



2006-2007

November Meeting Notice

Minnesota Geotechnical Society

Effective Geophysical Methods for Investigating Karst Terranes: Lessons Learned

Kelton D. Barr, PG, Hydrogeologist

Investigating the voids and solution-enlarged cavities in karstic terranes can be daunting, especially when the karstified units are buried under other geologic units. These solution-enlarged features within karst can be geotechnical and structural hazards as well as important conduits for groundwater flow and the locations of significant ore deposits. Mr. Barr has investigated karst systems in both carbonate and sandstone units in various portions of the United States and have found geophysical methods can be very useful in developing an understanding of the hydrogeology and structural geology of these karst systems.

This talk will cover a variety of surface and borehole geophysical methods and show that the methods proving to be most helpful will vary, depending on the geologic and hydrologic conditions prevailing at the site. Three different sites are used to illustrate varying conditions and which of the various methods were found to be applicable. Several guidelines will be presented for selecting geophysical methods for effective investigation of various types of buried karst terrane.

Date: Wednesday, November 8, 2006

Location: Majors Sports Cafe (formerly Big City Tavern, formerly KFAN)
2801 Snelling Ave
Roseville, MN

Time: 6:00 Social Hour - Our thanks to Braun Intertec Corp. for their sponsorship.

7:00 Dinner – Salad, Rolls, Coffee/Soda and a choice of:

1. St Louis Style BBQ Ribs– Slow Roasted- Full rack served with French fries and Coleslaw
2. Feta Cheese and Sun-Dried Tomato Stuffed Walleye - Served over white cheddar mashed potatoes with a drizzle of lemon thyme butter sauce.
3. Manicotti – Fresh Pasta tubes filled with ricotta, mozzarella and parmesan cheeses. Baked in marinara sauce and finished with melted mozzarella.

8:00 Presentation –Kelton Barr, PG, Braunintertec Corp. Principal Hydrogeologist
(One professional development hour toward continuing education requirements for Professional Engineers is available).

Cost: \$25.00 members, \$30.00 non-members, and \$5.00 Full-time students, payable to MGS at the door.

Reservations: Requested by 12 Noon, Friday, November 3, 2005.

Please register via the website at <http://www.mngeotechnicalsociety.com/eventsmpls.asp> or call Greg Norris to indicate your dinner selection. Greg may be reached by phone: (763) 428-2242 or fax: (763) 428-8348

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