



Association of Applied Geochemists

www.appliedgeochemists.org

AAG COUNCILLORS FOR 2024–2025

Mark Arundell



Mark Arundell became a Fellow of AAG in 2007 after joining in 2002. He received a BSc (Hons) in geochemistry from the University of Melbourne (Australia) in 1985 and a masters of economic geology from the University of Tasmania in Australia (CODES) in 1998. He worked as an exploration geologist and an underground and open cut mine geologist with Renison Goldfields Consolidated (RGC) from 1986–1995, and an exploration geologist at North Ltd from 1995–2000

and Rio Tinto from 2000–2009. Since 2009, he has worked for IMEX Consulting as an exploration geologist/geochemist. Mark was an AAG Councillor from 2008–2011 and the course leader of the “Interpreting Geochemical Data” workshop at the 2005 IGES in Perth. Mark currently consults globally as an exploration geochemist and is passionate about training. He has conducted public and in-house workshops for a number of clients and professional organisations.

Patrice de Caritat



Patrice’s university training is in geology, mineralogy, and geochemistry, and his research interests include environmental, exploration, and isotope geochemistry, hydrogeochemistry, and low-density geochemical mapping. He is a Senior Principal Research Scientist at Geoscience Australia, a Visiting Fellow at the Research School of Earth Sciences, Australian National University (ANU), and an adjunct professor at the University of Canberra (Australia). In 2017–2018, Patrice was

a subject matter expert seconded to the Australian Federal Police, and assisted with developing their soil forensic capability. He is a Fellow of the Association of Applied Geochemists (AAG) since 2005, Associate Editor for their journal *Geochemistry: Exploration, Environment, Analysis* (2017–2023), AAG Councillor (2011–2012, 2013–2014, and 2019–2022), and Society News Editor for *Elements* (2011–2015). Patrice holds a Lic Sci (BSc Hons) degree from the University of Louvain (Belgium), and a PhD from the ANU. He has published over 180 scientific papers, reports, chapters, and books (Google Scholar h-index 45).

Alexander Seyfarth



Alexander Seyfarth is an X-ray spectroscopist with over 20 years of experience with XRF and XRD. Alexander holds a diploma in mineralogy from University Giessen in Germany (1996). Starting out as an Application Scientist in Germany with Siemens, he was transferred to the U.S. where he is now a proud citizen, still living in the Midwest (Wisconsin). As the resident “geoscientist,” he travelled within the Americas to mine sites, cement plants, and quarries, and presented

application- and theory-based talks at trade shows and conferences for Bruker and Thermo Fisher Scientific in various functions. With a group of other XRF trainers, he continued the XRF course from University of Western Ontario (Canada) and moved it to Hamilton College (USA), expanding it also back to its roots in South Africa. He is an Associated Volunteer Researcher with Colorado School of Mines (USA) as of 2021 for direct XRF core scanning and hyperspectral imaging. Since 2017, Alexander is back fulltime to the geochemistry world as Global Technical Manager for XRF with SGS Natural Resource Division and active in both

SGS internal technical formation, as well as externally with focus on new and smaller devices such as PXRF and Micro Libs. His professional interest lies within research, promoting and expanding XRF (and LIBS on solids) within the community, as well as modern gamma activation analysis for gold assaying. His focus for AAG volunteer work would be within the training and education of future geochemists, as well as promoting and establishing best practices for new types of instrumentation, leveraging extensive contacts to the various instrument vendors. His experience with social media and marketing can be applied to AAG’s LinkedIn outreach as well as for promoting AAG on the web.

Cliff Stanley



Cliff Stanley, P. Geo., is Professor of Applied Geochemistry in the Department of Earth & Environmental Science, Acadia University, Nova Scotia, Canada. Cliff received his bachelor’s degree in Earth Science from Dartmouth College (USA, 1980), worked for three years for Anaconda Minerals Company as a geochemist, and then returned to academia to complete his masters and doctorate at the University of British Columbia (UBC, Canada, 1984, 1988) under the supervision

of Dr. Alastair Sinclair and statistician Dr. John Petkau. Prior to Acadia, Cliff worked for two years as a research associate at Queen’s University (Canada) with Dr. Ian Nichol in litho-geochemistry, and for seven years as an adjunct professor in the Mineral Deposit Research Unit at UBC, leading research in alkalic porphyry Cu-Au deposits, litho-geochemistry, and Broken Hill-type mineral deposits. Cliff has been a member of the association since 1981, a fellow since 1988, and has previously served as councillor for the association for 14 years. In addition, Cliff has been a distinguished lecturer for the AAG (2004) in litho-geochemistry, and for the CIM (2008) and AusIMM (2009) in geochemical quality control. Cliff has published extensively in sampling and quality control, partial digestion pedo-geochemistry, litho-geochemistry, and geochemical data analysis. In 2017, Cliff was awarded the Chayes Prize for contributions to research in numerical petrology by the International Association for Mathematical Geosciences (IAMG).

Behnam Sadeghi



Dr. Behnam Sadeghi is a Research Fellow at the Australian Resource Research Centre (ARRC) within CSIRO, Australia, and a Fulbright Research Scholar at the Earth and Planets Laboratory (EPL) of the Carnegie Institution for Science in Washington DC, USA. Specializing in mineral exploration, Behnam focuses on critical minerals and the energy transition. His expertise encompasses urban and environmental geochemistry integrated with data science,

mathematical geosciences including fractal/multifractal modeling and compositional data analysis, geostatistics for simulation and uncertainty quantification, and advanced Geographic Information Systems (GIS) and geospatial data analytics. He is also involved in renewable and sustainable energy, particularly geothermal energy resource exploration. Behnam has been recognized as a Fellow of the Association of Applied Geochemists (FAAG), the Australian Institute of Geoscientists (AIG), and the Australian Institute of Mining and Metallurgy (FAusIMM). He is a lifetime member of IAMG and a Registered Professional Geoscientist (RPGeo) in Information Geoscience with AIG.