

Technology Transfer Events for 2004

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Dates TBD---- Underground Mine Mapping Follow-Up Meetings, Locations TBD

(likely in the East – Pittsburgh, Cine Pool Workshop, West Virginia University, Morgantown, West Virginia. >> **LIMITED INTEREST MEETING** <<

Background: Interconnected flooded underground mines have long been a concern in the Appalachian Region. Over the past 100 years many underground operations have become flooded and are interconnected with active operations. Pumping of the active operations maintain the pool elevation below drainage. However, if pumping should cease for whatever reason, toxic discharges are possible.

Topics: Mine pool modeling and monitoring will be discussed, recent findings of various researchers will be presented. Perspectives from industry, EPA, state regulatory authorities, and academia will be presented. Marketing of water captured in the mine pools will also be addressed.

Target Audience: Scientists from industry, State and Federal agencies, academia, as well as managers charged with monitoring and preventing mining related environmental problems will attend.

Team Contact: Vann Weaver, (412)-937-2858

AUGUST 2004

August 3-5 2004, Hydrology Workshop, Morgantown, WV. Radisson Hotel

Background: This 2 ½ day workshop, sponsored by Appalachian Regional Technology Transfer Team (ARTT), will present regional hydrology issues associated with longwall mining including water loss and stream replacement, evaluation of mine pools, and will address the major recommendations made at the National Benchmarking Workshop on Probable Hydrologic consequences/Cumulative Hydrologic Impact Assessments (PHC/CHIAs). The forum will be interactive with state regulatory authorities, OSM and industry representatives presenting current studies and application of technology to these hydrologic issues.

Topics Covered:

- Flow characteristics of underground mine pools including the delineation of mine pool extent and water quality and quantity;
- Water loss related to underground mining - stream de-watering (total or partial);
- Water Supply Replacement - pre and post mining characterization of quality and quantity of water supplies;
- CHIAs - establishing meaningful Cumulative Impact Areas (CIAs), monitoring and determining material damage standards, predictive techniques, assessing permits during mining and reclamation, database and GIS data management tools, and technical approaches to litigation;
- Post Mortems - state-by-state case studies of surface and underground mines surface other facilities.

Target Audience: Approximately 60 representatives from the Appalachian states of Kentucky, Maryland, Ohio, Pennsylvania, Tennessee, Virginia and West Virginia; OSM technical staff and coal industry personnel.

Contact: Vann Weaver, OSM ARCC Program Support Division (412) 937- 2858.

SEPTEMBER 2004

September 13-17, 2004 , Western Regional Technical Team (WRTT) Meeting in Anchorage, Alaska (Co-hosted by Alaska Division of Mining, Land, and Water, and OSM-WRCC-OTT)

Background: OSM-WRCC-OTT will co-sponsor the two-day information exchange meeting, co-hosted by the Alaska Division of Mining, Land and Water, followed by a field trip to the Usibelli Mine in Healy, Alaska. Under technology transfer and technical assistance umbrella, the seven western states regulatory agencies requested that OTT co-sponsor with them several small regional meetings. Under this scenario each state regulatory agency would get the opportunity to showcase different technologies available to them, provide hands-on opportunities for the other six states to see, and participate in what is involved in implementing the new technologies. These exchanges of information will result in better-prepared staff, and more informed managers, when they return to their offices. This will be the fourth and last workshop in the FY04 series, and it will highlight Alaska's progress in the electronic permitting process.

Target Audience: WRTT and the seven Western State technical staff and managers, and WRCC staff and managers.

Contact: Joe Galetovic, OSM WRCC, Office of the Regional Director (303) 844-1448.

NOVEMBER 2004

November 16 - 17, 2004, Interstate Mining Compact Commission (IMCC) Mid-Year Meeting, The Waterford Marriott Hotel, Oklahoma City, OK >> LIMITED INTEREST MEETING<<

Background: This is the mid-year meeting of the IMCC member states to discuss issues of concern and technical matters.

Topics Covered: Policy and technical issues

Target Audience: IMCC member states; non-member states; Federal representatives; and observers.

Contact: Greg Conrad (703) 709-8654

November 16-18, 2004, Indiana Bat & Coal Mining Forum, Louisville, KY.

Background: OSM MCRCC in cooperation with ARCC, the U.S. Fish & Wildlife Service.

Topics Covered: The Biology and Life History of the Indiana Bat; Field Techniques for Biological Assessment; Consultation Process; Case Studies; Guidance Development for Permitting.

Target Audience: State and Federal Agencies, Universities, Bat experts, and coal industry involved with protection of the species related to coal mining permits.

Contact: Kimery Vories (618) 463-6463 x 103

DECEMBER 2004

December 7-9, 2004, Integration of Geospatial Technologies in Mining and Reclamation, Renaissance -Waverly Hotel Atlanta, GA

Background: The conference will enlighten geospatial software users of the utility and value of utilizing the latest geospatial techniques in the challenges associated with mining and reclamation issues. It will also enable participants to exchange ideas/thoughts from differing viewpoints with regard to SMCRA problems.

Topics Covered: OSM, WIEB and IMCC will jointly sponsor a national geospatial conference in late FY 2004 serving as a technology transfer function for OSM affiliated entities. The conference goal is to bring the latest advancements in geospatial techniques, solutions and software together with the SMCRA community to facilitate geospatial technology transfer in a national forum. As a result of the stated goal, OSM can better direct its resources to the various State programs. The conference will include topical sessions related to GIS, GPS, Remote Sensing, Electronic Permitting, and Mobile Computing as applied to mining and reclamation related issues. A bilateral approach is anticipated whereby high-level demonstration projects solving SMCRA issues will be presented by end users. The second function involves incorporation of our main vendors (ESRI, Trimble, etc.) to demonstrate/discuss the latest trends affecting the geospatial community as applied to mining and reclamation.

Target Audience: The audience will be primarily end users of the software involved in SMCRA related work. Each of the coal producing states will have the opportunity to present unique or advanced geospatial solutions to coal mining (Title V) and reclamation issues (Title IV). Software vendors and academia will also be afforded the opportunity to present cutting edge technology presentations throughout the conference.

Contact: Bill Clark 303-844-1400 x1495 or Bill Winters 412-937-2105

TECHNICAL INNOVATIONS AND PROFESSIONAL SERVICES (TIPS) SOFTWARE APPLICATION TRAINING PROGRAM

**TIPS Training Centers (Alton, IL, Denver, CO, Pittsburgh, PA and Customer sites)
October 1, 2003 – September 30, 2004**

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.

COURSES
AMD Treat (AMD cost estimation)
ArcGIS (Geographic Information System)
TerraSync and Pathfinder Office Global Positioning Systems (GPS)
ArcPAD (GIS mobile computing)
ArcView (GIS)
Computer-Aided Design (CAD) Applications
Statgraphics (Statistics software)
Groundwater Vistas (ground water model)
Galena (slope stability)
SurvCADD (landform model)
AquaChem (water quality)
SDPS (subsidence prediction)
Aqtesolv (ground water model)
SedCAD (surface water sedimentation)
GIS Online Courses

**NATIONAL TECHNICAL TRAINING PROGRAM (NTTP)
Nationwide (closest proximity to student offices) October 1, 2003 – September 30, 2004**

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.

NATIONAL TECHNICAL TRAINING PROGRAM (NTP) 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

ARCHIVE OF PAST 2004 EVENTS

February 3-6, 2004, 106th National Western Mining Conference and Exhibition, Colorado Mining Association, Denver, CO

Background: OSM-Western Regional Coordinating Center's (WRCC) Office of Technology Transfer (OTT) will participate in the annual three-day event, as an exhibitor. This year's Conference theme is *Good Business - Good Neighbors, maintaining community relations*. Traditionally, the conference closes with the Colorado Division of Minerals and Geology/Colorado Mining Associations' Annual Mined Land Reclamation Awards and Safety Awards.

Target Audience: Reclamation managers, consultants, state and federal agencies natural resource and reclamation staff. OTT booth distributes information about OSM, and showcases successes in reclamation, and paperless permitting. Popular items are CDs relating to various reclamation techniques, research reports, manuals, guidelines, and public domain software, in addition to OSM's annual reports, and the link to OSM's web pages.

Accomplished: OTT's booth distributed information about OSM, the Secretary's AML reauthorization press releases, as well as showcased successes in reclamation, and paperless permitting. Popular items were the CDs relating to various reclamation techniques, and CDs with proceedings of Interactive Forums on Bond Release in the arid, semi-arid West. The conference closed with the Colorado Division of Minerals and Geology/Colorado Mining Associations' Annual Mined Land Reclamation Awards and Safety Awards. Excellence in Reclamation Award went to The Trapper Mine, recipient of OSM's 25th anniversary award. Bowie Resources, LLC, Colowyo Coal Company, Energy Fuels Coal, Inc, Sunland Mining Corporation, and Minrec, Inc. were the other five reclamation award recipients.

Contact: Joe Galetovic, 303-844-1448.

February 11-12, 2004, Regional Technology Transfer Team Meeting, Alton, IL.

Background: The recently established Regional Technology Transfer Team consists of one representative from each of the States in the Mid-Continent Region and the MCRCC technology transfer staff.

Topics: The team will be conducting this meeting to showcase technology transfer skills and initiatives used by the States and MCRCC. It will also serve to initiate planning for the three regional technology transfer priorities of: Acid Mine Drainage and Mitigation; Underground and surface mining mapping and aerial photography technology; and Hydrology PHC/CHIA analysis.

Target Audience: Mid-Continent Technology Transfer Team

Accomplished: On February 11 & 12, 2004, nine representatives of the Mid-Continent States and the OSM MCRCC staff meet in Alton, IL to review the status of current technology transfer initiatives in the region and plan for future efforts. There were ten presentations made by State technical staff and OSM technical staff on efforts with existing technical issues and new technologies. The team discussed future efforts and agreed to work on four technical issues that will be delegated to working groups within the team. The team developed specific guidance for each working group on the subjects of Acid Mine Drainage, Mine Mapping, Remote Sensing/GIS/Electronic Permitting/Mobile Computing, and Hydrology PHC/CHIA.

Contact: Kimery Vories (618) 463-6463 x 103

February 20-21, 2004, National Engineers Week, Pittsburgh, PA, Carnegie Science Center

Background: OSM-Appalachian Regional Coordinating Center (ARCC) will participate in the annual 2-day event highlighting Pittsburgh's engineering community with booths and exhibits from numerous industry, government and consulting groups. Our emphasis this year will be on formation of Acid Mine Drainage, its impact on the local environment and treatment. It will include demonstrations and hands-on experiments of pH, acid formation from coal, and impacts on the aquatic environment. The program encourages young people to consider science and engineering in their future career planning.

Target Audience: Youth groups including Girl Scouts, school groups, generally ages 8 through 14, and families.

Accomplished: Staff from OSM-ARCC participated in this annual 2-day event highlighting Pittsburgh's engineering community with booths and exhibits from numerous industry, government and consulting groups. The program encourages young people to consider science and engineering in their future career planning. On Friday, February 20th, school children between the ages of 12 and 16 years and their teachers were on hand. Girl Scouts and families visited our booth the following day. In total, over 400 children and adults participated in the activities, handouts and discussions. "Acid Mine Drainage: formation, its impact on the local aquatic environment and treatment" was our theme this year. Demonstrations and hands-on experiments to determine pH and handouts about some of the impacts on

aquatic life were presented. The children (and adults) were given six liquids to “analyze” and discover the respective pH. Common products like Coke, ammonia, vinegar and baking soda solutions were used along with samples of both alkaline and acidic mine discharges. Information about OSM’s various programs including the Clean Streams Initiative and Teacher Resources Kits were available along with samples of bituminous coal. Also adults were given information on mine subsidence and Pennsylvania’s Mine Subsidence Insurance Program.

Contact: Lois Uranowski, OSM ARCC Program Support Technology Transfer (412) 937-2805.

February 23-25, 2004, 2004 SME Annual Meeting and Exhibit, Colorado Convention Center, Denver, CO

Background: For the fourteenth year WRCC-OTT will participate in the annual three-day event, as an exhibitor. The Society for Mining Metallurgy and Exploration’s (SME) exhibits showcase the newest technologies, products, and service in the mining industry. In addition to the field trips, the Conference technical program and its short courses are a forum for learning and experience.

Target Audience: Industry reclamation managers, consultants, state and federal agencies natural resource and reclamation staff. OTT booth distributes information about OSM, Appalachian Clean Streams Program/Acid Drainage Technology Initiative (ACSP/ADTI), Reforestation Initiative, TIPS, and showcases successes in reclamation, and paperless permitting. Popular items are CDs relating to various reclamation techniques, research reports, manuals, guidelines, and public domain software, in addition to OSM’s annual reports, and the link to OSM’s web pages. In addition SME encourages teachers and educators to attend the conference, which offers the opportunity for educational outreach about SMCRA’s responsibilities and achievements.

Accomplished: At the Meeting and Exhibit on a theme of *Global Technology Networking Resources*, OTT’s booth distributed information about OSM, annual reports, technical reports, handbooks, guidelines and other literature, CDs and videos, as well as showcased successes in reclamation, paperless permitting, and OSM’s on-line technical library. Popular items, in particular with the students from mining engineering programs, and environmental and reclamation curricula were the CDs relating to various reclamation techniques, CDs with technical manuals and handbooks, and CDs with proceedings of Interactive Forums on Bond Release in the arid, semi-arid West.

Contact: Joe Galetovic, 303-844-1448.

March 03-04, 2004, National Technical Training Program (NTTP) Steering Committee Meeting, San Antonio, Texas >>LIMITED INTEREST MEETING >>

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 annual Needs Survey and determines how to allocate requests for space in the courses.

Topics Covered: Committee Reports on Regions; Accomplishments and Attendance Update; Course Evaluations; Course Reports; Report on EIS; Needs Survey.

Target Audience: State and OSM representatives; invited guests

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

Accomplished: Twelve representatives from OSM and State offices representing the national training program met to discuss the upcoming training needs, course revisions, new courses, budget, performance results, etc. of the national training program. This effort helps ensure that training needs are met equally throughout the nation.

March 10-11, 2004, Western Regional Technical Team (WRTT) Meeting, Denver, CO (Co-sponsored by OSM-WRCC-OTT and CO Div. Mining & Minerals) >> LIMITED INTEREST MEETING <<

Background: The Office of Technology Transfer (OTT) of OSM's Western Regional Coordinating Center (WRCC) and the Colorado Division of Mining and Minerals will co-sponsor the second Western Regional Technical Team (WRTT) New Technologies Implementation Information Workshop, hosted by the Colorado Division of Mining and Minerals. Under the technology transfer and technical assistance umbrella of OTT, the seven western state regulatory agencies (AK, CO, MT, ND, NM, UT and WY) that, along with OTT, make up the WRTT, requested OTT to co-sponsor with them a series of small regional meetings to provide a forum where each state regulatory agency will be able to showcase the various technologies that it has available, and to provide hands-on opportunities for the other states to observe, participate in, and learn how to implement them. These exchanges of information will result in better-prepared staff, and more informed managers.

Target Audience: WRTT members, their respective technical staff and managers, and WRCC managers.

Accomplished: Nineteen representatives from seven western states, nineteen OSM staff from three offices, three consultants, and one industry representative attended the Information Workshop. It was followed by a one-day GIS, Digital Imagery, and Modeling Workshop. Colorado Division of Minerals and Geology, Coal Program Manager, David Berry made the opening remarks. The workshop highlighted the Colorado Permit System & Report Generator; and stepped the participants through Colorado's, massive document conversion into electronic format, effort (3 million plus text pages and 27,000 maps). OSM TIPS demonstrated the Wyoming Pilot Project - Bond Release GIS, attributing the success of the project to collaboration and cooperation between state regulators, OSM and industry.

Contact: Joe Galetovic, OSM WRCC, Office of the Regional Director (303) 844-1448.

March 30-31, 2004, Valley Fill Workshop, Ft. Mitchell, KY, Drawbridge, Inn

Background: The Appalachian Regional Technology Transfer Team (ARTTT) is sponsoring this interactive workshop. The event will feature speakers from State Regulatory Authorities, Office of Surface Mining (OSM) and Industry representatives.

Topics Covered: Permitting and inspection requirements for valley fills focusing on durable rock underdrain construction, drainage control and engineering inspections and certifications.

Target Audience: Approximately 50 representatives from the Appalachian states of Kentucky, Maryland, Ohio, Pennsylvania, Tennessee, Virginia and West Virginia; OSM technical staff and coal industry personnel.

Contact: Vann Weaver, OSM ARCC Program Support Division (412) 937- 2858.

Accomplished: The valley Fill Workshop was attended by 46 mining and reclamation professionals from OSM, the States and industry. Case studies, permitting procedures, inspection requirements and analysis of transportation fills were included in the agenda. The workshop was successful, and all evaluations were satisfactory or higher. In fact, all but one

rated the workshop very good to excellent. Lessons learned at the workshop should result in better fill construction through permitting and inspection improvements.

April 14-15, 2004, Appalachian Regional Technology Transfer Team (ARTTT) Semi-Annual Meeting, Weston, WV >> LIMITED INTEREST MEETING <<

Background: OSM's Appalachian Regional Coordinating Center (ARCC) and the State regulatory authorities within its region sponsor a technology transfer team, ARTTT. The purpose of ARTTT is to ensure the proper transfer of technology within the region. ARTTT's purpose is to provide a forum to guide Appalachian Regional TT activities and coordinate and communicate regional TT activities.

Topics Covered: Team meetings include a combination of technical presentations and routine team business. At this meeting the team will address applied science initiatives, plan a future workshop on hydrologic issues, and review the previous workshop on valley fills. There will also be presentations on remote sensing, mine pool modeling, and other technical topics related to mining and reclamation.

Target Audience: Members and invited guest of the ARTTT.

Contact: Vann Weaver, ARCC, 412-937-2858

Accomplished: The Appalachian Regional Technology Transfer Team (ARTTT) met in Roanoke, West Virginia to conduct routine business that included updates from the members of each State program. The ARTTT also worked on the preparation of the Hydrologic Issues Workshop, the Monongahela River Mine Pool Workshop, impoundment breakthrough training, and other regional issues. Informational presentations were made on the following topics: Remining, Remote Sensing and the Appalachian Regional Reforestation Initiative. The meeting was productive and successful.

April 18-22, 2004, Joint Meeting, American Society of Mining and Reclamation (ASMR) 21st Annual Meeting, and West Virginia Surface Mine Drainage Task Force 25th Annual Meeting, Morgantown, WV

Background: OSM-HQ, OSM-ARCC-, WRCC-OTT and MCRCC will participate in the joint Annual Meetings as exhibitors and speakers. Traditionally, the conference provides an opportunity for scientists, researchers, regulators, and mining and reclamation personnel to exchange information, share ideas and meet together. The American Society of Mining and Reclamation annually recognizes outstanding efforts in the field of land reclamation, reclamation research, and lifetime achievement in land reclamation, and the individuals are presented the awards at this meeting.

Target Audience: Reclamation managers, and technical staff, consultants, state and federal agencies natural resource and reclamation staff. OSM booths will distribute information about OSM, ACSI/ADTI, Reforestation Initiative, TIPS, and showcases successes in reclamation, and paperless permitting. Popular items are CDs relating to various reclamation techniques, research reports, manuals, conference proceedings, guidelines, public domain software, links to OSM's web pages, and OSM annual report CDs.

Contact: Joe Galetovic, 303 844-1448, Lois Uranowski, 412-937-2805, John Craynon, 202-208-2866 or Kim Vories, 618-463-6463 X103.

Accomplished: Personnel from OSM's three Regional Centers (ARCC, MCRCC AND WRCC) and HQ attended and participated in this joint conference as exhibitors and speakers. OSM activities in a number of areas were highlighted in a number of papers that were presented, including the Acid Drainage Technology Initiative (HQ Division of Technical Support), AMD Treat software (Harrisburg Field Office), Passive Treatment Systems (MCRCC), and others. OSM also sponsored several full day workshops on mobile computing (MRCC), AMD Treat software and remining (both ARCC). This joint

conference provided ample opportunities for OSM staff to meet and interact with other scientists, researchers, regulators, and mining and reclamation personnel to exchange information and share ideas.

April 18-22, 2004, Mobile Computing Workshop/ASMR Annual Meeting, Morgantown, WV

Background: OSM's Mid-Continent Regional Coordinating Center (MCRCC) has developed a workshop on Mobile Computing Technology that enhances the ability of State, Federal and Tribal program staff to conduct fieldwork in a more productive, high quality, and efficient manner. This technology allows Inspectors to take maps and permit data to the field for inspection and verification of mining and permitting activities. The application of Abandoned mine Land (AML) Program site design and re-design in the field is also being applied along with traditional methods to eventually integrate mobile computing as a tool in AML and Regulatory work.

Topics Covered: This workshop covers the uses of mobile computing devices integrated with Global Positioning Systems/Digital Global Positioning Systems (GPS/DGPS) to allow for real time data collection in AutoDesk, Carlson, ESRI and Trimble software products. Mobile computing is the next step beyond GPS data collection. It uses full function computing hardware to implement Computer Assisted Design (CAD) and Geographic Information System (GIS) solutions in the field. All software packages included in the workshop are currently available to the AML and Regulatory programs through the Technical Innovations for Professional Development (TIPS) Program or are under Research and Development (R&D) efforts for potential incorporation into the TIPS software suite.

Target Audience: State, Federal, and Tribal programs.

Contact: Kimery Vories (618) 463-6463 x 103

Accomplished: OSM MCRCC presented a TIPS sponsored Mobile Computing Workshop at joint meeting of the 21st American Society of Mining and Reclamation Meeting and the 25th West Virginia Surface Mine Drainage Task Force Symposium. The Mobile Computing workshop was held before the general sessions and had a associated paper that was published entitled "Assessing Reclamation Features and Estimating Reclamation Costs on Abandoned, Inactive, and Permitted Mines Using Real-Time GPS and Tablet Computers." The workshop had 12 attendees that rated the workshop as very informative and directly applicable to there work environment. Several additional Mobile Computing field demonstrations were conducted during the meeting including one for 3 South Korean attendees. The conference attendance for the general sessions was close to 500.

April 25-28, 2004, Interstate Mining Compact Commission (IMCC) Meeting, The Founders Inn, Virginia Beach, VA >> LIMITED INTEREST MEETING <<

Background: This meeting represents the annual gathering of the IMCC member states to discuss issues of concern and technical matters.

Topics Covered: Policy and technical issues.

Target Audience: IMCC member states; non-member states; Federal representatives, and industry observers.

Contact: Greg Conrad (703) 709-8654

Accomplished: The IMCC annual meeting was held April 25 -28 in Virginia Beach, VA. It was well attended and very successful. There were 50 attendees, including OSM Director Jarrett and the three Regional Directors. Topics discussed included the status of OSM's FY 2005 Budget Request as well as updates on the following: legislation to amend Title IV of SMCRA, EPA activity concerning the mine placement of CCB, the single source coal reporting initiative, performance masures for Title V of

SMCRA, mountaintop mining/valley fill Issues, the NTTTT, underground mine mapping initiative, OSM proposed rules on ownership and control and AVS.

April 28-29, 2004 , Bonding/ Financial Assurance Roundtable Workshop, Virginia Beach, VA , The Founders Inn, Virginia Beach, VA >> LIMITED INTEREST MEETING <<

Background: IMCC is sponsoring this meeting to pursue and follow-up on several topics and issues related to performance bonding under SMCRA and other financial assurance mechanisms, particularly as these relate to the bonding crisis being faced by the mining industry.

Topics Covered: Bond availability; bond amounts; financial assurance mechanisms; bonding alternatives.

Target Audience: State and federal representatives; mining industry representatives; surety industry representatives.

Contact: Greg Conrad, IMCC (703)-709-8654

Accomplished: The Bonding Forum was held on April 28 and 29 in Virginia Beach and was very successful. Approximately 40 people attended consisting of federal and state government personnel, mining industry representatives and surety/insurance industry representatives. The group discussed several issues related to bonding and financial assurance including bond availability, forms of bond, managing risk exposure, segregating obligations and looking at various bonding options. Summary meeting notes will be available in the near future.

May 4-6, 2004, State Regulation of Coal combustion Byproduct (CCB) Placement at Mine Sites Forum, Harrisburg, PA.

Background: OSM in cooperation with IMCC, the States, industry, DOE, and EPA is co-sponsoring this event because of a recognized need for increasing awareness of the beneficial aspects of CCB placement at mine sites that are adequately regulated by appropriate State programs.

Topics Covered: Use of Fluidized Bed Combustion (FBC) Materials in Mining Reclamation; State Program Regulation of CCB Placement at Mine Sites, with Case Studies; Environmental Damage Cases; and A Response to Public Concerns about CCB Placement at Mines in Pennsylvania.

Target Audience: CCB Experts and Professionals in State and Federal programs, Coal and Utility industry, Universities, CCB recycling organizations, and Consultants.

Contact: Kimery Vories (618) 463-6463 x 103

Accomplished: The CCB forum was preceded by a one day field trip to several AML sites where FBC Ash generated by the burning of waste coal is used to reclaim these sites. There were about 120 participants that went on the field tour. There were 175 participants registered for the forum. Based on the participant survey, 95% of the participants rated the forum as extremely satisfied or very satisfied and 100% rated the field trip as extremely satisfied or very satisfied. At the MCRCC exhibit we distributed 70 copies of the Western CCB Forum Proceedings, 120 copies of the UK Ash Symposium CCB Panel Discussion Proceedings, and 150 copies of the MCRCC Technology Transfer CD. Also, the ARCC exhibit had information on Remining, the newest TIPS software, AMDTreat, and the National Mine Map Repository.

June 9-10, 2004, Western Regional Technical Team (WRTT) Meeting in Salt Lake City, Utah (Co-hosted by Utah Division of Oil, Gas, and Mining and OSM-WRCC-OTT)

Background: OSM-OTT will co-sponsor the two-day information exchange meeting hosted by the Utah Division of Oil, Gas, and Mining. Under technology transfer and technical assistance umbrella, the seven

western states regulatory agencies requested that OTT co-sponsor with them small regional meetings. Under this scenario each state regulatory agency would get the opportunity to showcase different technologies available to them, provide hands-on opportunities for the other six states to see and participate in what is involved in implementing the new technologies. These exchanges of information will result in better-prepared staff, and more informed managers, when they return to their offices. This will be the third workshop in the FY04 series, and it will highlight Utah's progress in the electronic permitting process.

Target Audience: WRTT and the seven Western State technical staff and managers, and WRCC staff and managers.

Accomplished: Twenty-four representatives from seven western primacy states, one Utah Division of Wildlife Resources presenter, and seven OSM staff from three offices attended the workshop. Mary Ann Wright, Utah Division of Oil, Gas, and Mining, made the opening remarks. The workshop highlighted Utah's progress in the electronic permitting process, their Water Quality Database System, and electronic laboratory data exchange with operators. Other presentations included Alaska's Mining Claims Mapper, Use of Colorado's Permit System to track historical records, and an update on the Wyoming Bond Release GIS - Pilot Project.

Contact: Joe Galetovic, OSM WRCC, Office of the Regional Director (303) 844-1448.

July 14-15, 2004, National Technical Training Program (NTTP) Steering Committee Meeting, Salt Lake City, Utah >> LIMITED INTEREST MEETING <<

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 annual Needs Survey and determines how to allocate requests for space in the courses.

Topics Covered: Committee Reports on Regions; Accomplishments and Attendance Update; Course Evaluations; Course Reports; FY 2005 Needs Survey Results & Preliminary

Target Audience: State and OSM representatives; invited guests

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

Accomplished: Twelve representatives from OSM and State offices representing the national training program met to discuss the upcoming training needs, course revisions, new courses, budget, performance results, etc. of the national training program. This effort helps ensure that training needs are met equally throughout the nation.

June 29, 2004, Underground Mine Pool Workshop, West Virginia University, Morgantown, West Virginia. >> LIMITED INTEREST MEETING <<

Background: Interconnected flooded underground mines have long been a concern in the Appalachian Region. Over the past 100 years many underground operations have become flooded and are interconnected with active operations. Pumping of the active operations maintain the pool elevation below drainage. However, if pumping should cease for whatever reason, toxic discharges are possible.

Topics: Mine pool modeling and monitoring will be discussed, recent findings of various researchers will be presented. Perspectives from industry, EPA, state regulatory authorities, and academia will be presented. Marketing of water captured in the mine pools will also be addressed.

Target Audience: Scientists from industry, State and Federal agencies, academia, as well as managers charged with monitoring and preventing mining related environmental problems will attend.

Team Contact: Vann Weaver, (412)-937-2858

Accomplished: Approximately 60 professionals from the Appalachian States, academia, industry, OSM, and the EPA participated in this workshop that addressed the growing concern over flooded mine pools and their potential to discharge. The morning session consisted of the presentation of several papers and case studies by the states, OSM, industry and West Virginia University. In the afternoon, the group brainstormed issues and possible solutions to deal with the mine pool water. Thirty-three evaluations were completed, all but one rated the meeting "good to excellent".

July 27-29, 2004, Technical Innovation and Professional Services (TIPS) Steering Committee (TIPS-SC) Meeting, Estes Park, CO (location to be determined)>>LIMITED INTEREST MEETING <<

Background: In cooperation with the States, OSM established the TIPS Steering Committee (**TIPS-SC**) to help guide OSM's TIPS efforts. The TIPS National Team (TIPS Team) will coordinate and cooperate with the Steering Committee. The TIPS Team will report on the progress of efforts related to TIPS services and provide appropriate briefings and discussions." (TIPS Team Charter). The TIPS-Steering Committee membership is as follows: One member from each regional OSM office (3), three State representatives from each region (9), one representative from the OSM Albuquerque Field Office representing Tribal Agencies, one representative from the OSM Federal Tennessee program, one from OSM headquarters, one from OSM Information System Management Division (ISM) representing the OSM WAN, one from the OSM Field Offices and the TIPS-SC chairman, Regional Director, WRCC (RD-WRCC). State Membership of the TIPS-SC shall be appointed by the Interstate Mining Compact Commission (IMCC) or Western Interstate Energy Board (WIEB).

Topics Covered: The Steering Committee meets each year to discuss the previous year's accomplishments of TIPS and to identify the technology areas for TIPS to direct its energies in the coming year. The meeting includes demonstrations of TIPS applications by customers and vendors. Also included are discussions of perceived problem areas and their solutions. Each meeting begins with a discussion of last meeting's issues and their resolution.

Target Audience: Steering Committee members, TIPS Team members, TIPS customers, and vendors as required by the agenda topics.

Contact: Bill Clark 303-844-1400 X1495

GLOSSARY

LIMITED INTEREST MEETING — This term reflects meetings/conferences that are generally by invitation only reflecting 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
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