



Mineralogical Association of Canada

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Joint Usage/Research Center, he was involved in numerous scientific research exchanges and academic cooperation programs that included many visiting overseas scholars and student intern participants. Prof. Tsujimori was named a 2013 Mineralogical Society of America Fellow and a 2014 Geological Society of America Fellow as a result of his valuable contributions to the field metamorphic petrology. His ongoing research into lawsonite eclogites and jadeitites has had a significant influence on the geoscience community. Most notably, his research has led, in part, to the designation by JAMS of jadeitite as the national stone of Japan. Currently, Prof. Tsujimori is the Editor-in-Chief of the journal *Island Arc* and sits on the editorial boards of several scientific journals.

MANJIRO WATANABE AWARD TO TADATO MIZOTA



Tadato Mizota received his doctor of science degree in 1977 from Tohoku University; his thesis title was, "The Transformation of Cubanite". The research theme of cubanite (CuFe_2S_3) had been first suggested by Prof. Nobuo Morimoto while Mizota was at Osaka University, but the research was only completed when Mizota became a lecturer at Yamaguchi University, being supervised there by Prof. Ichiro Sunagawa of Tohoku University.

His research interests cover three categories. The first is of the X-ray crystal structure analysis of minerals. He, along with Dr. Masayuki Komatsu and Prof. Kazuya Chihara, found the new mineral ohmilite at Ohmi (Niigata Prefecture, Japan) and they determined and refined the crystal structure by means of X-ray diffraction. The second area of research is the calorimetry of minerals. Mizota made an original adiabatic calorimeter for measuring heat capacity at temperatures from room temperature to 600 °C. The heat capacity associated with a thermal anomaly around the irreversible phase transition of cubanite was thereby clarified. The third interest is in developing an adiabatic hydration calorimeter and a zeolite heat-pump. So-called zeolitic water is generally considered to be in an energetic state, analogous to the states between free water and ice. Mizota developed an adiabatic hydration calorimeter and clarified that the entropy values of zeolitic water are extremely low compared to such values of water at temperatures near 0 K. He applied this phenomena to develop a "zeolite heat-pump" and succeeded in making ice by using heat sources in the temperature range between 25 °C and 100 °C.

After retiring, he has been working as a volunteer member in three organizations: the Ube Network for Climate Change Actions; the non-profit company Civic Cooperate Power-Generation Ube; and the Ube Boys and Girls Invention Club.

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Original Articles

Crystal structure refinement and crystal chemistry of parasymplesite and vivianite – Hidetomo HONGU, Akira YOSHIASA, Ginga KITAHARA, Yumiko MIYANO, Karin HAN, Koichi MOMMA, Ritsuro MIYAWAKI, Makoto TOKUDA, Kazumasa SUGIYAMA

SiO_4 network structure changes and crystallization of diatom shells in diatomaceous earth by heat treatment – Naoya SASAKI, Akane ARASUNA, Masayuki OKUNO

Synthesis of transparent polycrystalline jadeite under high pressure and temperature – Keisuke MITSU, Tetsuo IRIFUNE, Hiroaki OHFUJI, Akihiro YAMADA

Study on magnetite oxidation using synchrotron X-ray diffraction and X-ray absorption spectroscopy: vacancy ordering transition in maghemite ($\gamma\text{-Fe}_2\text{O}_3$) – Ibuki KINEBUCHI, Atsushi KYONO

U–Pb geochronology, REE and trace element geochemistry of zircon from El Fereyid monzogranite, south Eastern Desert, Egypt – Sergey G. SKUBLOV, Ahmed E. ABDEL GAWAD, Ekaterina V. LEVASHOVA, Mohamed M. GHONEIM

A WARM WELCOME TO OUR NEW COUNCIL MEMBERS

Treasurer

The Mineralogical Association of Canada (MAC) Executive has approved the nomination of the following candidate for the treasurer position. As no additional nominations were received from the membership, the nominated candidate was declared elected by acclamation.

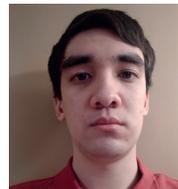


Mr. Rémy Poulin (LabMaTer at l'Université du Québec à Chicoutimi)

Rémy is currently the laboratory manager of LabMaTer at the Université du Québec à Chicoutimi (Canada). He obtained his BSc with Honours in geology from the University of Ottawa (Canada), followed by an Earth sciences MSc from Laurentian University (2016) in the field of applied mineralogy. From 2017 to 2021, he was a sessional lecturer and research scientist at the Harquail School of Earth Sciences (Laurentian University, Canada) where he taught mineralogy, geochemistry, and supervised undergraduate theses. Mr. Poulin is an applied mineralogist and has been involved in numerous projects, focusing on the development of analytical methods (trace elements, cathodoluminescence) and the application of mineral chemistry to investigate complex geologic processes in a wide variety of earth systems. Recently, Mr. Poulin has published a series of articles in *The Canadian Mineralogist* and was the recipient of the 2018 Hawley Medal for his work on scheelite ("Assessing scheelite as an ore-deposit discriminator using its trace-element and REE chemistry"). In addition, Mr. Poulin is an active member of the geological community and has been a reviewer of many submissions to various journals (e.g., *Ore-Geology Reviews*, *American Mineralogist*, and *Geochemistry: Exploration, Environment, Analysis*). Within the MAC framework, he has been the Financial Chair (2018–2020), is the Chair of the Student Travel Grants and Awards, and is Chair of the MAC Scholarship Committee. He has also served as a member on various other committees, including those for the Hawley Medal, Berry Medal, and Pinch Medal.

Financial Chair

The MAC Executive appointed the following candidate for the position of Financial Chair.



Mr. David McDonald (Canada Revenue Agency)

David is currently an Assessments, Accounts and Benefits Processing Officer with the Canada Revenue Agency. He graduated Cum Laude with a BA in economics from Laurentian University in 2019. His specialisation was applied economic theory, culminating in an undergraduate thesis under the supervision of Dr. David Leadbeater. This work, entitled "Examination of Employee and Salary Structures at Laurentian University: A Case Study Regarding the Rise of Corporate Managerialism in Ontario Public Universities" examined salary stratification between administration and faculty, as well as the negative effects of inflation and other systemic issues regarding faculty salaries, workloads, and remuneration systems. He began his work as a tax officer in 2017, where he analysed, verified, and processed reassessments related to the T1 general return. After becoming a senior processing officer for complex cases in late 2017, he specialised in bankruptcies, foreign tax treaties, complex capital gains, as well as separation/divorce agreements. With an exhaustive knowledge of the Income Tax Act, as well as federal and provincial tax legislation, he opened a financial services company, with a focus on retirement planning and targeted investment strategies for middle-class individuals. He then accepted a position as the Collection Support Unit Manager for the Central Region on behalf of Statistics Canada's 2021 Census. As the Collection Support Unit Manager, he managed

and coordinated 300 staff in various functions. His purview included budgetary, operational, and staffing risks and requirements related to the execution of the Census' support functions.

MAC TRAVEL AND RESEARCH GRANT AWARD DELAYED BY COVID-19

The Mineralogical Association of Canada awarded the student travel and research grants in 2019 but the project was postponed to 2021 due to the pandemic situation. Congratulations to Malcolm Hodgskiss, a deserving student! Excerpts of his report follows.



Malcolm Hodgskiss is a recent PhD graduate from Stanford University (California, USA) and was supervised by Dr Erik Sperling. Support from the MAC allowed Malcolm to carry out four weeks of field research on sedimentary carbonates of the Paleoproterozoic Mistassini Group in northern Quebec, with the assistance of Max Lechte and Maggie Whelan (McGill University, Canada). This

project will combine field observations and stable isotope ratio analyses to better understand the Earth system ~2.05–1.80 Ga and will complement the field/geochemical work Malcolm carried out in other similarly aged successions during his PhD, including the Belcher Group, Nastapoka Group, Labrador Trough (all in Canada), and the Peräpohja Schist Belt (Finland). Understanding this time interval is important because it records the tail end of Earth's largest carbon isotope excursion, the initial assembly of Earth's first supercontinent, and one of the last major episodes of iron formation deposition. Special thanks are also given to the Cree Nation of Mistassini for permission to carry out this work on their ancestral lands. This work was planned to have been part of Malcolm's PhD thesis but had to be delayed due to COVID-19.

HALIFAX 2022 GAC-MAC-IAH-CNC-CSPG JOINT MEETING

15–18 May 2022

Halifax Convention Centre, in Halifax
(Nova Scotia, Canada)

*"Riding the Waves of Change" /
"Surfer sur la vague du changement"*

Join us in Halifax from 15 to 18 May 2022 for the Annual Meeting of the Geological Association of Canada (GAC), Mineralogical Association of Canada (MAC), the International Association of Hydrogeologists – Canadian National Committee (IAH–CNC), and the Canadian Society of Petroleum Geologists (CSPG). This meeting coincides with the 50th anniversary of the Atlantic Geoscience Society, the conference host organization. The conference promises a diverse program, including symposia and special sessions, field trips, and short courses related to a wide variety of geoscience disciplines in a hybrid format with in-person and virtual components.

Abstract Submissions: November 2021 to January 2022. The deadline for abstracts will be **Friday, 28 January 2022**. Get more info or submit your abstract at halifax2022.atlanticgeosciencesociety.ca

See you in Halifax!



UNDERGRADUATE AWARDS 2020–2021

The Mineralogical Association of Canada Undergraduate Student Awards are given annually to undergraduate students (2nd year of study or higher) at a recognized Canadian university or institute of higher education for excellence in one of the specialties supported by the society: mineralogy, crystallography, geochemistry, petrology, or mineral deposits. Congratulations to the following students who received this award in 2020–2021:

Kevin Bossé (University of British Columbia)
Faith V. Crawley (University of Windsor)
Emily Darling (Queen's University)
Leah S. Davis-Purcell (Western University)
Erin Hilliard (Dalhousie University)
Thomasina M. Kastendieck (University of Alberta)
Michael T. LeBlanc (St. Francis Xavier University)
Nathan Alexander Logan (University of British Columbia, Okanagan)
Nickolas Mesich (University of Waterloo)
Nicholas O. Montenegro (University of Regina)
Rowan Perrott (Laurentian University)
Brayden M. Peterson (University of Victoria)
Timo Sanders Saint (Mary's University)
Emilie Saucier (McGill University)
Zivi R. Schaffer (Trent University)
Brett Skalicky (University of Calgary)
Jessica Tomacic (Carleton University)
Eleanor Winger (Lakehead University)
Gina L. Yockell (Brock University)

MAC AWARDS – CALL FOR NOMINATIONS

Peacock Medal

The Peacock Medal is awarded to a scientist who has made outstanding contributions to the mineralogical sciences in Canada. There is no restriction regarding nationality or residency. The medal recognizes the breadth and universality of the awardee's contributions to mineralogy, applied mineralogy, petrology, crystallography, geochemistry, or the study of mineral deposits

Young Scientist Award

This award is given to a young scientist who has made a significant international research contribution during the early part of their developing scientific career. The scientist will have received his/her PhD not more than 15 years before the award. He or she must be a Canadian working anywhere in the world or a scientist of any nationality working in Canada. The research areas include mineralogy, crystallography, petrology, geochemistry, mineral deposits, or related fields of study.

Leonard G. Berry Medal

The Leonard G. Berry Medal is awarded annually for distinguished service to the association. The award recognizes significant service to the association in one or more areas that may include leadership or long-term service in an elected or appointed office or an important contribution(s) that enhances the mineral sciences in Canada or broadens the Canadian mineralogical perspective. The medal is named after Leonard G. Berry (1914–1982), a founding member of MAC, editor for 25 years of *The Canadian Mineralogist* and its predecessor, and first winner of MAC's Past-Presidents' (now Peacock) Medal.

Nominations for the 2022 medals and award are to be submitted to **Andrew M. McDonald** (Harquail School of Earth Sciences, Laurentian University, Sudbury, ON P3E 2C6, CANADA); E-mail: amcdonald@laurentian.ca

Check our website, www.mineralogicalassociation.ca, for additional details.