



# 2014-2015

## *April Meeting Notice*

# Minnesota Geotechnical Society

## Liberty University – Double Jacked Box Tunnels

**Todd Christopherson, P.E.**

The University desired a traffic connection between their athletic facilities and main campus. The two areas were separated by busy freight rail lines. Brierley Associates, as Engineer of Record, teamed with Southland Contracting and provided a fixed price, design-build solution for Liberty that allowed four lanes of vehicle traffic to be constructed under the rail traffic without shutting down the rail line.

The solution was a pair of 130 foot long, 20 foot high by 30 foot wide concrete tunnels. The concrete tunnel boxes were constructed outside the rail embankment and then jacked into place by pulling rather than a conventional pushing approach. The total project cost was \$7 million.

Since its completion last year, the project has received awards from ENR Magazine and the American Consulting Engineer Council.

**Date:** Wednesday April 8, 2015

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

**Time: 6:00** Social Hour – Sponsored by Brierley Associates

**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. Chicken Marsala - A chicken breast lightly breaded and drizzled with marsala wine sauce, mushrooms and onions– \$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, Fat Free Ranch, Bleu Cheese, French, Fat Free French, Italian, Fat Free Italian, Balsamic Vinaigrette) – \$25.00

**8:00** Presentation – Todd Christopherson, PE  
(One professional development hour toward continuing education requirements for Professional Engineers is available).

**Cost:** Paid 2014-2015 MGS Members receive a \$5 meeting discount on the meal costs listed above. The cost for full-time students is \$5, payable to MGS at the door.

**Reservations:** Requested by 12 Noon, Friday, April 3, 2015

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