Session Three: Math, Physics, and Engineering – Room D

2:50 – 3:30 p.m.

Invited Speakers and Title of Presentation

Prof. Kenji Kajiwara, Kyushu University
Is There Anything Left Undone in Mathematics?

Prof. Minoru Yoneda, Kyoto University
Status of Radioactive Soil Contamination in Fukushima and its Decontamination

3:30 – 3:40 p.m. Break (coffee and refreshments)

Session Three: Math, Physics, and Engineering (Cont.) – Room D

3:40 – 5:10 p.m.

Invited Speakers and Title of Presentation

Prof. Yoshihiro Kawahara, University of Tokyo
Inkjet-Printed Perpetual Flexible Sensors Powered by RF Energy Harvesting

Prof. Rebeka Sultana, California State University
Challenges in Predicting Snow Water Equivalent in the Western United States

Alumni Speakers and Title of Presentation

Prof. Ramesh P. Singh, Chapman University
Dust and Anthropogenic Emissions over Indo-Gangetic Plains: A Serious Concern

Prof. Ranga Narayanan, University of Florida
Spatial and Temporal Oscillations in Fluid Convection

Prof. Greg Durgin, Georgia Tech
Space Solar Power Design Using Competitive Projects

Prof. Yuri A. Barnakov, Norfolk State University
Nanostructured Materials: Yesterday and Today

Dr. Shamim M. Mirza, PK Corporation
Nanoimprinting Lithography for Electric, Optoelectric and Biological Applications

5:10 – 6:30 p.m. **Poster Presentation** ▪ Break (coffee and refreshments)
6:30 – 8 p.m. Welcome Dinner DI

Available All Day Poster Viewing

- Social Sciences and Humanities: Prof. Alexander R Bay, Dr. Blanca Kacouris
- Chemistry, Biology and Medical Sciences: Prof. Simone Aloisio, Dr. Melissa Pui Ling Chan
- Math, Physics, and Engineering: Prof. Baofeng Feng, Dr. Junaid As-Salek, Allan Avendaño

Japan Society for the Promotion of Science (JSPS)

US ALUMNI ASSOCIATION 3RD MULTIDISCIPLINARY SCIENCE FORUM (MSF)

Orange, California Meeting, February 1, 2013

CHAPMAN UNIVERSITY

ORGANIZING COMMITTEES

JSPS–US Alumni Association Executive Committee:

Blanca Chattin-Kacouris
(Chairperson, Representative for Biology and Medical Science Group)
Shamim Mirza (Vice Chairperson, Representative for Math and Physics Group)
Ying Hu (Vice Chairperson, Representative for Chemistry Group)
Andrea Molle (Representative for Social Science and Humanity Group)

Chapman University:

Andrea Molle
(Research Associate, Wilkinson College of Humanities and Social Sciences and IRES)
Alexander Bay (Assistant Professor, History Department, Chapman University)
Yolanda Uzzell (Director of Research and Sponsored Programs Administration)
Taryn Stroop
(Creative Projects and Events Manager, Wilkinson College of Humanities and Social Sciences)

JSPS Washington Office:

Osamu Shimomura (Director)
Fumiyo Kaneko (Associate Director)
Takuya Miyakawa (Adviser)
Thet Win (Liaison Officer)
Yoshitaka Ochi (Adviser)
Hironori Makita
(International Program Associate)
Tomomi Narita
(International Program Associate)
Kyoko Shimizu
(International Program Associate)

CHAPMAN UNIVERSITY | WILKINSON COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

Friday, February 1, 2013

Sandhu Conference Center, Chapman University

8:30 – 9 a.m.

Registration and Poster Session – Sandhu Conference Center Foyer

9 – 10 a.m.

Welcome and Opening Remarks – Room D
Dr. Blanca Chattin–Kacouris, Chairperson of JSPS – US Alumni Association
Dr. Daniele C. Struppa, Chancellor of Chapman University
Dr. Patrick Fuery, Dean of the Wilkinson College of Humanities and Social Sciences
Dr. Osamu Shimomura, Director of the JSPS Washington Office
Dr. Janeen Hill, Interim Dean of the Schmid College of Science and Technology

10 – 11 a.m.

Keynote Address – Dr. Menas Kafatos
The Problem of Consciousness in Modern Science:
Does Quantum Theory Have Something to Say?

Dr. Menas Kafatos
Professor, Director, Center of Excellence in Earth Observing

Dr. Menas Kafatos joined Chapman University in 2008 as the Vice Chancellor for Special Projects. He is the founding Dean of the Schmid College of Science and Technology, Director of the Center of Excellence in Earth Systems Modeling and Observations (CEESMO), and Fletcher Jones Endowed Professor of Computational Physics. He received his B.A. in Physics from Cornell University in 1967 and his Ph.D. in Physics from the Massachusetts Institute of Technology in 1972.

Dr. Kafatos has 35 years of experience in undergraduate and graduate Earth systems science, hazards, remote sensing and data information systems, physics, computational and theoretical astrophysics, astronomy, and foundations in quantum theory.

He has published numerous books and more than 250 articles on computational science, astrophysics, Earth systems science, hazards and global change, general relativity, cosmology, foundations of quantum theory, and consciousness. He has been the Principal Investigator on more than 50 astronomical observational programs and on four NASA Science Applications grants.

His current research interests include interdisciplinary Earth system science, natural hazards and climate change, tropical cyclones, and aerosols and pollution in mega-cities.

11 – 11:20 a.m.

Break (coffee and refreshments)

Session One: Social Sciences and Humanities – Room D

11:20 – 12:40 p.m.

Invited Speakers and Title of Presentation

Prof. Stephanie Ohshita, University of San Francisco
Low-Carbon Cities: Strategies for Carbon Saving and Resilient City Systems

Prof. Jerry Park, Baylor University
Asian American Religions in the 21st Century

Prof. Yoshihiko Kadoya, Institute of Social and Economic Research, Osaka University
Managing the Human Service Market: The Case of Long-Term Care in Japan

Dr. Andrea De Antoni, Ritsumeikan University
Steps to an Ecology of Spirituality

Luncheon Fundraising for Japan Relief – Room D1

12:40 – 2 p.m.

Introduction by Yolanda M. Uzzell, Director of Research and Sponsored Program Administration Address by Dr. Rosalee Hellberg, Department of Food Science, Schmid College of Science and Technology, What's on your plate?: Use of DNA Bar-coding to Detect Fish Fraud.

Session Two: Chemistry, Biology, and Medical Sciences – Room D

2 – 2:50 p.m.

Invited Speakers and Title of Presentation

Prof. Harold Slavkin, University of Southern California
The Fruits of the Biological Revolution: From Darwin to Clinical Trials

Alumni Speakers and Title of Presentation

Prof. Longjian Liu, Drexel University
A Significant Increasing Trend of the Prevalence of Hypertensive Diseases in the United States: Findings from 1980–2007 National Hospital Discharge Surveys

Prof. Md Anowarul Islam, University of Wyoming
Biofuel and Forage Potential of Cool-Season Grass Genotypes

Prof. Jingbo Louise Liu, Texas A&M University
Alternative Energy: Build Effective Cathode Catalyst to Enhance Fuel Cell Performance