



Third Announcement
63rd Annual Institute on Lake Superior Geology

Co-Chairs
Anthony Pace and Ann Wilson
Ontario Geological Survey

Ted Bornhorst
Michigan Technological University

Registration is Open for the 2017 Institute on Lake Superior Geology in Wawa, Ontario at the Michipicoten Memorial Community Centre from **Monday, May 8th to Friday, May 12th**

March 24, 2017: Abstracts Due

(see submittal information below)

MEETING AND FIELD TRIP REGISTRATION

ONLINE CREDIT CARD REGISTRATION:

https://secure.touchnet.net/C21042_ustores/web/store_main.jsp?STOREID=58&SINGLESTORE=true

We apologize for the format of the registration. The software vendor is resolving the issue.

(CONTACT Margaret Hanson for registration: mjhanson@mtu.edu; 906-487-2487)

Professional Meeting Registration (before April 14): \$130 (U.S.)

Professional Meeting Registration (after April 14): \$160 (U.S.)

Student Meeting Registration (before April 14): \$65 (U.S.)

Student Meeting Registration (after April 14): \$80 (U.S.)

Banquet (Wednesday May 10): \$40 (U.S.)

Registration includes program/abstract and field trip guidebook volumes, entry to May 9 evening poster session and social and morning and afternoon breaks. Refunds after April 14 will be considered on a case-by-case basis.

You must register for the meeting to be eligible to register for the field trips. Refund of field trip fee may be given after April 14 if your slot can be filled.

Field trip cost is given with the trip descriptions. Before registering for the field trips we recommend you read about the logistics as described for each of them. The maximum number of participants on field trips is capped at 20 except for Trip 5: Geology of the Renabie area which is capped at 15. Register early to avoid disappointment. We will maintain a wait list for field trips.

TENTATIVE SCHEDULE

Monday, May 8

Field Trip #1

Tuesday, May 9

Field Trips #1, #2, and #3

Evening Poster Session and Social (beginning 7 pm)

Wednesday, May 10

Technical Sessions

Evening Annual Banquet

Thursday, May 11

Technical Sessions

Friday, May 12

Field Trips #4, #5, and #6

ACCOMMODATIONS

The Wawa Motor Inn, adjacent to the meeting location at the Michipicoten Memorial Community Centre, has a block of rooms for ILSG registrants that are held until April 1, please tell them your reservation is part of the Institute on Lake Superior Geology. A list of Wawa accommodations is provided below. We recommend you reserve your accommodation as soon as you can.

CALL FOR PAPERS

Authors must submit a print-ready abstract in PDF and MS Word formats by the deadline of March 24, 2017. When submitting your abstract you must indicate your preference for an oral presentation, poster presentation, or either. Abstract specifications are provided below. **Direct abstract submittal questions to: Ted Bornhorst, tjb@mtu.edu; 906-487-2721.**

STUDENTS

Students are especially encouraged to participate in all facets of the ILSG. Travel subsidies are available for qualified students who attend the 63rd annual meeting. Applications for student travel awards are available on the ILSG website or may be requested from Margaret Hanson (mjhanson@mtu.edu). Applications must be completed and returned by **April 12, 2017** to Margaret Hanson (mjhanson@mtu.edu). In addition to the travel awards, ILSG awards cash prizes for the best student-authored presentations.

DESCRIPTION OF FIELD TRIPS

Field Trip Guidebook is provided to all meeting registrants.

Trip 1: Archean and Proterozoic Geology of the Marathon-Hemlo Area

(Monday May 8th and Tuesday May 9th, 2017)

FEE AND LOGISTICAL INFORMATION: Field Trip Registration Fee: \$340 (U.S.)

Participants are expected to arrive in Marathon via your own transportation and stay overnight at the Marathon Harbour Inn (67 Peninsula Rd, Marathon, 807-229-2121) on Sunday night. The cost of Sunday night lodging is included in the field trip fee but Sunday meals are on your own. Participants will stay in Marathon on Monday night and the cost of this lodging is also included in the field trip fee. Lunch on Monday and Tuesday is included in the field trip fee but other meals are on your own. Transportation for the field trip on Monday and Tuesday is provided and included in the field trip fee. Field trip leaves from Marathon Harbour Inn at 8 am. Maximum number of participants is capped at 20.

This two day field trip will provide participants with an overview of the geology of the Mesoproterozoic Coldwell alkaline complex and the eastern portion of the Neoarchean Schreiber-Hemlo greenstone belt. The first day of the trip will consist of a west to east transect through the Coldwell Alkaline Complex, which is the largest alkaline complex in North America. The complex consists of 3 syenitic intrusive centres which, from west to east comprise the silica-oversaturated Centre 3, the silica-undersaturated Centre 2, and the silica-saturated Centre 1. These syenitic intrusive centres are partially surrounded by the earlier, but quite evolved Border Gabbro phase which is host to the Marathon Cu-Pd-Pt deposit and several extensive zones of Fe-Ti oxides±apatite. The end of the first day will include a visit to the Marathon Cu-Pd-Pt deposit. The second day of the trip will begin near Heron Bay where we will view greenschist facies metamorphic grade Neoarchean supracrustal rocks. The trip will then proceed eastward toward the world-renowned Hemlo gold camp where the bulk of the day will be spent looking at the strongly deformed and higher metamorphic grade rocks exposed along Highway 17 adjacent to the Williams Gold Mine property. These roadside exposures include the up-dip projections of two gold-mineralized horizons.

Trip 2: More Unusual Diamond-bearing Rocks of the Wawa Area *(Tuesday May 9th, 2017)*

FEE AND LOGISTICAL INFORMATION: Field Trip Registration Fee: \$65 (U.S.)

Participants will leave (at 8 am) from and return to Wawa from the Michipicoten Memorial Community Centre. Transportation for the field trip and lunch is provided and included in the field trip fee. Maximum number of participants is capped at 20.

This field trip will be an addendum to the original field trip that we ran in 2006. It will focus on exposures of a series of foliated lamprophyre dikes and associated heterolithic breccias outcropping in Lalibert, Leclaire, Menzies and Musquash townships. The field trip guide represents a summary of information available at the time of writing and should not be considered the final analysis of these rock types. Much more research is required on these rocks. Active exploration and research is still underway on the properties included in this field guide. Given the limitations of time, the field trip will visit only some of the more accessible properties. Bear in mind that when visiting active exploration or mine properties, permission must be granted by the property owner. We will be spending time at the Leadbetter Diamond Property as well as a variety of accessible diamond outcrops along the highway. Access to many of the original outcrops has been lost due to exploration inactivity in the last few years.

Trip 3: Geology of the Wawa Gold Project (Tuesday May 9th, 2017).

FEE AND LOGISTICAL INFORMATION: Field Trip Registration Fee: \$65 (U.S.)
Participants will leave (at 8 am) from and return to Wawa from the Michipicoten Memorial Community Centre. Transportation for the field trip and lunch is provided and included in the field trip fee. Maximum number of participants is capped at 20.

This trip will provide an introduction to the geology and gold mineralization associated with Red Pine Exploration Inc.'s Wawa Gold Project, in Wawa, Ontario. The Wawa Gold Project property is situated in the central portion of the Archean Michipicoten Greenstone Belt and has hosted numerous gold mines with historic production of over 120 000 ounces of gold. To date the largest gold deposit on the property is the Surluga Deposit where the company has released a 43-101 compliant resource of 1,088,000 ounces of gold at 1.71 g/t. A large part of the property is underlain by the Archean Jubilee Stock, a high-level subvolcanic intrusion of variable composition. The structural setting on the property is complex and is characterized by numerous fractures and faults with mineralization spatially associated with major shear zones in particular the Jubilee Shear zone. The trip will examine newly exposed outcrops of the Jubilee stock exhibiting intense alteration and deformation as a result of major shearing on the property. The field trip will also consist of an overview presentation and inspection of diamond drill core.

Trip 4: Geology of the Island Gold Mine (Friday May 12th, 2017)

FEE AND LOGISTICAL INFORMATION: Field Trip Registration Fee: \$65 (U.S.)
Participants will leave (at 8 am) from and return to Wawa from the Michipicoten Memorial Community Centre. Transportation for the field trip and lunch is provided and included in the field trip fee. Maximum number of participants is capped at 20.

The Island Gold Mine is a producing gold mine operated by Richmond Mines Inc. It is located within the Goudreau-Lochalsh gold district of the Archean Michipicoten Greenstone Belt approximately 15 km from the town of Dubreuilville, Ontario. The mine has been in commercial production since 2007 and has since produced over 300 000 ounces of gold. Gold mineralization in the Goudreau-Lochalsh district is localized within 2 regionally extensive, subparallel deformation zones referred to as the Goudreau Lake Deformation Zone (GLDZ) and the Cradle Lakes Deformation Zone (CLDZ). Most of the known gold deposits are located within the GLDZ, a 4 km wide by 30 km long, east-northeast striking zone. The GLDZ is composed of numerous systematically oriented, discrete brittle, brittle-ductile and ductile shear zones. This trip will provide participants with the opportunity to observe the deformational effects of the GLDZ on the mine property along with inspecting high grade gold mineralization from recent diamond drilling on the property.

Trip 5: Geology of the Renabie Area (Friday May 12th, 2017)

FEE AND LOGISTICAL INFORMATION: Field Trip Registration Fee: \$65 (U.S.)
Participants will leave (at 8 am) from and return to Wawa from the Michipicoten Memorial Community Centre. Transportation for the field trip and lunch is provided and included in the field trip fee. Maximum number of participants is capped at 15.

This 1-day field trip will provide participants with an overview of the geology of the Renabie gold mine and surrounding area. The Renabie Mine is located within the Missinaibi Lake batholith at the northeast margin of the Michipicoten greenstone belt in the Wawa Subprovince. The day will begin at the Renabie Mine, where several stripped outcrops can be observed, showcasing the complex mineralization history hosted within the composite intrusive complex. During the second part of the day, the trip will proceed further west to look at some of the supracrustal rocks of the Michipicoten greenstone belt; these include felsic to ultramafic volcanic rocks as well as sedimentary rocks. The trip will conclude at the Pileggi outcrop, a gold occurrence hosted within quartz veins in the Michipicoten greenstone belt.

Trip 6:

Kapuskasing Structural Zone and Borden Lake Gold Deposit (*Friday May 12th, 2017*).

FEE AND LOGISTICAL INFORMATION: Field Trip Registration Fee: \$185 (U.S.)

Participants are expected to find their own transportation from Wawa to Chapleau on Thursday after technical sessions end; meals are on your own. The cost of overnight in Chapleau at the Aux Trois Moulins (154 Martel Rd, Chapleau, 705-864-1313) on Thursday night is included in the field trip fee.

Transportation and lunch for the field trip on Friday is provided and included in the field trip fee. NOTE: The field trip leaves on Friday morning at 8 am. The trip ends on Friday about 5 to 6 pm in Chapleau at the motel, but participants must arrange their own for lodging and meals for Friday night. Maximum number of participants is capped at 20.

The Kapuskasing Structural Zone comprises northeast-striking, northwest-dipping belts of paragneiss, mafic gneiss, gneissic and xenolithic tonalite and rocks of the Shawmere anorthosite complex. Depending on the exploration, taking place at Borden Lake, we may get a half-day field trip or a core-viewing. With the discovery of the Borden Lake deposit, the structure is attracting attention as an underexplored region that has not revealed all its secrets. The field trip will present the nature of this crustal anomaly, and how it can be explained.

WAWA ACCOMODATIONS

Wawa Motor Inn, 118 Mission Road, Wawa (adjacent to Michipicoten Memorial Community Centre)
Open year round, reservations call 800-561-2278
Phone: 705-856-2278
Email: wawamotorinn@shawbiz.ca
Website: www.wawamotorin.com
Block of rooms reserved until April 1 for Institute on Lake Superior Geology
\$94 single occupancy; \$109 double occupancy

Algoma Motel, 164 Mission Road, Wawa
Open year round 7 am to 11 pm
Phone: 705-856-7010
Email: reservations@algomamotel.com
Website: www.algomamotel.com

Beaver Motel, 148 Mission Road, Wawa
Open 7 days per week, reservations call 866-819-4286
Phone: 705-856-2294
Email: reservations@beavermotel.com
Website: www.beavermotel.com

Best Northern Motel and Restaurant, Highway 17 S,
Wawa
Open April 15 to December 15, reservations call
800-434-8240
Phone: 705-856-7302
Email: bestnorthern@shaw.ca
Website: www.bestnorthern.ca

Bristol Motel, 170 Mission Road, Wawa
Open 24-7, reservations call 866-481-9826
Phone: 705-856-2385
Email: info@bristolmotel.com
Website: www.bristolmotel.com

High Falls Motel & Cabins, Highway 17 S, Wawa
Open April to Nov, reservations call 888-856-4490
Phone: 705-856-4496
Email: annzen@shaw.ca
Website: www.highfallsmotel.com

Lakeview Hotel, 24 Broadway Ave, Wawa
Open 24-7
Phone: 705-856-2625
Email: lakeviewhotel@shawbiz.ca

Mystic Isle Motel, Highway 17 S, Wawa
Open April to November
Phone: 705-856-1737
Email: mysticisle@mysticisle.com
Website: www.mysticisle.com

Parkway Motel, 232 Highway 17, Wawa
Open year round, reservations call 800-380-1525
Phone: 705-856-7020
Email: stay@parkwaymotel.com
Website: www.parkway.com

Sportsman's Motel, 171 Mission Road Wawa
Open year round
Phone: 705-856-2272
Email: thesportsmanmotel@gmail.com
Website: www.sportsmanmotelwawa.com

White Fang Motel, 133 Highway 17 S, Wawa
Open April to December, reservations call 877-399-2672
Phone: 705-856-0344
Email: whitefangmotel@shawbiz.ca
Website: www.whitefangmotel.com

ABSTRACT GUIDELINES

Abstract Submission Deadline: March 24, 2017

All abstracts will be reviewed for content.

Specifications include:

- A. Limit of two pages (8½" x 11") including illustrations and references
- B. Use left, top, and right margins of 1" and bottom margin of 1.3"
- C. Times New Roman with sizes as described below.
- D. Follow ILSG Format (see recent Proceeding Volumes online as guideline)

TITLE: **Times New Roman 12 point font BOLD** following the "ILSG title" style

SURNAME in caps, First name (*use the "ILSG author" style*), **SECOND AUTHOR, first name, THIRD AUTHOR, first name**

Address *Times New Roman Italics 11 point font* (*use the "ILSG affiliation" style*)

Example:

Geochemistry and petrology of Midcontinent Rift-related intrusive rocks of the Sibley Peninsula, Ontario

CARL, Christian¹, HOLLINGS, Peter¹, and SMYK, Mark²

¹*Department of Geology, Lakehead University, 955 Oliver Road Thunder Bay, ON P7B 5E1 Canada*

²*Ontario Geological Survey, Ministry of Northern Development, Mines and Forestry, Suite B002, 435 James St. South Thunder Bay, ON P7E 6S7 Canada*

ABSTRACT TEXT **Times New Roman 12 point font**

Use the "ILSG Main text" style. Figures should be inserted in the text in the appropriate place.

FIGURE CAPTIONS.

Figure 1: Figure captions should be **Times New Roman 11 point** and placed under the figure. Use the "*ILSG Figure caption*" style

The abstract volume will be printed in black and white, although the PDF of the volume will be in color, so you should insure your color figures reasonably reproduce in black and white. Text should be single spaced

REFERENCES: **Times New Roman 11 point font** using the "ILSG References" style.

Example:

Hollings, P., Hart, T., Richardson, A., and MacDonald, C., 2007. Geochemistry of the Midproterozoic intrusive rocks of the Nipigon Embayment, Northwestern Ontario. *Canadian Journal of Earth Sciences*, 44: 1087-1110.

Maximum of two pages of text, figures, and references!