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PROGRAM with ABSTRACTS

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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

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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* and ALEX MA-

DONIK2 (Department 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* and *JUDI WILSON* (Department of Physiology and Pharmacology, School of Pharmacy, University of the Pacific, Stockton, CA; Office 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. ROSETRETER (Department of Chemistry and Environmental Science, Idaho State University, Pocatello, ID)

167 Advancing Women Faculty at Utah State: ADVANCE Goals and Outcomes, KIM SULLIVAN1, RONDA CALLISTER2, CHRISTINE HULT1, *ROBERT H. SCHMIDT*1, ANN AUSTIN*1, CHRISTINE HAILEY2, and TRISH KALBAS-SCHMIDT1 (Departments of Biology and Management and Human Resources, College of Humanities and Social Sciences, Departments of Environment and Society and Family, Consumer, and Human Development, College of Engineering, ADVANCE 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-OSSOKA, 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, *KARONA TUM, MARQUITA JACKSON, IJEOMA IGWE,* and
CONTRIBUTED POSTERS

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

170 Cysteine Protease Inhibitor CST1 is a Candidate Biomarker of Senescent Cells. DANIEL KEPPLER1, ZHANG, JUN1, TEERU BHANI4 and *ATHENA W. LIN3 (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 RUSNAK1, MARIANNE YOYSHIDA1, 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, JABGOM, Honolulu, HI)

172 Heart Rate Variability in Adults Exposed to Different Levels of Volcanic Air Pollution. *DOMINIC CHOW1, ANDREW GRANDINETTI1, EDWARD FERNANDEZ1, JENNIFER ORR1, BARBARA BROOKS1, A. JEFF SUTTON1, TAMAR ELIAS1, REID HOSHIDE1,2 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; 5BSB 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 GEORGE1, 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, AHJIEONG 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 Chukk 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 HAFFERNIK (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 HAFFERNIK (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 MIZOTA2, SHOICHI SHIMOMURA3 and *TAKAO KATASE4 (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 TAYLOR1 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 McDougal (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 NeMV Increases Hippocampal Matrix Metalloproteinases in Culture: A Possible Treatment for Alzheimer’s Disease, *BENJAMIN MORESCO, PAIGE CLAIBORNE, LISA RODIN and MICHAEL SARDINA (Department of Biology, Whitworth University, Spokane, WA)

189 Binding of Serotonergic Ligands to an Acetylcholine-Binding Protein, *ANSHUL PANDYA, ABRAHAM HARM- 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 PANDYA, JS KIM, MEAGAN WELTZIN, BRIAN EDMONDS, MARVIN SCHULTE* and RICHARD GLENNON (*Department of Chemistry and Biochemistry, University of Alaska Fairbanks, Fairbanks, AK; 1Department of Biology and Marine Biology, School of Arts & Science, University of Alaska Southeast, Juneau, AK; 2Department of Medicinal Chemistry, School of Pharmacy, Virginia Commonwealth University, Richmond, VA)

WESTERN SOCIETY of CROP SCIENCE

195 The Effect of Intercropping Annual Ryegrass with Pinto Beans in Mitigating Iron Deficiency in Calcareous Soils, *EMMANUELO OMONDI, MIKE RIDENOUR, CINDY RIDENOUR* and RIK SMITH (*Plant Sciences, University of Wyoming, Laramie, WY; 1Meadow Maid Foods, Yoder, WY; 2Department 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 TERAN, RAM SAMPANGL, S. KRISHNA MOHAN, HOWARD SCHWARTZ and SHREE SINGH (*Plant, 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 SEILSEPPOUR and ABED FOROUZESH (*Department of Soil and Water, Varamin Agricultural Research Center, Varamin, Iran; Department 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, BRETT 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 READ, THEODORE WILSON and MICHAEL SHINTAKU (*College of Agriculture, Forestry and Natural Resources Management, University of Hawaii at Hilo, Hilo, HI; University 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. BERGEY, RON B. KELLEY, *CARLI M. MORRIS, RYAN PANGELINAN, JAY VAN TASSELL, and SHELBY WARREN (*Department of Geology, Eastern Oregon University, La Grande, OR; Department of Chemistry, Eastern Oregon University, La Grande, OR)

205 The Geology and Geomorphology of the late Miocene Maggie’s Vent, a Basanite 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 ALLEN, AKOLEA IOANE, ALEXIA COMSTOCK, DANIEL E. BROWN and LINCOLN GOTSHALK (*Department of Anthropology, University of Hawaii at Hilo, Hilo, HI; Department of Kinesiology, University of Hawaii at Hilo, Hilo, HI)

207 Young School Children in East Hawaii Are Heavier Than U.S. Agemates: The Effect of Ethnicity, *DANIEL E. BROWN, MAELEA JOEL, LINCOLN GOTSHALK, BRITTANY DOCK and HAROLD A.T. TEFFT (*Department of Anthropology, University of Hawaii at Hilo, Hilo, HI; Department 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. GOODLOE, DANIEL E. BROWN, PHOEBE S. MILLS, LYNN A. MORRISON, JENNIFER DUTRA and LYNNETTE L. SIEVERT (*Department of Anthropology, University of Hawaii at Hilo, Hilo, HI; Department 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. RAHBERG, DANIEL. E. BROWN, PHOEBE S. MILLS, LYNN A. MORRISON, KRISTINA McCracken and LYNNETTE L. SIEVERT (*Department of Anthropology, University of Hawaii at Hilo, Hilo, HI; Department 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)