

CHICAGO SECTION NEWSLETTER

January 2009



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

NEXT MEETING: Tuesday, January 13, 2009

Topic: Use of a Roadheader to Develop the Underground Stone Mine at Port of Will County, Illinois

Guest Speaker: Gary Smyth, Principal and Operating Manager
Plant Optimization
Plainfield, IL

Time: 5:30 PM Social Hour
6:00 PM Dinner and Program

Meeting Location: Bohemian Crystal Restaurant **639 N. Blackhawk Dr., Westmont, Illinois**

Directions: **From I-355:** Take to Ogden Ave. exit. Go east on Ogden past Cass Avenue to Blackhawk and turn left. The restaurant is visible on the right.

From the West on I-88 East: Take Midwest Road exit and go south on Midwest (becomes Cass Ave.) to Ogden and turn left.. Take Ogden east to Blackhawk and turn left. The restaurant is visible on the right.

From the East on I-88 West: Take Il-83 (Kingery Hwy) South exit and go south on Il-83 to Ogden Ave. Turn right on Ogden and go west to Blackhawk Dr. Turn right on Blackhawk Drive. The restaurant is visible on the right.

From I-294: Take the exit to Ogden Ave Westbound. Take Ogden Ave. west to Blackhawk Drive, which is after I-83 and Pasquinelli Drive and Westmont Drive. Turn right on Blackhawk Drive. The restaurant is visible on the right.

Map on next page.

Menu: Family Style, *Roast Pork, Roast Beef, Spring Chicken and Veal Cutlet*

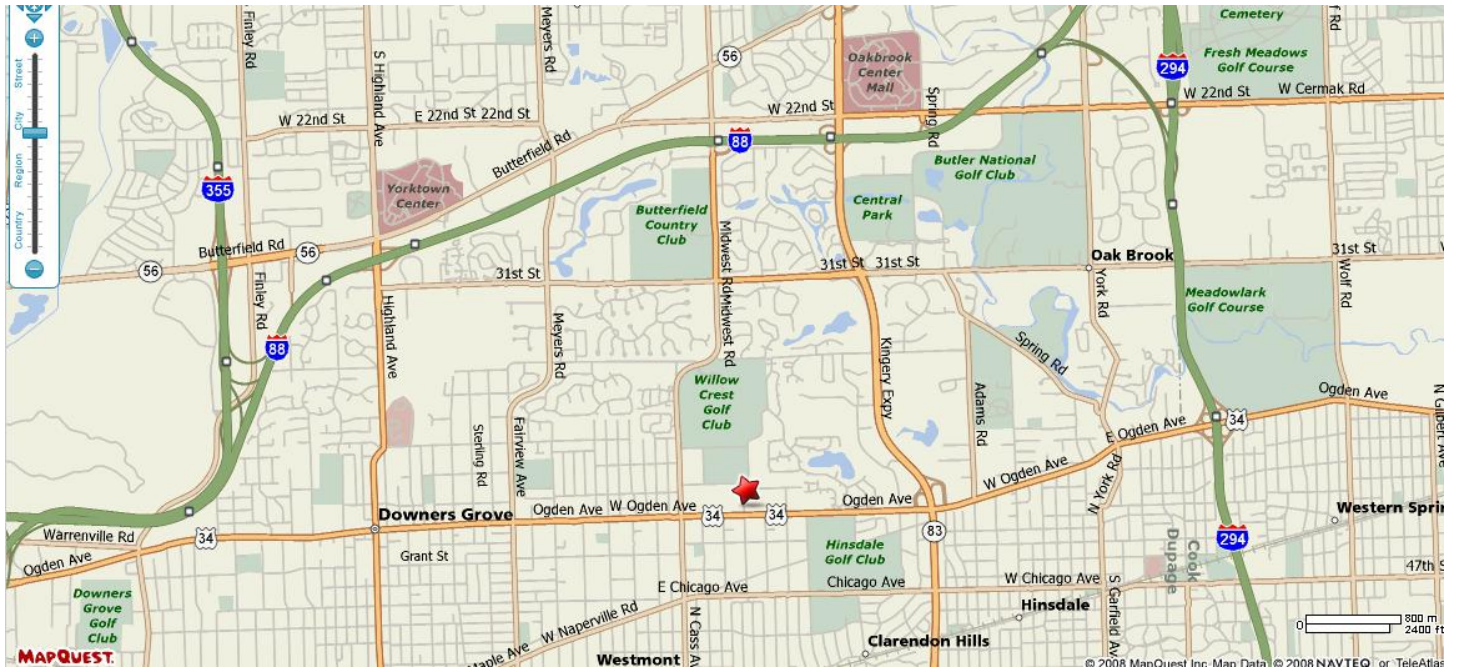
Dinner includes coffee with dinner, home-made rye bread, rolls and butter, choice of soups-of-the-day, sauerkraut, sweet and sour cabbage, boiled potatoes, vegetable of the day and dessert.

Cost: \$40 for dinner/meeting for Members, \$45 for Non-Members
Science teachers or professors who bring students are considered guests of the Section and will get dinner free. Students' dinners are \$5 each.

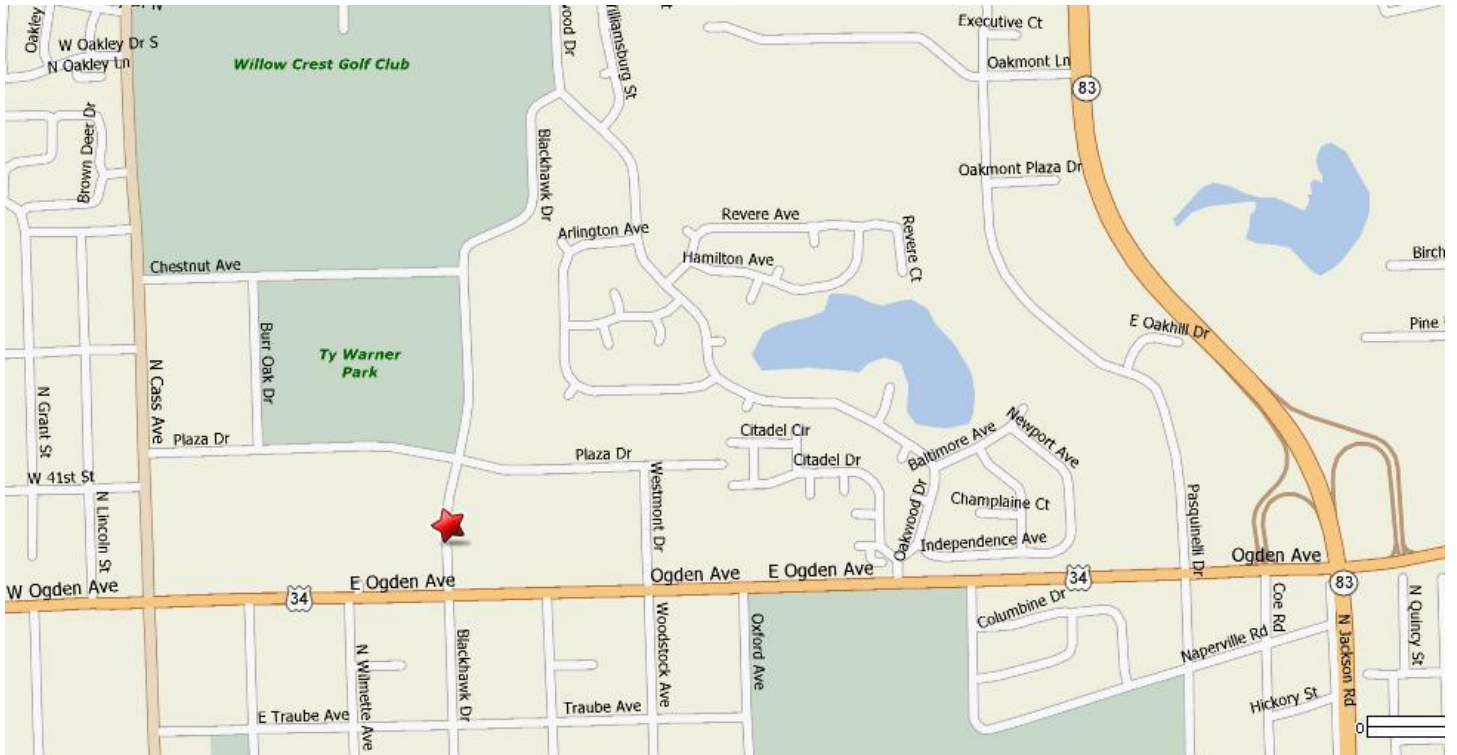
RSVP info below

If you plan to attend, RSVP; PLEASE call before Monday, January 12, 2009. Call or email Agapito Associates, Inc. at either 630-792-1520 (office), 773-343-7292 (Doug Hambley's cell) or dfhambley@agapito.com.

Area Map - The star is the Bohemian Crystal restaurant.



Detail Map



From the Program Committee Chairman:

Next Meeting: Use of a Roadheader to Develop the Underground Stone Mine at Port of Will County, Illinois

Abstract: This presentation will discuss the use of the Voest-Alpine ATM 105 (now Sandvik MT 720) roadheader will be discussed for the 1,600-ft-long, 18 percent decline at the Port of Will County (POWC) Mine. The roadheader was selected for its ability to mine productively in the shales and limestones in this area. The merits of mechanical excavation using a roadheader will be contrasted with the more conventional drilling and blasting method of mining other declines.

Initial development of the mine infrastructure in preparation for production was done using the Voest-Alpine roadheader. The infrastructure included a vent raise, twin primary fans, a production/ventilation loop and a primary crusher decline and dump point. This development will also be discussed, including productivities relative to conventional development.

The presentation will consist of a slide show of the roadheader operation and development work, the primary crusher and the conveyor installation, followed by a question and answer session.

Speaker Bio: Gary Smyth is a graduate of University of Missouri-Rolla (now Missouri University of Science and Technology) in both mining and mechanical engineering. He also earned an MBA from Indiana University-Purdue University Indianapolis.

He is presently Principal and Operating Manager of Plant Optimization, a company that offers full service mine engineering and aggregate plant design, as well as material procurement, project management, and installation services.

Mr Smyth has worked extensively in aggregate operations throughout the midwest. He was involved in several

of the early decline developments for Vulcan's underground mines in the Chicago area. Previous to his work at Vulcan, Smyth was involved in two declines for American Aggregates in Indiana, and one in for an aggregate company in southern Illinois. Prior to his work in aggregates, Smyth was involved in declines for coal development in the eastern and Midwest U.S., and in mining construction work in the western US.

Smyth also has considerable experience in aggregate plant design, construction and optimization.

Smyth has been retained by Mining International LLC at Joliet since 2006 to oversee the completion of the access and conveyor decline using a Voest-Alpine Model ATM 105 roadheader. He has continued his work for Mining International with the development of the POWC Mine to full underground production capacity. Most of this initial development was with the roadheader.

The Last Meeting: On Wednesday, November 12 2008, Jim Goldberg of Lehigh-Hanson and Bill Reisz of Davey Bickford presented a talk entitled, **Minimizing Blasting Risk in Urban Quarries.** Jim and Bill's presentation discussed the advantages of early recognition and risk assessment is critical to sustaining a safe and productive blasting operation. While every blasting environment holds inherent risk, highwall blasting in highly congested areas such as Lehigh-Hanson's Romeoville and Thornton quarries in the greater south Chicago metropolitan area can be particularly perilous.

Messrs. Goldberg and Reisz discussed case histories from Thornton and Romeo Quarries. In the case of Thornton, they discussed three critical shots including two blasts fired on the north face of the North Quarry and one in the West (Brown Derby) Quarry where there was a Menards Department Store located approximately 475' (145 m) from the shot location.

In the case of Romeoville, they discussed a trial shot on the Northwest face of the quarry in an area that was known to contain clay pockets and solution cavities and the unsatisfactory effect that resulted when the blaster ignored the recommended blast pattern on a trial blast. The recommended patterns were followed on subsequent blasts with much superior results.

The blast pattern and the ignition point firing order are designed after the rock has been "modeled" using 3D laser modeling and borehole path probes. Blast plans include the use of digital detonators for energy control and design flexibility. Messrs Goldberg and Reisz indicated that, although many of the problems have deep rooted cause and effect, very often it's the simple solution that works best.

Contributed by the Editor

CHAIRMAN'S CORNER

Welcome again to the Bohemian Crystal. Hope you are all doing well in the year. This will be a different year, with a lot of hopes being placed on a new president, and a very difficult outlook for the economy. Certain parts of the industry are "in the tank" while other parts of the industry seem to be holding up reasonably well. Certainly some of the metals prices have dropped along with the aggregates consumption.

Obama's comments on funding infrastructure, which would certainly jump-start the aggregate's sector, are interesting, but the problem of how to pay for it remains a nagging issue. It may be that we are being optimistic, but maybe that is what is needed at this point.

I hope that you will enjoy this month's speaker, who will be talking from experience in comparing conventional drill/blast mine development with a roadheader for decline development in aggregate operations. Gary has also used the roadheader for a large part of the infrastructure development and will have some comparison information

concerning using the roadheader versus drill/blast for that development.

As discussed in the last newsletter, recruitment of speakers has been taken over by a committee headed by Joe Crawford. They have done a great job of selecting topics and speakers for this year. Joe will announce the speakers and topics for the remaining meetings on Tuesday. If you have any suggestions for next year give Joe Crawford a call – his number is on the officer list in this newsletter.

Last, check out the information concerning the SME national convention in February. The Construction Materials and Aggregates group will have three technical sessions this year. Hope to see you in Denver February 22nd!!

Submitted by Rick Ackermann

NEWS OF MEMBERS

Frank Kendorski Home from Hospital

Longtime Chicago Section member (and Past Section Chair) **Frank Kendorski** is now home. He was released from Marianjoy Rehabilitation Hospital in Wheaton just before Thanksgiving but is still undergoing therapy sessions a couple times a week. The Chicago Section wishes Frank a speedy recovery!!

John Magyar Returns from Tanzania

Our Chicago member, **John J. Magyar PE** dba International Mining Services recently returned from a two month assignment in Tanzania. Work included project management services, mentoring and putting in place project management systems for Barrick's Bulyanhulu Gold Mine located about 50 km south of Lake Victoria. Mr. Magyar will be returning to Bulyanhulu for another two months starting in January.

OPIC Selects Ennes International as Partner in its Enterprise Development Network (EDN)

The Overseas Private Investment Corporation (OPIC) has selected Ennes International of Oak Park, IL, to serve as a Loan Originator for a new alliance with the private sector designed to support small and medium-sized enterprises (SMEs) expanding into emerging markets overseas. Ennes International is a consultancy dedicated to the planning and financing of industrial and infrastructure projects in developing countries.

The alliance, the Enterprise Development Network (EDN), will greatly expand the ability of OPIC – the U.S. government agency charged with facilitating US private sector investment in emerging markets – to provide financing to SMEs doing business in developing countries.

Through the support of financial institutions, business consultants, associations, law firms and regional investment promotion agencies, EDN is designed to enhance SMEs' access to OPIC products and services. By empowering such private sector service providers, the network will result in more efficient, cost-effective delivery of services to American businesses.

OPIC was established as an independent U.S. government agency in 1971 and currently does business in over 150 countries and areas around the world. OPIC has accomplished its development mission by supporting \$177 billion worth of investment in over 3,500 projects that have helped create over 800,000 host country jobs (\$13 billion in revenues). The US economy has benefited as well, as OPIC projects have generated more than \$71 billion in U.S. exports and supported jobs for more than 271,000 Americans. Funding is available for

65% to 75% of total investment cost, depending on the nature of the project.

Ennes International, established in 1992, is managed by its principal consultant, **Dean Ennes**. Ennes International is an independent financial advisor, assisting companies with the arrangement of financing for their exports and international ventures and with international project development.

Dean Ennes is a member of the Board of Directors of the International Trade Association of Greater Chicago and a member of the Chicago Section of SME.

Submitted by Dean Ennes

Steve Tivy to Present Paper at 2009 Chicago Construction Expo

Steve Tivy of PetroLiance will present a paper at the 2009 Chicago Construction Expo held at the Schaumburg Convention Center on January 7th and 8th, 2009. Mr. Tivy's paper titled "Never Buy an Oil Sample!" explores the value of randomly sampling used oil in industrial and commercial equipment compared with a formal program of goal-setting, testing, analysis, and response for key productive assets.

DID YOU KNOW? Origin of the Lead Mines in the Galena Area

The First Nations inhabitants of the Galena area had a crude system of mining, and reports of their mines reached the French. About 1690 Nicholas Perrot visited the mines in this region, and in 1700 Pierre Charles Le Sueur took sample ore from the deposits along the Mississippi River. The great mining fields marked on early French maps, combined with glowing tales of upper Mississippi minerals, led John Law, a Scottish economist

working for the French monarchy, to emphasize their possibilities in 1717.

The French government became so involved in backing him that it bordered on bankruptcy when Law's 'Mississippi Bubble' burst in 1720. In 1822 Colonel Richard M. Johnson obtained the first lease from the Federal Government to mine lead around Galena, and he was given a military guard since the Fox Indians were still occupying the area.

The United States Government expected to receive royalties on the lead produced but collection attempts failed, and in 1847 the lands were sold outright. The lead mines around Galena reached their peak in 1845, when they produced about 83 percent of the total United States output. Lead in the surface veins was finally exhausted in the 1850's, and without the necessary capital for intensive mining of the deeper mineralized zones, lead production declined during the last half of the nineteenth century.

Contributed by Newsletter Editor

UPCOMING MEETINGS & EVENTS

SME Annual Meeting in Denver

The SME annual meeting will take place in Denver between February 22 and 25, 2009. *For short courses and attendee information go to <http://www.smenet.org/> and scroll down to the link for the convention.* You can find the schedule of the events, registration forms and information on the short courses before the show and the local tours (including one to the Henderson Mine) on Thursday after the show. The exhibitors section has been sold out since early December, which is a sign of the overall activity level in the mining industry.

The Construction Materials and Aggregates Committee will have three technical sessions this year, one more than in 2008. Two of the sessions are chaired by members of the Chicago SME. The CMAC sessions are listed below:

- Urban Mining - Monday 2/23 at 2 PM, chaired by Kurt Oakes
- Resource Development - Tuesday 2/24 at 9 AM, chaired by **Gordie Stevens**
- Optimization of Aggregate Operations - Tuesday 2/24 at 2 PM, chaired by **Rick Ackermann**

The annual SME meeting is being held in conjunction with the Colorado Mining Association annual meeting. Check out the tab on the SME meeting website for CMA talk topics.

Note that the Chicago section will not have a February meeting, to encourage you all to attend the national meeting. Hope to see you a number of you in Denver.

FOR YOUR SCHEDULES:

February 22 to 25, 2009, **2009 SME Annual Meeting and CMA 111th National Western Mining Conference**, Denver, Colorado. Go to the link: <http://www.smenet.org/> for more information

March 1 to 4, 2009, **2009 Prospectors and Developers Convention (PDAC)**, Toronto, Ontario. Check www.pdac.ca for more information.

March 9 to 12, 2009, **2009 National Stone, Sand & Gravel Association Annual Meeting (NSSGA)**, Orlando, Florida. For more information go to <http://www.nssga.org/meetings.cfm>

2008-2009 Chicago Section SME Officers

Chairman	Rick Ackermann Continental Placer, Inc. Wheaton, IL 630-407-0800 x 108 Fax 630-407-0799 racker@continentalplacer.com	Program Chairman	Joe Crawford Vulcan Construction Materials, LC Naperville, IL 630-955-8544 Cell : 630-200-4329 crawfordj@vmcmail.com
Vice-Chairman	Steve Tivy PetroLiance, Inc. Elgin, IL 847-741-2577 Fax 847-741-2590 svtivy@petroliance.com	Newsletter Editor	Doug Hambley Agapito Associates, Inc. Lombard, IL 630-792-1520 Cell 773-343-7292 dfhambley@agapito.com
Secretary	Joe Crawford Vulcan Construction Materials, LC Naperville, IL 630-955-8544 Cell 630-200-4329 crawfordj@vmcmail.com	Website Coordinator	Rudy Stein Civil & Environmental Consultants, Inc. Downers Grove, IL 630-963-6026 Fax 630-963-6027 rstein@cecinc.com
Treasurer	Brad Renwick Civil & Environmental Consultants, Inc. Downers Grove, IL 630-963-6026 Fax 630-963-6027 brenwick@cecinc.com	SME Section Representative	John Magyar International Mining Services Belvidere, IL 815-547-9211 Fax 815-547-8552 imsjjm@aol.com
Past Chair	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 rdcdill@rdc-drill.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 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 SME, Civil & Environmental Consultants., 3041 Woodcreek Drive. Suite 210, Downers Grove, IL 60515