



MEETING: Wednesday, May 1, 2002

- Topic:** “Overview of Underground Limestone Mine Research with a Focus on Roof Monitors”
- Guest Speakers:** Lou Prosser and Tom Marshall, Pittsburgh Research Center, National Institute for Occupational Safety and Health (NIOSH), Pittsburgh, Pennsylvania
- Time:** 5:30 PM Social Hour
6:30 PM Dinner
7:30 PM Speaker
- Place:** **Weinkeller Brewery**
651 Westmont Drive, Westmont, Illinois (Just North of BMW Dealer)
Telephone: 630-789-2236
- Directions:**
From I-294: Exit at I-88 Westbound, Pay 40 cent Toll, Exit at Route 83 South, Route 83 South to Ogden Avenue, Ogden Avenue West to Westmont Avenue on Right (North Side)
From I-290 Westbound: Exit at Route 83 South, Route 83 South to Ogden Avenue, Ogden Avenue West to Westmont Avenue on Right (North Side)
From I-88 Eastbound: Exit at Highland Avenue, Left to Southbound on Highland Avenue to Ogden Avenue, Left to Easton Ogden Avenue, East to Westmont Avenue on Left (North Side)
From I-355: Exit to I-88 Eastbound, Exit at Highland Avenue, Left to Southbound on Highland Avenue to Ogden Avenue, Left to Easton Ogden Avenue, East to Westmont Avenue on Left (North Side)
- Menu:** “German Feast,” which will include potato pancakes, chicken schnitzel, a couple of German sausage choices, cooked cabbage, sauerkraut, potatoes and desert. All served family style
- Cost:** \$25 for dinner/meeting for Members, \$30 for Non-Members. Any Science teachers or professors are considered a guest of the Section and will get dinner free. Student dinners will only be \$5.
- Call:** Sarah Schlichholz of Continental Placer, Inc. at 630-469-6340x109 or E-mail at sshlic@continentalplacer.com by Monday, April 29, 2002.
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From the Chairman: Many of you may not be aware, but this spring represents a milestone for the Chicago Section of SME. A cause for celebration! We are 15 years old. Happy Birthday! Doug Hambley presents an excellent summary of our birth in this newsletter. I hope you take the time to read it; it’s worth the effort. Well, with that said, I guess time puts us firmly in the middle of our “teens.” We are stretching our wings and developing a secure foundational culture for the Section, and in my opinion it is good (but we are a “teenager” and may not be recognizing our limitations). As we grow into “adulthood,” I know we will bring mature ideas to the table to help sustain our organization for years to come. However, it is the past that I really want to address right now. First, I give a hearty Thank You to all of our forebears. Those who took the initiative to start this Section and nurture it. I have been a Section member since 1991, Chair for two years and Secretary before that. As such, I inherited many records and things from my predecessors. But, after carefully going through the pile of stuff and winnowing out the chaff, I did not find many things of real historical significance. So I am making a call to all members of the Section, both old and new: If you have any old newsletters (the older the better) or any other historical documents relative to the Section, please bring them to my attention. I plan to start an “official” history file for the Section, so we can from time to time review where we have been and give credit to those who moved us forward. It is my hope that ultimately we will be able to start a comprehensive history of the Section based on documentation and not just hearsay and failing memories. Thanks for your support. I look forward to hearing from you.

From the Vice Chairman/ Program Chairman

- **This Meeting**

“Overview of Underground Limestone Mine Research with a Focus on Roof Monitors.”

NIOSH developed roof monitors are installed in a number of underground limestone mines in KY, PA, IN, WV, OH, and on April 30, 2002 in IL. The development and use of this tool will be discussed. In addition a brief overview of stone/nonmetal health and safety research conducted by NIOSH at the Pittsburgh Research Laboratory will be provided.

Tom Marshall and **Lou Prosser** have worked for the **Bureau of Mines** and **NIOSH** for nearly 60 years. Combined they are over 100 years old went to school for more than 32 years. Their total number of publications exceeds 100. Their most significant accomplishment to date is receiving an invitation to speak at the **Chicago Section of the Society of Mining Engineers**.

These guys are coming here all the way from Pittsburgh, so let's welcome them with a large attendance.

- **Last Meeting**

Bill Walton and Bill Butler of STS Consultants gave a very interesting talk on “EVALUATION OF STATIC LIQUEFACTION POTENTIAL OF UPSTREAM DIKE CONSTRUCTION FOR IRON MINE TAILING IMPOUNDMENT” The presentation included a case history in which special soil sampling and testing techniques were featured. These techniques, developed in the field and laboratory, were used in determining the liquefaction potential for upstream dike construction on iron mine tailings impoundments and how field instrumentation is used to confirm the evaluation assumptions. Twenty members were in attendance.

- **Next Meeting**

We think we have **Mike Canty** of the **U. S. D. O. E.** on line for a presentation

on DOE's sustainable development and renewable resources program from May 22, 2002. Mike is a mining geologist from Washington, DC, and once babysat Frank Kendorski's parakeets in Tucson, Arizona, in 1970.

This is our last meeting of the season, and we will also hold elections for a new slate of officers.

GEM News

REMINDER: The 2002 Science Teacher's Workshop is scheduled for August 12th thru 14th, 2002 at Pierre Marquette State Park. This will be our 6th workshop. Anyone interested in volunteering or able to make a donation, please contact me at 708-583-9290 or e-mail: rdcdill@rdc-drill.com. We have been asked to present hands-on activities at the ENTICE program this July in Peoria. This 2-day program is sponsored by IDNR for science teachers. Any members that have presented to classrooms or conducted a fieldtrip please let me know. It is always great to hear how each of us does our part to spread the good news of our industry. See you at the meeting! *Anne Leslie*

Freelance Writer and Metallurgist Schuey Moves to Chicagoland

Scott Shuey has recently moved to Buffalo Grove. He holds a Masters in Metallurgical Engineering from Montana Tech where he researched remediation processes on metal-based waste streams including cobalt, nickel, and mercury. As an alumni of the US Bureau of Mines – Salt Lake City Research Center he was involved in a cooperative venture with AISI developing a remediation process for steel furnace waste. Scott routinely contributes articles to Engineering & Mining Journal, having previously been the Technical Editor for that publication. He is interested in positions relating to metallurgical engineering and process engineering in the Chicagoland area. Scott can be reached at 847.520.1630 or sshuey@chicagonet.net.

Kokal in Kazakhstan Iron Mines

Harold Kokal returned from Kazakhstan on April 15 after visiting mines owned by Orken, a subsidiary of Ispat Karmet in Kazakhstan. At the Kentobe iron ore mine located north of Karkaralinsk in eastern Kazakhstan he spotted this old locomotive and tender located in a place of



prominence at the entry to the property. You might recognize it as "Made in America." It was obtained by the mine through the lend-lease program during World War II when the US was helping the Soviet Union battle the Germans.

Send Us Your E-mail Addresses

We are trying to get away from paper mailings, please send your e-mail address to frankatagapito@aol.com to get the electronic newsletter.

Hambley Relates the Founding of Our Section

In the Spring of 2002, we celebrate the fifteenth anniversary of the chartering of the **Chicago Section of the Society for Mining, Metallurgy, and Exploration, Inc. (SME)**. On the occasion of the anniversary, it is appropriate to look back at the events that resulted in the founding of the Section.

The umbrella organization of SME, the **American Institute of Mining, Metallurgical, and Petroleum Engineers (AIME)** has had a presence in the Chicago area likely since the founding of that body (as the American Institute of Mining Engineers) in 1871. However, by the early 1980s, the local mining engineers were represented by a joint section under the sponsorship of the **Iron and Steel Society**. The meetings of this group were held in the South Suburbs, where the steel mills are located, and interest by local mining

engineers was slight. For a couple of years around 1982-1984, separate meetings of the mining section were held in the Loop at the

Tower Club. However, the ISS was not keen on the separate meetings and logistics for funding separate meetings was a problem. Consequently, no mining meetings were held in 1984-1985 even though there were three SME members on the local AIME Section executive committee.

In 1985, the constituent societies of AIME became separately incorporated instead of being subgroups within AIME and the constituent societies became each responsible for their own sections. For this reason, and to try to resurrect the mining group, a Committee was set up within the local section in 1985 to decide what to do with the mining engineers group in Chicago. This Committee was comprised of **Andrew Nevin**, then an **Independent**, **Doug Hambley** then with **Argonne National Laboratory**, and **Mike Dunn** then with **Terraform Engineers, Inc.** **Andrew Nevin** moved away from Chicago soon afterward, so the Committee then became **Doug Hambley**, **Mike Dunn**, and **Jerry Siekierski** then of the **Paul Weir Company**.

The Committee felt that there should be a separate **Chicago Section for SME**, but given the two-year hiatus in meetings was uncertain whether there was sufficient interest in attending meetings to warrant the effort. Consequently, an informal poll was taken by telephone by Messrs. Hambley, Dunn, and Siekierski in the late summer of 1986 and a trial meeting was held at the Tower Club in the Fall of 1986. The speaker was **Pieter Braam** and his subject was the **TARP Tunnel System**. The enthusiastic turnout was sufficient to convince the Committee to proceed with plans to charter a Chicago Section. Soon after this meeting, **Jerry Siekierski** had also moved out of the area. To confirm the interest of the local membership, Doug developed a detailed questionnaire and sent it to all 250 SME members of record resident within a 100-mile radius of Chicago. Over eighty responses were received, over 90% of which were in favor of forming a Chicago Section. Using the eighty responses, Doug

developed a Strategic Plan for the first two to five years of operation of the Section. This Strategic Plan identified the most popular times and locations to hold meetings as well as which topics would draw well and which would not.

The next step was to prepare a set of Section By-Laws, convene an Executive Committee, select prospective Section Officers, and organize an inaugural meeting at which to approve the proposed Section Officers and By-Laws by a vote of members of SME resident in the area. Once the By-Laws were passed and sufficient signatures had been obtained on the Petition to Charter, the Charter and By-Laws would be submitted to SME headquarters. The inaugural meeting was held at **Andy's Steak House** in Oakbrook Terrace in the Spring of 1987. (This restaurant has since been demolished and replaced by a **Walgreens Drug Store**) The speakers were then **Chief Geologist Dave Grom** and the **McCook Mine Superintendent** from **Vulcan Materials Company**, who talked about Vulcan's quarrying operations in Northeastern Illinois.

The founding Executive Committee consisted of:

- Chairman: Doug Hambley, then with EES Div., Argonne National Laboratory
- Vice-Chairman: Chris White, then President, Midwest Operations, Vulcan Materials Co.
- Secretary: Tom Brandlein, then Roberts & Schaefer Co.
- Treasurer: Mike Dunn, then Terraform Engineers, Inc.
- Member-at-Large: Carlos Tiernon, President, International Metals & Machines, Inc.

At that first meeting, the By-Laws and Officers were approved and more than the minimum twenty-two signatures were obtained, so the petition to charter was submitted to headquarters and approved at the next meeting of the SME Executive Committee. It should be mentioned that **Carlos Tiernon** was a member of the SME Executive Board, and his involvement in the

Section gave the section a direct link to society management. (The same had been true of **Andrew Nevin** in 1984-85.) However, thanks are due to everyone on the above list who all gave generously of their time to get the Section rolling. **John Head** then of **Morton Salt** joined the Executive Committee in the Fall of 1987, and **Frank Kendorski** then with **Terraform Engineers, Inc.**, and **Ken Bengtson** then of **Payhauler, Inc.**, came on board in early 1988. Also note that the two original Executive Committee members still active in the Section (Doug and Mike) have changed employers more than once since 1987! The others have since left the area, retired, or died.

The observant reader will notice that the executive included quarry and mining company personnel, equipment manufacturers, and consultants. This was deliberate in order to obtain a balance that represented as many as possible of the various interests in the section. Similarly, the speaker topics in the first couple of years were operations-oriented, in order to appeal to as many potential members as possible. It was also the intention of the section to serve the interests of the local explosives community and in the early years of the section this aim was achieved to some extent. However, the subsequent chartering of a local chapter of the **International Society of Explosives Engineers** diminished that initiative. Incidentally, **John Head** then with **Dunn Geoscience, Inc.**, was one of the first officers of the **ISEE Chapter**, and **Frank Kendorski** also with **Dunn Geoscience, Inc.**, then was also present at the ISEE organizational meeting.

When the newsletter started, in the late-1980's, a logo of the Chicago Loop skyline was "pirated" by digitizing the letterhead of the Metropolitan Water Reclamation District of Greater Chicago.

Doug Hambley

