

Centre News

CSRM has just hosted 9 Lihirian students as part of Dr Nick Bainton's continuous research with LGL in Papua New Guinea.

Staff members from CWiMI recently attended a conference in Chile, which can be read about in this issue.

On 17-18 July, MISHC conducted the EMESRT Underground and Exploration Workshop at SMI.

Laurence Rossato from CMLR was awarded a Trailblazer Award by Uniquest on July 22.

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New Staff Profiles

Dr Emma Gozzard is a Postdoctoral Research Fellow who commenced work with CWiMI in May. She has recently arrived from the UK after completing a PhD at Newcastle University. Her PhD research looked into the sources, fate and river catchment scale dynamics of metal mine water pollution from abandoned lead/zinc mines. This involved investigating the hydrology of the river catchment and the hydrogeochemistry of mine waters, river waters and river sediments, with the overall aim of quantifying the importance of point and non-point sources of metal mine water pollution. Prior to her PhD, Emma completed an MSc in Environmental Geochemistry and a BSc in Environmental Science at the University of Leeds, in the UK.



Dr Emma Gozzard



Dr Daniel Franks

Dr Daniel Franks is a Research Fellow at the CSRM who started work in May. Daniel has qualifications in social science, earth sciences, and environmental policy and his research interests lie across the sustainability of the extractive resource industries. Daniel has field experience (social science and geoscience) at mining operations in Queensland, Western Australia and South Australia, as well as in Chile, Bolivia and Brazil. He holds a PhD from Griffith University and a Bachelor of Science (Hons) from the University of Queensland.

Professor Damian Barrett graduated with a PhD in Ecology from the Australian National University in 1993 on the plant physiology of tree water use in rainforest and eucalypt forests. Since 1996 he has worked in two CSIRO Divisions, the Cooperative Research Centre for Greenhouse Accounting and the eWater Cooperative Research Centre. In 2004, he was appointed Research Group Leader of the Environmental Remote Sensing Group in CSIRO Land and Water and, in July 2008, took up a Professorial Research Fellow position jointly across the Centres for Water in the Mining Industry and Mine Land Rehabilitation. In his new role in the Sustainable Minerals Institute, he will be investigating ways to better link biodiversity, landscape functioning, and ecosystem goods and services to improve sustainability outcomes for the mining industry.



Professor Damian Barrett



Ms Vinitha Naidu

Ms Vinitha Naidu is a Research Technician who started with CWiMI in May. Vinitha started her career in science with a Bachelor in Science, majoring in Chemistry and Biology. She then spent the next 5 years completing a Bachelor of Ayurvedic Medicine, and worked in research in molecular biology and medicinal plants. Since coming to Australia 7 years ago, Vinitha has worked for different organizations in Sydney doing analytical services in environmental science.

Dr Warwick Browne is a Research Fellow at CSRSM specialising in socio-economic/environmental change dynamics associated with large-scale mining in the Asia-Pacific. He holds a PhD in Natural Resource Management and a Bachelor of Science from James Cook University, Townsville. His work focuses on the socio-economic and environmental risks, costs and benefits particularly to local communities but as well to the wider community and at all levels of government. Warwick started with CSRSM in May.



Dr Warwick Browne

Dr Scott Bryan commenced working with BRC in March. Scott completed his PhD in Earth Sciences (Volcanology) in 1998, and since then has had several research posts in Australia and overseas. He has also had research contracts with Mining Industry companies since 2000, working Argentina, Australia, New Zealand and Mexico. Scott was a Senior Lecturer in Geosciences at Kingston University (United Kingdom) from 2006 to 2007, and was also a Damon Wells Research Fellow at Yale University (USA) from 2003 to 2005.

Ms Tracy Paroz commenced work with BRC in July. Tracy has 23 years experience working in a variety of positions at The University of Queensland, the most recent being Centre Manager of the Earth Systems Science Computational Centre (ESSCC).

Ms Karen Klockner has recently joined MISHC as a Research Officer and has worked in a number of industries including mining/quarrying, waste management, transport and health. Karen has a background in Human Resource Management and Organisational Psychology and is currently completing her Masters in Human Factors and Safety Management. Karen works part time for MISHC whilst working as a private practice Psychologist and consults to organisations in the areas of OH&S, HR, Human Factors and Organisational Psychology. Karen's Masters Research is looking at how the physical work environment, personality and cognitive failures contribute to mindfulness and workplace safety.

Mr Tristan Cooke

Tristan Cooke has recently joined MISHC as a PhD candidate. Tristan has a background in Occupational Therapy and Ergonomics, having gained his Bachelors and Masters Degrees respectively from UQ. Tristan joins MISHC having spent his most recent years working as an OH&S consultant specialising in issues relating to ergonomics. During this time he consulted on a number of issues in rail, air, ports and the healthcare industries. His research at MISHC will be related to how consideration of human factors in the design of mining equipment can be used to improve productivity and safety concurrently.

Project Information

EMESRT Underground and Exploration Workshop

On 17th and 18th July, Professor Jim Joy and the MISHC Human Factors team facilitated a 2-day workshop for the Earth Moving Equipment Safety Round Table (EMESRT). EMESRT is an engagement initiative between eight global mining companies and seven of the major Original Equipment Manufacturers (OEM) of surface earth moving equipment, the purpose of which is to accelerate the adoption and development of leading practice equipment designs that minimise health and safety risks

Companies with significant underground and exploration interests were invited to participate in this workshop, along with existing EMESRT member companies with similar mining interests. The invitation drew a good response, with representatives from 10 (mostly global) companies travelling from the USA, Brazil, South Africa and around Australia to participate in the workshop. Christine Copley, Program Director, Environment, Health & Safety for the International Council on Mining & Metals (ICMM) also travelled to Brisbane for the event.

Participants were introduced to the EMESRT approach to engaging with original equipment manufacturers, with EMESRT member company representatives sharing the lesson learned from the past two years of engagement. After considering the applicability of this style of approach to three areas of mining, it was agreed that further discussion should take place to determine the framework for a way forward to improve equipment used in underground coal and underground hard rock operations and for exploration surface drilling.

Another 2-day face to face workshop is planned for November 2008.

Travelers' tales



Sue Vink and Chris Moran from CWiMI spent two weeks in Chile attending a conference and discussing project proposals with Universidad Catolica del Norte, the University of Antofagasta, and various mining companies.

Sue says, "We spent the first week in Santiago attending the Water in Mining conference. Chris gave the Keynote address and I presented a talk covering some of the work being done by CWiMI on water and salt management in Bowen Basin coal mines. During the second week we visited the Alto Norte Copper Smelter, Lomas Bayas mine and the Escondida Desalination plant located near

Antofagasta in the Atacama Desert. Coffee was crap but we were saved by good people, food, wine and Pisco Sours."



Up coming Events

SDIMI 2009 Conference Call for Papers

This conference will focus on the application and integration of sustainable development principles in the minerals industry, and will encompass the social and human, as well as the environmental and technological, dimensions of sustainability. For more information, go to:

<http://www.csrn.uq.edu.au/docs/SDIMI%202009%20Call%20for%20Papers.pdf>

15 September 2008 – Managing the Socio-Economic Dimension of Mine Closure.

ACMER Workshop preceding the SD08 organised by the Minerals Council of Australia. For more information, go to:

<http://www.acmer.uq.edu.au/training/trainingdetails/MineClosureDetails.html>

29 September - 1 October 2008 – Safety Leadership Masterclass.

ACMER Masterclass in cooperation with MISHC (Minerals Industry Safety and Health Centre). For more information, go to:

<http://www.acmer.uq.edu.au/training/trainingdetails/SafetyLeadershipDetails.html>

2 - 3 October 2008 – Short Course in Human Error and Risk Behaviour.

ACMER short course in cooperation with MISHC (Minerals Industry Safety and Health Centre). For more information, go to:

<http://www.acmer.uq.edu.au/training/trainingdetails/HumanErrorandRiskBehaviour.html>

11 - 13 November 2008 – Dialogue Skills for Community Engagement - A People Centred Approach.

This ACMER workshop explores the principles and practice of dialogue, demonstrating how authentic and skilled dialogue feeds the community engagement and development process. For more information, go to:

<http://www.acmer.uq.edu.au/training/trainingdetails/CommunityEngagementDetails.html>

November 2008 – Life of Mine Planning and Management; From Impact Assessment to Mine Completion.

ACMER training course. For more information, go to:

<http://www.acmer.uq.edu.au/training/trainingdetails/LifeofMineDetails.html>

SMI holds free weekly internal seminars at both the St Lucia and Indooroopilly sites. To be alerted to upcoming seminars, subscribe to the mail-out by emailing Charlie Ackerly (c.ackerly@uq.edu.au).