



# 2011 - 2012

## *December Meeting Notice*

# Minnesota Geotechnical Society

## Field Testing Comparison of Four Driven Pile Types

### Van Komurka, Wagner Komurka Geotechnical Group

To aid selection of the most-appropriate driven pile foundation for a bridge replacement project over the Mississippi River in St. Paul, the Minnesota Department of Transportation performed a design-phase test program. Four pile types were included: H-piles, pipe piles, Monotube® piles, and prestressed concrete piles. The program was designed to assess site variability, drivability, capacity, set-up, and the cost-effectiveness of alternate design solutions. Multiple restrike events characterized both rate and magnitude of set-up. Both dynamic monitoring and static load tests were employed. Cost-effectiveness was evaluated using long-term capacity profiles and representative unit prices to estimate pile support costs. Results for, and a comparison among, the four pile types will be presented.

**Date:** Wednesday, December 14, 2011

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

**Time: 6:00** Social Hour, Sponsored by L.H. Bolduc Co., Inc. and Atlas Foundation Co.

**7:00** Dinner & Dessert: 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 – Van Komurka, Wagner Komurka Geotechnical Group  
(One professional development hour toward continuing education requirements for Professional Engineers is available).

**Cost:** Paid 2011-2012 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, December 9, 2011  
Please register via the website at <http://www.mngeotechnicalsociety.com/eventsmpls.asp>

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