



Association of Applied Geochemists

www.appliedgeochemists.org

THE 27th INTERNATIONAL APPLIED GEOCHEMISTRY SYMPOSIUM (APRIL 2015)

The Association of Applied Geochemists will host the 27th International Applied Geochemistry Symposium (IAGS) in Tucson, Arizona, USA, on April 20–24, 2015. This symposium is the world's premier forum for the exchange of ideas on issues related to the use of geochemistry in the mineral resources industry, advances in geochemical analytical methods, and environmental geochemistry. The theme of the meeting will be **"Applied Geochemistry: Exploration, Environmental Technologies, and Sample/Data Analysis."** A comprehensive program is planned, with multiple keynote speakers, parallel technical sessions, short courses, field trips, poster sessions, exhibits, a full day of social events, plus partner programs throughout the symposium week.

Visit the IAGS website for specific details and to register:
www.27IAGS.com.

Field Trips

- **Geology of the Grand Canyon:** 8 days on the Colorado River with a geologist; participants will delve deep into the magnificent and extensive geology of this region.
- **Colorado and New Mexico Mines:** 6 days visiting former, current, and future underground or open pit gold, silver, base metal, molybdenum, and uranium mining operations. Begins in Denver, Colorado.
- **Nevada and Utah Mines:** 4 days visiting important gold and copper mines in the two states; participants will also examine exploration methods used to locate these deposits. Begins in Reno, Nevada.
- **Miami and Carlotta Mines:** 2 days visiting the major reclamation and remediation projects that have been completed or designed to meet closure requirements in advance of terminating the operations.
- **Bisbee, Sierrita WWTP, and Twin Buttes:** 2 days starting with a visit to historic Bisbee, from a mine-closure perspective. On the second day participants will visit Sierrita WWTP (designed to test emerging technology for sulfate reduction in groundwater and process fluids and sequential extraction of metals other than copper from process fluids), and Twin Buttes (a previously mined area that is planned for future expansion).

Workshops

- **Geochemical Modeling:** An examination of geochemical processes that affect acid waters and dissolved metal contaminants as the plume migrates from its source and interacts with the natural environment.
- **Indicator Minerals:** A review of the principles, methods, and developments in indicator mineral methods used in mineral exploration around the world, with presentations by highly experienced practitioners.
- **Hydrothermal and Supergene Geochemistry:** Presents practical applications of metals geochemistry used to characterize hydrothermal and supergene environments, including the use of activity and Eh-pH diagrams to interpret metal occurrence and distribution.
- **Isotope Geochemistry:** Examines how isotopes can add value to understanding the processes by which elements migrate in near-surface environments and provides new avenues to enhance learning for effective exploration and formulation of remediation strategies.

- **Regolith and Terrain Mapping:** Introduction and examination of near-surface exploration geochemistry in regolith-dominated environments using practical examples and case studies.



- **Application of Field Portable X-ray Fluorescence in Exploration and Mining:** If you use pXRF you need to attend this workshop!
- **Interpretation of Geochemical Survey Data:** Reviews the principles, methods, and developments in the interpretation of geochemical survey data using practical examples and case studies.
- **Student Publishing Workshop:** This 2-hour free workshop will focus on the philosophy and mechanics of publishing your research in the peer-reviewed literature.

Erick Weiland (Erick_Weiland@fmi.com)
Freeport-McMoran Copper & Gold Inc., 27th IAGS Convener

RECENT ARTICLE PUBLISHED IN EXPLORE

PAUL MORRIS, JOEL D'ANTOINE, AND ANN FITTON (2014) GeoVIEW.WA – an interactive software application for mineral exploration in Western Australia. EXPLORE 165 (December 2014)

Mineral production is the cornerstone of the Western Australia economy, and there is accordingly a high level of mineral exploration activity in the State, carried out by a range of junior to international mineral exploration companies. The only source of comprehensive geoscience data is from the Geological Survey of Western Australia (GSWA), which has compiled a software application as a front end to these data. Access to more than 100 layers of digital information of interest to mineral explorers is afforded by the GSWA's GeoVIEW.WA application. The application and related data are freely available from the website www.dmp.wa.gov.au. The available data include seven geochemical datasets, drawn from GSWA mapping and mineralization programs, exploration company reports, and other private sector compilations. In total, these data comprise more than 100,000 analyses in digital form, and the locations of more than 4,500,000 assays from which mineral exploration surface geochemistry can be accessed. GeoVIEW.WA allows the searching of digital data both spatially and textually. The latter includes searching on host rock lithology, exploration tenement etc., as well as filtering and querying data based on geochemical composition. Data can be downloaded as comma-separated files and in GIS format, and the software allows for printing of user-generated maps. Data available through GeoVIEW.WA are refreshed daily.

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Geological Survey of Western Australia, Australia

The Association of Applied Geochemists

announces the

2014 AAG

Student Paper Competition



Eligible papers must be based on research performed as a student and must have been published in *Geochemistry: Exploration, Environment, Analysis* within three years of completion of the degree. All eligible papers in 2013 and 2014 volumes of *GEEA* will be reviewed by the selection panel.

The winner will receive a cash prize of CAD \$1000 donated by **SGS Minerals Services**, two years membership in AAG and US \$500 towards attending an AAG-sponsored meeting.

The results of the 2014 competition will be announced at the 27th IAGS in Tucson.

Details are provided on the AAG students' page: (<http://www.appliedgeochemists.org>).