

International Institute for Indigenous Resource Management
Workshop on
The Application of Remote Sensing and GIS to Federal Facilities Environmental Restoration
November 1-2, 2000
Sheraton Denver West
Lakewood, Colorado

Sponsors
Department of Defense
Department of Energy - Center for Risk Excellence
Environmental Protection Agency
International Institute for Indigenous Resource Management

The cleanup of contaminated Department of Energy, Department of Defense and other federal facilities, in Indian Country and without, will take many years, will require a massive expenditure of funds, and the application of sophisticated technologies such as remote sensing and GIS. Effective tribal participation in federal facility cleanup will require basic knowledge of remote sensing and GIS technologies and their proper utilization for specific applications. The workshop faculty includes some of the leading experts from Indian tribes, government agencies and academia. The workshop will provide participants an introduction to appropriate sequencing of remote sensing operations and the uses of GIS. Faculty members will present information on using both remote sensing and GIS tools that tribal decision-makers can use to analyze and assess tribal cultural resources and interests related to federal facility environmental restoration and economic development activities.

PRELIMINARY AGENDA

Framework

Mervyn Tano, IIRM

Ground Truth - From the bottom up, what spectral reflectance measurements tell us

Alex F.H. Goets, Center for Study of Earth from Space
Brian Curtiss, Analytical Spectral Devices, Inc.

Hyperspectral Images for Mine waste Contamination

Gregg A. Swayze, USGS Denver

Using Remote Sensing and GIS technology to Assess Rangeland Health

James Turner, National Science and Technology Center

Airborne Multispectral Imaging for Environmental Characterization

Jonathan Gradie, TerraSystems, Inc.

Potential Consequences of Climate Change/Variability of the Economy and Resources of Native American Cultures

Stan Morain, Earth Data Analysis Center

Assessing Range Conditions Using Ground-Based and Satellite Image Data

Paul Neville, Earth Data Analysis
Terri Neville, New Mexico Heritage Program

Unexploded Ordnance - Detection and Mapping from Airborne Platforms

David T. Bell, Advance Environmental Technology

Ten Years of GIS for Environmental Restoration Activities at Sandia National Laboratories

Denise Bleakly, Sandia National Laboratory

Cultural Resources Protection with Remote Sensing and GIS Tribal Experiences

Roxann Sockzehigh, Shoshone-Bannock Tribe
William Whatley, Pueblo of Jemez

Cultural Resources in Hawaii

Jonathan Gradie, TerraSystems, Inc.

Tools of Remote Sensing- What to Use and Where

Sandra Perry, Perry Remote Sensing
Jonathan Gracie, TerraSystems, Inc.
Larry Lepley, Lepley and Associates

Field trip- The BLM Geographic Sciences Laboratory, Integrating GIS and Remote Sensing Technologies for Resource Management

James Turner, National Science and Technology Center