



Association of Applied Geochemists

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AAG COUNCILLORS FOR 2020–2021

Stephen Cook (ex officio)



Stephen Cook served as President of the Association of Applied Geochemists for 2018–2019 and is currently the past president. He has been active in exploration geochemistry for 35 years. He received his BSc from Carleton University (Canada) in 1984 and his MSc from the University of British Columbia (Canada) in 1991. Stephen first worked with the Geological Survey of Canada (1985–1988) and then with the British Columbia

Geological Survey (1991–2000). Subsequently, he joined the mineral exploration industry, first with Anglo American as Senior Geochemist, North America & Europe (2000–2004), then with his own consultancy (2004–2006), and finally was Chief Geochemist, Exploration with Teck Cominco (now Teck Resources) for over 12 years (2006–2018). He was a member of the local organizing committees for both the 19th International Geochemical Exploration Symposium (1999) and the 28th International Applied Geochemistry Symposium (2018). He presently operates, once again, his own geochemical consultancy.

Maurizio Barbieri



Professor Barbieri holds a degree in geological sciences (1994) and a PhD degree in Earth sciences (1998) from Sapienza University of Rome (Italy). He is currently Associate Professor of Environmental Geochemistry and Hydrogeochemistry at Sapienza University of Rome (Italy). He researches the interactions between water and the geological and chemical environment; freshwater–seawater interactions in

coastal aquifers; the speciation and transformation of trace metals and metalloids during biogeochemical processes in both natural and anthropogenic environments; and radiogenic and stable isotope geochemistry. He is an editorial board member for Springer, Elsevier, and the Multidisciplinary Digital Publishing Institute on topics related to geochemistry, water, and the environment.

Thomas Bissig



Thomas graduated in 1997 from the Swiss Federal Institute of Technology (ETH Zurich) with a diploma in Earth sciences. After working for Barrick Chile Ltda. in the El Indio Gold Belt (Chile/Argentina) in 1997–1998, he carried out his PhD research at Queen's University (Ontario, Canada) on the metallogeny of the El Indio belt. He graduated in 2001, after which he took a position as post-doctoral fellow at the Mineral

Deposit Research Unit (MDRU) of the University of British Columbia (Canada) where he worked in Central Peru and in the Guerrero Terrane of Mexico. Thomas was a professor at the Universidad Católica del Norte in Antofagasta (Chile) from 2004 to the end of 2007, after which he returned to MDRU as a research associate. In March 2017, he joined Goldcorp Inc., now Newmont Goldcorp, as Director of Geochemistry, currently providing expertise to exploration teams across North America. Thomas has been involved in research topics ranging from regional metallogeny and magma fertility to landscape evolution and exploration geochemistry. He is author on more than 30 peer-reviewed publications and numerous published reports and conference abstracts. His main interest in being part of the AAG council is to support the mentoring of young professionals and keep communication between industry and academia open.

Beth McClenaghan



Beth McClenaghan is a graduate of the University of Waterloo and Queen's University, both in Canada. She is a research scientist at the Geological Survey of Canada where she has worked for the past 28 years and is Head of the Geochemistry Section. Her research focuses on developing till geochemistry and indicator mineral methodologies applicable to mineral exploration in glaciated terrains, with a particular emphasis on diamonds, and precious-, base-, and strategic metals. She is an adjunct professor at Queen's University and supervises the indicator mineral research of several graduate students, both at Queen's and at other Canadian universities. Beth has been a member of the Association of Applied Geochemists (AAG) since 1985, a Fellow of the AAG since 1993, and the editor of the association's quarterly newsletter, *EXPLORE*, since 2006.

David Murphy



David holds a BSc (Hons) geology degree from the University of Edinburgh (UK) (1986), a geology MAppSc from Curtin University (Australia) (1993) and a PhD from the University of Western Australia (2009). After an early career as an exploration geologist (Goepeko North Ltd., 1988–1994; Helix Resources NL, 1994–1996; Plutonic Resources Ltd., 1996–1997), David joined Normandy Mining Ltd. (now Newmont; 1997–2009), where Nigel Radford instilled a love of geochemistry. This was cemented by Cliff Stanley, who, along with Bob Gilkes, supervised an eclectic thesis involving litho-geochemistry, clay mineralogy, and linear algebra. In 2010, David joined Barrick as regional geochemist, then, in 2012, his current employer, AngloGold Ashanti, where he assists with the geochemical aspects of projects and operations in Australia, in North and South America, and in Africa. He is a member of the AAG council (2018–2019) and chairs the AAG Education Committee. David is interested in fine-fraction geochemistry, X-ray diffraction, mathematical applications, and data analysis. He enjoys learning ever more abstract programming languages and manages a few endurance runs between injuries.

Yulia Uvarova



Yulia obtained her BSc in geology from the Moscow State University (Russia) in 2001 and her PhD in geology from the University of Manitoba (Canada) in 2008. From 2000 to 2002, she worked at the Vernadsky Institute of Geochemistry and Analytical Chemistry in Moscow as a research assistant. From 2003 to 2008, she was a teaching assistant at the University of Manitoba. From 2008–2012, Yulia worked in the Facility for

Isotope Research at Queens' University (Canada) where her research focused on the geochemistry, mineralogy, petrology, and genesis of economic mineral deposits (notably uranium); the development of new exploration tools to search for U deposits; the behaviour of high-field-strength elements in high-temperature systems; and applying non-traditional isotope systems to mineral deposit formation. Yulia Uvarova holds a research scientist position in CSIRO Mineral Resources in Perth (Australia) and works in a team of researchers developing new workflows and techniques for mapping the distal footprints of metalliferous mineral systems through drilling and sampling. The team are also developing an understanding of the large geochemical footprints left by mineral systems and how to detect these at the surface.