

2010 INTERNATIONAL WORKSHOP ON ENVIRONMENT AND ENERGY

“Global Collaboration in Sustainable Environmental and
Alternative Energy Strategies”

San Diego, California | November 2 - 4, 2010

Tuesday, November 2

Welcome, Special Remarks 8:30—9:45

Opening remarks—Frieder Seible, Dean, Jacobs School of Engineering, UCSD,
General Castelo Branco, C3P and Olga Dominguez, NASA

Green Sustainable Development and Redevelopment 10:00—11:50

Portugal “ECOS NETWORK” Project – Energy and Sustainable Construction, Mariana Alves-Pereira, C3P
NASA Ames Research Center Sustainability Base Project, Kristina Wilmoth, NASA ARC
Designing and Building the Facilities of the Future Today, Otto Van Geet, NREL
Sustainable Port of San Diego, Michelle White, Port of San Diego

Materials Management and Substitution in Support of Space Operations—1:00—5:30

How Environmental Regulations Can Lead to Material Obsolescence, Gail Grafton, NASA RRAC PC
Overview of AFSPC Corrosion Solutions, Bill Hoogsteden, AFRL
NASA Cleaning and Cleanliness Verification Issues, Christina Pina Arpin, NASA WSTF
NASA TEERM Hexavalent Chromium-free Coatings Projects, Matt Rothgeb, ITB
Hexavalent Chrome Replacement Projects, Mark Jaworowski, UTRC
Environmental Projects for Aerospace Applications, Nancy Whitmire, AMRDEC
Material Selection for Space Programs, Thomas Rohr, ESA
Lead-free Technology Experiment in a Space Environment, Jim Blanche, NASA MSFC

Wednesday, November 3

Remediation Technologies and Strategies 8:30—10:30

PCB treatment of painted surfaces, walls and caulking, Jackie Quinn, NASA KSC
U.S. EPA Environmental Technology Verification Program, Heather Rectanus, Battelle
Environmental Damage and Remediation Actions – A Case Study, Marco Estrela, ISQ
NASA Emulsified Zero-Valent Iron (EZVI) Technology, Jackie Quinn, NASA KSC

Panel Session 10:45—12:35

Measuring Sustainability - Panel Discussion, Moderator: James Leatherwood, NASA HQ
Panel Participants – Nathalie Meusy, ESA, John Dilliot, UCSD, Portuguese Government Official

Student Presentations and Poster Session 1:45—4:45

Student Presentations and Poster Session on Related International and Domestic Research

Reception—Sponsored by Sanyo 5:00—7:00

Thursday, November 4

Emerging Renewable and Alternative Energy Technologies 8:00—12:15

Renewable Energy: Challenges and Risks, Eduardo Dias Lopes, ISQ
Solar Forecasting Using Sky Imagery for High Solar Penetration, Jan Kleissl, UCSD
Lithium Ion Battery Technology Advancements, Hiroshi Hanafusa, Sanyo
Hybrid Fuel Cell Bus Technology, Joshua Goldman, Proterra
Innovative Solar Technology Demonstration Project, Steve Jaffe, San Diego Gas & Electric
Mobile Hydrogen Fuel Cell Lighting Project, Lennie Klebanoff, Sandia National Laboratories
Concentrated Solar Air Conditioning for Buildings Project, Al Sorkin, ITB
The OMEGA (Offshore Membrane Enclosures for Growing Algae) Project at ARC, Marty Czarnecki & Mary Martis, URS Corp.

Encroachment Risk Analysis and Mitigation—1:30—3:15

Encroachment Management: A Comprehensive Approach, Alan Zusman, TEC, Inc.
Encroachment – Redefining the Fence Line, CDR Dale Seeley, USN
Rare Earth Metals Scarcity, Mick Bilney, TEC

Adaptive Response to Climate Change—3:15—5:00

Impacts of Climate Change on KSC Launch Sites, John Shaffer, NASA KSC
Impacts of Climate Change at Wallops Flight Facility,Carolynn Turner, NASA WFF