

2011 Award Recipients

The Institute Medal

Ian Smith FIEA MAICD: Ian Smith has demonstrated extraordinary leadership of the minerals sector in its response to potentially damaging government policy and taxation measures and in the development of Newcrest Mining Ltd as Australia's pre-eminent gold company.

As chairman of the Minerals Council of Australia, Mr Smith led the industry response to the Resources Super Profits Tax and the Carbon Pollution Reduction Scheme and highlighted the potential harm to the resources industry and the broader economy of each of the measures proposed. His leadership was crucial in extended discussions with government and a community information program which resulted in withdrawal of the proposed tax and renegotiation of its scope and application. As President of the Australian Mines and Metals Association, Mr Smith continues to take leadership in public policy, particularly in industrial relations matters. He was also a member of the Board of the Australian Chamber of Commerce and Industry until April 2012.

As Managing Director and Chief Executive Officer of Newcrest Mining (2006-2011), Mr Smith built Newcrest into the third largest global gold company by market capitalisation. He led an executive team responsible for 16,000 employees and 10 mines in four countries. In late-2011, Mr Smith was appointed managing director and chief executive officer of Orica Ltd, taking up the post at the end of February 2012.

Mr Smith holds Bachelor's degrees in financial administration and in mining engineering. He commenced his career with CRA and Pasminco in Broken Hill and Cobar, leading to appointments as general manager of Elura Mine and Broken Hill Mines (both with Pasminco). He then worked with WMC from 1997, first running Olympic Dam and then WMC projects before joining Rio Tinto as Managing Director Comalco Aluminium Smelting (Brisbane) and then Global Head of Operational and Technical excellence with Rio Tinto (London). In mid-2006, he returned to Australia to lead Newcrest through a period of growth and acquisitions that saw its market capitalisation boosted six-fold.

The President's Award

Professor Tim Napier-Munn FAusIMM(CP): Tim is a metallurgist with degrees from Imperial College, London, and Wits University, Johannesburg. He has spent his career in applied R&D for the mineral industry, working for De Beers in South Africa and for universities in England and Australia. He joined the JKMR in 1985 becoming its Director in 1997 and inaugural MD of JKTech Pty Ltd in 2001. He retired from these two roles in 2004 and now works part-time for the JKMR and consults through JKTech. He has given his professional development course on Statistics for Metallurgists over 125 times around the world and is writing a book on the subject.

Beryl Jacka Award

Greg Chalmers FAusIMM(CP): This award is to recognise the extraordinary and sustained service to The AusIMM of Immediate Past President Greg Chalmers. Greg has been a member of the Institute for 40 years and was made a Fellow in 1997. He was nominated to join the Council of the AusIMM in 1995 and when Council was replaced by an elected Board in 2001, he was elected a Director of that Board and has continued to serve on it since that time. Greg was elected President of The AusIMM for 2009 and for a second term in 2010.

Greg is Chief Executive of Jellinbah Group, a privately-owned independent Queensland-based metallurgical coal company with operations in Central Queensland's Bowen Basin.

Throughout his career, Greg has been an active member of The AusIMM and has served on Branch

committees for Southern Queensland, Broken Hill, Central Queensland and the Hunter Region. He has served on many AusIMM Board committees, including the Audit and Risk Management Committee and on the AusIMM Education Endowment Fund Board of Trustees. AusIMM committees on which he continues to serve include the OH&S, Awards, Investment and Ethics Committees.

Mineral Industry Technique Award (MITA)

No award in 2011.

Jim Torlach Health & Safety Award

Simon Ridge from Department of Mines & Petroleum, Resources Safety (WA): As Director Mines Safety Branch and State Mining Engineer with the Resources Safety Division of the Department of Mines and Petroleum (WA), Simon Ridge has been a central figure in a determined drive for change in the performance of the regulator and the safety performance of the mining industry.

Simon has introduced a new approach to safety regulation which presents a balance between promoting safety outcomes, monitoring compliance and initiating enforcement activities. He has taken personal responsibility for recruitment of suitably qualified and experienced staff, designed and overseen new inspector induction programs and introduced a new team concept tailored to suit the State's diverse and geographically dispersed mining sector.

Simon has made a significant number of presentations to industry to raise awareness of the need to reform within the industry itself and has built both the capacity and competency of the regulator in a very short timeframe. This has been achieved through competency-based training and development programs for all staff.

Simon trained initially in the UK as a mine geologist, then graduated from WASM in 1988 as a mining engineer. He worked on mines in Africa and Western Australia before beginning a career as a district inspector of mines in WA. From 2003-2009, Simon worked with Safework South Australia in several roles, including manager mining and major hazard facilities. For the previous 13 years, he was employed by the Department of Minerals and Petroleum Resources (WA).

G B O'Malley Medal

Phillip Drain GAusIMM: Phillip Drain's paper "Blast Furnace Hearth Refractory & Coke Ash Interactions" was presented at a combined meeting of the AusIMM Lachlan and Illawarra Branches in late 2010. His paper was judged as being the best prepared and presented of the six papers presented during the event by a panel of judges experienced in geology, mining and metallurgy disciplines.

The judges commented that his presentation was clear and easily understood by an audience which was mostly unfamiliar with the material. The high quality of the preparation was demonstrated by the clarity in the PowerPoint slides and the one page poster summarising the paper. Research supervisor Associate Professor Brian Monaghan said Phillip's research data was of a high quality and the findings had a significant impact on the understanding of refractory wear in the iron making blast furnaces hearth. This would allow plant operators to extend the refractory life of a furnace and reduce the frequency of costly refractory relines".

Phillip has been a member of The AusIMM since 2007 and graduated in December 2010 as a materials engineer after completing a 5 year program of study and full time industrial experience in the steel making industry. This unique study and work program assisted in developing his extensive knowledge of the topic of his paper and field of research.

Honorary Fellowship

David Pollard HonFAusIMM: David Pollard has been a Member of The AusIMM for 53 years and a Fellow since 2008. In that time, he has taken leading roles in the industry and the Institute, particularly

in the education and development of students and the advancement of knowledge and skills of his fellow minerals industry professionals. David lectured metallurgy for 14 years at the University of Melbourne and for seven years with the South Australian Institute of Technology (now the University of South Australia). He was Education Manager for the Australian Mineral Foundation from 1988 until 2000 where he greatly expanded the scope of the professional development program. He was a member of the AusIMM Education and Accreditation Committee from 1993 until 2007. David also was a member of the South Australian Chamber of Mines education committee from 1988-1993. He also participated in the Australian Academy of Science school chemistry project and developed a minerals module for the Victorian HSC Chemistry course.

David initiated and continues to lead the very successful Metallurgical Plant Design (MetPlant) conference series. He has chaired The AusIMM Metallurgical Society since 2008 and championed the project to publish a revised and updated edition of the 1993 work, Australasian Mining and Metallurgy (Monograph 19 – the Sir Maurice Mawby Memorial Volumes), due to be released in early-2013 as Australasian Mining and Metallurgical Operating Practices. He continues to develop workshops held in association with AusIMM conferences that focus on new developments and best practice in the industry.

David has been active for many years in the AusIMM Adelaide Branch, having served on the committee and as Chair on several occasions, most recently in 2007-2008.

Peter Stoker HonFAusIMM(CP): Peter Stoker has chaired the Joint Ore Reserves Committee (JORC) since 2005 and has led the committee through periods of consolidation and change, including a review of the JORC Code and a reassessment of the relationship between the JORC Code and the ASX Listing Rules. Appropriately, his areas of expertise are audit and due diligence studies of Mineral Resources and Ore Reserves and he provides advice to improve standards in mine geology and improve minerals investment return.

Peter is Principal Geologist with AMC Consultants and has over 40 years' experience in mine geology, mineral resource and ore reserve estimation, feasibility studies, project evaluation and mineral exploration. He previously worked as an independent consultant and as general manager with MIM Exploration and chief geologist with Mount Isa Mines Ltd. He was also a director of a junior exploration and mineral treatment technology company. Peter has participated in management of exploration, project evaluation and acquisition and review of mining projects in Australia and overseas.

Peter has been a member of The AusIMM for more than 40 years and was made a Fellow in 1979. Prior to his role as chairman, he was secretary of JORC from late 1999 to 2005. He is also a JORC representative on the Committee for Mineral Reserves International Reporting Standards (CRIRSCO). In this role he has advised on changes to reporting standards and practices in China Indonesia Philippines and Russia. He was a member of the Steering Committee and a contributor for Monograph 23 "Mineral Resources and Ore Reserves Estimation – The AusIMM Guide to Good Practice", and has authored or co-authored a number of papers on Mineral Resource and Ore Reserve estimation, classification, exploration research and practice. He is the past chair of The AusIMM's Geoscience Taskforce, and a past AusIMM Councillor, branch chair and secretary.

Branch Service Award

Harold Boughen FAusIMM: Harold 'Harry' Boughen joined The AusIMM in 1964 and was made a Fellow in 1981. Harry has been a stalwart of the Melbourne Branch for more than a decade and has played an active role in Branch management. He took on the role of treasurer in 2003, overseeing the Branch finances in subsequent years. Harry rationalised the Branch book-keeping procedures to provide a more accurate picture of the Branch financial position and introduced a code of accounts that aligned with AusIMM Services to facilitate financial budgeting and reporting. He was a key member of a sub-committee which reviewed Branch operations with the aim of increasing attendance at functions and technical meetings. Harry was also involved in the organisation of the new format Technical Sessions, Branch Dinners and Students Meet Industry nights.

Dr Chris Harvey FAusIMM: Chris has been an active member of the Illawarra Branch of The AusIMM for 12 years and served as Branch chair from 2004 to 2008. He has been a member of the

organising committee for the Coal Operators series of conferences for more than eight years and is a regular contributor of technical papers to these conferences. Chris was a member of the editorial committee for the revision of Monograph 12 *Australasian Coal Mining Practice* (3rd edition). Chris is a member of the Southern Coalfields Outburst Committee, which holds regular half-day seminars promoting effective management of gas outbursts, and convener of a seminar on subsidence, a very topical issue in the southern coalfields. Through his involvement in The AusIMM and the Illawarra Branch, Chris has established and maintains a close liaison with the University of Wollongong's School of Mining Engineering. His involvement includes mentoring students, particularly final year mining students, supporting the Branch's Student Chapter and fulfilling the role of honorary lecturer at the University.

David Stewart FAusIMM(CP): Dave Stewart has given outstanding service to the AusIMM New Zealand Branch, having served as Branch Chair for two years and Secretary for 15 years. He has been a member of The AusIMM for 35 years and was made a Fellow of the Institute in 1983. Dave's extended service to the New Zealand Branch and the wider AusIMM was recognised at the Branch's 2011 annual general meeting when he was presented with the inaugural Lloyd Jones Memorial Award for service to the Branch.

AusIMM Service Award

Donna Frater MAusIMM: Donna Frater has been a member of The AusIMM since 1994 and involved in the Institute's Women in Mining Network (WIMnet) for more than 11 years. Donna has been instrumental in publicising issues of importance to women in mining, such as the Gender Pay Gap, the need for more flexible work options and the difficulty the industry faces in retaining women once they undertake caring responsibilities. She has been active in representing WIMnet and The AusIMM in submissions to the National Resources Sector Employment Taskforce (NRSET) and the House of Representatives Standing Committee on Employment and Workplace Relations. Donna is also a long-time member of WIMARQ (Women in Mining and Resources Queensland) and represents WIMARQ, WIMnet and The AusIMM on the Mineral Council of Australia's Workforce Committee. It was in this capacity that she was given the honour of making the opening address to the inaugural MCA Women in Mining Workshop in Canberra in 2011.

Donna first started calling into WIMnet teleconferences from a donga at Paraburdoo, and eventually took on the role of Chair of the Committee between 2008 and 2010. As Immediate Past Chair, Donna has remained highly involved in WIMnet, mentoring the current Chair and Deputy Chair and providing invaluable advice to all committee members borne of years of experience on the committee. She has a strong desire to mentor future WIMnet leaders to build on WIMnet's strength as the premier representative body for Women in Mining in Australia and New Zealand.

Despite demanding work commitments as Principal Geologist with BHP Billiton Mitsubishi Alliance, Donna's preferred modus operandi has been to focus on individual relationships with WIMnet committee members. Her leadership style at the helm of WIMnet was notable for its inclusiveness, diplomacy, determination, motivation and very personal style.

Donna has a passion for including regionally-based women in networking events, and she has been instrumental in setting up successful networking events for AusIMM members in Mount Isa, Moranbah and Emerald. She also worked on setting up similar events and a formal Women in Mining networking group in New Zealand with the NZ Branch in 2011.

Ultimately, Donna's contribution to The AusIMM has been selfless. The roles she has held within WIMnet have been for all the right reasons – genuine concern about the isolation of women in the resources industry, barriers to career progression, attrition due to family caring responsibilities, and the benefits of networking opportunities. She has also stepped forward as a spokesperson within BHP Billiton and an example in her community. She consistently, through word and deed, strives to improve attitudes and our industry. She is a worthy recipient of The AusIMM Service Award.

Alison Keogh MAusIMM(CP): This award recognises Alison Keogh for her leadership and contribution to The AusIMM at Board level, to its Branches and Committees, and to the Women in

Mining Network (WIMnet). Alison has provided leadership to and strong representation for the interests of female professionals within the minerals industry. She has also provided leadership in sustainable development in mining, by forming a dedicated group in founding the Institute's Sustainability Committee and chairing the committee for three years.

Alison has been a member of The AusIMM since 1999 and has served in senior capacities within the Institute, including a three-year term as an elected Director on the AusIMM Board (2009-2011). Alison's first associations with the Institute were as an active member of the Pilbara Branch. Whilst later living in Perth, Alison then began what was to become a long association with WIMnet, including her role as one of the key founding members of Women in Mining Western Australia (WIMWA). After she relocated to Queensland, she joined the Southern Queensland branch committee and was actively involved with coordinating AusIMM technical sessions, growth in event attendance, and student and new professionals engagement initiatives.

In 2005, Alison used her experience of WIMWA's structure and formula to start the very successful Women in Mining and Resources Queensland (WIMARQ) group, which she chaired for four years. During this time Alison was regularly asked to speak to the media about the role of women in mining and has played an integral part in representing female professionals and their interests and in ensuring those interests are reflected in AusIMM policies. This included involvement in the introduction of the Queensland Resources Awards for Women, acting as an awards panel judge for three years, and supporting development of the highly successful annual International Women's Day events held by the Queensland Resources Council. Alison also initiated a partnership between WIMARQ and Women on Boards, introducing their leadership and Directorship training programmes to women in mining in Australia.

Soon after she was elected as a Director of The AusIMM, Alison undertook the role of chair of the newly-formed Sustainability Committee. She extended the Committee's reach by forming three advisory panels and provided leadership and direction to the committee and its members until she stepped down as Chair in 2011.

Peter Tilyard FAusIMM(CP): "The AusIMM Service Award is presented to Peter Tilyard for his longstanding support of the Institute at Branch level and for his active participation in the development and ongoing success of the AusIMM Metallurgical Society. Peter has been a member of the AusIMM since 1966 and a Fellow since 1982. He served on branch committees at Panguna and Broken Hill and set up a "hot branch" at Rio Tinto's Technical Services group at Bundoora. He served on Council in 2000. He joined the Metallurgical Society's foundation committee in 2002 and has served as vice-chair since 2008. In particular he has been instrumental in the establishment of the Mineral Processing Toolbox on the Metallurgical Society website, remains largely responsible for its development and has promoted his professional discipline to great effect".

New Professional Award

Tim Hausler: Tim Hausler joined process automation firm MIPAC in 2003 as a student engineer while undertaking a bachelor of engineering (electrical and computer engineering) with honours at the Queensland University of Technology. He became a graduate engineer in 2004 and his career has flourished as a hands-on operator and developer of tankhouse products.

MIPAC managing director Eddie De Rivera describes Tim as highly innovative and well-regarded by clients. "He relishes intellectual challenges and was instrumental in the development of MIPAC's cell voltage monitoring system, CellView®, which detects or predicts short circuits and monitors the overall health of a cell, making a refining or electro-winning operation realise its full potential."

Over an 18-month period, Tim dedicated himself to all aspects of its development and was responsible for the successful deployment of the first CellView® system for Kazzinc in Kazakhstan.

Tim started on the project as a commissioning engineer, advancing to senior MIPAC engineer on site. Now back in Australia, Tim is devoting himself to developing MIPAC's tankhouse product suite, and assuming more of a leadership role within the company, especially as mentor to engineering students and graduate engineers.

Sir Willis Connolly Memorial Medal

Prof Geoffrey Neil Phillips FAusIMM(CP): Neil Phillips is an internationally recognised gold geoscientist and research manager with experience in industry and academia. He has led teams in the application of geoscience to successful exploration and mining practices. Neil is experienced in both developing and transferring R&D ideas between university and industry; and he has developed and introduced innovative methods for gold exploration.

Neil has been a director of Phillipsgold Pty Ltd since 2008 and holds several academic and institute positions, including honorary professorial fellow in earth sciences at the University of Melbourne, honorary professor in earth sciences at Stellenbosch University (South Africa), and honorary editor, Applied Earth Science journal. His experience includes roles as general manager geology, Great Central Mines (1995-2000), chief of division, exploration and mining for CSIRO (2001-04) and chair of the Victorian Institute of Earth and Planetary Sciences (2001-05).

Neil has been a Fellow of The AusIMM for more than 20 years and chaired the Geoscience Committee (now the Geoscience Society) in 2008-09.