



Association of Applied Geochemists

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RENGUANG ZUO – AAG GOLD MEDAL AWARD FOR 2023



Professor Renguang Zuo has been awarded the Association of Applied Geochemists' (AAG) Gold Medal for 2023 for his exceptional contributions to the scientific field of applied geochemistry, and exemplary service in promoting the exchange of ideas and dissemination of information in this field through a distinguished career in university teaching, research, and publishing.

Areas in which Professor Zuo has made significant scientific contributions include the application of big data analytics and deep learning algorithms to applied geochemistry, developing several geoinformatics models for recognising geochemical anomalies, quantification of uncertainties in processing geochemical survey data, and the development of computer software for the processing of geochemical survey data.

Professor Zuo's extensive scientific and career achievements include the following:

- Publication of over 160 papers in peer-reviewed, international publications, with over 7,000 citations
- Serving on the AAG council three times, as well as a councillor for the Association for Mathematical Geosciences
- Appointed a Fellow of the AAG, Society of Economic Geology, and the Geological Society of London
- Appointed Professor of the State Key Laboratory of Geological Processes and Mineral Resources, China University of Geosciences, Wuhan, China; and Founding Director of Research Center for Solid Earth Big Data, China University of Geosciences, where he has supervised more than 40 PhD and MSc students
- Serving as Associate Editor of the *Journal of Geochemical Exploration*, *Natural Resources Research*, *Computers & Geosciences*, *Journal of Earth Science*, and *Ore Geology Reviews*
- Awarded the Kharaka Award by the International Association for GeoChemistry (IAGC) in 2015
- Organised eight special volumes for several different international journals

By any measure, Professor Zuo's publication and scientific record have been both prodigious and highly regarded.

Dennis Arne

AAG Past President, 2022–2023
Chair, Awards & Medals Committee, 2022–2023

RYAN NOBLE – AAG SILVER MEDAL AWARD FOR 2023



Dr. Ryan Noble is the recipient of the Association of Applied Geochemists (AAG) Silver Medal for 2023. This award is made in recognition of dedicated service in advancing the affairs of the AAG over an extended period.

His contributions to the AAG have extended over 20 years and are in addition to his significant scientific contributions. They include the following:

- Serving as a Councillor of the AAG almost continuously since 2010, including serving as Vice-President (2014/15), then President (2016/17), then Chair of the Awards and Medals Committee (2018/19)
- Chairing the Strategy Committee to determine the course of the AAG for the next decade
- Representing the AAG on the Australian Geoscience Council (AGC) since 2019
- Representing the AAG on the Executive Committee for Elements magazine since 2017
- Membership of the Editorial Committee for Geochemistry: Exploration, Environment, Analysis (GEEA) for over a decade
- Contributing articles to Explore magazine and reviewing submissions to both Explore and GEEA

Dr. Noble's contributions to the AAG are an outstanding example of an active and productive scientific researcher volunteering their time to promote their chosen field of research through a professional body. The AAG would not exist were it not for such people.

Dennis Arne

AAG Past President, 2022–2023
Chair, Awards & Medals Committee, 2022–2023

Elements
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