



Association of Applied Geochemists

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REGIONAL COUNCILLORS

The Association of Applied Geochemists (AAG) maintains a global network of eight regional councillors. Four of them are introduced below.

Theophilus Davies – Africa



Prof. Theophilus Clavell Davies is a Chartered Geologist who currently holds the position of Visiting Professor of Environmental Geochemistry at the University of Nigeria at Nsukka. His teaching and research activities encompass such themes as 'combating environmental health impacts of mining in Africa' and 'isolating and obviating the influence of geochemical co-factors in disease causation in Africa'. His work includes field and laboratory studies, and he has published over 200 papers in high-impact journals. Prof.

Davies has received several distinguished fellowships and research awards, including the prestigious Alexander von Humboldt Fellowship of Germany and the 2014 Nigerian Mining and Geosciences Society Shell Petroleum Award. He is also a Board Member of the UNESCO International Centre for Global-Scale Geochemistry, the Regional Councillor for Africa of the Association of Applied Geochemists and a (former) Councillor for Geoscience of the International Medical Geology Association.

Benedetto De Vivo – Southern Europe



Benedetto De Vivo studied at the University of Napoli Federico II (Italy) and graduated in the geological sciences in 1971. From 1971 to 1976 he worked for private companies operating in Italy, Africa and Central America in the field of ore deposits, geochemical prospecting, environmental geology, and hydrogeology. From 1976 to 1987, he worked as a researcher at Consiglio Nazionale delle Ricerche (Rome, Italy). From 1987 to 2000, he was an associate professor in applied geochemistry at the University of Napoli Federico

II, where, in 2000, he became a full professor in geochemistry. Benedetto was a research fellow at the Colorado School of Mines (USA) in 1978 and also with the US Geological Survey (Virginia, USA) in 1982 and 1992. He was invited to serve as a visiting scientist at the Geological Survey of Japan in 1990 by the EU-Japan Centre for Industrial Cooperation.

He has been Chairman of the Inclusions in Minerals Working Group of the International Mineralogical Association, has been a member of the Editorial Board of *Geochemistry: Exploration, Environment, Analysis* (2004–2007) and Associate Editor of *American Mineralogist* (2012–2013). From 1996 to present, he has been a member of the Board of Associate Editors of *Mineralogy and Petrology*, and, since 2007, also Chief Editor of the *Journal of Geochemical Exploration*. Benedetto has been a member of different expert government committees for base-metal mining research activities and for the remediation of industrial sites in Italy. His current research interests include geochemical prospecting, fluid and melt inclusions studies, and environmental geochemistry. He has published 240 papers (most of them in international peer-reviewed journals), 30 educational articles, 30 monographs, has edited 36 special volumes in various international journals, and written 7 text books (in Italian) on geochemical prospecting and environmental geochemistry. In 2001, he was nominated as a Fellow of the Mineralogical Society of

America, and in 2006 he was appointed as an adjunct professor at the Department of Geosciences at Virginia Tech (Virginia, USA). In 2016, he was appointed as an adjunct professor at Nanjing University (China).

Pertti Sarala – Northern Europe



Dr. Sarala specializes in applying Quaternary and surficial geology and geochemistry to mineral exploration. He joined the Rovaniemi office of the Geological Survey of Finland (GTK) in 2002 and worked in GIS database and management development and as a specialist of GTK's geochemical data. Since 2008, he has worked as a senior scientist focusing on Quaternary and surficial geological research and the development of geochemical exploration methods. His focus

has been on advanced, low-impact geochemical exploration techniques that leave minimal environment impact and are, therefore, suitable for northern regions.

Pertti obtained his MSc in surficial geochemical exploration in 1994 and his PhD in 2005, both from the University of Oulu (Finland). He has worked as a docent (adjunct professor) of Quaternary and surficial geology at the University of Oulu since 2009. From 1 June 2016 (for an initial 5-year tenure), Pertti was appointed a joint research professor of geochemical exploration at the GTK and at the Mining School of the University of Oulu. He has published ~40 papers and more than 150 other publications, including books, conference abstracts and working reports.

Brian Townley – Chile



Dr. Townley is an Associate Professor of Geology at the University of Chile who has over 25 years' research experience in mineral deposits and applied geochemistry, specializing in Chilean metallogenesis. Over the past 10 years he has presented or published over 25 papers relating to applied geochemistry, ore deposits and mineral exploration in Chile. Currently, he is researching the continuity of the Miocene porphyry copper belt south of El Teniente, as well as the Upper Cretaceous porphyry copper deposits near the

Maule River. He is also carrying out research at Los Bronces from the perspective of hydrothermal alteration modeling, mineral characterization and geometallurgy.

During his career, Dr. Townley has done consulting and applied research work for BHP-Billiton, Codelco, Yamana Gold, Angloamerican, Barrick, Antofagasta Minerals, Soquimich, and many other companies, for exploration and/or geometallurgy. These activities have been carried out in the Chilean districts of Escondida, Cerro Colorado, Spence, Chuquicamata, El Salvador, Los Pelambres, Rio Blanco–Los Bronces, El Teniente, Rosario de Rengo, El Peñon, among others. In his research work, he has led state, state/private partnerships and privately funded projects, as well as AMIRA International multi-client projects, all with a strong applied research component. In addition to publishing scientific papers, Dr. Townley keeps up-to-date by attending many short courses, including on-site short courses and workshops for industry, that take place in Chile, America, Argentina, Peru, Bolivia, Brazil and Canada. In parallel to mining industry-related research, Dr. Townley leads a state-funded research project on the impacts of geology, mineralogy and geochemistry on viticulture, part of the Vinos de Chile wine industry consortium.