

III. CONTRIBUTED ORAL PRESENTATIONS

1100 (time italicized and underlined) indicates a student presentation

* indicates the speaker from among several authors listed

63 (bolded number) indicates abstract number

Monday, 14 June 2010

***Joint Session of Sections of
Anthropology and Archaeology
Health Sciences***

Science 215

Monday

8:45 a.m. – 11:30 a.m.

Program organizers: *Stephen R. Frost* (Department of Archaeology, University of Oregon, Eugene, OR), *Walter Carl Hartwig* (Division of Basic Medical Sciences, Touro University College of Osteopathic Medicine, Mare Island, CA), and *H.K. Choi* (Department of Biology, California State University Dominguez Hills, Carson, CA).

Anthropology and Archaeology

Session Chair: *Stephen R. Frost*

8:45 *Introductory Comments*

8:50 82 *Orientalism, Invention, and the New Exotic: A Study of American Belly Dance*, **JENNIFER HAYNES-CLARK** (Independent Scholar, Talent, OR).

9:10 83 *Composition of Ancient Rope and Cloth from the Judean Desert*, **TERENCE M. MURPHY**^{1*} and **NAHUM BEN-YEHUDA**² (¹Department of Plant Biology, University of California, Davis, CA; ²Department of Jewish History, Bar Ilan University, Ramat-Gan, Israel).

9:30 84 *Sexual Dimorphism in Growth of Human Manual Digital Proportions*, **DEANNA M. MORRIS***, **STEPHEN R. FROST**, **ROBERT PASTOR**, **J. JOSH SNODGRASS**, **LAWRENCE SUGIYAMA**, and **FRANCES J. WHITE** (Department of Anthropology, University of Oregon, Eugene, OR).

9:50 85 *The Nguoi Rung Footprint: Evidence of Vietnam's "Forest People"?* **D. JEFFREY MELDRUM** (Department of Biological Sciences, Idaho State University, Pocatello, ID).

10:10 BREAK

Health Sciences

Session Chair: H.K. Choi

10:30 86 *Patent Foramen Ovale as a Cause of Migraine Headache in Adults with Congenital Heart Disease with No Known Cardiac Shunts*, **MARAT A. VOLMAN***, **RUBINE GEVORGYAN**, and **JONATHAN M. TOBIS** (Department of Medicine, Division of Cardiology, David Geffen School of Medicine at UCLA, Los Angeles, CA).

10:50 87 *H1N1: Then and Now*, **JESSICA BOWMAN** (Department of Biology, Southern Oregon University, Ashland, OR).

11:10 88 *Surfing for Misinformation: Emerging Trends in Vaccine Opposition Website Content*, **SANDRA J. BEAN** (Department of Public Health, College of Health and Human Sciences, Oregon State University, Corvallis, OR).

***Joint Session of Sections of
Psychology
Computer and Information Sciences
Social, Economic and Political Sciences
General and Interdisciplinary Studies***

Science 215

Monday

1:25 p.m. – 4:10 p.m.

Program organizers: *J. Kenneth Nishita* (Department of Psychology, California State University Monterey Bay, Seaside, CA), *Alan E. Leviton* (California Academy of Sciences, San Francisco, CA), *Carl A. Maida* (UCLA Schools of Dentistry and Medicine, University of California, Los Angeles, CA), and *Robert L. Chianese* (California State University (retired), Northridge, CA).

Session Chair: *Carl A. Maida*

1:25 *Introductory Comments*

1:30 89 *Software Security in the .Net Framework (Attack and Defense)*, **JON McCOY** (Department of Computer Science, Southern Oregon University, Ashland, OR).

CONTRIBUTED ORAL PAPERS – Monday

1:50 90 *The Imaginal Stone: Stories of Self and World*, **CYNDERA M. QUACKENBUSH** (Counseling Psychology, Pacifica Graduate Institute, Santa Barbara, CA).

2:10 91 *Science: A Lever for Global Integrity*, **KALÁ PERKINS** (Department of Bioethics, Loyola Marymount University, Los Angeles, CA).

2:30 92 *Environmental Transformation, Migration and Conflict: Resource and Identity Issues in Contemporary Diasporas*, **ANITA HAGY FERGUSON** (Southern Oregon University, Ashland, OR).

2:50 BREAK

3:10 93 *Cartooning Misery: Images of the Great Depression and New Deal*, **MARK ALDRICH** (Department of Economics, Smith College, Northampton MA).

3:30 94 *The Counter-Intuitive Disharmony of Intuition Research in the Cognitive Sciences*, **JOHN CLEVENGER*** and **CHARLES WALLIS** (Department of Philosophy, California State University, Long Beach, CA).

3:50 95 *Individual Heterogeneity of Perceptual/Cognitive/Cogitative/Action Types among Scientists*, **MAGOROH MARUYAMA** (Interactive Heterogenistics, San Diego, CA).

Tuesday, 15 June 2010

***Joint Session of Sections of
Education
Chemistry and Biochemistry***

Science 067

Tuesday

8:45 a.m. – 12:00 p.m.

Program organizers: *William B.N. Berry* (University of California Berkeley, Berkeley, CA) and *Owen M. McDougal* (Boise State University, Boise, ID)

Education

Session chair: *William B.N. Berry*

8:45 *Introductory Comments*

8:50 96 *The UCSD COSMOS Optical Engineering Cluster: A Month-Long Residential Intensive Academic Experience for Talented Grades 9 - 12 Students*, **ERNEST M. KIM^{1*}**, **CLARK C. GUEST²**, **REBECCA L. HAMES²**, **CHARLES W. TU²**, and **PETER N. ILINYKH²** (¹Department of Engineering, University of San Diego, San Diego, CA; ²Jacobs School of Engineering, University of California, San Diego, La Jolla, CA).

9:10 97 *A Creek Flows Through: Project Based Learning in an Environmental Science Course*, **WILLIAM B. N. BERRY*** and **MATHIAS KONDOLF** (Environmental Science Program, College of Undergraduate Interdisciplinary Studies, University of California, Berkeley, CA).

9:30 98 *An Evaluation of the Effect on Student Learning of Using Multiple Textbook Editions in Course Delivery*, **THOMAS F. SCHUBERT, JR.***, **FRANK G. JACOBITZ**, and **ERNEST M. KIM** (Department of Engineering, University of San Diego, San Diego, CA).

9:50 BREAK

Chemistry and Biochemistry

Session Chair: *Owen M. McDougal*

10:20 99 *Use of X-ray Microanalysis and Infrared Microspectroscopy for Multianalytical Characterization of the Walters Codex, an Ethiopian Manuscript*, **NATASJA A. SWARTZ*** and **TAMI LASSETER CLARE** (Department of Chemistry, Portland State University, Portland, OR).

10:40 100 *Going Green in the Organic Lab*, **AUBREY JOHNSTON^{1*}**, **MICHAEL M. McCORMICK²**, **KAREN HAMMON¹**, **DON WARNER¹**, and **OWEN M. McDOUGAL¹** (¹Department of Chemistry and Biochemistry, Boise State University, Boise, ID; ²Homeland Security, Chicago, IL).

11:00 101 *Abiotic Organic Synthesis at Seafloor Hydrothermal Systems on Prebiotic Earth*, **JOHN R. HOLLOWAY** (Department of Chemistry and Biochemistry and School of Earth and Space Exploration, Arizona State University, Tempe, AZ).

11:20 102 *A Transport Model for the Adsorption of Oxyanions of Arsenic onto Lanthanum and Actinium Oxides and Hydroxides and Calcite*, **ANPALAKI J. RAGAVAN** (Department of Environmental Engineering, University of Nevada, Reno, NV).

11:40 103 *Bifurcation Analysis of Cooperative Binding Enzymes-substrate Systems*, **DAVID BLACKMAN** (University of California Berkeley (retired), Phoenix, OR).

***Joint Session of Sections of
Ecology, Organismal Biology and
Environmental Sciences
Cell and Molecular Biology***

Science 057

Tuesday

9:05 a.m. – 11:50 a.m.

Program organizers: *Richard Van Buskirk* (Department of Environmental Studies, Pacific University, Forest Grove, OR), *Michael Parker* (Department of Biology, Southern Oregon University, Ashland, OR) and *Kenneth Cornell* (Department of Chemistry and Biochemistry, Boise State University, Boise, ID)

Session Chair: *Kenneth Cornell*

Ecology, Organismal Biology and
Environmental Studies

8:55 *Introductory Comments*

9:00 104 *The Origin of the Domestic Dog Revisited*, **JANICE KOLER-MATZNICK** (Central Point, OR).

9:20 105 *Ecology of Alpine and Subalpine Populations of Botrychium pumicola (Pumice Moonwort), a Rare Cascade Range Endemic Fern*, **SUSAN ROE-ANDERSEN***, **DARLENE SOUTHWORTH**, and

STEWART W. JANES (Department of Biology, Southern Oregon University, Ashland, OR).

Molecular Biology, ²Department of Biology, Brigham Young University, Provo, UT).

Cell and Molecular Biology

9:40 106 *The Roles of Different CLE Domains in Arabidopsis CLE Polypeptide Functional Specificity and Activity*, LING MENG^{1*}, KENNETH C. RUTH¹, JENNIFER C. FLETCHER², and LEWIS FELDMAN¹ (¹Department of Plant and Microbial Biology, University of California, Berkeley, CA; ²Plant Gene Expression Center, USDA-UC Berkeley, Albany, CA).

10:00 BREAK

10:20 107 *Saccharomyces cerevisiae Adhesion Properties Influenced by Saccharides*, LAURINE J. SHAHMIRIAN^{1*} and STEVEN B. OPPENHEIMER² (¹Chaminade College Preparatory High School, West Hills, CA; ²Department of Biology and Center for Cancer and Developmental Biology, Northridge, CA).

10:40 108 *Interaction Between Ah Receptor and Stat1 Proteins During Cell Cycle Progression*, CHERI L. LAMB* and KRISTEN A. MITCHELL (Dept. of Biological Sciences, Boise State University, Boise, ID).

11:00 109 *Effect of Solar UV Radiation and Nuclear Receptor Signaling in Keratinocyte and Melanocyte Homeostasis*, DANIEL COLEMAN^{1,2*}, ZHIXING WANG¹, HYOSANG JANG¹, STEPHEN HYTER^{1,2}, XIAOBO LIANG¹, LIONEL LARUE⁴, GITALI INDRA¹, and ARUP INDRA^{1,2,3} (¹Department of Pharmaceutical Sciences, College of Pharmacy, ²Molecular and Cellular Biology Program, ³Environmental Health Science Center, Oregon State University, Corvallis, OR; ⁴Developmental Genetics of Melanocytes, Institut Curie, Orsay Cedex, France).

11:20 110 *Creation of MTN Gene Knock-outs To Probe Autoinducer Effects on Bacterial Virulence*, KELLI PEASE^{1*} and KEN CORNELL² (¹Department of Biological Sciences, and ²Department of Chemistry & Biochemistry, Boise State University, Boise, Idaho 83725-1520; kellipeace@u.boisestate.edu).

11:40 111 *Localization of Thymidine Kinase 1 in Human Lymphoma Cells through Immunogold Labeling Transmission Electron Microscopy*, MELISSA TOVAR¹, MORGAN HARDY^{1*}, MICHAEL STANDING², KIM O'NEILL¹, and RICHARD ROBISON¹ (¹Department of Microbiology and