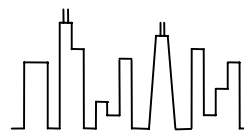


# CHICAGO SECTION NEWSLETTER

## February 2006

Newsletter of the Chicago Section of the Society for Mining, Metallurgy, and Exploration, Inc. - Founded Spring 1987 - [www.chicagosme.org](http://www.chicagosme.org)



## MEETING: Thursday, March 2, 2006

**Topic:** “USING FOAMING GROUT TO STABILIZE A VENTILATION RAISE IN VERY POOR ROCK”



**Guest Speakers:** our own **John Magyar**  
**International Mining Services**

**Time:** 5:15 PM Social Hour  
6:00 PM Dinner *Please - We need advance reservations – check the menu below.*

**Place:** **Back to our former Venue - RAMADA INN at Burr Ridge**  
**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 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:**

**Tenderloin Brochette** - Herb marinated served with bordelaise sauce

**Atlantic Half Chicken**, Herb seasoned and slowly roasted

*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](mailto:gstevens@cecinc.com) Rick Ackermann at 630-740-4863 [rackermannaz@yahoo.com](mailto:rackermannaz@yahoo.com)

### From the Chairman:

Last month I plugged the Chicagoland Engineers week as a worthy function to invest some time in. We also had a great turnout at our last Section meeting to hear our illustrious John Head lead a debate with a MSHA representative about diesel particulates. I believe that all who attended benefited. This month, let's invest some more time attending our Section meeting and supporting another one of our own, John Magyar, discussing foaming grout to stabilize poor rock; and then taking another opportunity to attend the SME Convention in St. Louis at the end of the month. These small efforts can yield large rewards and as a result all of us are better off. I appreciate all of your efforts to make our Section a better place for all. Thanks. I hope to see you soon.

- Gordie



## ***From the Program Chairman***

### **At This Meeting:**

**John Magyar, International Mining Services**

### **“Using Foaming Grout To Stabilize a Ventilation Raise In Very Poor Rock ”**

#### **A Brief Synopsis:**

Special foamed cements were used to stabilize and secure caving ground in a newly-reamed 12.5-ft diameter underground ventilation raise. Two zones of very poor Rock Mass Rating (RMR) material were encountered during reaming of a ventilation raise at Placer Dome's Turquoise Ridge Mine in Northern Nevada. These zones caved to large cavities, continued failing, and could not be safely secured using standard rock bolting, wire mesh, and shotcrete procedures. In stable sections of the raise, the ground control plan called for the contractor to install 8-ft and 12-ft length resin grouted No. 7 Dywidag bolts, chain-link fence mesh and shotcrete. This work was conducted on three decks installed on the raise bore reamer. The first of the caved areas was approximately 1,500 cubic yards in volume and extended out to 40 ft beyond the wall of the raise. Placer Dome considered several options for structural fill to repair the area including pumped shotcrete, concrete, and placing and grouting aggregate. A safe, cost effective, and expedient method of stabilizing the raise with foaming grout and bolted liner plate was selected and successfully executed. The special fast-setting, foaming cement grouts used were Tekfoam and Tekseal® manufactured by Minova. The raise was quickly placed in service. Factors considered in selecting the foaming grout are discussed.

#### **The Speakers**

Mr. Magyar is a registered Professional Mining Engineer with 27 years of experience in the mining industry. He is sole proprietor of International Mining Services (e-mail address at [www.internationalminingservices.com](http://www.internationalminingservices.com).) Current projects include Project

Management Services for Placer Domes new Cortez Hills Underground Exploration Development in northern Nevada which includes more than 17,000 ft of decline development. He provided technical and management services for the restart of Placer Dome's Turquoise Ridge Mine an underground gold mine in Nevada. Mr. Magyar continues to provide engineering and consulting services to the mining and mineral industry.

#### **The Last Meeting**

**DPM Crossfire - Diesel Particulate Matter Regulation - From Industry and MSHA Perspectives: John Head** of CPI for the industry side and **Bill Pomroy** from MSHA gave opposing views concerning the necessity of the regulatory standards for diesel particulate controls, and the quality of the testing methodology. The presentation started with a history of the investigation and regulations up to the current status, including legal challenges.

MSHA holds that there is an increasing body of evidence that exposure to higher levels of DPM cause an increase in lung cancer rates for those exposed. The government is also contending that the increase in cancer rate is not caused by other factors combining with the diesel particulates. Pomroy noted that while the data is incomplete, the exposure versus incidence curve is being filled in bit by bit, which strengthens the Government's case. Industry has generally held the view that there is insufficient data to establish a hazardous exposure limit, that the is limit currently set low due to excessive caution on MSHA's part, and the proposed exposure levels are not well supported by the data. Setting the exposure limit to low is a problem for the operators both technically and economically, without commensurate benefit to the workers.

Testing for DPM was originally proposed on the basis of Total Carbon. This method of measuring DPM and the proposed exposure limit were challenged in court by the mining industry. This challenge forced MSHA to back off on both the exposure limit and the date of implementation, and change the testing standard to Elemental Carbon.

It was noted that the tests are not effected by volatile vapor (ex – oil on the exhaust manifold) or cigarette smoke. It was noted that sampling variability is a problem, and that two pumps worn at the same time by a worker can give widely different results (like one 3 -4 times the other resulting in a violation on one test only). Testing can only be done by monitoring pump with the results determined by an outside lab. There is no way to determine exposure on site.

Pomroy noted that DPM hangs around in the air, so that the old practice of needing a lesser volume of air per Brake Hp for the second diesel in a heading no longer applies. Each diesel needs to be evaluated and the full volume for each diesel must be provided by the intake air.

Both speakers are willing to provide training and compliance assistance. MSHA has also given testing and compliance seminars at various locations around the country.

For more information, call **John Head** of CPI at **630-407-0800 X103** or **Bill Pomroy** of MSHA at **218-720-5448** or visit the MSHA web site under Special Initiatives/Diesel Particulates <http://www.msha.gov/01-995/Dieselpartmm.htm>

*By the Editor*

### ***NO CHICAGO MEETING AT THE END OF MARCH!!***

**We will skip our normal March meeting due to the SME National convention in St Louis March 26-29<sup>th</sup>. Check out the convention at**

<http://www.smenet.org/meeting/s/AnnualMeeting2006/index.cfm>

### ***Looking for Speakers -- Next This Spring and next year:***

**The Chicago SME is in the process of scheduling speakers for the end of this year and all of next year.** If you have a subject you are interested in hearing presented, know of someone you would like to have speak to our group, or would like to give a talk yourself, please contact our program chair, **Frank Kendorski at 630-792-1520** e-mail him at [frank@agapito.com](mailto:frank@agapito.com).

## UPCOMING MEETINGS & *EVENTS*

*For your schedules*

### SME Annual Meeting and Exhibit & 7th Annual International Conference on Acid Rock Drainage

**March 27-29, 2006**  
**St. Louis, Missouri**

#### **AGGREGATE SESSIONS**

The SME's Construction Materials and Aggregates Committee (CMAC) is putting on a strong program at the SME Annual Meeting. There will be four sessions directly under CMAC:

Monday, March 27, 2006 2 pm: **Resource Evaluation and Planning:** Session on market research and economics, chaired by Mark Zdunczyk of Continental Placer, Inc.

Tuesday, March 28, 2006 – 9 am: **Underground Mining in an Urban Environment:** Session on underground mining in an urban environment, chaired by Bill Warfield of Atlas Copco.

Tuesday, March 28, 2006 – 2 pm: **Health & Safety Compliance Puzzles for Aggregates:** Session on safety and health issues for the aggregate industry, chaired by Mark Savit of Patton Boggs.

Wednesday, March 29, 2006 – 9 am: **Automated Process Control for Aggregates:** Session on plant design, chaired by Steve Lenker of NSSGA

Registration is now at \$495 for all technical sessions and show. For more information registration, see the SME link <http://www.smenet.org/meetings/AnnualMeeting2006/index.cfm>

### The MSHA Starved Rock Safety Conference

The 15th Annual MSHA Spring Thaw/State Grants Conference will be held at Starved Rock State Park Lodge March 7-8, 2006. Registration begins at 12 noon

with the conference opening at 1:00 p.m. The \$30 conference fee includes all training, breaks, continental breakfast and lunch on Wed., plus an evening reception.

**John Head** of Continental Placer will be talking about Underground Stone Mine Safety at the Illinois DNR-MSHA-IAAP joint safety conference at Starved Rock on March 7th. The conference itself is a two-day affair.

For more information contact **Art Rice** or **Mary Jane Summers**, Illinois Dept. of Natural Resources, Mine Safety and Training Program, in the Benton office at 618-439-9111, ext. 228 or 237.

### NSSGA 2006 Annual Convention March 8 - 12, 2006 Tampa, FL

#### Schedule includes Crystalline Silica Legal Symposium

(Separate \$250 registration fee required)  
March 10<sup>th</sup>

#### Going Underground Seminar; How, Why, When & Where March 10th Headed by **Bob Archibald**

For more information -  
Online:

[http://www.nssga.org/calendar/2006\\_Convention/](http://www.nssga.org/calendar/2006_Convention/)

Registration is \$995 for NSSGA Members  
**Phone NSSGA: 703-525-8788**

### Illinois Association of Aggregate Producers IAAP Annual Convention May 18, 2006

At the  
**Crowne Plaza Hotel  
Springfield, Illinois**

**Registration is \$125/person**  
**Booth Space \$275/Each**  
**For more information call:**  
(217) 241-1639

### *The PIE & GEM Committees*

#### *IAAP Teacher's Workshop*

The IAAP workshop is a three-day event designed to inform Illinois educators about the importance of rocks, minerals, and mining in everyday life. The main focus of the workshop is Illinois geology, mining, and reclamation. Environmental issues and myths surrounding the aggregates industry are also explored. During this workshop, teachers learn about, and actively participate in, various "hands-on" educational activities suitable for the classroom. Finally, each of the teachers who participate in this event receive a bagful of educational materials provided by the IAAP and its members.

The IAAP is looking for teacher applications, scholarship sponsors and donations for this summer. Contact the IAAP at 217-241-1639 or our GEM coordinator **Anne Leslie** at 708-583-9290 or e-mail Anne at [rdcdri@rdc-drill.com](mailto:rdcdri@rdc-drill.com)

#### *From the SME National GEM Committee*

SME (national) has sponsored an interactive CD ROM entitled "Minerals in Your World" created by the Mineral Information Institute (MII) in cooperation with the US Geological Survey (USGS). This is a teaching device to help people understand the important roles of minerals and energy in their lives. It appears to be designed for students of all ages (above... say ...above 8 years old). Price is \$6 plus shipping.

#### **Donations by Chicago SME**

The Chicago SME will purchase 100 copies of the CD "Minerals in Your World" and donate 75 copies for distribution at the IAAP Teacher Workshop this summer. This will be in lieu of our normal cash donation to the Workshop. The other 25 copies will be used by our members for distribution to local schools and teachers.

The Section also donated \$300 to the Western Society of Engineers in support of Engineer's Week 2006, which occurred Feb 19-26. The donation was used to stimulate Jr and Sr high school students to consider careers in Engineering. Monies go to the Future Cities Competition, Bridge Building Contest, Math Counts, JET TEAMS and the Illinois Science Fair.

## MEMBER NEWS

### **Frank Kendorski to Receive Rock Mechanics Award at SME Meeting**

At the annual SME meeting in St. Louis in March, **Frank Kendorski** of **Agapito Associates, Inc.**, will be awarded the SME Rock Mechanics Award presented by the Coal & Energy Division of the SME for "distinguished contributions to the advancement of the field of rock mechanics." The award will be presented at the Mining & Exploration Division luncheon on Wednesday, March 29<sup>th</sup>.

*Reminder provided by Gordie Stevens*

### **Chicago SME Officer Nominations**

A slate of candidates will be prepared for presentation at our April meeting. If you are interested in serving as an officer or on one of the committees, contact **Gordie Stevens** at 630-963-6026. See page 5 for a list of current officers and committee chairs.

*Information provided by Gordie Stevens*

### **Washington Award Banquet**

**Chicago SME** chairman **Gordie Stevens** represented the SME at the Washington Award banquet on February 24<sup>th</sup> 2006. The honorary award was created in 1916 to recognize the "devoted, unselfish, and preeminent service in advancing human progress." It was named the Washington Award as a reminder that the nation's first president was an engineer. The Award commission is made up of representatives from Western Society of Engineers and six other engineering societies. It is conferred annually upon an engineer whose professional attainments have advanced the welfare of all peoples. **Gordie Stevens** serves as the SME representative on the Commission.

The 2006 award was given to Dr. Henry Petroski, P.E., author and an Aleksandar S. Vesic Professor of Civil Engineering and Professor of History at Duke University, for "his extraordinary contributions in making engineering practice and theory understandable to the public".

*By the Editor*

## NEWS TO USE

### **Illinois State Geological Survey Geology Position Open**

**POSITION:** Associate Geologist I (Sedimentology) - full time, state supported (Associate Professional Scientist PG 21)

**LOCATION:** ISGA office on the campus University of Illinois, Champaign, IL.

**EDUCATION/EXPERIENCE:** M.S. degree in geology or related field and four years of experience in fluvial sedimentology with emphasis on glacial sand and gravel deposits or new Ph.D. Education may substitute for experience. Graduate work may be accepted as experience. Prefer M.S. degree in geology with six years experience, or Ph.D. with two years experience, including experience in sand and gravel resources and subsurface geologic mapping.

**SALARY:** \$40,000 - \$50,000 depending on qualifications

**CLOSES:** March 31, 2006

**BENEFITS:** Generous vacation/sick leave /paid holidays. State Universities Retirement System. State-sponsored group health, dental, vision and life insurance.

**DESCRIPTION & QUALIFICATIONS** may be obtained from the ISGS; contact information given below. Space does permit the inclusion of the complete text.

**APPLICATION:** For an application, contact Human Resources by phone, fax, email, website or address listed below.

Human Resources  
Illinois State Geological Survey  
615 E. Peabody Drive  
Champaign, IL 61820  
Phone: 217-244-2401 Fax: 217-244-7004  
walston@isgs.uiuc.edu  
www.isgs.uiuc.edu

*Information provided by Chris Stohr, ISGS*

### **Dry Systems Technologies Provides MSHA approved Diesel Exhaust Treatment**

Dry Systems Technologies (Woodridge, IL) has received a MSHA Part 7A approval (07-FA050001) on its Cummins 8.3 Power Package. The Power Package is rated at 185HP @ 2200 RPM. The Power Package

includes a DST modified Cummins engine, intake and exhaust flame arrestors, water-cooled piping, catalyst, heat exchanger, low-cost replaceable exhaust filter, charge air cooler, cooling system, and a safety shutdown system. The package can also be fitted with an air starter and a DST explosion-proof alternator. The package can be sold for new vehicle installations as well as repower applications.

DST can provide exhaust treatment systems to replace scrubbers, and complete power packages including engines for Inby coal. DST can also provide exhaust treatment systems for Outby coal as well as Metal Non-metal Mines.

*Information Provided by Roger Gibbs, DST*

### **Internet Access Fight**

A new fight is brewing over the future of communications in the United States. It pits the nation's largest cable and telephone companies against those who believe the Internet should support the free and independent flow of ideas. As more Americans upgrade to high-speed Internet connections, the companies that control the "pipes" are plotting out new ways to profit from the demand. The telco and cable giants want to fence off the Internet: one area for the haves — who will pay a premium to enjoy life in the fast lane — and the other for the have-nots.

This coming debate rated a mention in the Feb 27<sup>th</sup> Newsweek (Technologist, P14). For more information see

<http://www.freepress.net/netfreedom/>

*Info provided by Dick Phelps*

### **Remember the WWII Vets; Before You Go....**

For those of you who have parents or grandparents still around who fought in WW II, there is a song & video clip worth the look. It can apply for all the Vets, but it was spurred by an old WWII vet. Listen to **Before You Go**, then thank the old guys <http://www.managedmusic.com/beforeyougo.php>

*By the Editor*

## 2005-2006 Chicago Section SME Officers

<b>Chairman</b>	<b>Gordie Stevens</b> Civil & Environmental Consultants, Inc. Downers Grove, IL 630-963-6026 Fax 630-963-6027 gstevens@cecinc.com	<b>GEM Coordinator</b>	<b>Anne Leslie</b> Raimonde Drilling, Inc. Chicago, IL 708-583-9290 Fax 708-583-9491 rdcdrill@rdc-drill.com
<b>Vice-Chairman</b>	<b>John Head</b> Continental Placer, Inc. Wheaton, IL 630-407-0800 x 103 Fax 630-407-0799 jhead@continentalplacer.com	<b>Newsletter Editor</b>	<b>Rick Ackermann</b> Conco Western Stone. North Aurora, IL 630-740-4863 Fax 630-892-1153 rackermannaz@yahoo.com
<b>Secretary</b>	<b>Steve Tivy</b> Boncosky Oil, Inc. Elgin, IL 847-741-2577 Fax 847-741-2590 svtivy@comcast.net	<b>Website Coordinator</b>	<b>Sarah Schlichholz</b> Continental Placer, Inc. Wheaton, IL 630-407-0800x109 Fax 630-407-0799 sschlic@continentalplacer.com
<b>Treasurer</b>	<b>Brad Renwick</b> Civil & Environmental Consultants, Inc. Downers Grove, IL 630-963-6026 Fax 630-963-6027 brenwick@cecinc.com	<b>Program Chairman</b>	<b>Frank Kendorski</b> Agapito Associates Lombard, IL 630-792-1520 Fax 630-792-1580 frank@agapito.com
<b>Membership</b>	<b>Open</b>	<b>SME Section Representative</b>	<b>John Magyar</b> International Mining Services Belvidere, IL 815-547-9211 Fax 815-547-8552 imsjjm@aol.com

SME Chicago Section Membership Dues Form - NOTE: You do not need to be a national member to join the local section. To become a member of SME at the national level, please join at [www.smenet.org](http://www.smenet.org) or get an application from Gordie Stevens.

NAME: \_\_\_\_\_

AFFILIATION: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

E-MAIL: \_\_\_\_\_ @ \_\_\_\_\_

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: Brad Renwick, Treasurer, Chicago Section of SME, Civil & Environmental Consultants., 3041 Woodcreek Drive. Suite 210, Downers Grove, IL 60515

**NEXT MEETING  
Thursday, March 2, 2006**

**“USING FOAMING GROUT TO STABILIZE A  
VENTILATION RAISE IN VERY POOR ROCK”**

**John Magyar, P.E.,  
International Mining Services**

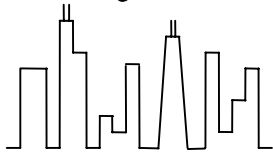
**At the**

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

Rick Ackermann  
Newsletter Editor, Chicago Section SME  
464 Waubensee Circle  
Oswego, IL 60523

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