and MICHAEL SARDINIA** (Department of Biology, Whitworth University, Spokane, WA)

189 *Binding of Serotonergic Ligands to an Acetylcholine-Binding Protein*, ***ANSHUL PANDYA, ABRAHAM HARMS-SMYTH, JESTINA KUSINA, MARVIN SCHULTE** (Department of Chemistry and Biochemistry, University of Alaska Fairbanks, Fairbanks, AK)

190 *Desformylflustrabromine Synthesis and Action on Neuronal Nicotinic Receptors*, ***ANSHUL PANDYA¹, JS KIM², MEAGAN WELTZIN¹, BRIAN EDMONDS², MARVIN SCHULTE¹ and RICHARD GLENNON³** (¹Department of Chemistry and Biochemistry, University of Alaska Fairbanks, Fairbanks, AK; ²Department of Biology and Marine Biology, School of Arts & Science, University of Alaska Southeast, Juneau, AK; ³Department of Medicinal Chemistry, School of Pharmacy, Virginia Commonwealth University, Richmond, VA)

Wednesday, 18 June 2008

POSTER SESSION II

Under the Canopies

Wednesday

8:30 AM – 12:00 PM

PHYSICS and MATERIALS SCIENCE

191 *Morphology Effects on Photocatalytic Water Splitting Activity of Niobate Materials*, ***MICHAEL C. SARAHAN¹, FRANK E. OSTERLOH² and NIGEL D. BROWNING¹** (¹Department of Engineering and Materials Science, University of California, Davis, Davis, CA; ²Department of Chemistry, University of California, Davis, Davis, CA)

192 *Palladium/Polymer Nanocomposite Chemiresistive So₂ Sensor*, ***DIVAKARA MEKA¹, VALMIKANATHAN ONBATTUVELLI², SUNDER ATRE² and SHALINI PRASAD¹** (¹Department of Electrical and Computer Engineering, Portland State University, Portland, OR; ²Department of Industrial and Manufacturing Engineering, Oregon State University, Corvallis, OR)

193 *A Comparative Analysis of Iridium Oxide Nanowires in Electrical Detection of Biochemical Reactions*; ***VINU L. VENKATRAMAN¹, RAVIKIRAN K REDDY¹, FENGYAN ZHANG², VICTOR HSU², DAVID EVANS², BRUCE ULRICH², SHALINI PRASAD¹** (¹Portland State University, Portland, OR; ²Sharp Labs of America Inc, Camas, WA)

194 *Phase Transitions and Ferroelectricity in NaSb₃F₁₀* **R. J. CHRISTIE, *J. MATTHEWS, P. WU, P. PHOTINOS and S. C. ABRAHAMS** (Department of Physics and Engineering, Southern Oregon University, Ashland, OR)

WESTERN SOCIETY of CROP SCIENCE

195 *The Effect of Intercropping Annual Ryegrass with Pinto Beans in Mitigating Iron Deficiency in Calcareous Soils*, ***EMMANUEL OMONDI¹, MIKE RIDENOUR², CINDY RIDENOUR² and RIK SMITH³** (¹Plant Sciences, University of Wyoming, Laramie, WY; ²Meadow Maid Foods, Yoder, WY; ³Department 3354, University of Wyoming, Laramie, WY)

196 *The Legume Integrated Pest Management-Pest Information Platform for Extension and Education (Legume ipm-PIPE) in Idaho*, **HENRY TERAN¹, RAM SAMPANGI², S. KRISHNA MOHAN², HOWARD SCHWARTZ³ and SHREE SINGH⁴** (¹Plant, Soil and Entomological Sciences Department, University of Idaho, Kimberly, ID; ²Plant, Soil and Entomological Sciences Department, University of Idaho, Parma, ID; ³Colorado State University, Fort Collins, CO; ⁴University of Idaho, Kimberly, ID)

197 *Adaptation of Fall Sown Medic, Pea, Vetch, and Lentil to the 2007-08 Climate of the High Plains of Wyoming*, **CHRIS LOEHR, JERRY NACHTMAN, JACK CECIL, STEVE PAISLEY and JAMES KRALL** (Sustainable Agricultural

CONTRIBUTED POSTERS

Research and Extension Center, University of Wyoming, Lingle, WY)

- 198 *Is Fallow Necessary in the Intermediate Precipitation Regions (300-400 mm) of the Pacific Northwest?* **STEPHEN MACHADO** (Oregon State University, Pendleton, OR)

- 199 *Forage Availability Using Agricultural Conservation in North Central Mexico*, **MIGUEL A. MARTINEZ** (CE San Luis, INIFAP, San Luis Potosi, Mexico)

- 200 *Yield and Yield Components Response of Wheat to Zinc Grown in Saline Soil*, ***MOHSEN SEILSEPOUR¹ and ABED FOROUZESH²** (¹Department of Soil and Water, Varamin Agricultural Research Center, Varamin, Iran; ²Department of Agronomy, University of Tehran, Pakdasht, Iran)

- 201 *Comparison of 'Forager' USDA Miscellaneous Class Dry Pea to 'Carnival' Yellow Pea in Terms of Feed Quality and Livestock Feed Performance*, **JACK CECIL, JAMES KRALL, BRET HESS, VENERAND NAYIGHUGU and JERRY NACHTMAN** (Sustainable Agricultural Research and Extension Center, University of Wyoming, Lingle, WY)

AGRICULTURE and HORTICULTURAL SCIENCE

- 202 *The James C. Hageman Sustainable Agriculture Research and Extension Center*, **JACK T. CECIL, JAMES M. KRALL, STEVE PAISLEY, and KELLY T. GREENWALD** (UW SAREC Center, Lingle, WY)

- 203 *Evaluation of Molecular Detection Methods for Ralstonia solanacearum in Hawaiian Soils*. **ANDREW READ¹, THEODORE WILSON² and MICHAEL SHINTAKU¹** (¹College of Agriculture, Forestry and Natural Resources Management, University of Hawaii at Hilo, Hilo, HI; ²University of Colorado Health Sciences Center, Denver, CO)

EARTH SCIENCE

- 204 *A New Species of Cryptantha Found on Pre-Bull Lake Alluvial Fan Deposits from the Big Lost River Valley, Idaho*, **ERIC R. BERGEY¹, RON B. KELLEY², *CARLI M. MORRIS¹, RYAN PANGELINAN², JAY VAN TASSELL¹, and SHELBY WARREN²** (¹Department of Geology, Eastern Oregon University, La Grande, OR; ²Department of Chemistry, Eastern Oregon University, La Grande, OR)

- 205 *The Geology and Geomorphology of the late Miocene Maggie's Vent, a Basaltic Fissure Volcano, Mount Fanny Quadrangle, Northeastern Oregon*, ***ERIC R. BERGEY, CARLI MORRIS, and JAY VAN TASSELL** (Department of Geology, Eastern Oregon University, La Grande, OR)

ANTHROPOLOGY and ARCHAEOLOGY

- 206 *SES Differences Explain Ethnic Disparities in Body Mass, Total Cholesterol and Glucose Levels in Native Hawaiian and Non-Hawaiian School Children in East Hawaii*, ***LENARD ALLEN¹, AKOLEA IOANE², ALEXIA COMSTOCK², DANIEL E. BROWN¹ and LINCOLN GOTSHALK²** (¹Department of Anthropology, University of Hawaii at Hilo, Hilo, HI; ²Department of Kinesiology, University of Hawaii at Hilo, Hilo, HI)

- 207 *Young School Children in East Hawaii Are Heavier Than U.S. Averages: The Effect of Ethnicity*, ***DANIEL E. BROWN¹, MALEA JOEL², LINCOLN GOTSHALK², BRITTANY DOCK² and HAROLD A.T. TEFFT¹** (¹Department of Anthropology, University of Hawaii at Hilo, Hilo, HI; ²Department of Kinesiology and Exercise Science, University of Hawaii at Hilo, Hilo, HI)

- 208 *Ethnic Comparison of Objective and Subjective Hot Flashes in an Ambulatory and Laboratory Setting: The Hilo Women's Health Study*, ***AMBER N. GOODLOE¹, DANIEL E. BROWN¹, PHOEBE S. MILLS¹, LYNN A. MORRISON¹, JENNIFER DUTRA¹ and LYNNETTE L. SIEVERT²** (¹Department of Anthropology, University of Hawaii at Hilo, Hilo, HI; ²Department of Anthropology, University of Massachusetts, Amherst, MA)

- 209 *Plasma Lipid Patterns in Women at Mid-life in a Multiethnic Population: The Hilo Women's Health Study*, ***NICHOLE J. RAHBERG¹, DANIELE BROWN¹, PHOEBE S. MILLS¹, LYNN A. MORRISON¹, KRISTINA McCracken¹ and LYNNETTE L. SIEVERT²**. (¹Department of Anthropology, University of Hawaii at Hilo, Hilo, HI; ²Department of Anthropology, University of Massachusetts, Amherst, MA)

SOCIAL, ECONOMIC and POLITICAL SCIENCES

- 210 *Domestic Violence Offenders' Use of Illicit Drugs and Alcohol as a Risk Factor for Arrest*, **STEPHEN J. MOREWITZ** (Research Division, Stephen J. Morewitz & Associates, IL & CA, Litigation Consultants, San Francisco, CA)

- 211 *Domestic Violence Suspects' Use of Alcohol and Illicit Drug Use and Rape and Sexual Assault in Dating, Intimate Partner, and Acquaintance Relationships*, ***STEPHEN J. MOREWITZ, TIM DUTRA and VIKAS MENGHANI** (California State University, East Bay, Department of Public Affairs & Administration & Student Health Services, & Stephen J. Morewitz, & Associates, IL & CA, San Francisco, CA)