

AUGUST TECHNICAL MEETING

Thursday 24 August 2017

Fast Facts

Speaker:

Dr Sanaz Orandi, Environmental Scientist/Geologist at the University of Adelaide.

Topic:

Biological Treatment of Mine Waters – Challenges and Opportunities in Removing Heavy Metals

When:

Thursday 24 August 2017
12:00pm sharp

Where: **Please note change of Venue**

The Carrington Function Centre
262 Carrington St
ADELAIDE

Cost:

AusIMM / WIMNetSA Member.....\$25.00

MAP Member**\$15.00

AusIMM Student Member\$15.00

Non-Member\$35.00

** MAP - Financial hardship approved via Member Assistance Program

Includes:

Lunch (choice of Beef Burger, Chicken Schnitzel, Roast Pumpkin and Pine Nut Risotto, or BBQ Chicken Pizza), plus soft drink

Registration:

[Register here](#)

This technical meeting is brought to you by The AusIMM Adelaide Branch, and WIMNetSA and is worth 1 PD hour



Biological Treatment of Mine Waters – Challenges and Opportunities in Removing Heavy Metals

Dr Sanaz Orandi
University of Adelaide

Sanaz is an Environmental Geologist specialising in water treatment technologies.

In this presentation, Sanaz will discuss establishing a biofilm reactor, and the significant opportunities and challenges it presents for the removal of various toxic and other heavy metals from acid mine drainage (AMD).

Sanaz completed her Master's degree in Economic Geology in Iran. Her research project focused on the impact of waste rocks on generation of AMD in the largest copper mine in Iran, where she identified the bio-sorbant role of indigenous algal-microbial biofilms. This research brought her to Australia to undertake a PhD in the School of Chemical Engineering at the University of Adelaide where she investigated the bio-treatment of AMD using algal-microbial biofilm in a photo-reactor.

Sanaz has presented her work at several conferences, winning best presentation prizes, and has been published in highly cited international journals. . Currently she works in the University of Adelaide and supervises postgraduate students. She is also an experienced health and safety professional at the Faculty of Engineering, Computer and Mathematical Sciences.