

PAST-PRESIDENT'S MEDAL FOR 1991 TO ANTHONY J. NALDRETT

Ladies and Gentlemen,

Tony Naldrett is widely recognized as the world's foremost authority on magmatic sulfide ores and their host rocks. His innovative research over the last 30 years has resulted in more than 150 publications. Indeed, it is hard to identify an area of our understanding of magmatic ore deposits where Tony has not made a seminal contribution.

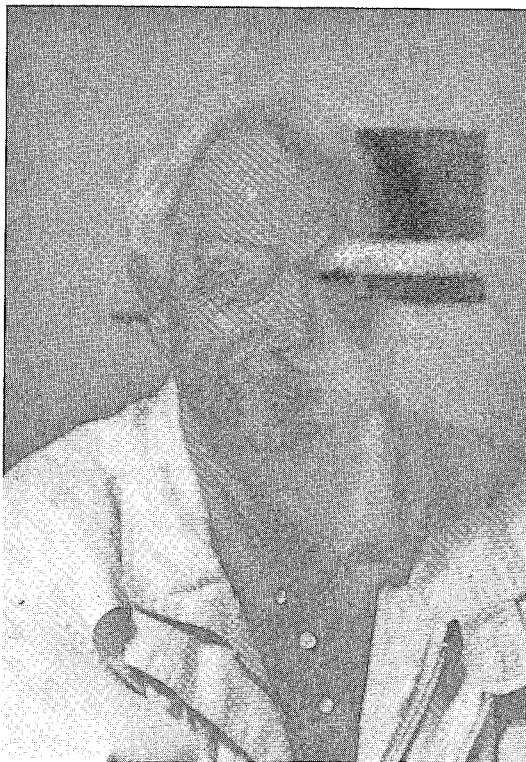
One of the key elements of Tony's success has been his ability to marry critical observations in the field with a sound understanding of thermodynamic principles and experimental data. This comes as no surprise when one considers his scientific background. He began his professional career in Sudbury as a mine geologist with Falconbridge. After two years, he enrolled in graduate studies at Queen's University under the supervision of the late Ed Hawley. In the course of his doctoral research in the Abitibi belt, Tony studied a suite of strange ultramafic rocks that later became known as komatiites, and he has continued to make important contributions to our understanding of these rocks to the present day.

Following his graduate work, Tony became a research fellow at the Geophysical Laboratory, where he produced his classic paper on the Strathcona mine, published in the *Journal of Petrology*. However, while at Carnegie, he also became involved in experimental studies bearing on the genesis of nickel sulfide ores. Perhaps the most noteworthy of these early forays into experimental petrology was his investigation of the system iron-sulfur-oxygen. Although the magmatic hypothesis for the origin of nickel sulfide deposits was popular at that time, it was by no means universally accepted. These studies went a long way toward demonstrating that the model based largely on field observations had sound theoretical underpinnings.

Tony joined the Department of Geology at the University of Toronto in 1967, where he has risen to the level of University Professor, a designation reserved for a limited number of distinguished faculty members. Tony and his students not only added to the knowledge-base pertaining to the Sudbury Irruptive, but also played a key role in the rapidly evolving field of komatiite petrology. In the last half of the 1970s, Tony and his colleagues began to focus on gaining a detailed understanding of the compositional variations of magmatic sulfide ores. This included a variety of experimental and theoretical modeling approaches, as well as the first concerted effort to document

the composition of a wide range of deposits. A noteworthy aspect of this was the systematic determination of the tenor of platinum-group elements in nickel ores, which ultimately led Tony to his next research theme: the origin of the great platinum reefs of the Bushveld and Stillwater complexes. More recently, his emphasis has shifted to the elucidation of the geology of the world-class nickel deposits of Noril'sk in the Soviet Union and Jinchuan in China.

Given this outstanding record of achievement, it is not surprising that our Association is not the first to recognize Tony Naldrett's contributions. He is a Fellow of the Royal Society of Canada, and his list of awards includes the Derry Medal of the Geological Association of Canada, the Barlow Medal of the CIM, and the Society Medal of the Society of Economic Geologists. Tony has been very active in scientific organizations, both in Canada and abroad. Of course, he has served the Mineralogical Association of Canada in a number



ANTHONY J. NALDRETT

of roles, including President (1982–1983), and has been a member of numerous councils, editorial boards and advisory committees. He is currently President of the Society of Economic Geologists and Chairman of the Board of IGCP.

Ladies and Gentlemen, it is my privilege to present the Past Presidents' Medal for 1991 to Professor A.J. Naldrett of the University of Toronto.

J.M. Duke
Past President

Mr. President, Fellow Members of MAC,

Thank you. I am very honoured by your award. However, only a small part is truly mine. Michel de Montagne remarked in one of his essays, "I have merely made up a bunch of other men's flowers and provided nothing of my own but the string to tie them together. "My students have provided the flowers, the Department of Geology of the University of Toronto, the fertile ground in which they have grown, and NSERC and other agencies, the fertilizer. Few academics can have been so lucky

in his students as myself. Those with me right now and all of those of former years have collected their data, done their thinking and reached their conclusions with minimum input from me, and yet have always done these things very well. My colleagues and chairmen past and present are kind, sympathetic people with whom it is easy to work and rub shoulders. The University has treated us fairly as a department, particularly in terms of the new building that they gave us in 1989. These are the requirements for a productive life, so that one is not constantly wasting one's energy in fighting unnecessary battles. I have been most fortunate in finding them. Much credit belongs to the people who have made this possible, and I thank them. In listening to my citation so beautifully, but exaggeratedly presented by Murray Duke, I am reminded of Jerome K. Jerome's "Three men in a boat", where he says, "It always seems to me that I am doing more work than I should do.... It is not that I object to work, mind you; I like work; it fascinates me. I can sit and look at it for hours. I love to keep it by me; the idea of getting rid of it nearly breaks my heart." Mr. Chairman, Ladies and Gentlemen, once again, thank you very much.

Anthony J. Naldrett

ANNOUNCEMENT

October 2-6, 1992 The "SUDBURY-NORIL'SK SYMPOSIUM" will be held in Sudbury, Ontario and will consist of 2 days of field trips and 3 days of talks, during which 24 papers, including 8 by Noril'sk geologists and geophysicists, will summarize the latest understanding of the two famous nickel camps. Registration fee for meetings \$150 Cdn. (field trips extra). Limit 200 registrants. Write to **Prof. A.J. Naldrett, Dept. of Geology, Univ. of Toronto, Ontario, Canada, M5S 3B1, FAX (416) 978-3938**, for further information and to be placed on a mailing list for the first circular.