



2012 - 2013

January Meeting Notice

Minnesota Geotechnical Society

10 MINUTES OF CHAOS: THE SUDBURY IMPACT LAYER IN THE LAKE SUPERIOR REGION

Mark Jirsa
Minnesota Geological Survey

The 1.85 billion year-old Sudbury impact structure in Ontario is the 2nd largest of 178 confirmed terrestrial impact craters (www.unb.ca/passc/ImpactDatabase). The impact origin of the Sudbury structure was debated for more than 4 decades, but is now widely accepted. Although fall-back breccia has been described in the relict crater, the more distant ejecta blanket was discovered only recently—associated with Lake Superior-type iron-formation deposits. The attributes at each ejecta locality have remarkable similarities and differences. Thus, each locality tells a slightly different part of the broader impact story. This presentation describes the Sudbury Impact Layer in the Lake Superior region, with an emphasis on exposures along Minnesota's Gunflint Trail, and speculates about sediment transport, depositional mechanisms, and paleoenvironmental consequences.

Date: Wednesday, January 9, 2013

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

Time: 6:00 Social Hour - Sponsored by Carl Bolander & Sons
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. 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 – Mark Jirsa, Minnesota Geological Survey
(One professional development hour toward continuing education requirements for Professional Engineers is available).

Cost: Paid 2012-2013 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 Noon, Monday, January 7, 2013
Please register via the website at <http://www.mngeotechnicalsociety.com/eventsmpls.asp>.
Please print, fill out and bring the New Membership Application to the next meeting. The form is at: <http://www.mngeotechnicalsociety.com/aboutmembership.asp>

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