



ADVANCED INTEGRATION OF GEOSPATIAL TECHNOLOGIES IN MINING AND RECLAMATION

GEOSPATIAL CONFERENCE AND CALL FOR ABSTRACTS

OSM, WIEB, IMCC and NAAML will jointly sponsor a national geospatial conference December 7-9, 2004 in Atlanta, Georgia. The Conference provides an opportunity for industry and regulatory practitioners of advanced geospatial technology to discuss and exchange ideas on the application of this technology to SMCRA related issues. This nationwide conference will also provide a vehicle for State and Federal Regulatory agencies to exchange ideas with coal industry personnel that work on geospatial projects included as part of everyday permitting activities.

TECHNICAL SESSIONS:

Mobile Computing in Mining and Reclamation
Mine Permitting and GIS
GIS Design, Implementation and Management
Geospatial Technology and Bonding
AML Site Assessment, Design and Construction Management
GIS and Abandoned Underground Mines
GIS and GPS in Blasting Activities
Geospatial Databases for Historical Mine Records
Serving and Delivering Geospatial Data

DEADLINES:

<i>Abstracts Due:</i>	<i>June 30, 2004</i>
<i>Draft Papers Due:</i>	<i>September 17, 2004</i>
<i>Final Papers Due:</i>	<i>November 12, 2004</i>

CONFERENCE BACKGROUND

OSM staff and TIPS customers are making significant progress in the application of geospatial technology to SMCRA reclamation and enforcement. This progress has never been more evident than at the TIPS Steering Committee meeting held September 9-11, 2003, in Breckenridge, Colorado. Several presentations were made to the Committee demonstrating the utility of geospatial technology through SMCRA project examples. The committee asked the TIPS team to investigate the feasibility of sharing this technology with the TIPS customer community in general, with the hope of technology transfer, and to educate more potential users in the capabilities available to them. This conference is a result of that effort.

CONFERENCE PURPOSE

The conference will facilitate an exchange of geospatial solutions between users of advanced geospatial techniques in SMCRA related applications. 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 regulatory and coal industry 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.

CONFERENCE FORMAT

A 3 day conference will include the following theme sessions:

- 1. Mobile Computing in Mining and Reclamation**
 - Applications in Permitting
 - Applications in AML
 - Project Translation from Computer to Field
 - Using Mobile Computing for Mine Map Verification
- 2. Mine Permitting and GIS**
 - Electronic Permitting
 - Jurisdictional Location
 - Project Translation: From Paper to Computer
 - Hydrologic Decision Making with GIS
 - Soils and Re-vegetation Assessments
- 3. GIS Design, Implementation and Management**
 - GIS Maintenance
 - Metadata Concerns
 - Linking Electronic Imagery to GIS
 - Designing a Mine Related GIS
 - GIS Implementation

CONFERENCE FORMAT (continued)

4. **Geospatial Technology and Bonding**
 - Geospatial Technology Applied to Bond Calculations
 - Using GIS for Bond Release Decision Making
 5. **AML Site Assessment, Design and Construction Management**
 - Site Inventory and Assessment
 - Project Design
 - Construction Management
 6. **GIS and Abandoned Underground Mines**
 - Mapping Mine Pools and Discharges with Geophysical Remote Sensing
 - Incorporating Underground Mine Maps into a GIS
 - Correlation of Surface Features with Underground Mines
 - Standards and Practices for Converting Paper Maps into GIS
 7. **GIS and GPS in Blasting Activities**
 - Using GIS in Explosive Complaint Investigation
 - Pre-blast Surveys
 - Blast Design Applications
 8. **Geospatial Databases for Historical Mine Records**
 - Building and Maintaining Geospatial Databases for Historical Mining Activities
 - Converting Geologic Data to Electronic Formats
 - Using Historical Data in Permitting
 9. **Serving and Delivering Geospatial Data**
 - Delivering Data to Internal Clients Through a Network
 - Serving Geospatial Data to the Public
 - Internet Map Servers for Mine Related Data
 - Using Web Portals to Acquire and Distribute Data.
- Poster Session
 - Static poster/computer displays highlighting TIPS users applications that lend themselves to graphical display
 - Exhibits
 - Software vendors, Federal and State Agencies
 - Technical and General Plenary Sessions
 - General sessions on TIPS
 - Evening Reception
 - Software Vendor Demonstrations

INTENDED AUDIENCE

The intended audience is TIPS customers from the coal industry and regulatory agencies involved in engineering, reclamation, permitting, technical support, and management user groups. Ideally, we would have 150 – 200 attendees including presenters, representing the full spectrum TIPS geospatial users. The conference will include 25 OSM staff members and 2 representatives from each state and tribe. It is the goal of this conference to share advanced geospatial technology with our TIPS users. With the knowledge they gain, it is hoped that participants will return to their offices and inform others of the available technology and solutions.

CONFERENCE PRODUCTS

The conference proceedings will be published on the TIPS website.

LOGISTICS

A block of rooms has been reserved, at a reduced rate, at the Renaissance – Waverly hotel in Atlanta, Georgia for the conference. Shuttle and taxi services exist at the airport and will carry travelers to and from the hotel.

All potential regulatory and federal agency presenters and attendees should contact their respective TIPS training contact for conference registration and further details. Current conference information can be found at: www.tips.osmre.gov/GeoSpatial/GeospatialConference2004.htm. In addition, no conference registration fees are required.

Potential coal industry presenter and attendees should contact Karen Pierson (OSM-WRCC) at (303) 844-1400 X1487 for registration details. For hotel registration, contact the Renaissance - Waverly to reserve a room. Be sure to mention you are part of the Geospatial Conference to receive the reduced rate. Also, note that there is not a conference registration fee. Hotel registration is available through the Renaissance - Waverly website at <http://marriott.com/property/propertyPage.mi?marshaCode=ATLRB>. Please call Bill Winters for appropriate conference registration code.

Please direct any questions or comments to Bill Winters, (412) 937 - 2105, or email: bwinters@osmre.gov.

EXHIBIT SPACE

Limited exhibit space is available. To reserve exhibit space call Bill Winters at (412) 937-2105. Please have ready: 1) the amount of space required; 2) the number of days of display; and 3) general topic/theme of display.