



Mineralogical Association of Canada

www.mineralogicalassociation.ca

UPCOMING GAC-MAC-IAH JOINT MEETING

Where Geosciences Converge

12–15 May 2019

Québec City, QC, Canada

The Geological Association of Canada (GAC®), the Mineralogical Association of Canada (MAC) and the Canadian National Chapter of the International Association of Hydrogeologists (IAH-CNC) invite geoscientists to their joint annual meeting in Québec City. Participants will have the opportunity to visit and discover the warmth and charms of Québec and explore not only the historic district of the city, Old Québec, which is a UNESCO World Heritage site, but also the many attractive natural sites in the wider region. These include outcrops representing the convergence of three geological regions: the Appalachian Orogenic belt, the St. Lawrence Platform and the Grenville Province. The conference's title is "Where Geosciences Converge", which is a signal that the conference aims to promote collaboration and to stimulate discussion among geoscientists during the symposia, special sessions, short courses and field trips under the umbrella of four multi-disciplinary themes:

- Geosystems and Hydrogeosystems
- Resources, Energy and Environment
- Geosciences and Society
- Big Data for Geosciences
- General Sessions, including:
 - Mineralogy and crystallography
 - Igneous and metamorphic petrology

- Sedimentology, stratigraphy and paleontology
- Geophysics
- Structural geology and tectonics
- General hydrogeology
- Glacial geology and geomorphology in Canada.

Field Trips Summary

PRE-MEETING ONE-DAY

"UPPER ORDOVICIAN SUCCESSION IN THE QUÉBEC CITY AREA: TRANSITION FROM CARBONATE TO CLASTIC FORELANDS"
Denis Lavoie (Geological Survey of Canada, Québec).

"CHAMPLAIN SEA DELTAS AND THE ST-NARCISSE MORAINÉ IN THE PORTNEUF AND MAURICIE REGIONS OF SOUTHERN QUÉBEC: 3-D STRATIGRAPHIC MODELING AND REGIONAL AQUIFER SYSTEMS"

Michel Parent (Geological Survey of Canada), René Lefebvre (Institut national de la recherche scientifique, Québec, Canada), Yves Leblanc (Richelieu Hydrogéologie Inc, Canada), Guillaume Légaré-Couture (INRS), Yves Michaud (Geological Survey of Canada).

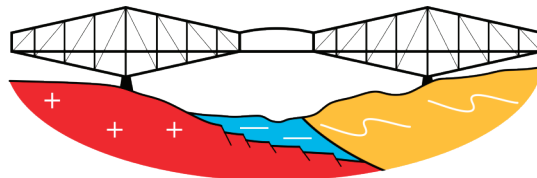
"THE CHARLEVOIX IMPACT STRUCTURE AND SEISMIC ZONE"
Léopold Nadeau (Geological Survey of Canada, Québec, retired) and Gordon Osinski (University of Western Ontario, Canada).

"QUÉBEC, A FORTIFIED CITY: GEOLOGICAL AND HISTORICAL HERITAGE"

Sébastien Castonguay (Geological Survey of Canada, Québec) and Parks Canada.

AGC-AMC-AIH
QUÉBEC 2019

Dù les géosciences convergent



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QUÉBEC 2019

Where geosciences converge

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The Geological Association of Canada (GAC®), the Mineralogical Association of Canada (MAC) and the Canadian National Chapter of the International Association of Hydrogeologists (IAH-CNC) are currently preparing the GAC-MAC-IAH/CNC 2019 conference, and invite you to mark these dates in your agenda: **12–15 May 2019**.

Registration opens March 1, Early Bird rates end April 14

Registration details and information on plenary talks, symposia, special and general sessions, short courses, and field trips, outreach and social events are available at gacmacquebec2019.ca. We invite geoscientists to our joint annual meeting in historic Québec, a UNESCO World-Heritage site. Participants will have the opportunity to visit and discover the warmth and charms of Québec and explore its many attractive natural sites.



MINERALOGICAL
ASSOCIATION OF CANADA
ASSOCIATION
MINÉRALOGIQUE DU CANADA



International Association
of Hydrogeologists
Association internationale
des hydrogéologues

PRE-MEETING THREE-DAY

“GEOHERITAGE OF THE GASPE PENINSULA: EXAMPLES OF THE PERCÉ UNESCO GLOBAL GEOPARK AND THE MIGUASHA WORLD HERITAGE SITE”

Pierre Verpaelst (Comité national canadien pour les Géoparcs, Québec) and André Desrochers (University of Ottawa, Canada).

POST-MEETING ONE-DAY

“IMPACT OF AN IRREGULAR MARGIN ON THE SEDIMENTARY EVOLUTION OF A NARROW SHELF-SLOPE ENVIRONMENT (QUÉBEC CITY AREA)”

Pierre A Cousineau (Université du Québec à Chicoutimi, Canada) and Hugues Longuépée (Champion Iron Ltd, Canada).

POST-MEETING TWO-DAY

“THE THETFORD MINES OPHIOLITE AND ITS OROGENIC CONTEXT”

Jean Bédard (Geological Survey of Canada, Québec) and Alain Tremblay (Université du Québec à Montréal, Canada).

POST-MEETING THREE-DAY

“GEOHERITAGE IN DEVELOPMENT: THE CHARLEVOIX ASTROBLEME AND SAGUENAY FJORD ASPIRING GEOPARKS”
Pierre Verpaelst (Canadian National Committee for Geoparks) and André Desrochers (University of Ottawa, Canada).

“MAGNETITE–APATITE (MTAP) DEPOSITS AND RELATED ROCKS IN THE ADIRONDACK MOUNTAINS, NEW YORK STATE”

John M. Hanchar (Memorial University of Newfoundland, Canada), Marian Lupulescu (New York State Museum, USA), and Jeff Chiarenzelli (St. Lawrence University, USA).

Short Courses Summary**PRE-MEETING ONE-DAY**

GEOSCIENCES AND SOCIETY: A TEACHING WORKSHOP

Anne-Marie Ryan (Dalhousie University, Earth Sciences, Canada), Charly Bank (University of Toronto, Canada).

INTRODUCTION TO DATA SCIENCE FOR GEOLOGISTS

M. Blouin (GeoLearn, USA), L. Perozzi (GeoLearn, USA), J. Simon (Geolearn, USA), M. Claproud (Centre Eau Terre Environnement, Institut national de la recherche scientifique, Canada).

INDICATOR MINERAL EXPLORATION METHODS

G. Beaudoin (Université Laval), S. Makvandi (Corem, Québec).

CRITICAL THINKING IN AQUIFER TEST INTERPRETATION

Christopher J. Neville (Chief Hydrogeologist, S.S. Papadopoulos & Associates, Inc., Maryland, USA)

PRE-MEETING TWO-DAY

SCALING PREDICTIONS OF MINE WASTE GEOCHEMISTRY WITH REACTIVE TRANSPORT MODELLING

Richard Amos (Carleton University, Ontario, Canada), David Blowes (University of Waterloo, Ontario, Canada), David Wilson (University of Waterloo).

INTRODUCTION TO RESERVOIR GEOMECHANICS

E. Konstantinovskaya (University of Alberta, Canada).

ORE SYSTEMS WITH IOA, IOCG, ALBITITE-HOSTED U AND AFFILIATED DEPOSITS

L. Corriveau (Commission géologique du Canada, Québec), E. Potter (Commission géologique du Canada, Ottawa), D. Harlov (GeoForschungsZentrum, Potsdam, Germany), X.-F. Zhao (China University of Geosciences).

AN INTRODUCTION TO APPLIED GROUNDWATER MODELING USING VISUAL MODFLOW FLEX

Brayden McNeill (Waterloo Hydrogeologic, Ontario, Canada).

MID-MEETING ONE-DAY

HOW TO DEVELOP AND PROMOTE GEOHERITAGE WITH EXAMPLES OF UNESCO WORLD HERITAGE SITES AND GEOPARKS
André Desrochers (University of Ottawa, Canada), Pierre Verpaelst (Comité national canadien pour les Géoparcs, Québec).

POST-MEETING ONE-DAY

GEO- AND THERMOCHRONOLOGY METHODS AND APPLICATIONS

E. Enkelmann (University of Calgary, Canada), William Matthews (University of Calgary, Canada).

LASER ABLATION APPLIED TO ORE DEPOSIT

S.-J. Barnes, P. Bédard, S. Dare, C. Duran, D. Savard [all Université du Québec à Chicoutimi, Québec, Canada].

UNDETERMINED DATE ONE-DAY

ISOTOPES APPLIED TO GEOTHERMAL RESOURCES

Daniele L. Pinti (GEOTOP, Université du Québec à Montréal, Canada), Orfan Shouakar-Stash (University of Waterloo, Canada).

I hope this assortment of field trips and short courses will appeal to the broad geoscientific community and that you will visit Québec for GAC–MAC–IAH 2019. For full details on the technical program, travel and accommodation information visit: gacmac-quebec2019.ca.

\$5000

Scholarships



Mineralogical Association of Canada
Association minéralogique du Canada

The Mineralogical Association of Canada will award two \$5000 scholarships to graduate students, one to a student enrolled in an MSc program and one to a student in a PhD program. The applicable fields of study are:

- Mineralogy
- Crystallography
- Geochemistry
- Mineral Deposits
- Petrology

Deadline to apply: May 1, 2019

Eligibility

- 1 Students entering the second year of an MSc program or the second or third year of a PhD program at a Canadian university in September 2019.
- 2 Canadian citizens enrolled in the above or equivalent programs at **any** university.

For more information, contact the business office:
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 490 de la Couronne
 Québec, Qc G1K 9A9, Canada
office@mineralogicalassociation.ca

Application form available at www.mineralogicalassociation.ca