



**2011 - 2012**

*April Meeting Notice*

**Minnesota Geotechnical Society**

**Grouting for Groundwater Seepage Control**

**Jon Ausdemore, Barr Engineering Co.**

The tailings basin at a trona mine near Green River, WY involves approximately 2 miles of earthen containment structures around the perimeter of the basin. There is a history of documented seepage that has occurred at two of the containment dams which has led to dam safety and environmental concerns. Previous attempts to mitigate seepage included the construction of a soil-mix cut-off wall. The soil-mix wall reduced some of the seepage through the overburden embankment material but did not extend deep enough into the underlying fractured rock. This resulted in allowing pond water to flow beneath the dams. As a result, the mine initiated a grouting program to create a cutoff under the soil-mix within the fractured rock to mitigate the safety and environmental concerns. A detailed description of the grouting program aimed at extending the cutoffs in two containment dams, including a review of the instrumentation and construction observations describing the performance of the cutoffs at each of the dams, will be presented.

**Date:** Wednesday, April 11, 2012

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

**Time: 6:00** Social Hour, Sponsored By Nicholson Construction

**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 – Jon Ausdemore, Barr Engineering Company  
(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, April 6, 2012

Please register via the website at <http://www.mngeotechnicalsociety.com/eventsmpls.asp>

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