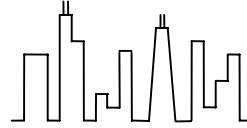


CHICAGO SECTION NEWSLETTER

April 2005



Newsletter of the Chicago Section of the Society for Mining, Metallurgy, and Exploration, Inc. - Founded Spring 1987 – www.chicagosme.org

MEETING: Tuesday, April 26, 2005

Topic: "HARD ROCK CUTTING WITH ROADHEADERS;
STATE OF THE ART ROADHEADER TECHNOLOGY "

Guest Speaker: Bruno Reumueller,
VOEST-ALPINE Mining Equipment

Time: 5:15 PM Social Hour
6:00 PM Dinner *Please - We need advance reservations.*

Place: Ramada Inn at Burr Ridge, IL 300 South Frontage Road,
Burr Ridge, IL. 630-325-2900

Directions: From I-55: Exit # 276A - County Line Road South, go to the first traffic light
Turn Right, then the road turns an immediate right; follow the road
around until you are parallel to the freeway, past the Extended Stay America.
The Ramada will be another 150 yards ahead on the left.
From I-294: Exit on I-55 Westbound. County Line Road will be the next exit
From I-88 & I-355: Exit to I-355 southbound, go to end of freeway at I-55
Head east toward Chicago: County Line Road is just east of Kingery
Highway (IL # 83)

Menu: Service will be restaurant style, with your choice of two entrées:
Roast Sirloin of Beef, sliced prime sirloin, au jus or
Chicken Marsala, Breast of chicken sautéed with sweet marsala wine, fresh sliced
mushrooms, beef stock and herbs
Dinner will include an appetizer, salad, vegetable, potato or rice and dessert.
A vegetarian plate is available on request.

Cost: \$25 for dinner/meeting for Members, \$30 for Non-Members. Science teachers or professors
are considered guests of the Section and will get dinner free. Student's dinners are only \$5.
If you are coming RSVP; **PLEASE**. Call or e-mail either
Gordie Stevens of Civil & Environmental Consultants at 630-963-6026 gstevens@cecinc.com
Rick Ackermann of Patrick Engineering at 630-795-7246 rackermann@patrickengineering.com
And give us your dinner selection (see above) we can do some late reservations, but...

From the Chairman:

The mining world is continually changing. As the old-timers know, it experiences significant cyclical changes: changes on a world-wide scale, and changes localized and known to only a few. We can see some of the changes today in the world as China and India continue to grow economically, sucking up many of the world's natural resources once shared by only a few well-developed nations. The increased demand is changing the world economy and the mining world even as we speak. Petroleum prices are making oil shale attractive, Illinois coal is beginning to come back into its own as scrubbing technologies improve. Locally, within our own section there are changes happening. Chicago area aggregate producers are increasingly looking toward underground operations as old operations play out and northeastern Illinois development continues to expand. There are few places other than our own Chicago Section of SME, where you can come to keep up with the changes. This is our goal, to keep you abreast of the changes and prepare you for the future. I encourage you to participate.



Gordie

From the Program Chairman

At This Meeting:

"HARD ROCK CUTTING WITH ROADHEADERS - State of the Art Roadheader Technology "

A Brief Synopsis: Roadheaders were introduced to the mining and construction industry in the early 1960s. The main field of application is tunneling in softer and partly friable rock conditions and production of softer minerals like coal and other industrial minerals. A further extension of this field of application is faced with two main restrictions.

- Sharply rising excavation cost with increasing rock strength and abrasivity.
- The risk of failure in an application or in certain conditions, which were not or could not be investigated to a sufficient extent.

As a consequence standard Roadheaders may unexpectedly exceed the limits of the intended application and is therefore sometimes not an attracting choice.

The first part of the technical presentation briefly describes the history of Roadheaders, and illustrates the steps taken to expand the traditional field of Roadheader application. The second part will cover geotechnical investigation on parameters influencing productivity. The third and main part will focus on ATM105 operational results with detail figures from applications in Limestone, Sandstone etc....

There will be opportunity for questions from the audience for Bruno after the talk.

The Speakers

Bruno Reumueller is a native of Austria, and was educated there, finishing the college in Graz/Austria for Mechanical Engineering in 1982. He started at VOEST ALPINE in the Service Department that same year and moved to Sales and Marketing in 1992. For the last 23 years Herr Reumueller has been involved worldwide in the front line for underground mining and construction projects that have involved mechanical excavation. In 1995 & 1996, he was part of the management team when VOEST-ALPINE first established their US subsidiary. Currently

he is working for VOEST-ALPINE in Austria, where he is the manager responsible for Roadheader Sales and Marketing for North America. Voest-Alpine Bergtechnik of Austria is currently part of Sandvik Mining and Construction of Sweden, which also includes Tamrock and Toro equipment, and Mission drilling products.

The Last Meeting

Bill Huber and **Hersh Hayden** of **Weir International Mining Consultants** gave a talk on New Miner Training and the availability of skilled miners. They presented some interesting statistics on the aging of our US workforce, in particular in the mining sector, compared to the number of new jobs expected in the working place over the next few years. The percentage of older workers (those over 45 years of age) is an increasing percentage of our workforce, with the percentage of younger workers staying flat. They also pointed out that while older workers get hurt less often, when they do get hurt the injuries are more severe. They are statistically off work for over 3 times as long as the under 25 workers for each incident. And the ones getting hurt more often are supervisors. The number of open jobs in our workforce is projected to increase from 4 million to 10 million over the next 5 years.

They also discussed the content of the NSSGA supervisor training courses. The content is based on what the aggregate industry has stated are their biggest needs, which covers such topics as effective communication, loss control, the real cost of accidents, safety analysis of jobs and leadership skills.

By the Editor

Upcoming Speakers for Spring:

In May – To Build Excellence at a Indiana Limestone Quarry by Y.J. Zheng, Chief Engineer of Indiana Limestone

If you would like to present a talk or have a subject matter that you are interested in hearing presented at a meeting, please give Frank **Kendorski**, of Agapito Associates who is our Program Chair. He can be reached at:

e-mail: frank@agapito.com
phone: 630-792-1520

UPCOMING MEETINGS & EVENTS

For your schedules

Illinois Association of Aggregate Producers

ANNUAL

Springfield, IL

Cost is \$125 + hotel

For information call the association office at
217-241-1639

or go to the web site and e-mail the IAAP

The format and time schedule will be similar to last year's meeting.

IAAP Web Site:

<http://www.iaap-aggregates.org/default.asp>

TRAINING COURSES

26th Annual Fundamentals of Grouting Course

Colorado School of Mines
Golden, CO
May 2-6, 2005

Contact: **Dr. Scott Kieffer**

http://www.mines.edu/academic/mining/faculty/Kieffer/Skieffer_Homepage.htm

or for better info

http://www.mines.edu/outreach/cont_ed/grouting/grouting1.html

Course is 5 days, charges \$1,850 since it is now late registration.

National Stone, Sand & Gravel Association Training Courses

If you click on the NSSGA link below, it will take you to the homepage, and the links to the events are on the left side. The links are very user-friendly and give you the information you need to pick your opportunities and then register.

 NSSGA Advanced Supervisory
 Training Course
 May 2-4
 Pittsburgh
 Contact: Steve Lenker
 Phone: (800) 342-1415
 E-mail: slenker@nssga.org
 Web: www.nssga.org

NSSGA Advanced Sales Course
 May 15-18
 San Antonio
 Contact: Tim Reagan
 Phone: (800) 342-1415
 E-mail: treagan@nssga.org
 Web: www.nssga.org

 NSSGA Dredging Seminar and
 Expo
 June 5-7
 New Orleans
 Contact: Steve Lenker
 Phone: (800) 342-1415
 E-mail: slenker@nssga.org
 Web: www.nssga.org

ILLINOIS STATE NEWS

*News From the Illinois State Geological
 Survey – (The ISGS)*

NEW AERIAL IMAGERY SOURCE

This has been the 'buzz' in GISland for a week: high resolution satellite imagery of your house and neighborhood from <http://maps.google.com/>. Keyhole is a CIA spy satellite that has been adapted to civilian use (they have lots of ways to reduce resolution for civilian use). I tried it for a couple of addresses (Urbana, Cincinnati) and got disappointing results - not Keyhole imagery, lesser resolution. However, I tried an address in St. Louis, and did get the high resolution quality result similar to shown below. Not all satellite imagery is from Keyhole, some appears to be from other sources. I could not copy/paste imagery except by screen capture (you will see faint "Google" in background). However, you can print the imagery.

The link takes you straight into the North American map. If you click on any part of the map, the map shifts with that location as the map re-centers. If you type a city, or click on one of the states on



A suburb shot from Chris Stohr.

the map, it will center on that location. What looks like a thermometer on the left zooms in or out. The two icons in the upper right "Map" or "Satellite" will toggle the screen between map & satellite image. The speed is phenomenal (as long as you have broadband service). Once again, the link: <http://maps.google.com/>

For more information contact Chris Stohr of the ISGS at stohr@isgs.uiuc.edu
Submitted by Dr. Chris Stohr of the ISGS

Below is a screen grab a close up of Vulcan's McCook Plant. Outside of the area I grabbed was a reference to Imagery @2005 DigitalGlobe, EarthSat. Can anyone from Vulcan confirm that this is a 2005 image for me?



Vulcan's McCook plant

Additional Comments & Photo by the Editor

Mine Director Named for Illinois Office of Mines & Minerals

Joe Angleton, 58, of DuQuoin, is the new IDNR director of Mines and Minerals. Angleton has been involved in the coal industry since 1969. In his new position, he will oversee mine safety and training, abandoned mine land reclamation, and aggregate, oil, gas and explosives regulation.

Angleton began his mining career at Eagle One mine in Shawneetown. In 1977, he assumed the first of several state offices with the United Mine Workers of America. Angleton has been Compensation Counselor, Secretary-Treasurer and District 12 President for the UMWA.

The IDNR can be contacted at:
 IDNR-Office of Mines & Minerals
 424 W. Main, Suite 3
 Ottawa, IL 61350
 815/433-7050

Submitted by Linda Hiltabrand of the DNR

From The PIE & GEM Committees

New IDNR Division of Education "List Serve" – A Free Service

Educators throughout Illinois now have the opportunity to obtain instant notification about new products, scheduled workshops and many other events and items from the Illinois Department of Natural Resources (IDNR) through the IDNR Division of Education's new List Serve.

The List Serve is available to IDNR staff for posting information about educational items from the IDNR. It will not replace the "New This Month" Internet report but will be another option to help IDNR staff reach educators throughout the state. If you post an item to the List Serve group, please be sure to include your contact information. If you can promote this new tool with educators whom you work with, it would be much appreciated.

To join the list, send an email with the text "subscribe education Your Name" in the body of the message to the address

imailsrv@idnrteachkids.com. For example, you would enter "subscribe education May Apple" if your name is May Apple. You may leave the list at any time by sending an email containing the text "unsubscribe education" to the address imailsrv@idnrteachkids.com. There is no charge to participate.

If you have questions, please contact Val Keener by phone at 217-785-0973 or by e-mail at vkeener@dnrmail.state.il.us.

Submitted by Linda Hiltabrand of the DNR

MEMBER NEWS

Gordie Stevens Moves

Gordie Stevens has recently joined **Civil & Environmental Consultants, Inc.** in Downers Grove as a Principal. CEC is an engineering and consulting firm headquartered in Pittsburgh, Pennsylvania. Gordie, a Hydrogeologist and Licensed Professional Geologist in IL, IN and WI will continue to work with the mining industry as well as other engineering and environmental projects as he has done for the past 25 years. He can be reached at (630) 963-3753 or by e-mail at gstevens@cecinc.com. The CEC website can be found at: <http://www.cecinc.com/>

Practical Environmental Consultants Moves Offices

Long time Chicago Section member **Doug Hambley's** firm has relocated their offices. **Practical Environmental Consultants, Inc.** (or **PEC**) is a 20-person firm specializing in environmental work, especially leaking underground storage tank (LUST) site investigations and remediation, environmental Site Assessments, spill prevention, and emergency response supervision.

The new offices are located at:
1305 Remington Road, Suite A
Schaumburg, IL 60173

The new location is just west of Meacham, within the same mail zip code but into the 847 area code instead of the 630 area code for the old phone numbers.

New Phone No: 847-519-3430
New Fax No.: 847-519-3431.

Hambley may be reached via e-mail at dfhambley@comcast.net

New member **Neil J. Silins** is with **EMS Environmental Inc.** His company offers environmental assessments, site inspections and occupational safety and health training for environmental professionals and contractors. He can be reached at 773-561-6779 or via e-mail at neil.silins@emsenviron.com

To Contact Your US Senators & Representatives:

This information came in with e-mails relating to the Highway Bill (TEA-21) votes that just happened in Washington. However, you just might want to express your opinion are other issues relating to the industry or from personal interest. Remember that since so FEW people contact their elected representatives about each issue, every letter, e-mail or phone call on a given issue is said to represent several thousand voters.

That said, if you contact the offices

- Be brief
- State who you are
- What bill or issue you are expressing your opinion concerning
- Whether you are for or against.

Senators:

Barack Obama, D (202) 224-2854

Richard Durbin, D (202) 224-2152

For e-mail to either Senator, go to <http://www.senate.gov/> then click on either "choose a State" or "senators"

Representatives:

See the link to <http://www.house.gov/>

And look on the left for the link "Write your Representative". You will need to know your zip code –all 9 digits – but there is a link to get the extra 4 digits

by the Editor

Information for the Newsletter

If you have any announcements relating to your company, presentations, events, seminars, articles you would like to share with the other members, etc. E-mail them

if you can, otherwise get time in by fax or snail mail. Public events - like company open houses for families and students – are especially desired.

Thanks

Rick Ackermann
Chicago SME Newsletter editor
Patrick Engineering Inc.
4970 Varsity Drive
Lisle, IL 60532
Phone: 630-795-7246

ON MERCURY –

The pollutant, that is – Not a racehorse

Despite coal fired power plants' status as the largest source of U.S. airborne mercury, they account for a tiny fraction of precipitated mercury, according to EPA estimates. "Even if your only source of exposure comes from eating freshwater fish, remember only 3% of that mercury comes from U.S. power plants," said Jeffrey Holmstead, the U.S. EPA's top air-quality official. One source recalls hearing that China accounts for 48% of the airborne Hg in the US.

Pieced together by the Editor

News and Rumors From the (Chicago) Bushes

Rumor from last meeting: A Goodyear tire distributor out west has less than a dozen 992 tires left for the remaining of the YEAR that are not already under purchase order.... And one operation that runs 200 ton haul trucks is being allocated a total of 5 new tires for the rest of the year. Caterpillar in Aurora is selling everything they are making before it gets off the line. Production is apparently limited by the quantity of steel and other raw materials coming in the front door... including tires.

How long will this situation keep up? This is what a lot of people are trying to figure out. Looks like at least another year, and maybe longer, provided the Chinese development locomotive keeps going full speed ahead.

Information provided by Old No-Name Some-Hair

2004-2005 Chicago Section SME Officers

Chairman	Gordie Stevens Civil & Environmental Consultants, Inc. Downers Grove, IL 630-963-6026 Fax 630-963-6027 gstevens@cecinc.com	GEM Coordinator	Anne Leslie Raimonde Drilling, Inc. Chicago, IL 708-583-9290 Fax 708-583-9491 rdcdill@rdc-drill.com
Vice-Chairman	John Head Continental Placer, Inc. Wheaton, IL 630-407-0800 x 103 Fax 630-407-0799 jhead@continentalplacer.com	Newsletter Editor	Rick Ackermann Patrick Engineering, Inc. Lisle, IL 630-795-7246 Fax 630-434-8400 rackermann@patrickengineering.com
Secretary	John Magyar International Mining Services Belvidere, IL 815-547-9211 Fax 815-547-8552 imsjjm@aol.com	Website Coordinator	Sarah Schlichtholz Continental Placer, Inc. Wheaton, IL 630-407-0800x109 Fax 630-407-0799 sschlic@continentalplacer.com
Treasurer	Steve Tivy Boncosky Oil, Inc. Elgin, IL 847-741-2577 Fax 847-741-2590 svtivy@comcast.net	Program Chairman	Frank Kendorski Agapito Associates Lombard, IL 630-792-1520 Fax 630-792-1580 frank@agapito.com

SME Chicago Section Membership Dues Form

Note: To become a member of SME at the national level, please join at www.smenet.org or get an application from Gordie Stevens.

NAME: _____

AFFILIATION: _____

ADDRESS: _____

E-MAIL: _____ @ _____

CITY, STATE, ZIP + 4: _____

DAYTIME TEL. NUMBER: _____

SPONSOR'S NAME: _____

STUDENT _____ **RETIRED** _____

Make Check for \$20.00 (\$10.00 for Student or Retired) out to “**Chicago Section – SME**” and mail to: Steve Tivy, Treasurer, Chicago Section of SME, Boncosky Oil Inc., 739 North State Street, Elgin, IL 60123

**NEXT MEETING
Tuesday, April 26, 2005**

**“HARD ROCK CUTTING WITH ROADHEADERS -
State of the Art Roadheader Technology ”**

**Bruno Reumueller,
VOEST-ALPINE
Mining Equipment**

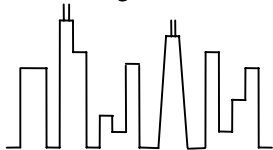
**At the
Ramada Inn at Burr Ridge:
300 South Frontage Road, Burr Ridge, IL.**

THANKS to Patrick Engineering, Inc. for Newsletter Editing, Paper, Copying, Stapling, and Grunt Work

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