

AusIMM NZ Branch – Visiting Lecturer Programme – March 2016

The first in the series of 2016 AusIMM New Zealand Branch Visiting Lecturers is Professor Karen Hudson-Edwards (k.hudson-edwards@bbk.ac.uk) from the Department of Earth and Planetary Sciences, University of London. Karen will present a 1-day short course and lectures at several locations during March.

Karen Hudson-Edwards Biography

Karen Hudson-Edwards completed a BSc (Geological Sciences) degree at Queen's University in Kingston, Canada, an MSc in economic geology at Memorial University of Newfoundland, Canada, and a PhD in environmental geochemistry and mineralogy at the University of Manchester, UK. She started a lectureship at Birkbeck College, University of London, in 1998, where she is now Professor of Environmental Mineralogy and Geochemistry. Karen and her group carry out research to understand the biogeochemical cycling of contaminants, nutrients and water in Earth surface environments. One of her main areas of interest is the mineralogy and geochemistry of mine wastes, with associated field work in Australia, Bolivia, Canada, Cyprus, New Zealand, Spain and the UK.



Programme

The programme for Karen Hudson-Edwards' visit in March 2016 is shown below. For specific dates, times and venues for events, where they are not listed, please refer to notices that will be circulated locally or contact the relevant person listed in the **Contacts for further information** section at the end of this notice.

Day	Date	Time	Presentations		Location
Monday	14 March	09:00-16:45	Short course	Auckland	University of Auckland
Monday	14 March	17:30-19:00	Lecture	Auckland	Campbell MacPherson offices, Level 14, 36 Kitchener Street, Auckland
Tuesday	15 March	17:30–19:00	Lecture	Waihi	Kava Bar and Café, 40 Seddon St
Wednesday	16 March	13:00-14:00	Lecture	Hamilton	University of Waikato
Thursday	17 March	09:00-16:45	Short course	Lower Hutt	GNS Science, 1 Fairway Drive, Avalon
Thursday	17 March	17:30-19:00	Lecture	Wellington	Straterra, 93 The Terrace
Friday	18 March	17:00-19:00	Lecture	Nelson	Golders, Level 3, 295 Trafalgar Street
Monday	21 March	09:00-16:00	Short course	Greymouth	Location to be notified
Monday	21 March	19:00-20:00	Lecture	Christchurch	Golder Associates, 214 Durham St
Tuesday	22 March	9:00-16:00	Short course	Christchurch	Golder Associates, 214 Durham St
Wednesday	23 March	9:00-16:30	Short course	Dunedin	GNS Science, 764 Cumberland Street
Wednesday	23 March	17:30-19:00	Lecture	Dunedin	Lonestar, 484 George St (upstairs in the Saloon)
Thursday	24 March	18:00-19:00	Lecture	Cromwell	Landpro Office, Unit 7, Cromtrade, 2 McNulty Road

Short course: Environmental Mineralogy of Mine Wastes

This one-day short course will give an overview of the formation, dissolution and character of common mine waste minerals. These minerals control the geochemical mobility of metallic and metalloid contaminants in acid, neutral and basic mine drainage. The course will cover the main types of mine waste minerals, the techniques used to study them, the major processes of mineral formation and dissolution and case studies from real mining sites and complementary laboratory investigations. Practical exercises will involve interpretation of electron microprobe data, aqueous geochemical data relating to mine waste mineral dissolution and speciation modelling.

Short course attendance is by registration. Details on how to register to be advised.

Lecture: The Environmental Legacy of Mining: Wastes, Remediation and the Future

Throughout history, humans have mined metals, coal, industrial minerals and rocks to produce goods, energy and building materials. These activities have generated huge amounts of solid and liquid wastes around former mining sites, many of which are now abandoned. These sites in turn pose environmental risks due to production of metal-rich dusts, waters and soils from the wastes. On the positive side, traditional and emerging remediation techniques are used to restore these sites and protect ecosystems and humans. In addition, state-of-the-art atomic- to global-scale research is helping to develop new remediation techniques and understand the behaviour and impact of historic mine wastes.

Attendance at the lectures is free of charge, but please email your intention to attend to the relevant contact person listed below for planning of refreshments.

Contacts for further information

Auckland short course (Monday 14 March): Julie Rowland, j.rowland@auckland.ac.nz, phone: 09 3737599 ext 87412, or 021 747709

Auckland evening lecture (Monday 14 March); Roger Gregg, roger.gregg@ihug.co.nz, phone 09 634-8066, or 021 181-4843

Waihi evening lecture (Tuesday 15 March); Peter Keall, Peter.Keall@oceanagold.com, 07 863-9866 or 027 283-6506

Hamilton daytime lecture (Wednesday 16 March): Shaun Barker, sbarker@waikato.ac.nz, phone 07 838 4514 or 027-937-6415

Lower Hutt short course (Thursday 17 March); Tony Christie, t.christie@gns.cri.nz, phone (04) 570-4682

Wellington evening lecture (Thursday 17 March): Tony Christie, t.christie@gns.cri.nz, phone 04 570-4682

Nelson evening lecture (Friday 18 March): Peter Hancock, peter.hancock@anu.edu.au, Phone: 03 541 0458

Greymouth short course (Monday 21 March); Andy Martin, andy.martin@solidenergy.co.nz, phone 03 788-9791 or 0275 523-573

Christchurch evening lecture (Monday 21 March): Dean Fergusson, dean@rarl.co.nz, phone 0274 454-928

Christchurch short course (Tuesday 22 March): Dean Fergusson, dean@rarl.co.nz, phone 0274 454-928

Dunedin short course (Wednesday 23 March): Adam Martin at GNS Science, a.martin@gns.cri.nz, phone 03 479-9683

Dunedin evening lecture (Wednesday 23 March): Sean Aldrich, s.aldrich@rscmme.com, phone 03 668 0001 or 021 708193

Cromwell evening lecture (Thursday 24 March): Damian Spring, damspring@gmail.com, phone 021 333-943