

## **Exploration 07 Workshop 3**

### **Indicator Mineral Methods in Mineral Exploration**

#### **Speaker Biographies**

##### **Speaker 1 and 11- Harvey Thorleifson**

Harvey Thorleifson is a University of Minnesota Professor, and Director of the Minnesota Geological Survey. He is registered as a Professional Geoscientist in Ontario, and he is active with the Association of American State Geologists. He was 2004-2006 President of the Canadian Geoscience Council, and 2003-2004 President of the Geological Association of Canada. Following his undergrad and Masters in Winnipeg, he did his Ph.D. at University of Colorado in Boulder. While at Geological Survey of Canada from 1986 until 2003, he worked on regional indicator mineral surveys, geological and geochemical mapping, as well as water-related investigations.

##### **Speaker 2- Chris Benn**

Chris Benn has worked for BHP Billiton for 25 years and is currently the Global Practice Leader for geochemistry. At other times he has worked as a geologist/geochemist in a number of different countries on a wide range of projects for commodities that include gold, copper, lead, zinc, iron ore and titanium in a wide variety of geological environments. He obtained a degree in Geology in 1981 from Durham University, UK and an M.Sc from James Cook University, Australia in 1987. He is a Fellow and former Council member of the Association of Applied Geochemists and was the Editor of the Explore newsletter from 2003-2005.

##### **Speaker 3 - Beth McClenaghan**

Beth McClenaghan is a graduate of the University of Waterloo and Queen's University and has been a research scientist at the Geological Survey of Canada for the past 15 years. Her research has focused on methods development for the application of till geochemistry and indicator mineral methods in mineral exploration in glaciated terrain, with particular emphasis on gold, diamonds and, most recently, base metal deposits. Beth is currently Editor of the Association of Applied Geochemists EXPLORE newsletter

##### **Speaker 4- Bill Griffin**

Professor Bill Griffin of the Department of Earth and Planetary Sciences at Macquarie University is Co-Director of the GEMOC labs. His research has focused on composition and structure of the upper mantle, the evolution of continents, and the development of analytical methods for trace-element and

isotopic analysis, with an emphasis on in situ techniques.

**Speaker 5- Mary Doherty**

Mary Doherty has a blended background which includes time spent as an exploration geochemist, a project geologist, mine geologist, and business manager. Following an M.Sc. in exploration geochemistry at Queen's University, she worked several years for Anaconda Minerals as a geochemist, 10 years for Freeport Exploration and Anglo Gold as project and mine geologist, 5 years as a Principal Geochemist with BHP Minerals. She then spent time as a consulting geochemist, and has been Director for US Operations at ALS Chemex, a full service analytical laboratory, for the past 3 years.

**Speaker 6 – Dave Kelley**

David Kelley is the Americas Exploration Manager for Zinifex Limited, based in Denver, Colorado. He has 25 years experience in the minerals industry, including previous employment with Newmont Mining, WMC, BHP and the US Geological Survey. He obtained a Bachelors degree in Geology from Colorado State University and a Masters degree in geology and geochemistry from the Colorado School of Mines. He is a Fellow of the Society of Economic Geologists and is Past President of the Association of Applied Geochemists.

**Speaker 7- Herman Grutter**

Herman Grutter is Commodity Specialist - Diamonds for BHP Billiton. He has previously worked for De Beers in various positions and as a leading diamond-industry consultant for Mineral Services Canada. Herman's degrees in Geology are from the University of Cape Town (BSc Hons) and Cambridge University (Ph D). He has published a number of papers relating to kimberlites, indicator minerals and the lithospheric upper mantle and today will be addressing integration and application of new-age thermobarometry techniques

**Speaker 8 –Stu Averill**

Stu Averill is a P.Geo via the University of Manitoba. Since 1974 he has operated Overburden Drilling Management Limited, a leading indicator mineral consulting and processing business. Through ODM he has pioneered new methods and applications for indicator mineralogy and played a leading role in several mine discoveries.

**Speaker 9- Mike Michaud**

Mike Michaud graduated from the University of New Brunswick in 1994 with a BSc. in Geology and is a P.Geo. in Ontario. He has worked for Overburden Drilling Management for twelve and a half years as an indicator mineralogist and project geologist.

**Speaker 10 -Dean Pekeski**

Dean Pekeski is a graduate from the University of Western Ontario. He has worked as a geologist in mineral exploration since 1995, having experience in

base metal and diamond exploration. Since 1996, he has worked for Rio Tinto Exploration, primarily exploring for diamonds across Canada. Beginning in 2002, He relocated to India and led a team exploring for diamonds in Chhattisgarh, Orrisa, and Madhya Pradesh. Following the discovery of the diamondiferous Bunder kimberlites in 2004, he managed a team responsible for evaluating these bodies. He is currently back in Canada, managing Rio Tinto's diamond exploration projects in North America, currently based in Vancouver.