



2014-2015

May Meeting Notice

Minnesota Geotechnical Society

Thornton Composite Reservoir Project

Jonathan Bulger, PE

The city of Chicago and surrounding suburbs are served by a combined storm water and sewage system. Consequently, Chicago and the surrounding areas have continuously battled water pollution and flooding as the population has increased. To combat this issue, the Tunnel and Reservoir Plan (TARP) was initiated in the early 1970's as a means to cost-effectively manage wastewaters and comply with Federal and State water quality standards. Part of TARP project also serves to control flooding of the Chicago-land area. The projects consists of reservoirs in the surrounding areas of Calumet, McCook, and Thornton, with a network of connected tunnels. Excess inflows can be stored in the tunnels and reservoirs until the treatment plants can accommodate the storm volume. When complete in 2029, the TARP system will have an approximate storage capacity of 20.5 billion gallons.

Hayward Baker (HBI) has been subcontracted to perform work at the Thornton Reservoir Project for three separate projects. The majority of HBI's scope includes the installation of the 9,400 LF, 330 FT deep perimeter double-row grout curtain, and ring grouting of the designed tunnel plugs (Contract 04-201-4F). Additionally, HBI has been contracted to perform shaft and ring grouting as part the Connecting Tunnel and Gates Project (Contract 04-202-4F), and ring grouting for the Final Reservoir Preparation Project (Contract 04-203-4F). All three of these projects serve to mitigate water infiltration and exfiltration from the reservoir and tunnels, to the adjacent ground water.

HBI began work in the summer of 2010, and anticipates completion of the project in the summer of 2015. The work has been primarily performed by HBI's Midwest branch office, with a full dedicated site team. Throughout its duration, the Thornton project has served as a unique opportunity for HBI to develop and utilize state of the art technology and methods to advance the capabilities of the geotechnical industry.

Date: Wednesday May 13, 2015

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

Time: 6:00 Social Hour – Sponsored by Hayward Baker

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 – Jonathan Bulger, PE

President	Vice President	Secretary	Treasurer	Program Chair	ASCE Chair	Past President	Duluth Representative
Joel Swenson	Josh Van Abel	Kurt Schimpke	Bill Cody	Kyler Bender	Joe Bentler	Kurt Heckendorf	Marty Halvorson
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<http://www.mngeotechnicalsociety.com>

(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, May 8, 2015

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