

NATIONAL TECHNOLOGY TRANSFER TEAM
MEETING SUMMARY

January 4, 2011

1:00 – 2:00 PM Central Time

Participants

AR – Lois Uranowski, Arielle Avishai, **David Lane, Peter Michael**

HDQ – **Steve Sheffield, Josh Rockwell**

MCR – **Kimery Vories** (Team Leader)

WR – **Duane Matt**

TIPS – **Lou Hamm**

NTTP – Sarah Donnelly, **Tom Hines**

IMCC – **Greg Conrad**

WEIB – **Dave Berry**

NAAMLPL – **John Koerth**

Attendees in **Bold**

WR Report

- The Western Region Technology Transfer is preparing for the upcoming **ASMR conference in Bismarck, North Dakota**; June 12-16, 2011. One of the highlights will be a Bond Release workshop. The Western Region Technology Transfer will hold its annual meeting at the conference.
- WRTT is preparing to conduct TIPS Service Manager visits for 2011.

MCR Report

- **Protecting Threatened Bats at Coal Mines. August 31-Sept 3, 2010 Charleston, WV.** 86 forum and 72 field trip participants. Currently working on the proceedings.
- **Ohio State University CCB Research** – OSU is working on securing the permit for the high-volume FGD gypsum demo project near Conesville power plant of AEP. Placement of FGD gypsum is expected to begin in late summer or early fall. Background monitoring is already in progress.
- **EPA CCR Rulemaking** – EPA published its proposed rule on June 21, 2010 on regulating CCR landfills and impoundments. OSM was officially given the lead on mine placement. EPA has defined minefilling as pertaining only to coal mining. EPA comment period ended November 19, 2010.
- **MCR Natural Stream Design (NSD) Workshop:** A steering committee consisting of members from OSM, Illinois and Indiana program staff, Corps of Engineers, industry, and academia are developing a workshop exploring the unique nature and challenges of reclaiming streams in the Midwest. This three day event will take place May 17-19, 2011 in Mt Vernon, IL and will include field visits to stream restoration sites in Southern Illinois and Southwestern Indiana. There are 61 participants registered to date. More information can be found at:
<http://www.techtransfer.osmre.gov/NTTMainSite/Events/importantevents.shtm>

AR Report:

- **Peter Michael** is temporarily acting for Lois Uranowski for 120 days. We welcome

Peter to this call.

- The **ARTT Team conducted the monthly teleconference** on January 3, 2011. All State representatives were present.
- All States reported on **budget and travel constraints** and political changes.
- We again discussed **Workshop topics**. The Team would like to wait for new budgets and publishing of proposed SPR rule before deciding on a particular topic. ARO will survey States and see if there is an interest in conducting individual Workshops in each State so that travel funding is not a concern. The downside is that interaction between States will not occur for these events. We may develop a PowerPoint presentation on the use of Hummingbird depth-finder to determine sediment levels in sediment ponds. An alternate proposal is to develop a short training exercise that can be demonstrated in each State of as part of the NTTP Inspector Training.

NTTP Report

- The **NTTP Steering Committee meeting** will be held in Birmingham on 2/23-24.
- A course development meeting will be held in Pittsburgh, PA in the coming weeks for development of a **Mine Gas Workshop**.
- Some of the **underground mining technology** instructors and NTTP HQ staff will be visiting Bevil State College in Jasper, AL to review their underground mine simulator and see if it might be able to serve as a substitute for underground mine course field exercise.
- Trish Hairston is working on the **2011-12 course catalog**. If people are asked for information, we would appreciate a timely response.
- A course update and revision meeting is scheduled for the **Enforcement Tools and Applications** course on January 25-27, 2011.
- Mae Kimbrough, Course Coordinator and Jane Stieber, Course Manager **recently retired** from NTTP. NTTP is in the process of filling those positions to continue to meet our training responsibilities.

HEADQUARTERS Report

- The UGMMP manager has been instructed to hold off on distributing the **FY'11 UGMM Solicitation**. The RD's are concerned that funding for the projects will not be available and they would prefer to not distribute the request for proposals rather than going through the motions to later determine that OSM just can not financially cover this program. Steve Sheffield and Josh Rockwell will be meeting with OSM management to come to a resolution regarding this program's continuance.
- **OSM CCB Rulemaking** – The OSM director stated that the OSM proposed rule is a priority for 2011.

TIPS Report

- TIPS has software upgrades coming out for AutoCAD, Galena, ArcGIS, and StatGraphics.
- All customer sites supposedly have KeyServer installed on all computers using TIPS software. TIPS is counting on this to be true so that a true count of TIPS software usage can be accomplished.

- TIPS Steering Committee meeting is coming up on May 24 through 26. Representatives will be contacting their constituents for information to bring to the meeting.

IMCC Report

- No report this period.

WEIB Report

Ongoing work with IMCC on oversight and budget policy issues.

NAAML P Report

- 2011 NAAML P **Winter Business Meeting**. Feb 21 – 23, 2011. Orange Beach, Alabama. Hosted by Alabama AML. Reservations: www.perdidobeachresort.com or 800-634-8001 KEYWORD Alabama AML.
- 2011 NAAML P **Annual Conference**. October 9-12, 2011. Olympic Valley, California (Squaw Valley/Tahoe area). “The Gold and Silver States – the Legacy of Mining that Built the West.” Conference will be jointly hosted by California and Nevada AML programs. Conference tours will include AML sites in both California and Nevada. For information on California and Nevada AML programs check these web links: www.consrv.ca.gov/OMR/abandoned_mine_lands/index.htm ; minerals.state.nv.us

Exhibit Schedule

The following is the current OSM exhibits planned for the calendar year 2010.

- ASMR Bismarck, ND June 11-16, 2011 WR (National Coordination)
- NAAML P Annual Meeting Olympic Valley, CA October 9-12, 2011 by WR
- NASLR Annual Meeting, The Resort at Glade Springs in Daniels, WV, September 25-28, 2011 by AR
- TX Surface Mining & Reclamation Workshop, College Station, TX October, 2011 by MCR
- TMRA Annual Meeting, TX, October 2011, by MCR
- ISMR Jasper, IN December, 2011 by MCR

Next conference call will take place **at 1 PM Central Time, March 1, 2011.**

NATIONAL TECHNOLOGY TRANSFER TEAM
MEETING SUMMARY

May 3, 2011

1:00 – 1:30 PM Central Time

Participants

AR – Arielle Avishai, **David Lane, Eric Perry**

HDQ – Steve Sheffield, **Josh Rockwell**

MCR – **Kimery Vories** (Team Leader)

WR – **Duane Matt**

TIPS – **Lou Hamm**

NTTP – Sarah Donnelly, **Tom Hines**

IMCC – **Greg Conrad**

WEIB – Dave Berry

NAAMLPL – John Koerth

Attendees in **Bold**

WR Report

- **ASMR Conference** is June 11-16 in Bismarck, ND. The booth display has been coordinated with the Western Technology Transfer folks that have the lead on the Technology Transfer display. The conference will include a separate Bond Release Workshop, and the Western Region Technology Transfer annual meeting will take place on Wednesday afternoon at the conference. All Technology Transfer personnel are welcome to attend.
- The Western Region has received a request from the state of Alaska to convene a working group to research applications for **in-situ coal development**. They are beginning to receive requests for exploration and permits concerning in-situ mining and would like to know what other states and OSM are doing. The Western Region is convening the workgroup with representatives from Western states and Western Region OSM to address the best way to address these applications through SMCRA.

MCR Report

- **Protecting Threatened Bats at Coal Mines. August 31-Sept 3, 2010 Charleston, WV.** 86 forum and 72 field trip participants. Currently working on the proceedings to be published in May.
- **Ohio State University CCB Research** – OSU is working on securing the permit for the high-volume FGD gypsum demo project near Conesville power plant of AEP. Placement of FGD gypsum is expected to begin in late summer or early fall. Background monitoring is in progress.
- **EPA CCR Rulemaking** – EPA published its proposed rule on June 21, 2010 on regulating CCR landfills and impoundments. OSM was officially given the lead on mine placement. EPA has defined minefilling as pertaining only to coal mining. EPA comment period ended November 19, 2010. Will not publish in 2011. Will initiate a new round of public comment.
- **MCR Natural Stream Design (NSD) Workshop:** A steering committee consisting of members from OSM, Illinois and Indiana program staff, Corps of Engineers, industry,

and academia are developing a workshop exploring the unique nature and challenges of reclaiming streams in the Midwest. This three day event will take place May 17-19, 2011 in Mt Vernon, IL and will include field visits to stream restoration sites in Southern Illinois and Southwestern Indiana. There are 143 participants registered to date. More information can be found at:

<http://www.techtransfer.osmre.gov/NTTMainSite/Events/importantevents.shtm>

AR Report:

- Eric Perry is temporarily acting for Lois Uranowski for 120 days. We welcome Eric to this call.
- The ARTT Team conducted the monthly teleconference on May 2, 2011. All State representatives, with the exception of Pennsylvania, were present.
- All States reported on budget and travel constraints and political changes.
- We discussed topics for the Fall ARTT meeting that will be held at the Stonewall Resort in Roanoke, West Virginia September 20 through 22, 2011. David will make arrangements for presentations by Applied Science Principle Investigators for recently completed projects. The ARTT members will provide suggested topics. Representatives from TIPS, NTTP and IMCC will be extended invitations.

NTTP Report

- NTTP sent out the Fiscal Year 2012 Needs Survey today asking what the needs are for the upcoming fiscal year.
- Ruchi Kohli was selected for the position of Course Manager replacing Jane Stieber who retired in January of this year.
- NTTP cancelled two courses scheduled for June as we are short two coordinators. We may need to cancel one of the 6 classes scheduled for July if these positions aren't filled.

HEADQUARTERS Report

- The Director has given the go-ahead to **conduct the ranking and rating for the FY'11 UGMM proposals**. The proposals have been distributed to the voting members of the UGMM Steering Committee and the ranking process should be complete by May 24th. A briefing paper will then be developed for use during the June CLT meeting and will include the final ranking and recommendations for funding.

TIPS Report

- The **TIPS Steering Committee** will take place this month on May 24-26. Agenda topics include a business networking discussion concerning OSM and state efforts to place SMCRA related mining data online through the GeoMine initiative.
- TIPS continues efforts to place some training courses online.

IMCC Report

- Now that much of the congressional workload associated with the FY 2011 and FY 2012 budgets is behind us in terms of hearings, testimony and statements, **IMCC is focused on several regulatory matters**. The states anticipate an opportunity to weigh in on a concept paper that will be prepared in advance of a proposed rule on mine placement of

coal combustion residues, probably in the June timeframe. We also anticipate additional work associated with the preliminary draft environmental impact statement (PDEIS) for the stream protection proposed rule. We also expect to see additional opportunities to work with OSM on several of the key oversight directives, particularly REG-8, REG-23 and INE-35.

- IMCC also will be looking at the **potential for advancing a benchmarking workshop** on a topic of special interest to the states, assuming we can solicit a small amount of funding from OSM to support this initiative. Topics of interest include underground mine mapping and technical issues associated with the anticipated stream protection rule.
- IMCC is also working with both the Appalachian and Mid-Continent Regions to formulate agendas and logistics for **two upcoming OSM/State regional meetings**: June 1 and 2 in Cincinnati and June 21 and 22 in St. Louis.

WEIB Report

- No Report

NAAML P Report

- 2011 NAAML P **Annual Conference**. October 9-12, 2011. Olympic Valley, California (Squaw Valley/Tahoe area). “The Gold and Silver States – the Legacy of Mining that Built the West.” Conference will be jointly hosted by California and Nevada AML programs. Conference tours will include AML sites in both California and Nevada. For information on California and Nevada AML programs check these web links: www.consrv.ca.gov/OMR/abandoned_mine_lands/index.htm ; minerals.state.nv.us

Exhibit Schedule

The following is the current OSM exhibits planned for the calendar year 2010.

- MCR Natural Stream Design May 17-19, 2011, MCR
- ASMR Bismarck, ND June 11-16, 2011 WR (National Coordination)
- NAAML P Annual Meeting Olympic Valley, CA October 9-12, 2011 by WR
- NASLR Annual Meeting, The Resort at Glade Springs in Daniels, WV, September 25-28, 2011 by AR
- TX Surface Mining & Reclamation Workshop, College Station, TX October, 2011 by MCR
- TMRA Annual Meeting, TX, October 2011, by MCR
- ISMR Jasper, IN December, 2011 by MCR

Next conference call will take place **at 1 PM Central Time, June 28, 2011.**

NATIONAL TECHNOLOGY TRANSFER TEAM
MEETING SUMMARY

June 28, 2011

1:00 – 1:30 PM Central Time

Participants

AR – Arielle Avishai, **David Lane, Eric Perry**

HDQ – Steve Sheffield, Josh Rockwell

MCR – **Kimery Vories** (Team Leader)

WR – Duane Matt

TIPS – **Lou Hamm**

NTTP – Sarah Donnelly, Tom Hines

IMCC – **Greg Conrad**

WEIB – **Dave Berry**

NAAMLPL – John Koerth

Attendees in **Bold**

WR Report

- The **Western Region Technology Transfer Team** held its annual meeting at the ASMR Conference in Bismarck, ND. We discussed the role of Technology Transfer in the Region and what we can do to improve. We had a demonstration of the FLIR Thermal Camera that is provided nation-wide for checkout by TIPS. A FLIR company representative demonstrated the ability of the thermal camera and answered questions. The meeting also included a briefing on the progress of the GeoMine initiative.

MCR Report

- **Protecting Threatened Bats at Coal Mines. August 31-Sept 3, 2010 Charleston, WV.** 86 forum and 72 field trip participants. The proceedings has been published and is now available. The electronic version should be available by the end of July.
- **Ohio State University CCB Research** – OSU is working on securing the permit for the high-volume FGD gypsum demo project near Conesville power plant of AEP. Placement of FGD gypsum is expected to begin in late summer or early fall. Background monitoring is in progress.
- **EPA CCR Rulemaking** – EPA published its proposed rule on June 21, 2010 on regulating CCR landfills and impoundments. OSM was officially given the lead on mine placement. EPA has defined minefilling as pertaining only to coal mining. EPA comment period ended November 19, 2010. Will not publish in 2011. Will initiate a new round of public comment.
- **OSM CCR Rulemaking**- Work is progressing on revising the 2008 proposed rule and the environmental assessment.
- **MCR Natural Stream Design (NSD) Workshop:** Working on making a webinar on the event available on the Web.
- **MCR AML Mitigation Workshop:** A conference call is scheduled for July 18 to begin planning for a regional AML workshop to focus on: (1) AML grouting related to subsidence mitigation; (2) Improving Consistency and Predictability with the USCOE

options for Wetlands and Waters of the U.S. on AML sites; and (3) Alternatives to On-Site Mitigation on AML projects.

AR Report:

- The ARTT Team conducted the monthly teleconference on May 2, 2011. All State representatives, with the exception of West Virginia, were present.
- State representatives asked that ARTT conduct a second Blasting Workshop. Funding for the event is a concern. It was suggested that we consider using the MSHA Academy in Beckley, WV for the function.
- The Fall ARTT meeting will be held at the Stonewall Resort in Roanoke, West Virginia September 20 through 22, 2011. The ARTT members provided suggested topics. An agenda has been developed with presentations from Applied Science PI's, NTTP, TIPS, and OSM reports on technical issues.

NTTP Report

- NTTP received the results of the Fiscal Year **2012 Needs Survey** indicating what the training needs are for the upcoming fiscal year. The results of the Needs Survey will be discussed with the NTTP Steering Committee at their meeting July 27-28.
- **Peaches Butler** is retiring this week after 42+ years of service. We are in the process of hiring two new course coordinators.
- The initial course presentation of the **Acid-Forming Materials: Soils and Overburden** class is scheduled of July 19-22 in Evansville, Indiana.

HEADQUARTERS Report

- **Underground Mine Mapping** - During the June CLT meeting, OSM managers opted to fund every UGMM project submitted for FY'11. All together 15 projects, some with severable portions, will be funded with \$663,594. Josh Rockwell is currently working with each Region and the Budget Office to have the funds placed in the appropriate accounts.

TIPS Report

- TIPS held its **Steering Committee meeting** in Denver on May 24-26. A briefing was given on the progress of the GeoMine initiative along with the Remote Sensing Pilot Project. Among the initiatives from the Steering Committee was a request for a field instrument that would test for Selenium levels in water. There was great interest in a third Geospatial Conference. States indicated that they had derived a lot of effective procedures and initiatives from the past two meetings and they indicated a great need for a third. Funding may be an issue, but we are discussing sponsorship with the IMCC for next year. TIPS is currently addressing other action items from the meeting.

IMCC Report

- We have been working with OSM to provide general input on the agency's anticipated proposed rule on mine placement of coal combustion residues. IMCC plans to submit

some overview comments within the week and suggest further collaborative meetings in the future to flesh out concepts for the rule that accommodate state concerns. There is some talk on Capitol Hill about oversight hearings on AML, with a specific focus on hardrock. We should know more soon. IMCC is also awaiting word on the availability of some year-end funding from OSM to support our benchmarking initiative and more specifically to sponsor a national workshop on underground mine mapping that would share the results of recent applied science work in this area with all the states.

WEIB Report

- The western states, tribes and OSM will hold the **annual management meeting** in Denver on August 9 and 10, 2011. WIEB continues to coordinate with IMCC on national policy and funding issues.

NAAML P Report

- **2011 NAAML P Annual Conference.** October 9-12, 2011. Olympic Valley, California (Squaw Valley/Tahoe area). “The Gold and Silver States – the Legacy of Mining that Built the West.” Conference will be jointly hosted by California and Nevada AML programs. Conference tours will include AML sites in both California and Nevada. Call for papers has closed and conference planning is progressing. For information: http://naamlp.net/2011_conference/main.htm

Applied Science Report

The Director has authorized funding for three more 2010 applied science projects.

- Predicting TDS Release from Central Appalachian Coal Mine Spoils: Dr. Lee Daniels: Virginia Tech
- TROMPE From the Past Will Come the Future: Bruce R. Leavett
- Stream Restoration - Long Term Performance: Jack Nawrot: Southern Illinois University

The Director is seeking additional technical evaluation from AR on two 2010 AMD projects that may receive funding.

- Innovative Remediation of Acid Mine Drainage through Passive Aerobic/Anaerobic Filtration Processes: Dr. Clayton Clark: Florida A&M University (MHEI)
- Improved sulfate-reducing bioreactors for the remediation of high total dissolved solids drainage associated with coal mining and processing in the U.S.: Dr. Liliana Leticariu: Southern Illinois University

Exhibit Schedule

The following is the current OSM exhibits planned for the calendar year 2010.

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- NASLR Annual Meeting, The Resort at Glade Springs in Daniels, WV, September 25-28, 2011 by AR
- TX Surface Mining & Reclamation Workshop, College Station, TX October, 2011 by MCR
- TMRA Annual Meeting, TX, October 2011, by MCR
- ISMR Jasper, IN December, 2011 by MCR

Next conference call will take place at **1 PM Central Time, August 16, 2011.**

NATIONAL TECHNOLOGY TRANSFER TEAM
MEETING SUMMARY

August 16, 2011

1:00 – 2:00 PM Central Time

Participants

NTTT Executive Sponsor - **Erv Barchenger**

AR – Arielle Avishai, David Lane, **Eric Perry**

HDQ – Steve Sheffield, **Josh Rockwell, Li Tai Balboa**

MCR – **Kimery Vories** (Team Leader)

WR – **Duane Matt**

TIPS – **Lou Hamm**

NTTP – Sarah Donnelly, Tom Hines

IMCC – **Greg Conrad**

WEIB – Dave Berry

NAAML P – John Koerth

Attendees in **Bold**

WR Report

- The in-situ coal mining team (now renamed to the **in-situ processing workgroup**) will have a meeting on September 20th, 2011. The meeting will consist of members from all western states/tribes, IMCC with presentations coming from industry and academia.
- The **Brasscap electronic permitting tracking program**, developed by Colorado and implemented by Montana via collaboration between the two states may now be implemented throughout the western region. A meeting to discuss this program will be held in Helena, MT at the end of the month.
- Duane held a meeting with Delva Martinez (OSM computer specialist/web designer) to discuss changing the **Western Region portion of the NTTT website**. This evolved into possibly changing ALL of the **NTTT website**. Duane and Delva met with Lou Hamm to discuss the implementation of this plan. Lou suggested getting concurrence from the NTTT web developer (Karrie Bernhard). Duane has contacted Karrie and is moving forward with the website redevelopment.
- The western region is coordinating the **booth for the NAAML P**. Henry Austin will coordinate with all of the OSMRE regions and put together the booth materials and have them sent to the meeting site. All regions are sending personnel to the meeting who will in turn, staff the booth.
- Duane recently attended **FLIR infrared camera training**. He plans on implementing a quick course on how to use the FLIR by posting a quick tutorial on OSMRE e-learning website. Duane will work with Veronika Eskova on this project.

MCR Report

- **Ohio State University CCB Research** – OSU is working on securing the permit for the high-volume FGD gypsum demo project near Conesville power plant of AEP. Placement of FGD gypsum is expected to begin in late summer or early fall. Background monitoring is in progress.

- **EPA CCR Rulemaking** – EPA published its proposed rule on June 21, 2010 on regulating CCR landfills and impoundments. OSM was officially given the lead on mine placement. EPA has defined minefilling as pertaining only to coal mining. EPA comment period ended November 19, 2010. Will not publish in 2011. Will initiate a new round of public comment.
- **OSM CCR Rulemaking**- Work is progressing on revising the 2008 proposed rule and the environmental assessment.
- **MCR Natural Stream Design (NSD) Workshop**: Working on making a webinar on the event available on the Web.
- **MCR AML Mitigation Workshop**: Based on a survey of the MCR states, there are 20-21 state staff that would participate in an NTTP AML Drilling and Grouting Class taught in one of the MCR states. NTTP is looking into making this happen in 2012.

AR Report:

- The **Fall ARTT meeting** will be held at the Stonewall Resort in Roanoke, West Virginia September 20 through 22, 2011. The ARTT members provided suggested topics. An agenda has been developed with presentations from Applied Science PI's, NTTP, TIPS, and OSM reports on technical issues.
- Cheryl Socotch is the new ARTT member from Ohio. Eric will be finishing his term acting for Lois on Aug 26th. Ken Eltschlager will take over through December.

NTTP Report

- NTTP **2012 Needs Survey** responses were discussed with the NTTP Steering Committee at their meeting July 27-28. There were 1,489 requests for NTTP training for next year.
- The new **Acid-Forming Materials: Soils and Overburden** class was held on July 19-22 in Evansville, Indiana. The students responded very favorably to the course with a 100% approval rating.
- NTTP rescheduled the **Advanced Blasting: Investigation and Analysis** course from July to the week of September 20. The Blasting and Inspection class originally scheduled for that September time slot will be held next Fiscal Year with the dates yet to be determined.
- NTTP is currently working on filling two **course coordinator positions** and has posted the third position. This will complete the filling of those vacancies left by retirements and promotions.

HEADQUARTERS Report

- In June the CLT approved the **funding for 21 UGMM projects** (includes severable portions) in the amount of \$663k.
- I have recently been contacted by three different state entities stating that they had not yet been contacted by a Grants Financial Specialist with regard to developing their cooperative agreement. I am investigating this issue.
- I am currently working with IMCC/MSHA/and various UGMM experts to develop the **UGMM Benchmarking Workshop** that will take place in February or March of 2012.

- Mick Kuhns join HQ Division of Regulatory Support from the Wilkes Barre Area Office.

TIPS Report

- The **GeoMine pilot project** has been funded to provide scanners, plotters, and technical personnel to the four pilot project states. This funding will enable the four states of Kentucky, Tennessee, Virginia, and West Virginia to begin entering coal mining information into the pilot project database so that a geo-database of coal mining information will begin to take shape.
- TIPS will conduct a meeting of all **TIPS Service Managers** in October. The meeting will enable Service Managers to develop a process for providing TIPS services and assistance to TIPS users nationwide. The location and exact dates have not yet been set, but it will take place on the third or fourth week of October.
- A TIPS **ArcGIS class** is underway this week in Denver, instructed by Deb Bell of Colorado and Aldo Plascencia of OSM's Denver office.
- TIPS is expanding the availability of technology equipment to TIPS users by purchasing **new laser survey equipment**. And, Duane Matt has attended training on the use of the FLIR Thermal Cameras that TIPS loans to SMCRA users nationwide. This advanced Training will enable Duane to pass on new techniques for the use of these advanced thermal imaging cameras.

IMCC Report

- IMCC is moving forward with the development of its next **benchmarking workshop** on underground mine mapping. A conference call of the steering committee is scheduled for August 17. Committee members include representatives from the states, OSM and MSHA – many of whom are on OSM's Underground Mine Mapping Steering Committee. The workshop is tentatively scheduled for the Pittsburgh area in early 2012.
- On August 3, IMCC participated in a stakeholders outreach meeting with OSM to discuss the development of OSM's proposed rule on **mine placement of coal combustion residues**. IMCC will follow up with a discussion document regarding mine placement regulations from the states' perspective.
- At last week's **OSM/States western regional meeting**, there was considerable interest expressed in the development of e-permitting programs for the states. MT will host a meeting on the topic the week of August 30th in Helena, which is open to all of the western states. IMCC offered to host follow up workshops on the matter should the states so request.

WEIB Report

- No one on the call

NAAML P Report

- 2011 NAAML P **Annual Conference**. October 9-12, 2011. Olympic Valley, California (Squaw Valley/Tahoe area). "The Gold and Silver States – the Legacy of Mining that Built the West." Conference will be jointly hosted by California and Nevada AML programs. Conference tours will include AML sites in both California and Nevada. Call for papers has closed and conference planning is progressing. For information:

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Applied Science Report

The Director has authorized funding for four more 2010 applied science projects.

- Predicting TDS Release from Central Appalachian Coal Mine Spoils: Dr. Lee Daniels: Virginia Tech
- TROMPE From the Past Will Come the Future: Stream Restoration Inc.
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- Improved sulfate-reducing bioreactors for the remediation of high total dissolved solids drainage associated with coal mining and processing in the U.S.: Dr. Liliana Lefticariu: Southern Illinois University

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- TAMU Surface Mining & Reclamation Workshop, College Station, TX October 6-7, 2011 by MCR
- NAAML P Annual Meeting Olympic Valley, CA October 9-12, 2011 by WR
- TMRA Annual Meeting, TX, October 2011, by MCR
- ISMR Jasper, IN December, 2011 by MCR

Next conference call will take place **at 1 PM Central Time, October 5, 2011.**

NATIONAL TECHNOLOGY TRANSFER TEAM
MEETING SUMMARY

October 5, 2011

1:00 – 1:40 PM Central Time

Participants

AR – Arielle Avishai, **Jeff Trump**, David Lane, **Ken Eltschlager**

HDQ – Steve Sheffield, Josh Rockwell, Li Tai Balboa

MCR – **Kimery Vories** (Team Leader)

WR – **Duane Matt**

TIPS – Lou Hamm

NTTP – Sarah Donnelly, **Tom Hines**

IMCC – **Greg Conrad**

WEIB – **Dave Berry**

NAAMLPL – John Koerth

Attendees in **Bold**

APPLIED SCIENCE CONSENSUS MEETING IN SAN ANTONIO, TX
FEBRUARY 14-15, OR 15-16??? PLEASE ADVISE KIM ASAP OF ANY
CONFLICTS!!!

WR Report

- Henry Austin is still in charge of the **booth at NAAMLPL**. He has finished coordination on that booth, sent off the materials, and is having Ginger Kaldenbach set up the booth. Please call Henry with any additional questions concerning the booth.
- The **In-Situ Processing team** (team leader- Duane Matt) held a workshop in Denver, CO September 20th-21st. The purpose of the meeting was to educate all Western federal offices/states/tribes on the topic of in-situ coal mining. This group is tasked with the creation of a set of guidelines pertaining to the regulation of in-situ coal mining. The technology transfer group will distribute these guidelines pertaining to this type of mining upon completion of these guidelines.

MCR Report

- **Ohio State University CCB Research** – OSU is working on securing the permit for the high-volume FGD gypsum demo project near Conesville power plant of AEP. Placement of FGD gypsum is expected to begin in late summer or early fall. Background monitoring is in progress.
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from coal combustion residuals (CCRs); (2) Facility and waste management unit data; (3) Information on additional alleged damage cases; (4) Adequacy of State programs; and (5) Beneficial Use. In addition, EPA is considering a variety of possible approaches to update and enhance the risk assessment and the regulatory impact analysis (RIA) supporting the development of the final rule.” It also seeks comments on numerous additional “damage cases” and “gaps in state government regulatory programs” alleged by environmental groups during the previous public comment period.

- **OSM CCR Rulemaking-** Work is progressing on revising the 2008 proposed rule and the environmental assessment.
- **MCR Natural Stream Design (NSD) Workshop:** Working on making a webinar on the event available on the Web.
- **MCR AML Drilling and Grouting Class:** Based on a survey of the MCR states, there are 20-21 state staff that would participate in an NTTP AML Drilling and Grouting Class taught in one of the MCR states. NTTP has scheduled the class for Indianapolis in February.
- **The 2010 Bat Forum proceedings** is not available on the MCR tech transfer CD and on the MCR website.
- **Technical Studies Project Management Conference Call** We are trying to organize a call for technical staff who administer Applied Science, mine map, and geosciences projects.

AR Report:

- During the ARTT Meeting held at Stonewall Jackson, Roanoke, WV, the following items were discussed: Lee Daniels (VA TECH): Reviewed one of the **Applied Science Projects** on active surface mines-focused on which materials needed to prevent AMD, optimal revegetation substrates, and TDS components released.-where TDS came from-Acid Based Reactions-sulfide oxidation and carbonate neutralizations reactions, background of carbonation reactions and hydrolysis of principle minerals. He is looking at 6 programmatic areas:
 - Assessment of mining impacts on ecosystems health/diversity (WVU/Zimciewicz)
 - Treatment/minimumizational constituent discharges (VT/Craynon)
 - Accurate prediction of constituent releases by overburden and refuse (VT-Daniels)
 - Overburden handling plans/fill designs to minimize release (UK/Warner)
 - Next generation designed of eco-friendly mining systems
 - Evaluating /optimization the impacts of mining/community well-being (Leads TBA + Funding+public data/no internal censorship.

This will be a five year commitment!

- As the Team reviewed **several options of having a workshop**-several topics were discussed-including in no particular order at this time: Stream Protection Rule-compliance issues workshop Post Mining Discharges-Long Term Treatment Marcellus Shale Drilling/Pillar Permits/Mineral Rights/Water Issues Water Issuance/Usage Permits Coal Issues Workshop Benchmarks Oil/Gas vs. Coal Density of Pads Groundwater Protection Monitoring Programs TDS Clean Water Act

- Tonya Mullins gave an **update on TIPS**: She gave a handout and presentation/update of what TIPS is doing for the States and Federal Gov't.
 - Remote Sensing project ongoing. Problem is limited data that is useful. CANNOT be used for enforcement. Free imagery is still available.
 - GEO Mine-National robust database. . KY, WV, VA TN-all contributing to cloud. Does have internet accessibility.
 - Equipment has been purchased and can be signed out by States or tribes on as needed basis from Eric Perry as well as two thermal cameras that can be signed out from Duane Matt. Bill Ehler also has a couple of gas meters available to be signed out.

NTTP Report

- **NTTP 2012 space allocation** and schedule is being finalized and will be mailed to training contacts within the week.
- The initial courses are special sessions of **Coal Field Communications** – VA and **Effective Writing** - Navajo Nation; as they are less ‘coordinator’ staff intensive. The **AML Design Workshop: Subsidence** 10/24-27/2011 is the first class rescheduled from September 2011.
- The new **Mine Gas Workshop** will be conducting a dry run November 14-15, 2011.
- The **NTTP welcomed Karen Smalls** to the staff last month as a course coordinator. We are currently working on filling two other course coordinator positions. This will complete the filling of those vacancies left by retirements and promotions.
- NTTP participated in the **Appalachian Regional Technology Transfer Team** meeting the week of September 20-22 in Roanoke, WV and provided an update on the NTTP activities for FY11. Several Applied Science Project reports were presented during the meeting.
- An **Impoundments Course** discussion meeting is scheduled for December 6-7 in Charleston, WV.

HEADQUARTERS Report

No Headquarters representative.

TIPS Report

No TIPS representative

IMCC Report

- IMCC continues work on its next **benchmarking workshop on mine mapping**. A survey has been sent to all potential state and federal agency attendees regarding the format and agenda items for the workshop. Responses are due to IMCC by October 15, after which the Steering Committee will decide about the specific direction and presentations for the workshop.
- IMCC’s **Mid-Year meeting** is scheduled for October 18 and 19 in Point Clear, AL, at which several topics will be discussed including the recent deficit reduction proposals on AML, the FY 2012 budget, and technical issues regarding water quality, stream protection and geomine.

WEIB Report

- WIEB continues coordination with IMCC on multiple oversight policy and funding issues

NAAML P Report

- 2011 NAAML P **Annual Conference**. October 9-12, 2011. Olympic Valley, California (Squaw Valley/Tahoe area). “The Gold and Silver States – the Legacy of Mining that Built the West.” Conference will be jointly hosted by California and Nevada AML programs. Conference tours will include AML sites in both California and Nevada. Call for papers has closed and conference planning is progressing. For information: http://naamlp.net/2011_conference/main.htm

Exhibit Schedule

The following is the current OSM exhibits planned for the calendar year 2010.

- TAMU Surface Mining & Reclamation Workshop, College Station, TX October 6-7, 2011 by MCR
- NAAML P Annual Meeting Olympic Valley, CA October 9-12, 2011 by WR
- ISMR Jasper, IN December, 2011 by MCR

Next conference call will take place **at 1 PM Central Time, December 8, 2011.**

NATIONAL TECHNOLOGY TRANSFER TEAM
MEETING SUMMARY

December 8, 2011

1:00 – 2:00 PM Central Time

Participants

AR – Arielle Avishai, Jeff Trump, **David Lane, Ken Eltschlager**

HDQ – Steve Sheffield, Josh Rockwell, Li Tai Balboa

MCR – **Kimery Vories** (Team Leader)

WR – **Duane Matt**

TIPS – **Lou Hamm**

NTTP – Sarah Donnelly, Tom Hines

IMCC – **Greg Conrad**

WEIB – Dave Berry

NAAMLPL – John Koerth

Attendees in **Bold**

WR Report

- The **Colorado Mining Association** is hosting the Northwestern Mining Conference March 19-22, 2012. OSMRE plans on having booth at this event. We appreciate any assistance that can be provided by any of the OSMRE regions (equipment/banners and personnel). Henry Austin is in charge of booth operations.
- We need to figure out a way to finalize our dealings with a **non-respondent applied science awardee**. Ken Eltschlager stated he would try and contact this person. Duane Matt will do the same.
- **In-Situ processing team** briefing: “The technique of in-situ coal mining, also called in-situ coal gasification and/or underground coal gasification, has potential application in areas where conventional mining methods are not applicable. Much of the world’s coal reserves are deemed “unrecoverable” due to coal seams being too deep, too much overburden, the depth of the resource, the type of overburden, transportation costs, and other reasons. Rick Fredrickson, Alaska DNR Mining Section Chief, raised the in-situ coal gasification issue in response to permitted coal exploration drilling activity on Native-owned land during the summer of 2010. He drafted a letter to the WR Regional Director asking OSM to take a leadership role in reviewing the regulatory and environmental aspects of in-situ coal mining through establishment of a working group of OSM and Western state personnel to review and analyze the existing technology in relation to the regulations. He requested that the working group provide guidance with the processing of in-situ exploration and mining applications, and requested that OSM assistance be provided to those states that have active underground coal gasification projects.” (excerpt from director’s briefing paper). A forum took place on October 20-21, 2011 to education all the team members on the aspects of in-situ coal mining (LINC energy and Lawrence Livermore National Laboratories were the presenters). Guidelines are now being developed to address groundwater contamination from in-situ coal mining.
- **In-situ movie** sent to Ken Eltschlager and Kim Vories (now posted on our in-situ processing workgroup SharePoint site and available to whomever wants to see it).

MCR Report

- **Ohio State University CCB Research** – OSU is working on securing the permit for the high-volume FGD gypsum demo project near Conesville power plant of AEP. Placement of FGD gypsum is expected to begin in late summer or early fall. Background monitoring is in progress.
- **EPA CCR Rulemaking** – EPA published its proposed rule on June 21, 2010 on regulating CCR landfills and impoundments. OSM was officially given the lead on mine placement. EPA has defined mine filling as pertaining only to coal mining. EPA comment period ended November 19, 2010. EPA has published a copy of its forthcoming Notice of Data Availability (NODA). The document can be accessed here: <http://www.epa.gov/epawaste/nonhaz/industrial/special/fossil/ccr-rule/noda.pdf>. The NODA contains “information (that) is generally categorized as: (1) Chemical constituent data from coal combustion residuals (CCRs); (2) Facility and waste management unit data; (3) Information on additional alleged damage cases; (4) Adequacy of State programs; and (5) Beneficial Use. In addition, EPA is considering a variety of possible approaches to update and enhance the risk assessment and the regulatory impact analysis (RIA) supporting the development of the final rule.” It also seeks comments on numerous additional “damage cases” and “gaps in state government regulatory programs” alleged by environmental groups during the previous public comment period. The NODA comment period ended November 14, 2011.
- **OSM CCR Rulemaking-** Work is progressing on revising the proposed rule and the environmental assessment. A proposed rule is scheduled for May of 2012.
- **MCR Natural Stream Design (NSD) Workshop:** A video of the workshop has been completed and placed on the MCR Technology Transfer CD/DVD.
- **MCR AML Drilling and Grouting Class:** Based on a survey of the MCR states, there are 20-21 state staff that would participate in this class if taught in the region. NTTP has scheduled the class for Indianapolis in February 7-10, 2012.
- **Technical Studies Project Management Conference Call** Will be rescheduled in early 2012.
- **ASMR Annual meeting June 9-14, 2012 in Tupelo, MS** The MCR is assisting ASMR with this event. It will sponsor technical sessions on Acid Mine Drainage Mitigation Case Studies in the Illinois Coal Basin and Natural Stream Design for the Midwest. Apx 100 papers have been submitted for this meeting.
- **NAAML P Annual Meeting 2012 in Des Moines, IA** The MCR is assisting NAAML P with this event.

AR Report:

- AR continues to work on updates of the **Applied Science web site** as quarterly and final reports arrive. Maintenance of the site is significantly aided by customer comments and reviews by in house personnel that help keep information current.
- A **Blasting Workshop** is being planned for September 5-6, 2012 at the MSHA Academy in Beckley, WV. The workshop will focus on open discussions on how to better apply the science of blasting, critique and approve blast plans, evaluate compliance with the performance standards, keep records, certify blasters and take and defend enforcement actions. All regions are encouraged to participate. Most of the states should be able to stay at the academy free of charge through the MSHA/states cooperative agreement.

NTTP Report

- **Sarah Donnelly announced her retirement** from government service. Her last day will be December 22, 2011.
- A session of the **Instructor Training Course (ITC)** was held October 30 – November 3 at the National Conference Center in Virginia with seventeen participants from both NTTP and TIPS programs.
- The new **Mine Gas Workshop** team conducted a dry run November 14-15, 2011 in Pittsburgh, PA. The workshop was well received and the participants provided valuable feedback and recommendations.
- A special session of the **Coal Field Communications** course was held November 15-17, 2011 in Lebanon, VA.
- An initial scoping meeting regarding an **Impoundments Course** was held in Charleston, WV on December 6 & 7, 2011. The meeting was to outline ideas for a potential course regarding impoundment inspection and to develop a questionnaire that will be distributed to program heads to assess course interest and audience.
- A session of the **Bonding Workshop: Administrative and Legal** is scheduled for December 13-15, 2011 in Denver, CO.
- 87 requests were received for the **Rosgen Applied Fluvial Geomorphology** class that will be held February 20-24 in Charleston, WV. The space allocation for this class will be distributed later this week. 34 offices requested spaces and most of them received one space.

HEADQUARTERS Report

- OSM is registered as an exhibitor for **MINExpo International 2012** September 24-26, 2012 Las Vegas, Nevada. HDQ and WR are coordinating this with NMA.
- Currently we don't have funding for **UGMM**, but Josh is developing a solicitation in case we get funding. OSM's budget office has asked for a comprehensive status report for all projects since the program's inception. Josh is putting that together.
- Greg probably reported on the **UGMM Benchmarking Workshop** prep, which Josh is also working on.

TIPS Report

- The **new equipment** for some state and OSM offices has been received and is going through the property tracking process.
- OSM through TIPS partnered with the USGS on **using unmanned drones** in a proof of concept exercise on a WV mine site. A Raven Unmanned Aerial Vehicle (UAV) was flown to collect color video for the purpose of inspecting drainage ditches along the permit boundary. This area is very dangerous and time consuming for an inspector to walk. The second part of the mission was to use the Raven's thermal camera to look at a known mine fire at the same location. The results of this pilot provide promising opportunities to use this technology to support SMCRA activities. Based on the positive results of the WV pilot, OSM plans to continue working with the USGS on other project sites in FY 2012. Part of this effort will be to test the Raven's

ability to map coal seam fires in Colorado accurately and consistently as well as additional sites in the Appalachian Region. Comparisons will be made on using the Raven with traditional inspections and inventories accomplished via helicopter. OSM hopes to measure and demonstrate efficiencies obtained by utilizing the UAV platform to support SMRCA activities.

- TIPS worked with NGA's **Rapid Response Ortho (RRO) Program** to acquire orthorectified imagery for all three regions over priority areas at no cost. OSM has requested approximately 75 high-resolution satellite images worth a total of \$427,500. This is imagery that has already been collected in the past decade. The imagery requested represents most areas of active mining in the United States with the Appalachian Region being the only region that does not have complete coverage.

IMCC Report

- IMCC continues work on its next **benchmarking workshop on mine mapping**. It is tentatively scheduled for Feb. 15 and 16, 2012 in Pittsburgh at the Sheraton Station Square. There will be a tour in the PM of the 16th at the University of Pittsburgh's map archiving facility. The agenda is complete and all the presenters lined up and it looks to be a really good workshop.

WEIB Report

- WIEB continues coordination with IMCC on multiple oversight policy and funding issues

NAAMLPL Report

No NAAMLPL representative

Exhibit Schedule

The following is the current OSM exhibits planned for the calendar year 2012.

- Colorado Mining Association Meeting in Denver in March by WR
- ASMR Tupelo, MS June 9-14, 2012 MCR (National Coordination)
- NAAMLPL Annual Meeting Des Moines, IA October, 2011 MCR (National Coordination)
- MINExpo International **2012** September 24-26, **2012** Las Vegas, Nevada WR & HDQ
- NASLR Annual Meeting, September 2012 by ??
- TX Surface Mining & Reclamation Workshop, College Station, TX October, 2012 by MCR
- TMRA Annual Meeting, TX, October 2012, by MCR
- ISMR Jasper, IN December, 2012 by MCR

Next conference call will take place at 1 PM Central Time, January 18, 2011.