

Short courses on "Low-temperature thermochronology", organized by M. Zentilli and P.H. Reynolds for Wolfville'92, and "Experiments at high pressures and applications to the Earth's Mantle" organized by R.W. Luth for Edmonton'93, were approved. The 1992 Annual Meeting will be held on May 25-28th, 1992, at Acadia University, Wolfville, Nova Scotia, with S.M. Barr representing MAC as Vice-Chair, and D.J.W. Piper as Chair. G. Roberts is Vice-Chair, with A. Morgan as Chair, for the 1994 meeting scheduled for Waterloo University. Complete minutes of the Annual Business Meeting and the MAC Council Meeting may be obtained from the Secretary.

G.M. LeCheminant,
Secretary

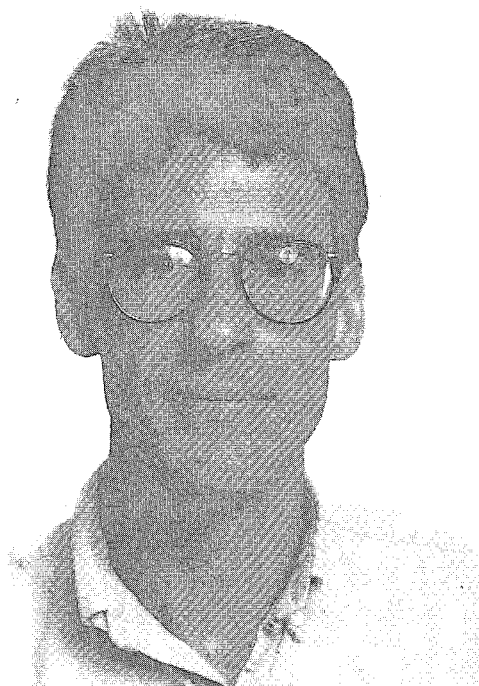
THE HAWLEY MEDAL FOR 1991 TO DANIEL J. KONTAK

Members of the Association, Ladies and Gentlemen, the Hawley Medal is presented annually to the authors of the paper judged to be the best of those published in the previous year's volume of *The Canadian Mineralogist*. This year, it is my pleasure to present the medal to Daniel J. Kontak, of the Nova Scotia Department of Mines and Energy, for his paper: "The East Kemptville topaz-muscovite leucogranite, Nova Scotia. I. Geological setting and whole-rock geochemistry" (volume 28, pages 787-825).

The East Kemptville tin-copper-zinc-silver deposit is of considerable importance as the only primary producer of tin in North America. This deposit is hosted by a topaz-bearing leucogranite that is associated with the South Mountain Batholith. The work reported in this paper constitutes an exceptionally detailed mineralogical, petrological, geological and geochemical study of this leucogranite, throwing light on the origin of an important tin deposit and addressing basic processes of anatexis and melt transport in the lower crust. The paper is a model of clarity, clearly setting out evidence and alternative arguments in the context of fundamental problems of petrogenesis. Dan concludes that the leucogranite crystallized from a water-undersaturated melt, which was followed by subsolidus modification and minor metasomatism, and that the melt resulted from fractional crystallization of a parent melt produced by crustal anatexis involving incongruent melting of F-rich biotite.

Ed Hawley was a major figure in the study of Canadian ore deposits earlier this century. It is particularly appropriate that this year's Hawley Medal be awarded for the kind of work that characterized Ed Hawley's career.

Frank C. Hawthorne
President



DANIEL J. KONTAK

Dear colleagues and friends,

The Mineralogical Association of Canada has elected to honor me today with the Hawley Medal for my contribution to *The Canadian Mineralogist*, describing the East Kemptville muscovite-topaz leucogranite. I accept this award with a great deal of appreciation and sincerity, particularly because of the respect I have for the Journal and its editor, Robert F. Martin, but also because of my close ties to Queen's University, where Professor Hawley

spent much of his professional life. The Hawley Medal has been awarded to many illustrious geoscientists; to be asked to join this exclusive club is an honor that humbles me. Thus forgive me if I say that while I am most appreciative of the recognition, I accept it with a certain feeling of inadequacy. In addition, it is a great honor to be singled out from so many high-quality contributions that appear annually in *The Canadian Mineralogist*.

One of the great benefits of receiving this award is that it permits me the opportunity to acknowledge the efforts of colleagues and friends who have been instrumental, if not responsible, for my award; I say this not out of precedent, but with sincerity and appreciation. I am fully aware of the fortunate experiences of association that have blessed me over the years and realize that without such support, I would not be standing here today. I received a very sound training in the fundamentals of geology at St. Francis Xavier University in Nova Scotia, where dedication to undergraduate teaching was and still remains the top priority. My M.Sc. was done at the University of Alberta, where supervisors Roger Morton and Bud Baadsgaard introduced me to the marvels of high technology and its role in the geosciences, particularly economic geology. However, they always stressed the importance of first understanding field relationships before hopping into the laboratory and playing with black boxes. I have never forgotten these wise words. My choice to pursue doctoral studies at Queen's University was, in hindsight, one of the best career decisions I have ever made. It was there that I spent five glorious years with the most inspirational, talented and varied assortment of professors and students I have ever met; before leaving, I met and married my lovely and forever supporting wife Lynn. It was also at Queen's that I fell under the tutelage of Professors Alan Clark and Ed Farrar and to whom I owe so much. They provided a ripe and healthy environment to learn, a great thesis area in the high Andes of Peru, collaboration, freedom to follow digressions to their sometimes perilous end, friendship and unending support. Before leaving Queen's, I was fortunate to meet Richard P. Taylor, Robert F. Martin and Michel Pichavant, and to benefit from their varied experiences in studying the petrogenesis of felsic suites, particularly those related to Sn-W mineralization. A brief postdoctoral stint at Memorial University allowed me the opportunity to finally work with Dave Strong, a person I had admired for many years and had always wanted to work with because of his keen interest in granitic suites and related mineralization. Through Dave I was introduced to Robert Kerrich, who was in

subsequent years to provide the facilities and support to examine the stable isotope systematics of rocks of the South Mountain Batholith and East Kemptville deposit.

Following my stay at Memorial University, I moved to the Nova Scotia Department of Mines and Energy, and this is when my studies of the East Kemptville tin deposit commenced. It was back in the summer of 1986 that field studies were initiated, and by early fall it was apparent that there was more to be seen at the deposit than greisens. In fact, much of the area is underlain by a very distinctive rock-type, which has subsequently been described as the East Kemptville topaz-muscovite leucogranite. It is the detailed petrological description of this lithology that the Mineralogical Association of Canada has elected to honor. As anyone who has studied evolved granitic suites can attest to, it is a difficult task to confidently discern between magmatic and hydrothermal features. It was only after considerable work, for the most part based on field and petrographic observations, that I was finally convinced that in fact the muscovite and topaz in the leucogranite were of primary magmatic origin. The significance of this is quickly realized when one considers that primary magmatic topaz also occurs in granitic rocks of similar age (370 Ma) that host the Mount Pleasant tin deposit located in southern New Brunswick.

The work honored here today represents the culmination of many years of study involving collaboration with the aforementioned individuals. I enjoy immensely my work as a geologist, the opportunity to study fascinating deposits like East Kemptville, and to convey my ideas to fellow geologists by way of the geological literature. To have my efforts appreciated here today is a great compliment; it will provide me with the impetus to continue my studies and to inform you of the results.

Finally, I would like to say that my work at East Kemptville was supported by the Canada - Nova Scotia Mineral Development Agreements, and that Rio Kemptville Tin Company and former mine geologist Claude Paulin have always been most supportive of my endeavors at the deposit. In addition, a special thanks to the continued support and collaboration from the many fine and talented individuals with whom I have the pleasure to work on a daily basis in Nova Scotia.

In conclusion, I am very pleased and honored to accept this award for doing something which has, over the years, provided me with so much pleasure, enabled me to travel, and given me the opportunity to meet so many talented and generous individuals.

Daniel J. Kontak