

Dear Friends & Associates,

This year marks the 25th anniversary of the Indiana Society of Mining and Reclamation's Annual Technology Transfer Seminar. Please accept my invitation to join us in celebrating this milestone. This year's seminar will be held at the Jasper Inn & Convention Center in Jasper, Indiana. We have a variety of topics and excellent speakers on the latest trends and technologies in reclamation and mining. There will again be three concurrent workshops and a Monday evening poster session. The "Mine Wastewater Treatment & Regulation" Workshop is approved for 5 technical hours of continuing education toward renewal of Indiana Wastewater licenses, and the "Online GIS Tools and Resources for Indiana" Workshop is approved for 5 hours of continuing education toward renewal of Indiana Wastewater licenses. The "Blaster Retraining" Workshop is approved for 5 hours of continuing education toward IN Blaster Certification renewal and IN Dept. of Homeland Security Regulated Explosives Use-Blaster License. Certificates will be provided for workshops that may be used as professional development hours for consideration of meeting requirements for licensed Indiana Professional Engineers. It is my sincere hope that you can join us for both days of this special seminar.

Sincerely,

Ron McAhron

Chairman

ISMR Executive Membership

The Executive Committee of ISMR is comprised of members appointed by the Director of the IN Department of Natural Resources. Chairperson is the Director of the Bureau of Regulatory Team Management. Members of the Executive Committee are:

Mr. Ron McAhron, ISMR Chairman and Deputy Director, Indiana
Department of Natural Resources, Ex-Officio Member

Mr. Joe Craig, Practical Resource Management, Inc.

Ms. Rose McDaniel, Indiana Department of Environmental Management

Mr. John Endress, Natural Resource Professionals

Mr. Andy Gilmore, Office of Surface Mining

Mr. Ray Judy, Foertsch Construction Company

Mr. Rich Montgomery, United Minerals, Inc.

Ms. Michalene Reilly, Hoosier Energy

Mr. Marvin Ellis, Division of Reclamation

Dr. Nelson Shaffer, Indiana Geological Survey

Dr. Terry West, Purdue University

Mr. Bryce West, Peabody Energy

Mr. Brandon Seitz, Indiana Office of Energy and Defense Development

Dr. John Steinmetz, Indiana Geological Survey (Additional Contact)

CONGRATULATIONS

2010 Winner Indiana Excellence in Mining & Reclamation Award
Peabody Energy Corporation's Farmersburg Mine, Busseron Creek Restoration Project

and

*2010 Winner Vance "Pat" Wiram Award for Innovation in Reclamation & Mining
Technology*

Mr. Forrest L. Crowe, Peabody Energy Corporation

Call For Nominations – 2011

Please consider providing an Innovation Award nomination

Vance “Pat” Wiram Award For Innovation in Reclamation and Mining Technology

ISMR is seeking nominations for individuals who have made significant contributions to the development or implementation of new technologies or concepts in mining and reclamation. We urge you to nominate an individual you feel has gone the extra step in applying new and innovative ideas toward the enhancement of surface mining and reclamation.

Criteria and Eligibility: Individuals having a direct or indirect involvement in surface mining and/or reclamation who deserve recognition for innovative ideas applied to this broad area of interest are eligible. Recipients may be individuals in regulatory agencies, educators, environmentalists, journalists, politicians, mine operators, mining engineers, geologists, or administrative personnel. Nominees for this award must have been active in some area of mining and/or reclamation at the time of their nominations.

Nomination Procedures: All nominations should follow the prescribed format. Identify nominee--Include name, mailing address, and phone number. Identify nominator--Include name, mailing address, and phone number. Clearly identify and evaluate the contributions made by the nominee. List (1) Education--academia field, date, and institution for each degree held; (2) Career--dates, organizations, and locations of all professional positions beginning with current position and ending with the first position; (3) Professional Services--membership in professional societies, service on professional committees, and indicating leadership where appropriate; (4) Past Honors and Awards--any that are appropriate; (5) Justification--identify the primary contributions on which the nomination is based, emphasizing the innovative ideas of concepts for which the nominee is to be evaluated; and (6) Supporting Documentation--three letters of support, as well as any other form of documentation. Letters should be solicited and addressed to the nominator.

Nominations Due: Deadline to receive nominations is November 8, 2011.

Submissions: Two copies of the completed nomination and any supporting documentation should be sent to: ISMR Chairman, 14619 West State Road 48, Jasonville, IN 47438.

Remember the deadline is November 8, 2011.

Excellence in Mining & Reclamation Award

Please consider providing an EMRA nomination

Nominations are being accepted once again for the Excellence in Mining and Reclamation Award (EMRA). This is the Division of Reclamation's highest award for outstanding achievement in the field of surface coal mining and reclamation. Former recipients of the Indiana EMRA have received national recognition as a result of participation in awards programs administered by the Office of Surface Mining and the Interstate Mining Compact Commission. We are very proud of the mining and reclamation operations here in Indiana and the EMRA program is one way for us to recognize your efforts and to reveal your successes to the rest of the state and the nation.

Who is Eligible for the EMRA?

All surface and underground coal mining operations which have operated under an Indiana permit issued according to IC 14-34 are eligible to be considered for the EMRA. The operator's exemplary performance may be achieved during mining activity, reclamation, or throughout the entire process.

How to Nominate a Coal Mining Operation: Nominations may be submitted by coal companies, mine operators, inspectors, consultants, coal associations, public interest groups, or land owners. Nominations must be received by the Division on or before **Monday, November 1, 2011**, and should be mailed or delivered in person to the following address: **Division of Reclamation, Attn: Brad Loveless, EMRA Selection Committee, 14619 W. State Road 48, Jasonville, IN 47438.**

What a Nomination Should Include: Cover sheet containing:

1. Company name.
2. Name & location of nominated mining operation (include driving directions).
3. Permit number(s) of site being nominated.
4. Name, address, phone number, and e-mail of person submitting nomination (and/or company contact person).
5. Names and title of all individuals directly responsible for on-the-ground reclamation at the nominated site.

Narrative: A description of the specific reclamation or environmental control techniques that resulted in exemplary performance under the Surface Mining Law. The narrative should be comprehensive, but not exceed six single-spaced typewritten pages and should describe the mining operation and the specific activity nominated for an award using the following outline:

1. Brief history/background of the mining and reclamation.
2. Description of nominated activity or reclamation practice, including specific problems, solutions, and unusual circumstances.
3. On-site effectiveness of the work. This should be documented and quantified with data. For example, successful handling of acid materials could be shown with water quality sampling data.
4. Transferability or value of the accomplishment(s) to other mining and reclamation operations.
5. Long-term benefits to the landowner and local or regional community.

Color photographs (not slides): The photos should show both the specific activity & surrounding reclamation. When examined with the narrative description, the photographs should provide a clear understanding of the exemplary accomplishments. Photographs should be 8"x10" or smaller and labeled to explain what the photo shows. "Before and after" photos are desirable but not required. There is no limit to the number of photographs that may be submitted.

Format: Each nomination package must contain the required information (described above) in a three-ring, loose-leaf binder, plus six high-quality stapled machine copies (e.g. Xerox) for use by the judges. Additional supporting information may be submitted with the nomination; however, it must be separate from the information described above.

Nominations submitted by persons not directly associated with the coal company may not necessarily contain all the above-requested information simply because it may not be available. For nominations of this type, the EMRA Selection Committee will contact the coal company for assistance in preparing the formal nomination packet.

How the EMRA will be selected: All nominations will be screened by the EMRA Selection Committee & an on-site visit will be made to each nominated site to assure the following:

1. Information contained in the nomination package accurately reflects current site conditions.
2. On-the-ground performance conforms with the permit.
3. Other mining and reclamation activities at the site do not detract from the award-winning activity.

Each nominee's compliance record will be examined to assure that there are no outstanding violations and to determine that there is no past record of poor cooperation in abating violations. The EMRA Selection Committee will conduct a technical evaluation of each nomination and assess a ranking for each nomination based upon the following criteria:

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| Clarity and completeness of nominations package | 5 |
| Difficulty in achieving reclamation under existing conditions | 20 |
| On-site effectiveness | 30 |
| Transferability of the technique or practice | 12 |
| Increased public awareness of the Surface Mining Law | 8 |
| Long term benefits to the community | 15 |
| Exceeds the spirit and intent of the Surface Mining Law | 10 |

Remember the deadline is **November 1, 2011**.

MINE WASTEWATER TREATMENT & REGULATION WORKSHOP

Monday, December 5, 2011 12:00 – 5:00 pm (APPROVED--5 technical hours of continuing education for wastewater license renewal)

This workshop will cover regulatory requirements for disturbed area drainage control, sediment basin benefits, sediment basin design calculations, water diversion design calculation, discharge structure design calculation, water treatment issues including neutralization of acidic wastewater and removal of metals thereof, oil-water separation, pumps and maintenance, and wastewater analysis. The Class A-SO Study Guide, available through the Indiana Dept. of Environmental Management, will be discussed and utilized as a resource for this workshop. The workshop is an effort to assist participants in preparation of taking the Class A-SO examination and provides information concerning technical items that the wastewater operator must be able to understand and perform to carry out required duties.

**** INTRODUCTION AND COURSE GOALS:** course goals, class outlines/references; applicable 312 IAC 25 SMCRA regulations; 327 IAC 25-7 NPDES regulations; engineering references; class A-SO study guide.

**** REGULATORY REQUIREMENTS FOR DISTURBED AREA DRAINAGE:** SMCRA, NPDES.

Bruce Stevens, Director, IN DNR, Division of Reclamation.

****SEDIMENT BASIN DESIGN:** design storm events and requirements, calculating design storm runoff, sediment volume methods and calculations, required basin volume calculations, required basin volume calculations, short circuiting, detention time, and sediment basins in series.

****DISCHARGE STRUCTURES/SPILLWAYS:** design storm events & requirements; principal, emergency, combination spillways; and calculations for proper sizing, channel protection techniques.

****DIVERSION DITCH DESIGN:** design storm events & requirements; calculation for proper sizing; energy dissipaters, and culverts design calculations.

Brandon Wilson, Mine Engineer, IN DNR, Division of Reclamation.

****CLASS A-SO STUDY GUIDE REVIEW:** definitions associated with A-SO related structures; types, benefits, and issues related to sediment basins; neutralization of acidic wastewater; and oil-water separation, pumps & maintenance.

Bruce Stevens, Director, IN DNR, Division of Reclamation.

**** CLASS A-SO STUDY GUIDE REVIEW:** wastewater analysis.

Jayne Peltier, Chemist, IN DNR, Division of Reclamation.

**** CLASS A-SO STUDY GUIDE REVIEW:** formulation sheet for the class A-SO review.

Brandon Wilson, Mine Engineer, and **Jayne Peltier**, Chemist, IN DNR, Division of Reclamation.

ONLINE GIS TOOLS AND RESOURCES FOR INDIANA

Monday, December 5, 2011 12:00 – 5:00 pm

(APPROVED--5 general hours of continuing education for wastewater license renewal)

****IGIC OVERVIEW AND GIS COORDINATION FOR INDIANA:**

Phillip Worrall, Executive Director, Indiana Geographic Information Council (IGIC)

****INTRODUCTION TO THE INDIANA GEOGRAPHIC INFORMATION OFFICE AND STATEWIDE GIS INITIATIVES:**

James Sparks, Geographic Information Officer, Office of Technology, State of Indiana

Topics will include the role of the Indiana Geographic Information Council (IGIC); the state role in GIS data collection and accuracy improvements; the new statewide orthophotography and LIDAR for Indiana; the IndianaMap data sharing initiative program; and the Indiana spatial data portal.

****EXPLORING THE NEW INDIANAMAP, RELEASE 3—HOW TO USE THE APPLICATION AND ACCESS THE DATA**

Richard Hill, Assistant Director for Technical Services, Indiana Geological Survey

A discussion of the newly released IndianaMap version 3 including the data downloads and metadata.

****EXPLORING THE PAST THROUGH HISTORICAL AERIAL PHOTOS—USING IHAPI:**

Chris Dintaman, GIS Specialist, Indiana Geological Survey

A look at the Indiana Historical Aerial Photo Index (IHAPI).

****INDIANA COAL MINE INFORMATION SYSTEM: MAP RESOURCES AND SERVICES**

Licia Weber, CMIS Director, Indiana Geological Survey

Becky Meyer, CMIS GIS Specialist, Indiana Geological Survey

Topics will include coal mine data, mine maps, and historical publications available through the Indiana Coal Mine Information System (CMIS); and accessing Indiana GIS data services using ESRI's ArcGIS Online.

**NOTE: If you have a hand-held GPS unit, please
bring it with you for use at this workshop.**

Agenda

Tuesday, Dec. 6, 2011 (Eastern Time)

Jasper Inn & Convention Center, Jasper, IN

- 7:45 – 8:30 am Registration
- 8:30 – 8:45 am **Welcome:** Ron McAhron, ISMR Chairman and Deputy Director, Indiana Department of Natural Resources
- 8:45 – 9:00 am **Office of Surface Mining and Reclamation Update:** *Provides updates on OSM activities in the past year at both national and regional levels, including rulemaking activities, oversight initiatives, budget issues, and technical assistance & technology transfer.* Erv Barchenger, Office of Surface Mining, Mid-Continent Region Director, Alton, IL.
- 9:00 – 9:15 am **Always Something New from the Indiana Geological Survey:** *An update of the latest happenings at the Indiana Geological Survey.* Dr. John Steinmetz, Indiana State Geologist, Indiana Geological Survey.
- 9:15 – 9:45 am **U.S. Army Corps of Engineers Stream and Wetland Mitigation Checklist of Coal Mine Proposals:** *Currently several companies mine coal in our region and the mitigation information can be submitted in several formats or may be missing. By formulating these mitigation checklists for proposed impacts to “waters of the U.S.” involving coal mine applications, we endeavor to have more consistency, predictability, certainty gained, and improved timing of decisions.* Michael Ricketts, Chief-West Section, U.S. Army Corps of Engineers.
- 9:45 – 10:15 am **Drilling Sideways in Coal Seams for CBM and UCB:** *Outlines the latest drilling technology used to drill laterals in coal and discusses emerging navigation technology designed specifically for lateral wellbore placement.* Jonathan Lightfoot, Director of Global Sales, Scientific Drilling International.
- 10:15 – 10:30 am BREAK and Door Prize Drawings
- 10:30 – 11:00 am **Mine Wine—Growing Grapes and Other Unique Agriculture on Reclaimed Mined Lands:** *Growing grapes on a 25 acre plot of reclaimed mine land in the mountains of southwest Virginia, microclimates needed, appropriate varieties, etc.* David Lawson, Vineyard manager and winemaker, Mountain Rose Vineyards, Wise, VA.
- 11:00 – 11:30 am **Direct Vegetation and Innovative Techniques for Mine Land Reclamation:** *Introduction of specific microbes to slurry cells for the conversion of coal slurry to viable and productive soil to sustain substrate or growing media, and the potential for use as a bioremediation product.* David Bartok, Owner, Lakeland Corporation
- 11:30 – 11:45 am **Recap of 25 years of the Indiana Society of Mining and Reclamation:** *Established in 1986 with a chief purpose of coordinating and fostering research and to facilitate the advancement of mining and reclamation in Indiana, the CMRTF evolved to ISMR with technology transfer as its purpose, and remains so today. A look back at ISMR’s 25 years.* Joe Craig, ISMR executive board member and owner, Practical Resource Management.
- 11:45 am – 1:15 pm **AWARDS LUNCHEON**
- 1:15 – 2:00 pm **Coal Outlook:** *Enormous changes are occurring with respect to the supply and demand for U.S. Coal. This presentation reviews the “good, bad, and ugly” aspects of the outlook.* Emily Medine, Energy Ventures Analysis, principal.
- 2:00 – 2:30 pm **Miners of the Future—Vincennes University Simulators and Training Program:** *An indepth view of what the Vincennes University Heavy Equipment/Mine Training Program is all about, and the funding by the Community Based Job Training Grant from the Department of Labor#CB-20573-10-60-A-18.* Wendy Coles, Heavy Equipment Instructor, Miners Training Program, Vincennes University
- 2:30 – 2:45 pm BREAK and Door Prize Drawings
- 2:45 – 3:15 pm **Biological Response to Restoration in West Fork Busseron Creek, Farmersburg, IN:** *Restoration and mitigation of the West Fork Busseron Creek based on design features of the Rosgen technique, post-mine results of benthic macroinvertebrate, and fish surveys.* David Beeson, Environ International Corporation
- 3:15 – 3:45 pm **Stream Protection Rulemaking:** *OSM’s progress toward development of new stream protection regulations & its supporting EIS that place greater emphasis on stream protection & restoration through a more comprehensive regulatory approach which combines factors of hydrology, natural stream geomorphology, engineering, and biology.* Paul Ehret, Chief-Technical Services Branch, Office of Surface Mining Mid-Continent Region Office
- 3:45 – 4:15 pm **Coal Seam Protection and Fracking:** *Review of the changes made to the Oil & Gas Act brought about by Senate Bill 71 enacted in 2011 by the Indiana General Assembly. The emphasis will be upon those changes which directly affect the protection of commercially minable coal resources.* Herschel McDivitt, Director, Division of Oil & Gas, IN DNR
- 4:15 – 4:30 pm **Closing** and Grand Prize Drawing

CALL FOR POSTERS

The board would like to invite you to participate in the Monday evening poster session/reception. If you have a technical display that pertains to mining and reclamation and would like to present a display, please contact Dr. Nelson Shaffer, Indiana Geological Survey, at 812-855-2687, to reserve a display area.

Overnight Accommodations

Hotel rooms are available at the Jasper Inn & Convention Center at the special negotiated overnight room rate of \$72.95 for ISMR seminar attendees. For reservations at this rate, call 800-872-3176 or 812-482-5555 and identify yourself as an ISMR attendee. [Deadline for this special negotiated overnight rate is November 29, 2011.](#)

Questions—Contact Colleen Baughman at 812-665-2207 or cbaughman@dnr.IN.gov



The Indiana Society of Mining and Reclamation is proud to announce that they are working in partnership with the Indiana Natural Resources Foundation as their financial fiduciary. Since its founding in 1990, the Indiana Natural Resources Foundation has worked with the people of Indiana, the Indiana Department of Natural Resources, advocacy groups, volunteer organizations, and land trusts across the state.