



NASA Student Airborne Research Program

Final Presentations

Tuesday July 26, 2011

1:30PM-1:45PM Shawn Kefauver, University of California Davis, SARP Mentor
Land Group Introduction

1:45PM-2:00PM Elaine Snyder, Indiana University
Using Remote Sensing to Monitor the Risk of Wild Fires in California

2:00PM-2:15PM Aaron Gartner, University of California Irvine
Atmospheric Correction In The Visible-Near Infrared Spectrum and Bidirectional Reflectance Distribution Function Correction

2:15PM-2:30PM Justin Trammell, University of Houston
Thermal Infrared Calibration and Systems Analysis

2:30PM-2:45PM Steven Davey, University of Michigan
Relating Leaf Area Index to other Vegetation Indices

2:45PM-3:00PM Daniel Kurzweil, College of Staten Island
Multivariate Analysis of Orchard Water Use

3:00PM-3:30PM **Coffee Break**

3:30PM-3:45PM Joshua Young, Case Western Reserve University
Estimating Evapotranspiration in Almond Orchards Using Penman-Monteith Equation

3:45PM-4:00PM Lauren Slawsky, University of North Carolina Charlotte
Almond Orchard Water Stress and Climate Change in the Central Valley

4:00PM-4:15PM Brandon Furey, Gustavus Adolphus College
Comparing SEBAL and METRIC: Evapotranspiration models applied to Paramont Farms Almond Orchards

4:15PM-4:30PM Kirsten Siebach, Washington University in St. Louis
Monitoring Evapotranspiration of Almond Orchards using METRIC-based Modeling with MASTER Imagery

Wednesday July 27, 2011

8:00AM-8:15AM Sherry Palacios, Univ. of California Santa Cruz, SARP Mentor
Ocean Group Introduction

8:15AM-8:30AM Amelia Snow, Rutgers University
The Effects of El Nino and La Nina on Phytoplankton Biomass in the Santa Barbara Channel

- 8:30AM-8:45AM** Noah Singer, Cornell University
*Evaluating Health of Giant Kelp, *Macrocystis pyrifera*, from MASTER Imagery*
- 8:45AM-9:00AM** Runyon Woods, University of North Carolina, Wilmington
Heat Flux in Giant Kelp Forests on the Santa Barbara Coast
- 9:00AM-9:15AM** James O'Shea, University of Illinois at Chicago
Predicting Chlorophyll Levels in the Santa Barbara Channel
- 9:15AM-9:30AM** David Austerberry, Creighton University
Remote Sensing of Microcystis Blooms in MASTER Imagery
- 9:30AM-9:45AM** Julia McGonigle, Oregon State University
Detection of Cyanobacteria Through Remote Sensing
- 9:45AM-10:00AM** Michael Johnson, Muhlenberg College
Solving the Inverse Ship Wake Problem Using MASTER and DCS imagery
- 10:00AM-10:30AM** **Coffee Break**
- 10:30AM-10:45AM** Kaitlin McIntosh, SUNY Stony Brook
Ship Tracking Using Visible and Thermal Imagery from MASTER
- 10:45AM-11:00AM** Zhanna Shirshikova, University of North Florida
Comparison of Atmospheric Correction Algorithms FLAASH and MODTRAN
- 11:00AM-11:15AM** Nick Atkins, Gustavus Adolphus College
Detection of Hydrocarbon Seeps in the Santa Barbara Channel
- 11:15AM-11:30AM** Julie Lee, University of California Irvine, SARP Mentor
Atmosphere Group Introduction
- 11:30AM-11:45AM** Eric Kauffman, Stephen F. Austin State University
Benefits of High Resolution Whole Air Sampling
- 11:45AM-12:00PM** Nick Heath, Florida State University
Transport and Fate of the Los Angeles Urban Plume
- 12:00PM-1:30PM** **Lunch**
- 1:30PM-1:45PM** Katherine Saad, Massachusetts Institute of Technology
Cow versus Natural Gas: Evaluating Signatures of Methane Sources in the Atmosphere using Ethane and Other Tracers
- 1:45PM-2:00PM** Megan Burns, Slippery Rock State University
The Decrease in Benzene and Toluene Concentrations in Southern California

- 2:00PM-2:15PM** Erica Weathers, Murray State University
Using Ethyne and Carbon Monoxide as a Photochemical Clock
- 2:15PM-2:30PM** Evan Johnson, University of California, Los Angeles
Photochemical Properties of Alkyl Nitrates in the Los Angeles Basin
- 2:30PM-2:45PM** Clayton Elder, Oklahoma State University
Ethanol, Methanol, and MTBE: An Investigation into Southern California's Oxygenate Profile
- 2:45PM-3:00PM** Heather Turrentine, California State University, Long Beach
Decrease of Atmospheric Tetrachloroethylene in Southern California
- 3:00PM-3:30PM** **Coffee Break**
- 3:30PM-3:45PM** Kimberlee Nighelli, Embry-Riddle Aeronautical University
Evidence of Decreasing Methyl Bromide Use in California
- 3:45PM-4:00PM** Esther Thomas, University of New Orleans
Identifying Trihalomethanes in the LA Basin: Linking Water Treatment Emissions with Whole Air Samples
- 4:00PM-4:30PM** **Discussion and Concluding Remarks**