

The International Institute for Indigenous Resource Management

Workshop on

The Application of Remote Sensing and GIS to Federal Facilities Environmental Restoration

Sponsors

Department of Defense

US Environmental Protection Agency

US Department of Energy, Center for Risk Excellence

November 1-2, 2000

Sheraton Denver West

360 Union Boulevard

Lakewood, Colorado

Preliminary Agenda

Wednesday, November 1

8:00 Registration and Coffee

9:00 Welcome and Introductions

Mervyn L. Tano, International Institute for Indigenous Resource Management

9:30 Framework

Mervyn L. Tano, International Institute for Indigenous Resource Management

10:15 Break

10:30 Tools of Remote Sensing--What to Use, When, and Where

Sandra Perry, President, Perry Remote Sensing, Ltd.,

Jonathan Gradie, President, TerraSystems, Inc., Honolulu, Hawaii

Larry Lepley, Senior Remote Sensing Associate, IIRM

11:15 Airborne Multispectral Imaging for Environmental Characterization

Jonathan Gradie, President, TerraSystems, Inc., Honolulu, Hawaii

12:00 Lunch

1:15 Using Remote Sensing and GIS Technology to Assess Rangeland Health

James Turner, Senior Physical Scientist, National Science and Technology Center, Bureau of Land Management, Denver, Colorado

2:00 Unexploded Ordnance – Detection and Mapping from Airborne Platforms

David T. Bell, Director, Advanced Environmental Technology, Oak Ridge National Laboratory

2:45 Break

3:00 Ground truth – From the Bottom up, What Spectral Reflectance Measurements Tell Us
Dr. Alexander F. H. Goetz, Director, Center for the Study of Earth from Space, University of Colorado, Boulder
Dr. Brian Curtiss, Chief Technology Officer, Analytical Spectral Devices, Inc., Boulder, Colorado

3:45 Hyperspectral Images for Mine Waste Contamination
Gregg A. Swayze, USGS Denver

Thursday November 2

8:00 Coffee

8:30 Ten Years of GIS for Environmental Restoration Activities at Sandia National Laboratories
Denise Bleakly, EGIS Team Lead, Sandia National Laboratories, Albuquerque, NM

9:15 Cultural Resources in Hawaii
Jonathan Gradie, President, TerraSystems, Inc., Honolulu, Hawaii

10:00 Break

10:15 Assessing Range Conditions Using Ground-Based and Satellite Image Data
Paul Neville, Earth Data Analysis Center
Terri Neville, New Mexico Heritage Program, University of New Mexico

11:00 Potential Consequences of Climate Change/Variability on the Economy and Resources of Native American Cultures
Stan Morain, Director Earth Data Analysis Center, University of New Mexico

12:00 Lunch

1:30 Field trip – The BLM Geographic Sciences Laboratory; Integrating GIS and Remote Sensing Technologies for Resource Management
James Turner, Senior Physical Scientist, National Science and Technology Center, Bureau of Land Management, Denver, Colorado

4:00 Facilitated Discussion