

# Bicentennial Gold 88 Endowment Winners 2015

- **Monash University - School of Earth, Atmosphere & Environment - Andrea Rielli**

To assist 1<sup>st</sup> year Ph.D. student Andrea Rielli with costs of SIMS analyses for sulphur isotopes to be performed at the University of Western Australia with the aim to unravel the metasomatic processes controlling the redox state of the sub-arc mantle where most porphyry copper deposits are formed. The contribution of this project to the mineral industry is to generate innovative science on arc Cu-Au-Mo metallogeny by studying the sub-arc mantle metasomatic processes in order to understand the earliest stages in the formation of porphyry Cu-Au-Mo deposits.

- **Monash University - School of Earth, Atmosphere & Environment - Mathias Egglseder**

To assist 2<sup>nd</sup> year Ph.D. candidate Mathias Egglseder with costs to attend “Iron Ore 2015” conference in Perth and present the results of his research to-date on the structural framework of the BIF-hosted, high grade iron ore deposits of the Hammersley province. Mathias Egglseder is a highly motivated and experienced researcher whose project whose structure-focused project is likely to become important for both brownfields and greenfields exploration for BIF-hosted iron ore deposits. His conference presentation will have promotional value for the Bicentennial Gold 88 Endowment and the EEF.

- **Monash University -School of Earth, Atmosphere & Environment Deposits - Jessica Hamilton**

Support for 1st year Ph.D.student Jessica Hamilton to travel to the University of British Columbia, Vancouver to gain expertise in reactive transport modelling related to her project focused on CO2 sequestration in ultramafic mine tailings. The applicant’s Ph.D. project follows on from her excellent and original honours research project. It is aimed at a field demonstration, the first of its kind, which will contribute to the development of novel geochemical treatments of mine tailings with the potential to make carbon-neutral mining a reality for many mineral deposits. The project combines geology, geochemistry, mining and computer modelling for the eventual benefit of the environment. If successful, the methods developed will have export potential and enhance the standing of the Australian mining industry.

