



**2013 - 2014**

*October Meeting Notice*

## **Minnesota Geotechnical Society**

### **Examples of Hypogenic Karst Collapse Structures in the Twin Cities Metropolitan Area**

**Kelton D. L. Barr, Braun Intertec Corporation, Minneapolis, Minnesota**

**E. Calvin Alexander, Jr.; University of Minnesota, Minneapolis, Minnesota**

The geology and geologic history of the Twin Cities metropolitan area have resulted in the development of hypogenic karst features that we are just beginning to identify. Three collapse structures in the Twin Cities metropolitan area have so far been identified; these appear to be breccia pipes formed by hypogenic karst processes. The features are associated with deeply entrenched bedrock valleys, one the current Mississippi River and the other two buried by glacial drift. These valleys have been discharge points for regional groundwater flow systems. The possibility of other breccia pipes in the St. Peter within the metropolitan area is both probable and problematic.

**Date:** Wednesday, October 9, 2013

**Location:** Rose Vine Hall (downstairs at Grumpy's Bar & Grill)  
2801 Snelling Ave. N., Roseville, MN

**Time: 6:00** Social Hour - Sponsored by Braun Intertec

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

1. 10-Ounce Top Sirloin - Char-grilled and topped with bleu cheese garlic butter. Served with white cheddar mashed potatoes and a sautéed vegetable medley – \$35.00\*
2. Stuffed Pork Chops - Two char-grilled pork chops stuffed with golden raisins, cornbread and apples – \$35.00\*
3. Feta Cheese and Sun-Dried Tomato Stuffed Walleye - Served over white cheddar mashed potatoes with a drizzle of lemon thyme butter sauce – \$35.00\*
4. Chicken Fettuccine Alfredo - Fettuccine noodles, snow pea pods, and mushrooms tossed in an Alfredo cream sauce and topped with a grilled chicken breast and parmesan cheese – \$30.00\*
5. Cobb Salad - Iceberg topped with turkey, ham, bacon, hard cooked eggs, avocado, diced tomatoes, bleu cheese crumbles, and black olives with choice of dressing (Ranch, FF Ranch, Bleu Cheese, French, FF French, Italian FF Italian, Balsamic Vinaigrette) – \$25.00\* \*See Cost

**8:00** Presentation – Kelton D. L. Barr, Braun Intertec and E. Calvin Alexander, Jr., University of Minnesota (One professional development hour toward continuing education requirements for Professional Engineers is available).

**Cost:** Paid 2013-2014 MGS Members receive a \$5 meeting discount on the meal costs listed above. The cost to Full-time students is \$5, payable to MGS at the door.

**Reservations:** Requested by 12 Noon, Friday, October 4, 2012

Please register via the website at <http://www.mngeotechnicalsociety.com/eventsmpls.asp>.

Please print, fill out and bring the New Membership Application to the next meeting. The form is at: <http://www.mngeotechnicalsociety.com/aboutmembership.asp>

---

<b>President</b>	<b>Vice President</b>	<b>Secretary</b>	<b>Treasurer</b>	<b>Program Chair</b>	<b>ASCE Chair</b>	<b>Past President</b>	<b>Duluth Representative</b>
Kurt Heckendorf	Joel Swenson	Kyler Bender	Bill Cody	Josh Van Abel	Joe Bentler	Chad Underwood	John Allen
651-290-5411	952-832-2799	651-389-4182	763-427-4330	952-995-2310	651-603-6616	612-751-8648	512-705-5657

<http://www.mngeotechnicalsociety.com>