

Monday, February 17th, 2020

Special Session (Celestial Gallery): Tectonics and Mineral Potential of Proterozoic Orogenic Belts

- 9:00 Welcome and opening remarks (*J. Butler*)
- 9:05 Introduction to the special session (*A. Westhues*)
- 9:20 **The Pinwarian-age Laurentian Margin and the Architecture of the Central Grenville Province**
A. Indares and P.-A. Groulier
- 9:40 **Varied Sources of Late-orogenic Magmatism in the Grenvillian Hinterland: Chemical Signature of Intracontinental Subduction and Implications**
B. Maity, G. Layne, and F. Longstaffe
- 10:00 **Geothermobarometry and ⁴⁰Ar/³⁹Ar Incremental Release Dating in the Sandwich Bay area, Grenville Province, eastern Labrador**
T. van Nostrand
- 10:20 **Refreshment Break**
- 10:40 **Structural, Lithological and Geochronological Constraints on the Initial Cycle of Amalgamation of the Great Paleoproterozoic Accretionary Orogen (1.9–1.8 Ga): Insight from the Makkovik Province, Labrador**
A.M. Hinchey
- 11:00 **The Central Mineral Belt, Labrador: 800 Ma of Metallogeny Defined by Re-Os Molybdenite Dates**
D.H.C. Wilton and D. Selby
- 11:20 **Uranium Potential within Proterozoic Rocks of the Eastern Central Mineral Belt of Labrador: A Comparison of the 1980s to the 2020s**
G. Sparkes
- 11:40 **Poster Session (Celestial Gallery)**
- 12:30 **Lunch (Quidi Vidi Room, tickets required)**

- 1:30 **The Mineral Potential of the Labrador Trough for Iron Oxide-Copper-Gold (IOCG) and Affiliated Deposits**
J. Conliffe, L. Corriveau, J.-F. Montreuil, and O. Blein
- 1:50 **New Insights into ca. 1.88 Ga Ocean Redox Conditions from the Sokoman Iron Formation, Labrador Trough**
G.P. Sindol, M.G. Babechuk, and J. Conliffe
- 2:10 **Avalonia in the Northern Appalachian Orogen: A Mainland Perspective**
S.M. Barr, C.E. White, M.D. Thompson, S.C. Johnson, and C.R. van Staal
- 2:30 **Refreshment Break/GAC NL Business Meeting**
- 7:00 **Public Lecture**

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General Session (Celestial Gallery)

- 9:00 **Paleomagnetic Evidence for Post-Carboniferous Counter-clockwise Rotation of Meguma Terrane**
P.J.A. McCausland
- 9:20 **Paleolatitude of the Devonian Fountain Lake Group Volcanics, Cobequid Highlands, Nova Scotia, as a New Constraint on Laurentia Paleogeography**
K.I. Brooks, P.J.A. McCausland, and J.W.F. Waldron
- 9:40 **Metamorphic History Inferred by Microstructures of Aluminous Lower Crustal Xenoliths from the Mojave Desert, California**
K.E. Costello, A. Indares, and J.M. Hanchar
- 10:00 **Investigating the Role of Iberia and its Interplay with the Newfoundland and Irish Offshore Margins using Plate Reconstructions**
M. King and J.K. Welford
- 10:20 **Refreshment Break**
- 10:40 **Ground Penetrating Radar over the Abandoned Gullbridge Mine Tailings Dam, Central Newfoundland**
A. Blagdon and A.M. Leitch

- 11:00 **Geothermal Energy in Canada: The Basics**
A.M. Leitch and F.T. Turanlı
- 11:20 **Applications of Machine Learning to Seismic Facies Classification**
M.W. Dunham, A. Malcolm, and J.K. Welford
- 11:40 **Optimizing the CO₂ Sequestration Rate of Ultramafic Rocks of the Tablelands, NL, Canada**
B.J.H. Taylor, M. McRae, S. Emberley, and P.L. Morrill
- 12:30 **Lunch (Quidi Vidi Room, tickets required)**
- 1:30 **Assessing the Growth Rates and the Fate of Metals during the Formation of VMS Deposits: A Case Study from the Lucky Strike Vent Field, Mid-Atlantic Ridge**
D. Sánchez Morra
- 1:50 **A Missing Link Between Active and Ancient Seafloor Hydrothermal Systems? Magmatic Volatile Influx in Mafic VMS: the Exceptionally Preserved Mala VMS, Troodos, Cyprus**
A.J. Martin, J.W. Jamieson, I. McDonald, K.A. McFall, A.J. Boyce, G.R.T. Jenkin, and C.J. MacLeod
- 2:10 **Unraveling Cryptic Signatures in Fine-grained Sediments from Parts of Southeastern Nigeria: A Geochemical Approach**
B. Overare and K. Azmy
- 2:30 **Discovery Global Geopark: a North American Candidate for UNESCO Global Geopark Designation on the Bonavista Peninsula, Canada**
A.C. McCallum, and A.M. Hinchey
- 5:00 **Happy Hour/Pub Night**