

The Office of Technology Transfer Program

What can it do for you?





The Technology Transfer Program Can:

- ◆ Provide opportunities to share and exchange technical information
- ◆ Help stakeholders and OSM define problems and partner to discover the best solutions



Today we want to

- ◆ Outline the activities and services we support and facilitate
- ◆ Introduce you to these activities and services
- ◆ Encourage you to take advantage of what we have to offer

What information needs do you have?



- ◆ Technical information
- ◆ Technical assistance
- ◆ Documents, technical publications, and proceedings
- ◆ Access to current regulations
- ◆ Current awareness in the technical and policy topics



How do we meet those needs?

- ◆ Interactive technical and bond release forums
- ◆ Technical documents
- ◆ Western Regional Technical Team (WRTT)
- ◆ Inspection & enforcement support
- ◆ Bonding technical assistance to Western States
- ◆ Writing and editing expertise
- ◆ Technical Library
- ◆ Electronic permitting initiative:
 - ◆ Digital imaging
 - ◆ Document conversion
 - ◆ Annual reports and permit applications on CDs



Interactive Technical and Bond Release Forums

- ◆ Selenium (1991)
- ◆ Bond Release (1991)
- ◆ Design, Construction, Maintenance and Evaluation of Effectiveness of Sediment Control Measures (1992)
- ◆ Computer Aided Design (CAD) (1993)
- ◆ Modeling Sediment Yield and Runoff on Mined Land (Pre and Post-Mining) in the Semi-Arid West (1995)
- ◆ Bond Release in Arid and Semi-Arid Areas (1996)
- ◆ Computer Applications for Electronic Permitting (1997)



Interactive Technical and Bond Release Forums (continued)

- ◆ Applied Statistics for Reclamation and Surface Mining Applications (1998)
- ◆ Western Regional Coal Symposium (1998)
- ◆ Revegetation, Reclamation Issues, and Surface-Mining Applications (1999)
- ◆ Cumulative Hydrologic Impact Assessment (CHIA) and Hydrology Topics (2000)
- ◆ Wildlife Habitat Construction and Wildlife Use of Reclaimed Lands in the Arid and Semi-Arid West (2001)
- ◆ Post-Mining Land Use for Reclaimed Lands in the Arid & Semi-Arid West (2002)



Special Topics Workshops Conducted

- ◆ Hydrology Database for PCs
- ◆ Statistical Methods for Spatial Data
- ◆ Regression, Time Series Analysis of Hydrology & Soils Data
- ◆ Statistical Sampling for Baseline, Bond Release, and Other Environmental Monitoring Studies
- ◆ Using GIS for Volumetric Calculations of Approximate Original Contour
- ◆ GIS for Assessing Wildlife Habitat and Wildlife Monitoring



Western Regional Technical Team (WRTT)

- ◆ Established in 1995
- ◆ Group of subject and regulatory specialists that work together on issues specific to surface mining and reclamation in the Western United States
- ◆ Members of the team include individuals from the primacy States of Alaska, Colorado, Montana, New Mexico, North Dakota, Utah, Wyoming, as well as from WRCC-OTT



Inspection & Enforcement Support

- ◆ Participate in employee protection investigations & proceedings
- ◆ Hold informal civil penalty assessment conferences with mines on Indian lands and the Washington Federal Program mines
- ◆ Draft responses to Ten-Day Notice appeals, and citizen complaint appeals
- ◆ Member of Colorado and Utah Oversight/Evaluation Teams



FOIA & EEO Support

- ◆ Serve as the Regional Freedom of Information Act Officer for the Western Region
- ◆ Serve as an equal employment opportunity counselor for the Western Region



Writing and Editing Expertise

- ◆ Manage large publishing projects of proceedings and other publications related to forums
- ◆ Write and edit a range of other descriptive, organizational, and programmatic material that appears throughout OTT's website
- ◆ Advise OSM authors, as well as other scientists, scholars, and contractors on techniques for revising their own manuscripts or work products



Technical Library Services

- ◆ On-line searches and reference assistance
- ◆ OSM regulations and directives
- ◆ Technical subject materials (available through our web-accessible library catalog at <http://www.ott.wrcc.osmre.gov/library.htm>):
 - ◆ Soils
 - ◆ Hydrology
 - ◆ Revegetation
 - ◆ Mining engineering
 - ◆ Blasting
- ◆ Current awareness



Information Technology – Internet and Network Services

- ◆ Web Services

- ◆ Streamline website

- ◆ Optimized

- ◆ Customer oriented

- ◆ Availability of electronic publications for stakeholders' and public's use



Information Technology (continued)

◆ CD Production

- ◆ Addition of bookmarks
- ◆ Automatically load documents
- ◆ Design of CD labels
- ◆ Mass production of CDs



Information Technology (continued)

◆ eLearning

- ◆ Incorporate Streaming Media as a training
- ◆ Currently investigating and testing various off-the-shelf commercial products
- ◆ Evaluating and purchasing equipment and software

◆ Streaming Media

- ◆ Incorporate audio and video along with web links both on-demand and real-time live interaction
- ◆ Include the ability to interact with the host while in live session using chat and paging services



Information Technology (continued)

- ◆ Wireless Technology
 - ◆ Explore practical uses of wireless technology
 - ◆ Pilot Program
 - ◆ Digital Imaging Workshop conducted
- ◆ Section 508 of the Rehabilitation Act
 - ◆ Ensuring that web services, eLearning, Streaming Media, and CDs are compliant
 - ◆ Currently investigating close-caption software programs to incorporate with eLearning and Streaming Media



Information Technology (continued)

- ◆ Future projects:
 - ◆ Web Services
 - ◆ Provide access to Streaming Media products for stakeholder's and public's use
 - ◆ Products include:
 - ◆ Forums sessions
 - ◆ Workshop sessions
 - ◆ Product demonstrations from primacy States, clients, and from external sources
 - ◆ Special Events
 - ◆ Section 508
 - ◆ Purchase of a screen reader for testing web services, eLearning, and CDs



Preservation of historical and hard-to-find publications

- ◆ Paper to Electronic Conversion Program:
 - ◆ Conversion of paper publication to electronic format using Adobe Acrobat 5.1 of historical and hard-to-find publications for stakeholder's and public's use
 - ◆ Process involved:
 - ◆ Clean copy of paper publication ideal for scanning
 - ◆ Each page is viewed to test the readability of the scanned product
 - ◆ The end product is printed out to test the printing quality of the scanned product
 - ◆ Final scanned product is then enhanced prior to mass CD production

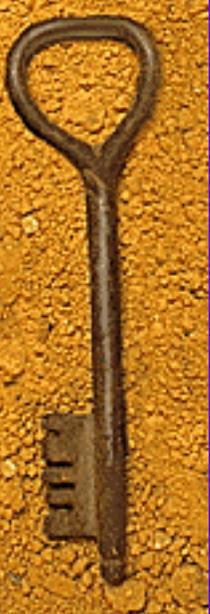


Preservation (continued)

- ◆ Future projects:

- ◆ Paper to Electronic Conversion Program:

- ◆ The ability to test the final product to ensure the product is compliant with Section 508. Requires the purchase of a screen reader.



The Strengths of OSM's Technology Transfer Program

- ◆ Convene all stakeholders for problem resolution
- ◆ Assemble a wide network of experts and specialists from inside and outside the OSM
- ◆ Provide inspection & enforcement support
- ◆ Provide writing and editing assistance and expertise
- ◆ Make accessible research and reference assistance through the Technical Library
- ◆ Conduct forums on surface mining issues and topics
- ◆ Collaboration with institutions of higher learning



Collaboration with Institutions of Higher Learning

- ◆ University of Wyoming, Laramie
- ◆ Montana Tech of the University of Montana, Butte
- ◆ Montana State University, Bozeman
- ◆ University of Kentucky, Lexington
- ◆ University of Tennessee, Knoxville
- ◆ Virginia PolyTech Institute, Blacksburg
- ◆ New Mexico Institute of Technology, Socorro
- ◆ New Mexico State University, Las Cruces



Collaboration with Institutions of Higher Learning (continued)

- ◆ San Juan College, Farmington
- ◆ University of Northern Arizona, Flagstaff
- ◆ North Dakota State University, Fargo
- ◆ Colorado School of Mines, Golden
- ◆ Colorado State University, Fort Collins
- ◆ University of Utah, Salt Lake City
- ◆ University of Nevada, Reno



Technical Resource to Other Agencies and Groups

- ◆ EPA rule making on new point source category 40 CFR 434 – Western Alkaline Coal Mine Drainage
- ◆ Technical Review Committee for the Wyoming Abandoned Coal Mine Lands Research Program
- ◆ Acid Drainage Technology Initiative (ADTI)
- ◆ ADTI – Metal Mining Sector (MMS)
- ◆ Hazardous Substance Research Center



Technical Resource to Other Agencies and Groups (continued)

- ◆ EPA Region VIII – Mining Team
- ◆ 2003 Billings Symposium
- ◆ American Society of Mining and Reclamation
- ◆ National Abandoned Mine Lands Program



Educational Outreach/Assistance To:

- ◆ Students and teachers level K through 12
- ◆ University students, in environmental, reclamation, and mining curricula
- ◆ Other agencies and entities (EPA, BOR, Colorado School of Mines' International Management Institute)
- ◆ Einstein's Adventurarium – Campbell County Schools' Science Resource Center, Gillette
- ◆ Colorado Mining Association's Education Committee
- ◆ Mineral Information Institute
- ◆ Education consultants to industry



Key Benefits to You

The Technology Transfer Program in OSM can provide you with access to the technical information you need through:

- ◆ A network of subject experts
- ◆ A readily accessible collection of technical information
- ◆ Subject-specific resources, handbooks, and manuals



We look forward to
helping you with your
information needs

Visit our website for your informational needs:

<http://www.ott.wrcc.osmre.gov>