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or, for partial Content

Green, A.H. 2010. Braving the PGE industry; *in* Abstracts, 11th International Platinum Symposium, 21-24 June 2010, Sudbury, Ontario, Canada, Ontario Geological Survey, Miscellaneous Release–Data 269.

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Introduction

This release contains extended abstracts for keynote presentations, talks and posters presented at the 11th International Platinum Symposium held in Sudbury, Ontario, June 21 to 24, 2010. The talks and posters presented at this conference cover a range of topics related to the theme “PGE in the 21st Century: Innovations in Understanding their Origin and Applications to Mineral Exploration and Beneficiation”. The aim of the conference was to examine ways to make exploration efforts more efficient, to identify problems that need to be addressed, and to ensure that current expertise is passed along to the new generation. The technical sessions focused on the geochemistry of chalcophile and highly siderophile elements, the geology and genesis of platinum group element (PGE) and Ni-Cu-(PGE) deposits, and the mineralogy, metallurgy and beneficiation of PGE ores.

The abstracts of the talks and posters presented at this symposium will be of interest to ore deposit geologists, exploration geologists, mineralogists, geochemists and metallurgists. The abstracts are in portable document format (.pdf).

Files on This CD

- This file - *MRD 269 Readme.doc, MRD 269 Readme.pdf*
- Symposium program - *11 IPS Program.pdf*
- Portable document format (.pdf) files of all abstracts, located in the folder “Abstracts”. File names are composed of the principal author name(s), and the files are arranged in the folder in alphabetical order by principal author.
- Alphabetical list of abstract titles, with links to abstract files - *11 IPS Abstract Titles.doc, 11 IPS Abstract Titles.pdf*

- Alphabetical list of all principal and co-authors, with links to abstract files - *11 IPS Abstract Authors.doc*, *11 IPS Abstract Authors.pdf*
- List of common abbreviations used in the abstracts - *11 IPS Abbreviations.doc*, *11 IPS Abbreviations.pdf*

Symposium Outline

The theme of the meeting was **PGE in the 21st Century: Innovations in Understanding their Origin and Applications to Mineral Exploration and Beneficiation**.

Technical sessions comprised:

- **Day 1: Geology and Genesis of PGE Deposits** (Organizers: **Dr. David Peck** and **Dr. Gordon Chunnett**), including chromite-PGE associations, hydrothermal transport processes, genesis of high PGE/S mineralization, and exploration tools/approaches. The keynote lecture was given by **Prof. Anthony J. Naldrett** (University of Toronto and University of Witwatersrand).
- **Day 2: Geology and Genesis of Ni-Cu-(PGE) Deposits** (Organizers: **Prof. Michael Lesher** and **Dr. Peter Lightfoot**), including tectonomagmatic settings, mineralization in calc-alkaline systems, physical transport of sulfides and scales of sulfide saturation, and exploration tools and approaches. The keynote lecture was given by **Prof. Edward M. Ripley** (Indiana University, USA).
- **Day 3: Geochemistry of Chalcophile and Highly Siderophile Elements** (Organizers: **Prof. Sarah-Jane Barnes** and **Dr. James Brennan**), including uses in geochronology, isotopic tracing, and behaviour during planetary formation and differentiation. The keynote lecture was given by **Dr. Jean-Pierre Lorand** (Museum of Natural History, Paris).
- **Day 4: Mineralogy, Metallurgy, and Beneficiation of PGE Ores** (Organizers: **Dr. Michelle Huminicki** and **Prof. Paul Sylvester**), including advanced applications in process and applied mineralogy, new approaches to improved PGE beneficiation, and insights into where the industry is headed in the next part of the 21st century. The keynote lecture was given by **Dr. Louis J. Cabri** (Cabri Consulting, Ottawa).

Invited and volunteered presentations were given by greenfields and brownfields exploration geologists, by industry and academic research geologists, and by students. The technical sessions were complemented by a comprehensive range of workshops, field trips, social activities, and accompanying guest activities.

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