



Association of Applied Geochemists

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AAG COUNCILLORS FOR 2022–2023

Thomas Bissig



Thomas graduated in 1997 from the Swiss Federal Institute of Technology (ETH) with a diploma in Earth Sciences. He carried out his PhD research at Queen's University, Kingston (Canada), on the metallogeny of the El Indio belt, Chile/Argentina. He graduated in 2001, after which he took a position as a post-doctoral fellow at the Mineral Deposit Research Unit (MDRU) at the University of British Columbia, Canada, where he worked on 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. He left Newmont in 2020, and in October 2021, joined Copperbank Resources Corp as VP of Exploration.

Thomas has been involved in research topics ranging from regional metallogeny and magma fertility to landscape evolution and exploration geochemistry. He is an 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 to keep communication between industry and academia open.

Jamil Sader



Dr. Jamil Sader obtained his BSc from the University of Saskatchewan (Canada), his MSc from the University of Texas at Dallas (USA), and his PhD from the University of Ottawa (Canada). He has over 20 years of experience in academic, technical, and senior management roles with government and small to large cap exploration/mining companies, including MMG Resources, Anglo American, and Bureau Veritas Minerals. His extensive experience,

from field geologist to senior management, has provided him with a deep technical understanding across many facets of base, precious, and critical metals, and an extensive global network of geoscience professionals. Dr. Sader became an Association of Applied Geochemists Fellow in November 2021 and is currently President of the MineScience Advisors.

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 the University Giessen, Germany (1996). Thesis work for his graduate studies was done on chemical and phase investigations of kiln deposits using XRF, EPMA, and XRD, as well as Rietveld structure refinement on isolated phases. 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 "Geo Scientist," he got to travel within the Americas to mine sites, cement plants, and quarries and present 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 the University of Western Ontario (Canada) and moved it to Hamilton College (USA), expanding it back to its roots in South Africa. He has

been an associated Volunteer Researcher with the Colorado School of Mines since 2021 for Direct XRF core scanning.

Since 2017, he has returned fulltime to the geochemistry world as the Global Technical Manager for XRF with the SGS Natural Resource Division and is active in SGS internal technical formation, as well as externally with a 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. Data fusion of chemical and mineralogical assays and advancing chemometric-based methods are part of his current research with vendors. A focus on AAG work should be included in the training and education of future geochemists, as well as promoting and establishing best practices for new types of instrumentation leveraging his extensive contacts with various instrument vendors. Having spent over 25 years at trade shows and conferences, he can sell and qualify leads as well.

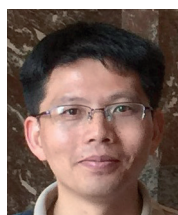
Cliff Stanley



Professor Cliff Stanley, P.Geo. is a professor of applied geochemistry in the Department of Earth & Environmental Science, Acadia University, Nova Scotia, Canada. Cliff received his BSc 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 and 1988, respectively) under the supervision of Dr. Alastair Sinclair. Prior to Acadia University, Cliff worked for two years as a research associate at Queen's University (Canada) with Dr. Ian Nichol in lithogeochemistry, and for seven years as an adjunct professor in the MDRU at UBC, leading research in alkalic porphyry Cu-Au deposits, lithogeochemistry, and Broken Hill-type mineral deposits. Cliff has been a member of the Association since 1981 and previously served as councilor for the Association for 12 years. In addition, Cliff has been a distinguished lecturer for the AAG (2004) in lithogeochemistry, and for the CIM (2008) and AusIMM (2009) in geochemical quality control. Cliff has published extensively on sampling and quality control, partial digestion pedogeochemistry, lithogeochemistry and geochemical data analysis. In 2017, Cliff was awarded the Chayes Prize for contributions to research in numerical petrology by the IAMG.

Renguang Zuo



Professor Renguang Zuo obtained his PhD in mineral resources prospecting in 2009 from the China University of Geosciences. He became a Fellow of AAG in 2016. Since 2021, he has been a professor and the Founding Director of the Research Center for Solid Earth Big Data, China University of Geosciences (Wuhan), China. Since 2012, he has also been a professor at the State Key Laboratory of Geological Processes and Mineral Resources, China

University of Geosciences (Wuhan), China. In 2014, he was a senior visiting fellow at James Cook University, Australia. From 2010 to 2012, Dr. Zuo was an associate professor, at the State Key Laboratory of Geological Processes and Mineral Resources, China University of Geosciences (Wuhan), China. Prior to this, he was an instructor there from 2009 to 2010. Professor Renguang Zuo has held several positions within the AAG Council including Councilor of the Association in 2017–2018 and 2019–2020, associate editor for *Geochemistry: Exploration*,

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2023 MSA AWARDEES

MSA would like to congratulate its newest awardees who will be honored at the 2023 Geological Society of America annual meeting in Pittsburgh, PA, USA. That meeting will take place October 15–18, 2023. There will be a luncheon to celebrate the awardees in Pittsburgh, as well as special lectures by the awardees.

Roebeling Medal: *Georges Calas, Sorbonne Université*



The Roebeling Medal is the highest award of the Mineralogical Society of America (MSA) for scientific eminence as represented primarily by scientific publication of outstanding original research in mineralogy.

Dana Medal: *Razvan Caracas, Université de Lyon*



The Dana Medal is intended to recognize sustained outstanding scientific contributions through original research in the mineralogical sciences by an individual in mid-career.

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CALL FOR AWARD NOMINATIONS

Please consider nominating a colleague for one of the Society's awards. Nominations should be sent to the secretary (metsocsec@gmail.com) by January 15 (January 31 for the Service Award and the Pellas-Ryder Award). For more information and details on how to submit a nomination for any of these awards, please see the latest newsletter at the Society website or email the secretary.

The Society gives a number awards each year. The **Leonard Medal** honors outstanding contributions to the science of meteoritics and closely allied fields. The **Barringer Medal and Award** recognize outstanding work in the field of impact cratering and/or work that has led to a better understanding of impact phenomena. The **Nier Prize** recognizes outstanding research in meteoritics and closely allied fields by young scientists. The **Service Award** honors members who have advanced the goals of the Meteoritical Society to promote research and education in meteoritics and planetary science in ways other than by conducting scientific research. The **Paul Pellas–Graham Ryder Award** is given for the best student paper in planetary science and is awarded jointly by the Meteoritical Society and the Planetary Geology Division of the Geological Society of America. The newest society award, the **Elmar Jessberger Award**, will be given to a mid-career female scientist in the field of isotope cosmochemistry.

UPDATED ANNUAL MEETING CALENDAR

2023	86 th Annual Meeting	14–18 August, Los Angeles, California, USA
2024	87 th Annual Meeting	28 July–2 August, Brussels, Belgium (EU)
2025	88 th Annual Meeting	July TBD, Perth, Australia
2026	89 th Annual Meeting	July/August TBD, Frankfurt, Germany (EU)

Distinguished Public Service Medal: *Sharon Tahrikheli, American Geosciences Institute*



The Distinguished Public Service (DPS) Medal is awarded by the MSA Council to individuals or organizations who have made important contributions to furthering the vitality of the geological sciences, especially but not necessarily in the fields of mineralogy, geochemistry, petrology, and crystallography.

MSA Award: *Shaunna Morrison, Carnegie Institution for Science*



The Mineralogical Society of America Award is intended to recognize outstanding published contributions to the science of mineralogy by individuals near the beginning of their professional careers.

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Environment, Analysis (2017–2018) and was on the Editorial Board of *Geochemistry: Exploration, Environment, Analysis* (2019–present).

The focus of Professor Renguang Zuo's research is on developing novel methods for processing geochemical survey data and identifying geochemical anomalies associated with mineralization. He has published more than 120 SCI-indexed papers in various international peer-reviewed journals. He is an associate editor for *Journal of Geochemical Exploration*, *Natural Resources Research*, *Ore Geology Reviews*, and *Computers & Geosciences*. He is also a Councilor for the International Association for Mathematical Geosciences and a Fellow of the Society of Economic Geologists.

Dennis Arne (ex officio)



Dennis Arne has 40 years of experience in geology and applied geochemistry. He has overseen regional geochemical exploration programs in the Yukon, British Columbia, Nunavut, and northern Quebec in Canada, the USA, eastern Australia, Suriname, Sudan, and Laos. He was Managing Director and Principal Consultant – Geochemistry of CSA Global Canada until late 2017, General Manager and

Principal Consultant – Geochemistry for Revelation Geoscience (purchased by CSA Global in 2012), Principal Consulting Geochemist with ioGlobal (now Reflex Geochemistry), and formerly Senior Geochemist with Geoscience Victoria (now Geological Survey of Victoria, Australia). Dennis is currently director and principal consulting geochemist at Telemark Geosciences and was, until recently, the Director of Exploration for E79 Resources. He is a Fellow and past President of the Association of Applied Geochemists, a member and registered Professional Geoscientist (Geochemistry) of the Australian Institute of Geoscientists, and a registered Professional Geoscientist in British Columbia, Canada.