

**NATIONAL TECHNOLOGY TRANSFER TEAM  
TECHNOLOGY TRANSFER EVENTS CALENDAR**

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**December 1, 2009**



**U.S. Department of The Interior  
Office of Surface Mining  
Washington, DC**

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## 2009 EVENTS

**FEBRUARY 4-5 2009**

### **NTTP STEERING COMMITTEE MEETING, ATLANTA, GA**

**>LIMITED INTEREST MEETING - BY INVITATION ONLY <**

Background: The purpose of this meeting is to identify OSM, State and Tribal training priorities, recommend training policy, provide guidance to assure the use of creative and innovative training opportunities and periodically evaluate training activity to assure program quality. The Steering Committee reviews plans for proposed technical training activities and recommends priorities for new course development. The Steering Committee also reviews the results of an annual Needs Survey and determines how to allocate requests for space in the courses.

Topics Covered: FY 2008 accomplishments, FY 2010 Needs Survey, new course proposals, Regional, TIPS, and Instructor Advisory Council Reports, as well as updates on course revisions.

Target Audience: State and OSM representatives; invited guests

Contact: Sarah E. Donnelly, NTTP, 202-208-2826

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**FEBRUARY 20-21 2009**

### **NATIONAL ENGINEER'S WEEK: ENGINEER THE FUTURE, CARNEGIE SCIENCE CENTER, PITTSBURGH, PA**

**◆ OSM EXHIBIT ON DISPLAY ◆**

Background: Carnegie Science Center's National Engineers Week celebration introduces students to the creative science and technology of engineering through hands-on activities and demonstrations, including opportunities to try to solve real-world problems, meet working engineers and explore creative career opportunities.

Topics Covered: AR will participate with hands-on demonstrations of mining to foster public awareness of coal mining, its potential impacts and OSM's efforts to assure environmental protection.

Target audience: elementary school, middle school and high school students.

Contact: Lois Uranowski, OSM (AR) 412- 937-2805; Janet Henke, Carnegie Science Center, 412-237-1640

\*

### **FEBRUARY 22-25, 2009 SME ANNUAL MEETING & EXHIBIT AND 111<sup>TH</sup> NATIONAL WESTERN MINING CONFERENCE DENVER, CO**

**◆ OSM EXHIBIT ON DISPLAY ◆**

Background: The OSM National Technical Transfer Team" (NTTT) participates in this annual event as an exhibitor. The NTT booth distributes information about OSM, such as Applied Science Program information, and showcases successes in reclamation, wildlife habitat enhancement, and paperless permitting. Popular items include CDs relating to various reclamation techniques, research reports, manual, guidelines, and public domain software, in addition to OSM's annual reports and links to OSM's web pages.

Target audience: Reclamation managers, consultants, state, tribal and Federal agencies' natural resource specialists, and reclamation staff.

Contact: Duane O. Matt, Technology Coordinator/TIPS Training and Technology Transfer, OSMRE, Denver, CO, 303-293-5072, Fax: 303-293-5058, email: [dmatt@osmre.gov](mailto:dmatt@osmre.gov)

**FEBRUARY 24-25, 2009**

**ARTT BI-ANNUAL TEAM MEETING, CHARLESTON, WV**

**>LIMITED INTEREST MEETING - BY INVITATION ONLY <**

Background: The ARTT team meets on a semi-annual basis to discuss technology transfer issues of concern and to review and rank the 2009 Applied Science proposals. The AR rankings will be forwarded to the National Technology Transfer Team for inclusion in the national ranking process.

Topics Covered: Technology transfer in Appalachia, and deliberations on and ranking of the 2009 Applied Science Proposals.

Target Audience: Members of the ARTT Team that include the seven Appalachian states, OSM and invited guests.

Contact: Lois Uranowski, OSM (AR), 412-937-2805

**MARCH 10, 2009**

**VIRGINIA PROFESSIONAL ENGINEERS IN MINING SEMINAR, SOUTHWEST VIRGINIA HIGHER EDUCATION CENTER, ABINGDON, VA**

Background: The purpose of this meeting is to provide current technologies and develop methodologies and information for area mining professionals, and to provide engineering professionals in Southwest Virginia and surrounding areas an opportunity to acquire locally a portion of the Professional Development Hours (PDH's) necessary for meeting Virginia's license renewal requirements. Following completion of the seminar, a certificate awarding eight PDH's will be issued.

Topics Covered: Coalfield TMDL Issues in Virginia, Virginia Gas & Oil Act: Application of the Accommodation Doctrine for Gas and Coal, Mine Haulage and Equipment Safety; 404 Permitting: An Industry Perspective; Threatened or Endangered Species; Clinch & Powell Rivers; Dissolved solids considerations in spoil handling; reforestation, and water quality; Co-management of coal combustion products and coal refuse; Reclamation practices for productive post-mining forests; OSM Issues Update; DMME Issues: Fill construction, e-signatures. Registration Fee: \$110.00.

Target Audience: Engineering Professionals.

Contact: Bill Bledsoe, 276-679-4211, [bill@virginiaminingassoc.com](mailto:bill@virginiaminingassoc.com); Margie Horton, Virginia Mining Association, Inc., 276-679-4211, [margie@virginiaminingassoc.com](mailto:margie@virginiaminingassoc.com).

**MARCH 12, 2009**

**SYMPOSIUM ON BIOLOGICAL CONTROL OF INVASIVE PLANTS, EMBASSY SUITES HOTEL, ALBUQUERQUE, NM**

Background: In conjunction with the 2009 Conference of the Western Society of Weed Science (WSWS), a special Symposium on Biological Control of invasive plants will be held.

Topics Covered: Legal and regulatory constraints on releases; incorporation of biological control into integrated weed management programs; number of agents needed; risk assessment for releases; updates on bio-control for leafy spurge, giant salvinia, dalmatian toadflax, and knapweeds; salt cedar bio-control options and an open discussion of issues and concerns regarding their release in the Southwest.

Target Audience: Technical experts in weed science and invasive species from government agencies, academia, industry and environmental organizations.

Contact: for more information, go to the society website:

<http://www.wsweedscience.org/Meeting/meeting.asp>

**MARCH 17-18, 2009**

**NATIONAL ASSOCIATION OF ABANDONED MINE LANDS (NAAML) MID-YEAR MEETING, OKLAHOMA CITY, OK**

**>LIMITED INTEREST MEETING - BY INVITATION ONLY <**

Background: This is a winter business meeting of the Association of State and Tribal AML programs.

Topics Covered: Administrative and technical aspects of abandoned mine land reclamation.

Target Audience: State, Tribal, and Federal AML Program staff.

Contact: Steve Herbert, Director Indiana AML Program, 812-665-2207; email: [sherbert@dnr.in.gov](mailto:sherbert@dnr.in.gov)

**MARCH 31-APRIL 1, 2009 WEST VIRGINIA SURFACE MINE DRAINAGE TASK FORCE SYMPOSIUM, RAMADA INN, MORGANTOWN, WV**

Background: The State of West Virginia's Surface Mine Drainage Task Force sponsors this annual meeting to address AMD and related issues in Appalachia. Task Force members represent the coal mining industry, regulators, private consultants, and scientists. The objectives of the Task Force are to keep current on new developments in AMD research, AMD treatment and control practices, and to present this information at annual symposia. Task Force Symposia have been held every year since 1980. Program and registration can be found at <http://wvmdtaskforce.com/>.

Topics Covered: Status of Appalachian mining and reclamation; OSM perspective on mining, AMD and reclamation; selenium impacts and issues; legislative issues related to mining, reclamation, and AMD; AMD Treatment; AML reclamation; selenium; mine flooding; and stream mitigation and ecological function in mined watersheds.

Target Audience: State and Federal regulators and administrators, technical experts from industry, state and federal agencies and academia.

Contact: Jeff Skousen, West Virginia University, Morgantown, WV, 304-293-6256;  
[jskousen@wvu.edu](mailto:jskousen@wvu.edu)

**APRIL 1, 2009**

**ACID DRAINAGE TECHNOLOGY INITIATIVE COAL GROUP MEETING AND  
GLOBAL ACID ROCK DRAINAGE GUIDE WORKSHOP, RAMADA INN,  
MORGANTOWN, WV**

Background: A combined meeting/workshop of the Acid Drainage Technology Initiative (ADTI) Coal Group and the Global Acid Rock Drainage (GARD) Guide is currently scheduled from 1 to 3pm, April 1, 2009 immediately following the annual West Virginia Mine Drainage Task Force meeting. Please check the West Virginia Mine Drainage Task Force Symposium, <http://wvmdtaskforce.com/>, and the ADTI Coal Group website, <http://www.aciddrainage.com/>, for additional details. The ADTI meeting is a forum for you to exchange news of ongoing mine water projects in a brief, informal format, and identify needs, tasks and activities for ADTI to pursue. Bring your ideas and suggestions for ADTI activity. The GARD Guide workshop is an opportunity to learn about, and provide input, to a handbook that includes acid drainage technology for coal and metal mines. The workshop will complement the presentation scheduled during the Task Force symposium. Please see the GARD guide page at the International Network for Acid Drainage Prevention, <http://www.inap.com.au/>, for more information on the scope and objectives. A draft of the GARD Guide (Rev. B) is now available on the web at: <http://www480.pair.com/aturner/gardwiki/>. You are invited to review the draft Guide and to provide comments to INAP by April 1, 2009, to: Mr. Gilles Tremblay/Ms. Charlene Hogan GARD Guide Secretariate, [gtrembla@nrcan.gc.ca](mailto:gtrembla@nrcan.gc.ca), [chogan@NRCan.gc.ca](mailto:chogan@NRCan.gc.ca). The GARD Guide developers are particularly interested in obtaining comments from state and Federal agencies.

Topics Covered: AMD and reclamation issues.

Target Audience: State and Federal regulators and administrators, technical experts from industry, state and federal agencies and academia.

Contact: Eric Perry, OSM, 412-937-2874, [eperry@osmre.gov](mailto:eperry@osmre.gov)

**APRIL 8-9, 2009**

**OSM NATIONAL TECHNOLOGY TRANSFER TEAM ANNUAL MEETING,  
HOLIDAY INN RIVERWALK, SAN ANTONIO, TX  
> LIMITED INTEREST MEETING -BY INVITATION ONLY <**

Background: The purpose of NTTT is to ensure the proper development and transfer of technology among OSM, the states, industry and the public. The meeting will provide a forum to guide NTTT activities and coordinate and communicate regional TT activities.

Topics Covered: The meeting will include a combination of technical presentations and routine team business. At this meeting the team will address the following: Applied Science Proposal Review Process; Review of Average Ranking Values; Development of Consensus Rankings; Development of Final Applied Science Selections; Applied Science Process for 2010; Priorities for 2010 & Beyond; Solicitation Schedule for 2010; Technology Transfer Event Status; NTTT Web Site & Fact Sheets; OSM Annual TT meeting planning; methods of dissemination of final Products.

Target Audience: Members and invited guests of the NTTT.

Contact: Kimery Vories, Mid Continent Region (MCR), -618- 463-6463 x 103;  
kvories@osmre.gov

**APRIL 14-16, 2009**

**NAVAJO NATION'S DIVISION OF NATURAL RESOURCES DNR EXPO, BUFFALO  
THUNDER RESORT, SANTA FE, NEW MEXICO**

Background: The EXPO is scheduled to give information about activities that are on-going with the 11 departments under the Division of Natural Resources. The objective is to educate and disseminate information pertaining to various uses of Navajo Natural Resources. Land is the foundation of all walks of life; water is the foundation for all living life, which gives us the power to protect and improve the Navajo Nation's Quality of Life. See web-page below for more information:  
<http://www.dnrconferenceexpo.org/index.html>.

Target Audience: Tribal employees; Chapter officials and land use committee members; federal, state and county employees; students; general public; council delegates of the Navajo Nation.

Topics Covered: Mining Issues: AML Project Development, Black Mesa, Uranium Issues; Water issues; Forestry issues; Archaeological Clearance; GIS/ Hand Held GPS Training; Maps/Plat Description & Land Definitions; Hunting/Fishing Permits and Wildlife poaching; Illegal Cemeteries; Homesite Lease Process; Land Acquisitions/Disputes/Withdrawals/Right-of-Way Process; Livestock issues; Navajo Nation Grazing Act; NAGPRA - Historic Preservation; Navajo/Hopi Issues/Cultural Properties.

Contact: Hope Wilson, 928.729.4127, or Susan Day, 928-729-4003; send email inquiries to: [susanday@dnrconferenceexpo.org](mailto:susanday@dnrconferenceexpo.org).

**APRIL 26-29 2009**

**INTERSTATE MINING COMPACT COMMISSION ANNUAL MEETING, CAPTAIN  
COOK HOTEL, ANCHORAGE, AK**

**>LIMITED INTEREST MEETING - BY INVITATION ONLY<**

Background: The Interstate Mining Compact Commission (IMCC), a multi-state governmental organization representing the natural resource and environmental protection interests of its 24 member states, holds an Annual Meeting in the spring of the year to discuss issues and concerns of the member states, to meet with federal agency representatives, to hear from various speakers, and to present its annual national reclamation and mineral education awards.

Topics Covered: Several IMCC Standing Committees will meet to discuss a variety of topics including abandoned mine lands, OSM's budget and state Title IV and V grants, significant OSM rulemakings, as well as pending studies and other state/federal initiatives in the mining arena.

Target Audience: State and Federal regulators and program administrators.

Contact: Greg Conrad or Beth Botsis, IMCC, Herndon, VA, 703-709-8654 or  
[gconrad@imcc.isa.us](mailto:gconrad@imcc.isa.us) or [bbotsis@imcc.isa.us](mailto:bbotsis@imcc.isa.us).



**APRIL 27-30, 2009**

**COAL PREP 2009 ANNUAL EXHIBITION AND CONFERENCE, LEXINGTON, KENTUCKY**

Background: The annual Coal Processing Exhibition and Conference ([www.coalprepshow.com](http://www.coalprepshow.com)) expanded upon its tradition of providing cutting-edge education and generating high-volume traffic on the exhibit floor, as well as offering the unique networking opportunities. The keynote address, "Coal and the New Political Landscape," by Luke Popovich, Vice-President, Communications for the National Mining Association, covered the US energy sector and the overall policy outlook for the coal industry, technological challenges connected to making coal cleaner, carbon capture and storage (CCS) technology, and the economic and environmental impact of clean coal initiatives in the US, India and China.

Topics Covered: Coal Processing technologies, products, equipment and services.

Target Audience: Coal preparation professionals worldwide.

Contact: [registration@penton.com](mailto:registration@penton.com); 508-743-0105; or 1-800-927-5007

**APRIL 28-30 2009**

**GEOMORPHIC RECLAMATION AND NATURAL STREAM DESIGN AT COAL MINES: A TECHNICAL INTERACTIVE FORUM, BRISTOL, VA**

◆ OSM EXHIBIT ON DISPLAY ◆

Background: Traditional approaches to mined land reclamation frequently disturb the stability of the existing natural landforms and add expensive and often times unnatural measures to try to fix the resulting problems. Hills and valleys are flattened out into uniform slopes or terraced to create stable land forms. Streams are often replaced by rock lined ditches or removed entirely. Due to today's modern advances in technology it is now possible to quickly and inexpensively design stable landforms and streams that mimic both the look and the functionality of nature. Using modern design tools and the geomorphic reclamation approach it's possible to reclaim highly disturbed lands and create fully functional natural systems virtually indistinguishable from their surrounding landscapes. Steep rock lined ditches are replaced by meandering streams and uniform or terraced hillsides are replaced by slopes that look natural yet are specifically designed to efficiently convey water without excessive erosion or sediment loading. The forum brings OSM, states, tribes, industry, and academia together to exchange technical innovations in the areas of geomorphic reclamation and natural stream design, share successes and failures, and discuss how to better implement geomorphic landscape and stream reconstruction into mined land reclamation.

Topics Covered: Topics include:

- (1) Advances in Geomorphic Reclamation;
- (2) Geomorphic Reclamation in Appalachia;

- (3) Geomorphic Reclamation in the West; and
- (4) Geomorphic Reclamation in the Midwest.

Target Audience: Technical staff from OSM, States, Tribes, industry and academia that are involved in reclamation of coal mined land.

Contact: Kimery Vories (Forum chairperson) at 618-463-6463 x 5103, on the internet at [www.techtransfer.osmre.gov](http://www.techtransfer.osmre.gov), or register online at [www.dce.siu.edu](http://www.dce.siu.edu).

**MAY 4-7 2009**

**WORLD OF COAL ASH CONFERENCE, LEXINGTON, KY**

◆ **OSM EXHIBIT ON DISPLAY** ◆

Background: The World of Coal Ash is the world's premier conference concerning the science, applications and sustainability of coal ash utilization. It will encompass all aspects of coal combustion products/byproducts as well as gasification products. It is organized by the American Coal Ash Association and the University of Kentucky Center for Applied Energy Research. This is the third biennial event. Abstract Deadline October 13, 2008.

Target Audience: Technical and policy professionals associated with CCP recycling.

Topics Covered: Topics will include flue gas desulfurization materials, traditional and non-traditional uses, disposal and land applications, private and public sector partnerships, regulatory initiatives and technical sessions covering the use of CCPs in conventional building materials, emerging technologies and more.

Contact: Annely Noble, American Coal Ash Association, 720-870-7897; email: [wocainfo@aca-usa.org](mailto:wocainfo@aca-usa.org). WOCA Website: <http://www.worldofcoalash.org/>

**MAY 19-21, 2009**

**TIPS STEERING COMMITTEE MEETING, NASHVILLE, TN**

>**LIMITED INTEREST MEETING - BY INVITATION ONLY**<

**MAY 30–JUNE 5 2009**

**26TH ANNUAL MEETING OF AMERICAN SOCIETY OF MINING & RECLAMATION (ASMR) AND 11TH BILLINGS LAND RECLAMATION SYMPOSIUM (BLRS) 2009 JOINT CONFERENCE, BILLINGS, MT**

◆ **OSM EXHIBIT ON DISPLAY** ◆

Background: The American Society of Mining and Reclamation and the Billings Land Reclamation Symposium have focused on land reclamation and rehabilitation issues for several decades. A fundamental need of reclamationists worldwide is the expansion of the opportunities for technology transfer. As such, ASMR holds an annual meeting, and BLRS holds a meeting every three years, where information is exchanged between academic professionals, those who are practicing reclamation in the field, students, and all other interested persons. The multidisciplinary nature of land reclamation provides opportunity for those with specialized interests to organize workshops, prepare special sessions for the National meetings, and publish handbooks and manuals. The goal is to provide a mechanism to encourage both written and verbal technology transfer. The proceedings for the meetings provide valuable references for those concerned with land reclamation.

Topics Covered: Topics will include innovations and case studies in Water Management, Soils and Overburden Handling, Reforestation, Wildlife Habitat Revitalization, Plant Ecology, Geotechnical Engineering, Refuse and Tailings Management, Land Use and Design, and Superfund Reclamation.

The Western Region Technology Transfer Team will hold its Annual Team Meeting in conjunction with this event.

Target Audience: Industry reclamation managers, researchers and technical staff, consultants, state Tribal, and Federal agencies' natural resource and reclamation staff.

Contact: Paul Clark, OSM Western Region Technology Coordinator, 303-293-5065; Duane Matt, OSM Western Region Technology Coordinator, 303-293-5072. Visit: <http://billingslandreclamationsymposium.org>

**MAY 31-JUNE 4, 2009**

### **34TH INTERNATIONAL TECHNICAL CONFERENCE ON CLEAN COAL & FUEL SYSTEMS, SHERATON SAND KEY, CLEARWATER, FL**

Background: Clean Coal Technologies –From “Dawn to Dusk.” For 5-1/2 days the world’s experts will share their knowledge and expertise on clean coal technologies. Issues on the front burner of the electric utility industry will be spotlighted. All in attendance will have a firm grasp on the critical issues facing the industry today and tomorrow; 12 tutorials, 11 plenary sessions and 25 technical sessions will delve into the technological solutions for coal. Exhibitors include; ASTM International ;The Babcock & Wilcox Company, Energy & Environmental Research Center, University of North Dakota; Illinois Coal, Iowa State University, Pennsylvania State University, U.S. Geological Survey, U.S. Department of Commerce, World Coal Magazine. Website: [http://www.coaltechnologies.com/pages/program\\_announce.html](http://www.coaltechnologies.com/pages/program_announce.html)

Topics Covered: Direct Coal to Liquids; Effluent Water Chemistry; Global Climate Change and the Power Generation Challenge; Carbon Capture &Storage, and others.

Target audience: Industry and trade organizations; federal and state government agencies. Endorsing Organizations include: American Public Power Association, China Coal Research Institute; Edison Electric Institute; Illinois Department of Commerce & Economic Opportunity; Office of Coal Development; Ohio Coal Development Office; U. S. Geological Survey.

**JUNE 2 AND 3, 2009**

### **MID-CONTINENT STATES AND OSM REGIONAL MEETING, ST. LOUIS, MO**

**>LIMITED INTEREST MEETING - BY INVITATION ONLY <**

Background: A special meeting to provide an interactive setting for managers to work on regional issues and activities.

Topics covered: State activities and issues, OSM program discussion, Technology and Transfer Issues.

Target Audience: State managers from each of the 11 States, and the IMCC representative met with OSM MCR managers.

Contact: Len Meier 618-463-6463 x 5109

**JUNE 9-10, 2009**

**APPALACHIAN OSM/STATES REGIONAL MEETING, SHERATON STATION  
SQUARE HOTEL, PITTSBURGH, PA**

**>LIMITED INTEREST MEETING - BY INVITATION ONLY <**

Background: Each year, OSM's Appalachian Region hosts a meeting of OSM and state agency representatives to discuss issues of mutual concern and interest. Several presentations on key topics are provided by a combination of state and federal representatives and outside resource persons.

Target Audience: Representatives from the Appalachian Region state agencies (PA, VA, WV, KY, OH, MD) and OSM's regional office and TN Field Office.

Contact: Tom Shope, Regional Director, OSM Appalachian Region, 412-937-2828.

**JUNE 16-18 2009**

**LONGWALL USA EXHIBITION & CONFERENCE, DAVID L. LAWRENCE  
CONVENTION CENTER PITTSBURGH, PA**

Background: This is considered to be North America's most important coal mining exhibition. Longwall USA attracts all of the most important manufacturers and service providers.

Target Audience: A range of delegates from all parts of the longwall mining industry.

Contact: Tanna Holzer, Project Manager, 303-283-0640 x 206; [tholzer@mining-media.com](mailto:tholzer@mining-media.com); Andrew Gilmore, 317-226-6164

**JULY 21, 2009**

**OSM NTTT ANNUAL MEETING**

**> LIMITED INTEREST MEETING-BY INVITATION ONLY <**

Background: The OSM team members will have a conference call at 1 PM CST to investigate aspects of technology transfer that could be improved in FY 2010.

Topics Covered: Applied Science Program; effectiveness of Applied Science Cooperative Agreements; NTTT website improvement; OSM-wide NTTT '2010 budget; Exhibit Equipment; Design, and Strategies; Event Development, management, and post event delivery; Partnership opportunities.

Target Audience: OSM members of the NTTT.

Contact: Kimery Vories, OSM (MCR), 618-463-6463 x 5103

**AUGUST 4-6, 2009**

**ARRI MINED LAND REFORESTATION CONFERENCE, JENNY WILEY STATE  
RESORT PARK, PRESTONSBURG, KY**

Background: The third annual Appalachian Regional Reforestation Initiative Mined (ARRI) Land Reforestation conference will be held on August 4-6, 2009 at the Jenny Wiley State Resort Park in Prestonsburg, Kentucky. The theme of this year's conference is the Forestry Reclamation Approach in Action. The conference will feature field trips to mine sites employing the Forestry Reclamation Approach and a look at the University of Kentucky's reforestation research facilities. The conference will also include a series of informational sessions by operators and leading forestry researchers on implementing the Forestry Reclamation Approach in the field. The conference will be beneficial for anyone involved in mining and reclamation who

desires to restore mined land to healthy productive forests. More information can be found on the ARRI website at <http://arri.osmre.gov/>.

Target Audience: The intended audience will be personnel representing mining firms, State and Federal regulators, owners of mineral-bearing lands, mining industry consultants, natural resource agencies, scientists and researchers with mine reforestation expertise, students, and other interested members of the public.

Topics Covered: Conference activities will include presentations by scientific, industry, and agency personnel who are involved with the development and application of coal mine reforestation practices, and a field tour of research sites and operating mines where advanced mine reforestation practices are being developed and utilized.

Contact: Jim Taitt, OSM AR Technical Support Division, 412-937-2106.

**SEPTEMBER 15-17, 2009 APPALACHIAN REGION TECHNOLOGY TRANSFER TEAM (ARTT) FALL MEETING, KINGSFORT, TN**

**>LIMITED INTEREST MEETING - BY INVITATION ONLY <**

Background: The ARTT team meets on a semi-annual basis to discuss technology transfer issues of concern.

Topics Covered: This 2 ½ day meeting will focus on updating the ARTT team on technology transfer initiatives with sharing of technology news from States; presentations on final reports of technical assistance and applied science projects and updates from NTPP, TIPS and IMCC.

Target Audience: Members of the ARTT team that includes the seven Appalachian states and OSM, and invited guests.

Contact: David Lane, 412-297-9346.

**SEPTEMBER 20-23, 2009 37TH ANNUAL CONFERENCE OF THE NATIONAL ASSOCIATION OF STATE LAND RECLAMATIONISTS (NASLR), PARK VISTA HOTEL AND CONFERENCE CENTER, GATLINBURG, TN**

Background: The 37<sup>th</sup> Annual NASLR conference will be held on at the Park Vista Hotel and Conference Center located in the heart of the Smoky Mountains in Gatlinburg, Tennessee. The theme for this year's conference is water issues in mining and reclamation processes. NASLR is a nationally recognized authority on the reclamation of mined lands and the group advocates the use of research, innovative technology and professional discourse to foster the restoration of lands and waters affected by mining related activities. The group recognizes that economically beneficial mining operations and sound land reclamation need not be exclusive of each other. NASLR strives to promote and maintain a mutually beneficial relationship between state regulatory authorities and the mining community.

Topics covered: Major topics-- Stream Relocation and Restoration, Wetland Identification, Mitigation, and Creation, Acid Mine Drainage Avoidance and Treatment, Water Treatment Technologies and Advances, Stormwater Management Techniques, Land Forming and Vegetative Considerations in Restoring Hydrologic Balance, Long Term Water Treatment and Monitoring Systems, Protection and Re-establishment of Aquatic Biological Communities, Effects of Soil Amendments on

Water Quality. Other topics include: Enhancement of Post-Mining Natural Resource Value (i.e. Wildlife, Fisheries, etc.), Material Handling (i.e. End-Dump vs. Compaction, Slope Stability, etc.), Controlling Invasive Species, Utilization of Native Plant Species and Unique or Creative Reclamation Projects

Target Audience: Industry reclamation managers, researchers and technical staff, consultants, State, Tribal, and Federal agencies' natural resource and reclamation staff.

Contact: Bruce Ragon- [bruce.ragon@state.tn.us](mailto:bruce.ragon@state.tn.us) See the NASLR website for meeting and registration details -- <http://www.crc.siu.edu/naslr.htm>

**SEPTEMBER 21-24, 2009 2009 PITTSBURGH COAL CONFERENCE, WESTIN CONVENTION CENTER, PITTSBURGH, PA**

Background: The Pittsburgh Coal Conference is an annual event devoted to all aspects of coal, energy and the environment. It aims at fulfilling the ultimate goal of efficient and effective use of coal while protecting the environment. The Conference is dedicated to providing a unique opportunity for in-depth and focused exchange of technical information and policy issues.

Topics Covered: Sustainability and Environment (Energy Production and Water Use - Conservation and Recycling, Life Cycle Analyses, Impact on the Environment, Energy Sustainability/Efficiency/Conversion to Reduce Greenhouse Gases (GHG), GHG Inventory Protocol, Legal and Regulatory Considerations, Credits.); Carbon Management (CO<sub>2</sub> Capture/sequestration/storage, Transportation Infrastructure and Issues, Legal and Regulatory Issues, and Carbon Footprint Comparison; Coal Science Chemistry, Geoscience/Coal Resources, Coal Mining and Reclamation, Trace Elements/Emission, Processing and Coal Preparation, Coal Combustion, Gasification and Coal-Derived products.

Target Audience: Technical representatives from industry, government and academia throughout the world.

Contact: Conference Secretary, International Pittsburgh Coal Conference, University of Pittsburgh, Pittsburgh, PA 15261, 412-624-7440; email: [ipcc@pitt.edu](mailto:ipcc@pitt.edu). Website: <http://www.engr.pitt.edu/pcc>

**SEPTEMBER 27-30 2009 NATIONAL ASSOCIATION OF ABANDONED MINE LANDS (NAAML) 31ST ANNUAL CONFERENCE, ROGERS, AR**

◆ OSM EXHIBIT ON DISPLAY ◆

Background: This annual conference of the association of State and Tribal AML programs will feature technical sessions, workshops, tours, and the annual business meeting of the Association.

Topics covered: Administrative and technical aspects of abandoned mine land reclamation.

Target Audience: State, Tribal, and Federal Program staff, consultants, and university personnel that deal with Abandoned Mine Land Reclamation or reclamation issues. Normal attendance from 120-250 participants.

Contact: Wayne Van Buren, Arkansas AML Program, 479-968-7339.

email: [vanburen@adeq.state.ar.us](mailto:vanburen@adeq.state.ar.us)

**SEPT. 30–OCT. 1, 2009**

**2009 U.S. COAL MINE METHANE CONFERENCE, MILLENNIUM HARVEST HOUSE HOTEL, BOULDER, CO**

Background: After a successful 2008 conference in Pittsburgh, the EPA's Coalbed Methane Outreach Program (CMOP) is bringing the 2009 U.S. Coal Mine Methane Conference. Abstracts are due May 31, and may be sent to [ERG](#). [Online Registration](#) is available. The [main conference website](#):

[http://www.epa.gov/outreach/cmop/conf/cmm\\_conference\\_sept09.htm](http://www.epa.gov/outreach/cmop/conf/cmm_conference_sept09.htm), has updates and additional information.

Target audience: Experts on methane gas recovery and use from both government and industry.

Topics Covered: Technological advances, legal and financial issues, and case studies.

Contact: [Mark Grady](#), [meetings@erg.com](mailto:meetings@erg.com), at ERG, the contractor providing support services for this event. For logistical information call: 781-674-7374.

**OCTOBER 1-2, 2009**

**TX SURFACE MINING & RECLAMATION WORKSHOP, COLLEGE STATION, TX**  
◆ OSM EXHIBIT ON DISPLAY ◆

Background: This annual workshop sponsored by the Texas cooperative extension program and the agricultural experiment stations will feature talks focusing on lignite mining and reclamation in Texas, Louisiana, and Mississippi.

Topics covered: There will be one day of talks.

Target Audience: Coal industry, university researchers, and State reclamation staff for the State of Texas and Louisiana. Normal attendance is from 80 to 100 participants.

Contact: [Kimery Vories](#), OSM (MCR), 618-463-6463 x 5103

**OCTOBER 17-20, 2009**

**TEXAS MINING AND RECLAMATION ASSOCIATION ANNUAL MEETING, BOERNE, TX**  
◆ OSM EXHIBIT ON DISPLAY ◆

Background: The annual meeting of owner/operators, support members, exhibitors, and visitors for mining and reclamation in the State of Texas.

Topics Covered: Topics include speakers on issues related to the mining industry in Texas.

Target Audience: The Texas mining industry and supporting entities.

Contact: [Carmen Sparks](#), Luminant, 903-577-5160

**OCTOBER 18-21, 2009**

**GSA ANNUAL MEETING, FROM VOLCANOES TO VINEYARDS: LIVING WITH DYNAMIC LANDSCAPES, OREGON CONVENTION CENTER, PORTLAND, OR**  
◆ OSM EXHIBIT ON DISPLAY ◆



Background: HQ Division of Regulatory Support (DRS) will be sponsoring OSM's participation at the Geological Society of America meeting. Staff will work with MCR to ensure that the reserved booth is utilized.

Topics Covered: There are a total of 162 [Topical Sessions](#), covering a vast array of the geological sciences, with a mix of invited and volunteered papers. Sessions are designed to promote the exchange of interdisciplinary, state-of-the-art information. In addition, there will be quite a few [Discipline sessions](#). Abstracts are due 11 August 2009. Additional information will be posted as it becomes available.

Target Audience: Earth Science professionals.

Contact: See the meeting website: <http://www.geosociety.org/meetings/2009/>

## OCTOBER 25-27, 2009

### **WESTERN STATES ENERGY AND ENVIRONMENT SYMPOSIUM, JACKSON, WY**

Background: The symposium is designed to be a work session on regional energy issues. Energy is an issue of critical importance to all western states. It is so important that we cannot work independently of each other on energy issues. We believe that by working regionally, we can find more efficient energy use and environmental protection for our western states. This meeting will be professionally facilitated.

Target Audience: Key legislators, regulatory policy leaders, executive branch policy directors, environmental stakeholders, business leaders, consumers and energy industry representatives.

Topics Covered: Regional issues: mutually beneficial energy strategies for the West.

Contact: For meeting agenda and registration information, go to [www.wsees.com](http://www.wsees.com); email: [info@wsees.com](mailto:info@wsees.com).

## OCTOBER 28 - 29, 2009

### **IMCC BENCHMARKING WORKSHOP ON E-PERMITTING AND MOBILE COMPUTING, HYATT REGENCY, CHICAGO, IL**

**> LIMITED INTEREST MEETING -BY INVITATION ONLY <**

Background: This workshop will focus on recent developments at the state and federal level concerning e-permitting systems and the use of mobile computing technologies. Among the topics to be addressed are: sharing information among users, electronic signatures, how maps are handled, and cost savings and efficiencies for the overall regulatory program.

Contact: Greg Conrad, [gconrad@imcc.isa.us](mailto:gconrad@imcc.isa.us) or Beth Botsis, [bbotstis@imcc.isa.us](mailto:bbotstis@imcc.isa.us); IMCC, Herndon, VA, 703-709-8654

## NOVEMBER 4-6, 2009

### **STRAY GAS WORKSHOP, PITTSBURGH, PA**

Background: This workshop will focus on the scientific basis for assessment of and various types of fingerprinting for stray or fugitive gases. Gas accumulation can lead to problems where the fugitive nature of gases is a major safety concern. Tools and strategies for investigating stray gases, along with case histories, will be presented by



scientists and specialists whose work has focused on the origins, mitigation, and accumulation of gases.

Topics Covered: The workshop will have emphasis on carbon dioxide and methane; the implications for safety, mitigation, and management of subsurface resources also will be addressed. Sponsors for the workshop are USGS, Pittsburgh Geological Society, Pennsylvania Department of Environmental Protection, and OSM.

Target Audience: Scientists and technicians from government, industry, and academic sectors, natural-resources managers, inspectors, investigators, and regulators

Contact: Program: Kevin Breen, U.S. Geological Survey, Pennsylvania Water Science Center, [kjbreen@usgs.gov](mailto:kjbreen@usgs.gov), 717-730-6970; Logistics: Dan Hippe, U.S. Geological Survey, Eastern Region Science Office, [djhippe@usgs.gov](mailto:djhippe@usgs.gov), 703-648-5810. For further information, go to: [http://pa.water.usgs.gov/stray\\_gas](http://pa.water.usgs.gov/stray_gas).

## **NOVEMBER 18-19, 2009 INTERSTATE MINING COMPACT COMMISSION MID-YEAR MEETING, THE CURTIS HOTEL, DENVER, CO**

**>LIMITED INTEREST MEETING - BY INVITATION ONLY<**

Background: The Interstate Mining Compact Commission (IMCC), a multi-state governmental organization representing the natural resource and environmental protection interests of its 24 member states, holds a Mid-Year meeting in the fall of the year to discuss issues and concerns of the member states and to meet with federal agency representatives.

Topics Covered: Several IMCC Standing Committees will meet to discuss a variety of topics including abandoned mine lands, OSM's budget and state Title IV and V grants, significant OSM rulemakings, as well as pending studies and other state/federal initiatives in the mining arena.

Target Audience: State and Federal regulators and program administrators.

Contact: Greg Conrad, [gconrad@imcc.isa.us](mailto:gconrad@imcc.isa.us), or Beth Botsis, [bbotsis@imcc.isa.us](mailto:bbotsis@imcc.isa.us), IMCC, Herndon, VA, 703-709-8654

## **DECEMBER 7-8, 2009 INDIANA SURFACE MINING AND RECLAMATION SYMPOSIUM JASPER, IN** **◆ OSM EXHIBIT ON DISPLAY ◆**

Background: The annual conference focuses on issues related to coal mining in Indiana. Technical workshops will be available.

Topics covered: There will be one day of talks.

Target Audience: Professionals interested in technical issues related to coal mining and reclamation in Indiana.

Contact: Colleen Baughman, 812-665-2207, [cbaughman@dnr.IN.gov](mailto:cbaughman@dnr.IN.gov)

## **2010 EVENTS**

**FEBRUARY 7 – 11, 2010**

**63RD SOCIETY FOR RANGE MANAGEMENT (SRM) & 50TH WEED SCIENCE SOCIETY OF AMERICA (WSSA) JOINT ANNUAL MEETING, WORKING LANDSCAPES PROVIDING FOR THE FUTURE, SHERATON DENVER DOWNTOWN HOTEL, DENVER, CO**

Background: The purpose of this conference is to Learn how to Manage for Invasive Species, Open Spaces, Sustainable Livestock Production, Drought, and Conservation of our Natural Resources; hear World renowned speakers at an Invasive Plant Symposium. Online registration for the 2010 Annual Meeting is now up & running and can be accessed at:[2010 Annual Meeting Online Registration](#)

Topics Covered: All aspects on Natural Resource Management. Advances in Weed Science: Management in Agronomic Crops, Horticultural Crops, Herbicide Formulation, Adjuvant and Application Technology, Weed Physiology, Biology and Ecology; Integrated Weed Management System.

Target Audience: Experts in Land and Natural Resource Management, Range Ecology, Watershed Management, Livestock Production.

Contact: Society for Range Management, 10030 W 27th Avenue, Wheat Ridge, CO 80215-6601; 303-986-3309; fax: 303-986-3892; email: [dmyran@montana-wcc.com](mailto:dmyran@montana-wcc.com)

**FEB. 28-MARCH 3, 2010**

**2010 SME ANNUAL MEETING & EXHIBIT--100 YEARS OF MINING RESEARCH, PHOENIX CONVENTION CENTER, PHOENIX, AZ**

**◆ OSM EXHIBIT ON DISPLAY◆**

Background: The OSM National Technical Transfer Team” (NTTT) participates in this annual event as an exhibitor. The NTT booth distributes information about OSM, such as Applied Science program information, and showcases successes in reclamation, wildlife habitat enhancement, and paperless permitting. Popular items include CD's relating to various reclamation techniques, research reports, manual, guidelines, and public domain software, in addition to OSM's annual reports and links to OSM's web pages.

Target audience: Reclamation managers, consultants, state, tribal and Federal agencies' natural resource specialists, and reclamation staff.

Contact: Duane O. Matt, Technology Coordinator/TIPS Training and Technology Transfer, OSM, Denver, CO; 303-293-5072; Fax: 303-293-5058 E-mail:

[dmatt@osmre.gov](mailto:dmatt@osmre.gov) . Conference website:

<http://www.smenet.org/meetings/details/?meeting=2010%20SME%20Annual%20Meeting%20%26%20Exhibit>

**APRIL 13-14, 2010**

**MID-CONTINENT AMD WORKSHOP AT THE DRURY, INN, EVANSVILLE, IN**

Background: This is the fourth Mid-Continent Region AMD workshop focusing on treatment of acid mine drainage.

Topics Covered: The workshop will have an emphasis on the use of bioreactors in the treatment of AMD, and covered topics will range from the evolution, construction, and modeling of bioreactors to other AMD remediation technologies. Speakers will be representing a wide range of organizations and programs that are actively involved in AMD remediation and research in the mid-continent region. The workshop will include field excursions to several of Indiana's AMD-affected sites. These sites will be in varying stages of reclamation and will demonstrate practical applications of bioreactors and other AMD remediation techniques.

Target Audience: Participants are State, Federal and Industry representatives involved in the design, construction, and monitoring of passive treatment AMD systems.

Contract: OSM contact Nick Grant (618) 453-6460 x 5148 [ngrant@osmre.gov](mailto:ngrant@osmre.gov); Indiana contacts Randy Hoffman and Laura Montgrain (812) 665-2207.

**APRIL 18-22, 2010**

**MIDAMERICA GIS CONSORTIUM (MAGIC), WESTIN CROWN CENTER, KANSAS CITY, MO**

Background: GIS covers such a broad range of subjects, applications and types of people that use it, that developing a conference program that meets everyone's needs is a challenging task. Even more challenging is an attendee trying to figure out exactly which sessions or topics will be most interesting and helpful. MAGIC 2010 is intended to focus the content of the presentation options into a program specifically geared to each attendee's needs. ;;

Topics Covered: ;Safe and Healthy: Using GIS in the public safety and health industries ;Public Face of GIS: Moving GIS to the web and out to the public for mass consumption ;Professional Development: Becoming a better GIS professional ;Smart Growth: Managing the growth of communities with GIS ;Saving Time and Money: Using GIS to become more efficient in what we do ;Imagery and Remote Sensing ;Establishing linkages between GIS users having similar application interests ;Facilitating communication and data sharing across levels of government and between government, industry and academia ;Promoting spatial data standards and land records modernization ;Promoting collaboration and advancement of geospatial technologies ;;;

Target Audience: All GIS users

Contact: [AMBER.REYNOLDS@AECOM.COM](mailto:AMBER.REYNOLDS@AECOM.COM) ;816.474.4400 Fax: 816.391 4438;  
[HTTP://WWW.MAGICGIS.ORG/](http://WWW.MAGICGIS.ORG/)

**APRIL 26-30, 2010**

**210 DOI CONFERENCE ON THE ENVIRONMENT, PORTLAND, OR**

Background: The conference will provide a forum for Interior staff to meet and exchange information on a wide variety of environmental and natural resource topics and issues. It is being sponsored by the Office of Environmental Policy and

Compliance and hosted by the National Park Service. Concurrent sessions will be held including training sessions, educational field trips, exhibits, papers, panels and poster presentations.

Topics Covered: Expected topics covered include: Energy; Transportation; Environmental management systems; Greenhouse gases and climate change; Sustainable practices, such as sustainable buildings, electronics stewardship, green procurement and solid waste management; NEPA; Environmental liabilities; Emergency Response – ESF 10 and 11; and Environmental compliance. Some subject matter training (HazMat and other) will be offered as well.

This conference can be an opportunity to focus on some of the Secretary's goals of: fostering a greater sense of stewardship in our youth for natural and cultural resources; enabling the capacity to increase water conservation among our customers in the West; increasing the potential for production and transmission of renewable energy resources on DOI managed lands; establishing a working multi-bureau approach for mitigating climate change on our lands; empowering Native communities; and protecting our treasured landscapes and the great outdoors.

Target Audience: All DOI employees.

Contact: For additional conference information, go to:  
<http://www.doi.gov/greening/conference/index.html>

**JUNE 5-11, 2010**

**2010 JOINT CONFERENCE--27TH ANNUAL MEETING OF THE AMERICAN SOCIETY OF MINING & RECLAMATION, 12TH ANNUAL PENNSYLVANIA ABANDONED MINE RECLAMATION CONFERENCE, 4TH ANNUAL APPALACHIAN REGIONAL REFORESTATION CONFERENCE, PITTSBURGH, PA**

Background: The American Society of Mining & Reclamation (ASMR), the Office of Surface Mining (OSM) and the Pennsylvania Abandoned Mine Reclamation Committee are conveners of this joint conference, which has as its theme: Bridging Mining Reclamation, Science and the Community. Although not always recognized or valued, there has always been a need to tie reclamation science and the communities it serves. In many parts of the country, local community groups join forces with government and industry to amplify the amount of work that is done. The partnerships forged are essential in enabling the actual reclamation work. This conference integrates some of the technical and non-technical issues with the intent to impart knowledge, exchange ideas, and share lessons learned to create bridges, the result being the opportunity for a unique conference with something for everyone.

Topics covered: Technical Session topical areas include: Water Management, Forestry and Wildlife, Refuse and Tailings Management & Reclamation, Geotechnical Engineering, Soils and Overburden, Ecology, Land Use and Design, Science, Community & Reclamation Special Session, and Case Studies. The Science, Community, and Reclamation (SCR) session topics, which will encompass presentations on a wide variety of subject matter relating to the implementation of mine reclamation projects, provide an opportunity to share information and

experiences on fundamental and practical issues concerning Abandoned Mine Reclamation.

Workshops will tentatively cover: Mine Geochemistry; Acid Mine Drainage Treatments; Stream Restoration; Soils Reclamation; Riparian/Wetland Restoration. Potential field tours will be on: Mountaintop mining in Central West Virginia; Underground Longwall Mining; Stream Restoration, and Acid Mine Drainage treatment sites in northern West Virginia.

Target audience: Specialists in the field of mining and reclamation, and the SCR Sessions will be of interest to a broader audience, from community volunteers to the practicing professionals.

Contact: Lois Uranowski, OSM (AR), 412-937-2805; Conference website: [www.PghMiningReclamationConf.com](http://www.PghMiningReclamationConf.com)

## APPENDIX N TTP AND TIPS COURSES

NATIONAL TECHNICAL TRAINING PROGRAM (N TTP) Nationwide (closest proximity to student offices)

Background: The National Technical Training Program is designed to increase the technical competence and professionalism of Federal, State, and Tribal personnel. The program provides critical updates on the latest technological advances in mining and reclamation technology and fosters consistent application of standards by providing training related to permit approval, reclamation and enforcement and bond release. The program works to ensure that the succession planning goals of surface mining agencies providing training or cross-training in 37 technical, legal, and programmatic areas. All efforts of the program from needs identification through instruction are a joint effort of State, Tribal, and OSM teams. 85% of students are from the States and Tribes. 40% of instructors are from States, 50% from OSM, and 5% from the DOI Solicitors’ office. See Appendix for course list.

### NATIONAL TECHNICAL TRAINING PROGRAM (N TTP) COURSES

Acid-Forming Materials (6 courses)
Abandoned Mine Land Design Workshops (highwalls, fires, openings, subsidence, landslides)
Blasting (basic and advanced)
AML Project Management
AML Realty
Bonding (legal and cost-estimation)
Effective Writing
Engineering (basic and spoil handling)
Inspection (2 courses)
Instructor Training
Historic and Archeological Resources (2 courses)
Hydrology (2 courses)
Legal (enforcement procedures, evidence preparation, expert witness)
NEPA Procedures
Permit Findings
Soils & Revegetation (2 courses)
SMCRA & ESA
Underground Mining (2 courses)
Wetlands

**Technical Innovations and Professional Services (TIPS) Software Application Training Program TIPS Training Centers (Alton, IL, Denver, CO, Pittsburgh, PA and Customer sites)**

Background: TIPS provides training in the use of its software applications as a core business activity. TIPS have offered reclamation-focused core software training for nearly a decade. The importance of this program to the overall success of TIPS is best expressed by a Steering Committee member who said that, “Training, training, and training” were the top three priorities of his state regarding TIPS services. TIPS computer application training is performed at the three TIPS Computer Training Centers in Alton, Denver, and Pittsburgh, with need-based customer on-site training where appropriate. See Appendix for course list.

**TIPS Courses**

Advanced Topics for Permitting and Reclamation using AutoCAD
AMDTreat for Acid Drainage Treatment Cost Estimation
Analyzing Environmental Monitoring Data Using StatGraphics Plus
ARCGIS Spatial Analyst: for Mining and Reclamation
ArcPAD 6: Mobile GIS for Reclamation Mapping and Analysis
Autodesk Map for Permitting and Reclamation
Blast Log Evaluation Program (BLEP)
CAD Applications for Permitting and Reclamation
Galena Slope Stability Analysis
GeoExplorer 3 GPS & PF Office: Advanced GPS Mapping for Recl.
GPS Analyst for ArcGIS
Image Analysis and Stereo Analyst for ArcGIS
Intro to ArcGIS - ArcINFO 8.X Desktop for Mining & Reclamation
Intro to Remote Sensing & Photogrammetry for Permitting & Insp. Using ERDAS Imagine
Introduction to ArcGIS for Mining and Reclamation
Modeling and Analysis with Groundwater Vistas
SDPS: Surface Deformation Prediction System
SEDCAD Applications and Extensions for Mine Permitting and Reclamation
Statistics Workshop: Interpretation of Water Quality Data using Statgraphics and AquaChem
SurvCADD for Reclamation and Permitting
Testing and Analysis of Aquifer Characteristics with AQTESOLV
Trimble GeoXT, Terrasync and PF Office: Mobile Computing for Reclamation
Underground & Surface Mine Mapping with Autodesk Raster Design & Autodesk Map
Underground Mine Mapping with GIS
Water Quality Analysis using AQUACHEM

## GLOSSARY

**LIMITED INTEREST MEETING** -- This term reflects meetings/conferences that are generally by invitation only reflect-ing limited focus and interest. These meetings are held primarily by standing teams, steering committees, task forces, etc.

### Acronyms

AML	Abandoned mine Land
ACSP	Appalachian Clean Streams Program
ADTI	Acid Drainage Technology Initiative
ARCC	Appalachian Regional Coordinating Center
ARRI	Appalachian Regional Appalachian Reforestation Initiative
ARTTT	Appalachian Regional Technology Transfer Team
ASMR	American Society of Mining and Reclamation
CAD	Computer-Aided Design
CCB	Coal Combustion Byproducts
CHIA	Cumulative Hydrologic Impact Assessment
CIA	Cumulative Impact Area
DGPS	Digital Global Positioning Systems
DOE	Department of Energy
EPA	Environmental Protection Agency
FBC	Fluidized Bed Combustion
GIS	Geographic Information System
GPS	Global Positioning Systems
IMCC	Interstate Mining Compact Commission
ISM	Information System Management Division
MCRCC	Mid-Continent Regional Coordinating Center
NTTP	National Technical Training Program
NTTT	National Technology Transfer Team
OSM	Office of Surface Mining
OSM-HQ	Office of Surface Mining-Headquarters
OSM WAN	OSM Wide Area Network
PHC	Probable Hydrologic consequences
R&D	Research and Development
RD-WRCC	Regional Director, Western Regional Coordinating Center
SME	Society for Mining Metallurgy and Exploration
SMCRA	Surface Mining Control and Reclamation Act
TIPS	Technical Innovations and Professional Services
TIPS TEAM	TIPS National Team
TIPS-SC	TIPS Steering Committee
WIEB	Western Interstate Energy Board
WRCC-OTT	Western Regional Coordinating Center-Office of Technology Transfer
WRTT	Western Regional Technical Team