

CET Members' Day

Thursday

23rd November 2023

The University Club of Western Australia

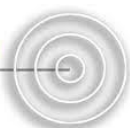
The University of Western Australia

Entrance 1, Hackett Dr, Crawley WA 6000

08:00 to 17:35, followed by sundowner

The Centre for Exploration Targeting (School of Earth Sciences) is pleased to announce the 18th Annual CET Members' Day to be held on the 23rd of November 2023 at the University Club of the University of Western Australia. This year's program will include an overview by CET Director Prof. Steffen Hagemann, with an update on current and new projects for the CET in 2023 and beyond. Selected speakers will present highlights from active research projects.

Center for **EXPLORATION
TARGETING**



THE UNIVERSITY OF
**WESTERN
AUSTRALIA**

KEYNOTE SPEAKER: PROF. NORA RUBINSTEIN



Prof. Nora Rubinstein works at the University of Buenos Aires (UBA), Argentina. She is also a Principal Researcher at the National Scientific and Technical Research Council (CONICET), Head of the Andean Metallogensis Group (joint with the University of San Juan, Argentina) and scientific collaborator at the Argentinian Geological Survey (SEGEMAR). Her research work is devoted to the metallogensis of magmatic-hydrothermal ore deposits. She provides consulting services in petro-mineralogical characterization and fluid inclusion analyses.

SCHEDULE FOR THE DAY

| TIME | PRESENTER | TOPIC |
|----------------------|--|--|
| 08:00 – 08:30 | | REGISTRATION |
| 08:30 – 09:00 | Steffen Hagemann | Overview of 2023 and future CET activities |
| 09:00 – 09:10 | Marco Fiorentini | Industrial Transformation Training Centre (ITTC) in Critical Resources for the future |
| 09:10 – 09:35 | Isra Ezad | Revisiting mantle sources for nickel sulfide deposits |
| 09:35 – 10:00 | Anne Virnes | Crustal S sources for komatiite hosted Ni deposits: implications for sulfide transport, deposition and exploration |
| 10:00 – 10:10 | Pietro Guj | Strengthening mining regulatory capacity in Africa |
| 10:10 – 10:25 | 4 PhD Students | Speed talks – will highlight results captured in the posters: Lauri Virnes, Lu Li, Joshua Chong, Alex Eves |
| 10:25 – 10:55 | | MORNING TEA / POSTER DISPLAY |
| 10:55 – 11:20 | Andrew Crawford | A revised stratigraphic model for the ~1910-1835 Ma Tanami Group: implications for gold exploration strategies |
| 11:20 – 11:45 | Sumail | Polyphased gold enrichment as a key process for high-grade gold formation: Insights from the 10 Moz. Jundee-Bogada gold camp in the Yilgarn Craton |
| 11:45 – 12:10 | Ravi Schreefel | Crustal evolution in the Archean and implications for orogenic gold mineralization in the Yilgarn Craton |
| 12:10 – 12:35 | Daniel Wiemer | Magmatic and structural evolution of the Peruvian lithosphere: Implications for favourable sites for gold-rich mineral systems through time |
| 12:35 – 12:50 | 4 PhD Students | Speed talks – will highlight results captured in the posters: Jerry Dunga, Edmore Marima, Elina Kong, Matilda Boyce |
| 12:50 – 14:00 | | LUNCH / POSTER DISPLAY |
| 14:00 – 14:45 | Nora Rubinstein (Keynote Speaker) | Porphyry Cu-Au mineral systems in Argentina - the next exploration frontier! |
| 14:45 – 15:10 | Walter Witt | The remarkable/enigmatic Burns Cu-Au deposit: porphyry, IOCG and orogenic mineralization in one deposit? |
| 15:10 – 15:35 | Brian Tattitch | Can sulfur isotopes help us untangle the multi-stage processes that lead to high-grade porphyry copper ore formation? |
| 15:35 – 16:00 | Giulia Consuma | Apatite inclusions in zircon vs. matrix apatite: exploring the magmatic-hydrothermal volatile evolution of high-grade, hypogene porphyry copper deposits |
| 16:00 – 16:30 | | AFTERNOON TEA / POSTER DISPLAY |
| 16:30 – 16:35 | Nigel Brand | Tornado micro-XRF technique - the lab of the future |
| 16:35 – 17:00 | Weronika Gorozyk | What modelling can bring to understanding of Proterozoic basins? |
| 17:00 – 17:25 | Mark Jessell/ Leonardo Portes | Combining feature engineering with machine learning to extract geological histories from geophysical datasets |
| 17:25 – 17:35 | Steffen Hagemann | Closing Remarks |
| 17:35 – 19:00 | | SUNDOWNER |