



2016-2017

October Meeting Notice

Minnesota Geotechnical Society

Soil Nail Walls Used as Temporary and Permanent Earth Retention Systems

Chad Underwood, PE, PG, D.GE

Soil nail walls consist of a combination of steel reinforcing bars grouted in pre-drilled holes and a shotcrete facing. Like most earth retention systems, these walls are constructed in a top-down manner as the excavation advances vertically downward. Soil nails were first used in Europe in the 1960's for tunneling applications. The use of soil nail walls for earth retention applications date back to the 1970's in the U.S.

This presentation will cover some basic design principals associated with soil nail walls and present case histories from several local / regional projects. The case histories will illustrate various applications for the use of soil nail walls, including both temporary and permanent earth retention applications, with retained soil heights of up to 60 feet in highly developed urban settings.

Date: Wednesday October 19, 2016

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

Time: 6:00 Social Hour – Sponsored by Engineering Partners

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 – Chad Underwood, PE, PG, D.GE

(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, October 14, 2016

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