



# 2016-2017

## *November Meeting Notice*

# Minnesota Geotechnical Society

### Horizontal Direction Drilling for Large Diameter Installations (< 36")

**Tom Pullen, P.E.**

This presentation will examine the engineering and planning associated with using horizontal directional drilling (HDD) for large diameter installations (>36-in). Design elements that will be discussed include subsurface conditions, layout and pipe material constraints. A unique example of a design/build approach to a 54-inch diameter HDPE force main installation used by the City of Miami Beach will be discussed. Additionally, this presentation will illustrate the need for understanding elements of HDD design and construction for smaller projects that may get overlooked during the planning phase despite being a project critical path in a large linear project.

**Date:** Wednesday November 9, 2016

**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 – \$40.00
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 – \$40.00
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 – \$35.00
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 – Tom Pullen, PE

(One professional development hour toward continuing education requirements for Professional Engineers is available).

**Cost:** 2016-2017 MGS Membership Dues are \$30.

Paid 2016-2017 MGS Members receive a \$5 meeting discount on the meal costs listed above.

The cost for full-time students is \$10, payable to MGS at the door.

**Reservations:** Requested by 12 Noon, Friday, November 4, 2016

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