



The AusIMM Awards Recipients

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The Institute Medal

- 1935 **Guillaume Daniel Delprat**, in recognition of eminent services in the advancement of mining and metallurgical science and practice and particularly in regard to his work of Broken Hill and in the establishment of the steelworks of Newcastle, New South Wales.
- 1936 **William Edward Wainwright**, for outstanding service in the development of mining and milling practice on the Broken Hill field and for untiring public service in many directions associated with mining and metallurgy.
- 1937 **Leslie Bradford**, for his work in connection with the development of the flotation process at Broken Hill and in connection with the development of the steel industry in Australia.
- 1938 **Hyman Herman**, in recognition of his services to the Commonwealth and the States of Victoria and Western Australia in the development of their mineral resources; for his achievements in connection with the brown coal deposits of Yallourn, Victoria, and generally for long and valuable services to the mining industry and to this Institute.
- 1939 **Sir Herbert Gepp**, in recognition of his serves to mining and metallurgy and particularly in connection with the development of flotation processes in the treatment of complex sulphide areas and with the establishment of the electrolytic zinc industry in Australia.
- 1940 **Essington Lewis**, in recognition of his outstanding work in the development of the steel and allied industries in Australia, his personality, vision and organising ability as applied to this work; and for his national service.
- 1941 **Adam Alexander Boyd**, in recognition of his services in the development of underground mining methods at Broken Hill, coal mining in New South Wales, gold and copper mining at Mount Morgan, and generally for outstanding contributions to mining practice over a period of fifty years.
- 1942 **George Kenneth Williams**, in recognition of the outstanding merit of his contributions to the science of lead metallurgy, make through the invention,, development and application of his process for continuous and full refining of silver-lead bullion, at the lead smeltery of the Broken Hill Associated Smelters, Port Pirie, South Australia. His process is the only method of continuous refining practised in the world of lead metallurgy today.
- 1943 **Russell Mervyn Murray**, in recognition of his outstanding services in the development of the mining and metallurgical practices at Mount Lyell, Tasmania.
- 1944 **Joseph Franklin Thorn**, in recognition of eminent services rendered to the mining industry by his contribution to the mining and metallurgical practices as applied to the ores of Western Australia.
- 1945 **Andrew Fairweather**, in recognition of his long and efficient service to the mining industry, his valuable contributions to the industrial phase of Broken Hill operations, and also for the splendid work he has done in guiding and introducing mining students to the profession.
- 1946 **Julius Kruttschnitt**, in recognition of his outstanding served in connection with the development of mining and ore treatment in Australia and New Guinea, and particularly at Mount Isa, Queensland.
- 1947 **Frederick George Brinsden**, in recognition of his contribution to the metallurgical treatment of sulphatelluride gold ores and for his outstanding services towards securing continuity, stability and harmonious industrial relations in the mining industry of Western Australia.

- 1948 **Frank Leslie Stillwell**, in recognition of his contributions to the geology of many Australian mineral fields and to the science of mineragraphy in which he has established an international reputation.
- 1949 **William Sydney Robinson**, in recognition of distinguished services to the base metal and gold mining industries in Australia and the British Commonwealth, and to the Empire and Allies during the two World Wars.
- 1950 **Francis Richard Hockey**, in recognition of his long and outstanding service in the development of the raw material requirements of the steel industry, of his contributions to metalliferous mining and of his splendid work in the training of young men for Australian industry.
- 1951 **Harry Hey**, in recognition of his contribution to research in, and the development of, the electrolytic zinc and associated industries, including the utilisation of by-product sulphur, and to his work in their organisation and administration.
- 1952 **George Mason Hindmarsh**, in recognition of his services in the progressive development of the coal mining industry of Australia.
- 1953 **Frank Fancett Espie**, in recognition of his professional work in Burma and in Western Australia and his leadership in the safe transference of the Burma Corporation staff in 1944 through Japanese occupied territory.
- 1954 No award was made for The Institute Medal in 1954
- 1955 **Maurice Alan Edgar Mawby**, in recognition of his contribution to exploration and to non-ferrous metallurgy and also of his continuous public service in many directions associated with mining and metallurgy.
- 1956 No award was made for The Institute Medal in 1956
- 1957 **Godfrey Bernard O'Malley**, in recognition of the invaluable services he has rendered to The Institute, and through it, to the mining and metallurgical industries over a long period of years, and also of his valuable contribution to education and research.
- 1958 **George Read Fisher**, in recognition of his services to the base metal industries of Australia, and in particular to the growth of the Mount Isa Mineral field and integrated industries.
- 1959 **Ian Munro McLennan, CBE**, in recognition of his long service to the steel industry both in production and in utilisation, of his national service in many phases of the Australian economy and of his contribution to the welfare of The Institute.
- 1960 **J Malcolm Newman, CBE**, in recognition of his long service to the mineral industries, in particular gold and copper mining in Western Australia, Queensland and New Zealand, and tin mining in Malaya and Australia, and for his national services in many fields of primary industry.
- 1961 **J Neill Greenwood**, in recognition of his outstanding services to metallurgical education in Australia, of his eminence in metallurgical research, and of his contributions, directly and through his graduates and research groups, to the development of Australian industry.
- 1962 **G Lindesay Clark, CMG**, in recognition of his leadership in the exploration, development and extraction of a wide range of Australia's mineral resources, including notably gold in Western Australia and Victoria, lead-silver-zinc and copper in New South Wales; and for his personal part in the establishment of a major aluminium complex.

- 1963 **Asdruebal James Keast, CBE**, in recognition of his outstanding record in the building and reconstruction of major mining and metallurgical enterprises, including lead-silver-zinc, aluminium and uranium in Australia and gold in Canada; also for his personal initiation of improvements in industrial and social welfare in these industries.
- 1964 **Sir Harold Raggatt, CBE**, in recognition of his outstanding contribution to the exploration and development of Australian mineral resources, including notably water and petroleum, and in particular of his leadership in the establishment of the Bureau of Mineral Resources, Geology and Geophysics.
- 1965 No award was made for The Institute Medal in 1965
- 1966 **Heywood Wilkinson**, in recognition of his services to the coal industry, including his work in the introduction of mechanised mining practises and his great contribution to the development of human relations.
- 1967 **James Donald Campbell**, in recognition of his outstanding contribution to the exploration of many Australian mineral fields notably gold, and also silver-lead-zinc, aluminium and nickel, and to the science of structured geology in which he has established international repute.
- 1968 **Eric Aroha Rudd**, in recognition of his outstanding work in the application of geological methods to the search for oil and minerals and to engineering in Australia, and of his contribution to the teaching of geology.
- 1969 No award was made for The Institute in 1969
- 1970 **Nils Emil Nilsen**, in recognition of his outstanding services to Australian exploration, mining and metallurgical operations particularly those in Western Australia also equally for his contributions to community service and the economic well-being of Fiji with accent on the combined operations of the gold mines at Vatukoula.
- 1971 **William Matheson Morgan**, in recognition of his distinguished services to the mining and metallurgical industries of Australia and particularly to the development of the nickel industry of Western Australia.
- 1972 **James William Foots**, in recognition of his contribution to the technical and administrative aspects of base metal mining in Australia.
- 1973 **Haddon Forrester King**, in recognition of his great contribution to the science and practice of geology and particularly to the exploration for and discovery of ore deposits in Australia and New Guinea.
- 1974 **John Seymour Proud**, in recognition of his leadership in the exploration and development of Australian mineral resources and particularly his contribution to the mining industry in the Northern Territory.
- 1975 **Keith Addison Rowell**, in recognition of his contribution to the development of Australian resources, particularly iron and manganese ores and petroleum, and of his work with the Aborigines at Groote Eylandt.
- 1976 **Laurence Charles Brodie-Hall, CMG**, in recognition of his service to the development of the mineral industry, particularly in Western Australia, and including his outstanding contribution to education and to community service
- 1977 **Howard Knox Werner**, in recognition of his contribution to the mineral industry and the profession, particularly in the academic, research and process development fields and of his outstanding public service.

- 1978 **Sir Brian Massy-Greene**, in recognition of his outstanding service to the metallurgical and mining industries of Australia and particularly in the development of a mining house with wide geographical and product base.
- 1979 **Cornelius Harris Martin**, in recognition of his outstanding service to the coal industry of Australia, in particular for his leadership and his contribution to modernisation of coal mining technology.
- 1980 **Sir Frank Espie, OBE**, in recognition of his leadership in the mining industry in Australian and his contribution to Papua New Guinea through his work in the development of the Bougainville Project including the sociological aspects.
- 1981 **Charles Wooller Marshall, AO**, for his pioneering work in exploration and development in Papua New Guinea, his contribution to the Australian coal mining industry, his leadership as a mining engineering consultant, and his services to The Institute.
- 1982 **Sir Russel Madigan, OBE**, for his leadership in Australian Mining and metallurgical developments, particularly the iron ore industry, for his great contribution to relations with Japan and for his outstanding service to The Institute.
- 1983 **Sir Arvi Parbo**, for his services to the mining industry, particularly in Western Australia, and his active role in business and government relationships at both the national and international level.
- 1984 **Roy Woodall, AO**, in recognition of his success in the application of original geological concepts in exploration resulting in major mineral discoveries in Australia and for his professional competence and outstanding leadership qualities which are acknowledged worldwide.
- 1985 **David James McGarry, AM**, for his significant contribution to geological and petroleum engineering leading to the discovery of the Moonie, oilfield, Australia's first commercial producer, his public leadership of the Australian petroleum exploration industry, his contribution to many government and other petroleum and energy studies, his continued interest and encouragement of professional technical education, and his administrative skills and personal ability in leading, for many years, the company Australian Oil and Gas Corporation Ltd.
- 1986 No award was made for The Institute Medal in 1986
- 1987 **John Philip Morgan**, in recognition of his outstanding contribution to the mineral industry and the profession, particularly in a pre-eminent capacity as an educator of Australian mining engineers and as a leader in research into mining methods and machinery.
- 1988 **Donald Sinclair Carruthers**, in recognition of his outstanding contribution to exploration in Australia and the South Pacific and for his managerial skills, but particularly for his contribution to coal and copper.
- 1989 **Brian Thorley Loton AC**, in recognition of his vision and outstanding contribution to the development of steel, petroleum and other minerals in Australia and overseas.
- 1990 **John Kenneth Allister McLeod (deceased)**, in acknowledgment of an outstanding career as a mining engineer from the mineface to board chairmanship with leadership in the professional and ethical aspects of base metal, gold and coal mining and a dedicated long continuing association with The Institute from Student member to President.
- 1991 **Dr Thomas G Callcott AM**, in recognition of his prominent services to the coal mining industry and associated metallurgical industry.

- 1992 **James Richard May**, in recognition of his outstanding contribution to the initiation and management of mineral research and technology through his role as Chief Executive Officer of the Australian Mineral Industries Research Association (AMIRA) and involvement with research organisations throughout Australia.
- 1993 **Professor Alban J Lynch AO**, in recognition of his outstanding personal contribution to mineral processing and his leadership in research and education as the first Director of the Julius Kruttschnitt Minerals Research Centre, former Head of the Department of Mining and Metallurgical Engineering, University of Queensland, and leader in the development of the Sir James Foots School of Mineral Resources.
- 1994 No award was made for The Institute Medal in 1994
- 1995 **Roger Andrew Geoffrey Vines**, for his outstanding contribution to the mining industry of Australia as Manager of Alcoa of Australia's bauxite mining and refining operations in Western Australia from 1982 to 1994. The operations are now the world's largest source of alumina and a major contributor to the Australian economy. Also for his contributions to work place safety, technological research, education, environmental management, and mine site rehabilitation.
- 1996 **Charles H Warman**, (deceased 01) for his achievement of an international reputation for the design and manufacture of slurry pumps which have dominated the Australian and international markets for 50 years, being the subject of many international patents and sold in over 100 countries. He continues his creative work through his own research company, which continues innovative engineering design and supports student education and development.
- 1997 **John Joseph Toomey**, for his eminent services over 40 years to the Mineral, Mining and Metallurgical industries and in particular in his role as Research Manager and Director of the BHP Coal Special Research Program.
- 1998 **John T Ralph AC**, in recognition of his long and distinguished service to the mining and manufacturing industries, for his major contribution to a large and diverse range of professional, governmental, educational, business and community organisations and for his service to and leadership of The Institute.
- 1999 No award was made for The Institute Medal in 1999.
- 2000 **Dr Sydney M Richards**, for leadership in research and technology in the Australian minerals industry over a forty year career encompassing outstanding research and commercial achievement and especially for unstinting and visionary support for Australian science and technology organisations.
- 2001 **Mr Hugh Morgan AC**, for his contribution to the development and growth of the Australian Minerals Industry and his leadership in meeting the major internal and external challenges to the Industry in Australia and overseas.
- 2002 **Robert Cameron**, for his outstanding leadership in the Australian coal mining industry, the enhancement of its reputation in the communities within which it operates and his strong business ethic delivering not only appropriate rewards for all stakeholders in his Company but also of the strongest of recognition from his competitors.
- 2003 **Dr. Robin Batterham**, for his distinguished academic credentials, high-level industry career and prominent public sector service which present an unparalleled record of eminent achievement at the highest levels in academia, industry and the public sector at both the local and international level.

- 2004 **Bruce Hobbs**, for his research and leadership, which have had a profound impact on the discipline of structural geology, the mechanics of the earth and its applications not only in Australia but also world-wide to serve the strategic needs of the industry. Bruce is a scientist of international standing, a research strategist without peer who has been instrumental in building capabilities of generations of Australians through the generosity of his ideas and energy.
- 2005 **Owen Hegarty**, for his achievements in a distinguished career in the Australian mining industry, for his inspirational leadership, his dedication to delivery, performance, his passion for resources and his role in rebuilding the innovative, mid-sized mining corporation in Australia.
- 2006 **Robert Bryan**, for his lifetime commitment and leadership in the mining industry, and also his driving passion to see quality outcomes in education and research in this sector. This has seen Bob Bryan drive four public companies from explorer status to producer, and has also led to the establishment of the WH Bryan Mining Geology Research Centre at the University of Queensland.
- 2007 **Ian Gould**, for sustained service to the minerals sector, through Chairmanship and participation in industry representative organisations, for continuing passionate advocacy and strong representation, and as a Chair, previous Chief Executive and Non-Executive Director, Ian has shown leadership over and above the call of duty.
- 2008 **Richard Leigh Clifford AO**, for his outstanding leadership of the Minerals Industry globally through his eminent contribution to the CRA/Rio Tinto Group, active promotion of professional development, the advancement of indigenous employment in the Australian mining industry and recognition of the importance of sustainable development.
- 2009 **Zimi Meka**, for his remarkable capacity for developing new opportunities through technical innovation and culturally sensitive business practices. Zimi has demonstrated this as the CEO and co-founder of Ausenco Limited, which specialises in designing, constructing and commissioning mineral processing plants throughout the world, including some in difficult and remote locations.
- 2010 **Peter Coates AO**, in recognition of the key role he played in the development of industry leading workplace reporting and governance standards, for numerous joint venture partnerships and other UK and Australian listed companies.
- 2011 **Ian Smith**, in recognition of his 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. 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.
- 2012-2013 **Dr Megan Clark**, in recognition of her leadership, and work in sustainability and research within the mining industry.
- 2014 **Andrew Forrest FAusIMM(CP)**, in recognition of Andrew "Twiggy" Forrest's outstanding leadership and support of the Australian Minerals Industry. He is a passionate advocate for the industry and is at the forefront in addressing the challenges it faces. His personal contribution is recognised and in particular his philanthropy and endeavour to eliminate indigenous disadvantage and global slavery.
- 2015 **Sam Walsh FAusIMM(CP)**, in recognition of Sam's contributions and leadership within the industry. Sam is currently Chief Executive Officer of the Rio Tinto Group. Prior to this he was Chief of Rio's Iron Ore Group and Rio Tinto Australia, during which time he oversaw mining

operations and expansion in the Pilbara. He spent 20 years in senior positions at GM and Nissan before joining Rio Tinto. From his automotive industry background, Sam brought a deep understanding of production systems and productivity tools. He was instrumental in introducing techniques such as Six Sigma and Lean Manufacturing into the Australian aluminium and iron ore industries. These initiatives were responsible for the increased automation in Rio Tinto's Pilbara mines, including the development of autonomous loading, haulage and train operations. Sam is a leader among mining industry chief executives. He maintains his membership as a Fellow and Chartered Professional of the AusIMM and has provided support to AusIMM events and projects, including major AusIMM publications.

2016

Charles (Charlie) Sartain FAusIMM, in recognition of his commitment to the global minerals industry spans 35 years. He spent the early part of his career in a variety of mining engineering and management roles at the Mount Isa Mines complex in north Queensland, Australia. He then held several general manager and executive roles in Australia and overseas before being appointed Chief Executive of Xstrata Copper and a member of Xstrata plc's Executive Committee in January 2004. Over the subsequent years Xstrata Copper grew to become the world's fourth largest copper producer. Charles left the Xstrata Group upon the completion of the merger with Glencore plc in May 2013.

As his career progressed, Charles developed parallel philanthropic and corporate activities that enhanced research, promoted social responsibility and recognised the importance of the minerals industry in a global context.

Charles is a Fellow of the AusIMM and the Australian Academy of Technological Sciences and Engineering. He is currently serving on numerous Boards and committees, and is involved in charitable works through the Sartain Foundation.

President's Award

- 1974 ***Dr Richard Limon Stanton***, for his original and largely independent research into patterns of ore genesis in layered rocks and for his publications including the volume *Ore Petrology*, 1972, these achievements representing a contribution at an international level to the geology of ore occurrence.
- 1975 ***Dr Gordon John Williams***, for his achievements in the field of education and authorship particularly, in compiling and editing two volumes on the *Economic Geology of New Zealand*, 1965 and 1974, and in the former case for his work in writing the greater part of the volume.
- 1976 ***Dr Elliott Sylvester T O'Driscoll***, in recognition of his original work in the development of tectonic models demonstrating principles of geological deformation and the application of these to the tectonics of ore deposits and to continental tectonic patterns.
- 1977 ***George Watherston Hills***, for his achievement in the field of engineering design and construction in the development of major mining and metallurgical operations in Australasia.
- 1978 ***Dr Alban Jude Lynch***, for his achievements in primary metallurgical research, its application in industry, dissemination of research results, and promotion of post-graduate education.
- 1979 ***Dr Norman Henry Fisher AO***, for his contribution to the basic geological knowledge of Australasia providing the framework for discovery and development of mineral resources, and in recognition of his part in enhancing Australia's reputation internationally in the geological field.
- 1980 ***James Thorpe Woodcock***, in recognition of his contribution to the publications of The Institute and in particular his services as Honorary Editor since 1965.
- 1981 ***Albert Arthur Charles Mason***, in recognition of his achievement in the development and management of mining operations in Australia, particularly gold, tin and tantalum and his dedication to the mining profession.
- 1982 ***Ivan Edgar Newnham, AO, MBE***, for his personal achievements in research and development for the mineral industry and his leadership in these fields.
- 1983 ***Bruce Stanley Rawling***, for his significant contribution to the development of modern analytical and flotation plant control techniques.
- 1984 ***Clement Leslie Knight***, for his major contribution to discovery of the McArthur River lead-zinc deposits, the development of the 'source bed' concept for exploration and for his role as Editor-in-Chief of The Institute's 1975 volume *Economic Geology of Australia and Papua New Guinea*.
- 1985 No award was made for the President's Medal in 1985.
- 1986 ***Francis Everard Hughes DFC***, for his major contributions to mineral discovery in Australia, in particular iron deposits at Mount Tom Price in the Hamersley and diamonds at Argyle in the Kimberley, by means of his eye for detail, his persistence, his patience and diligence in the field serving as a model for his fellow geologists.
- 1987 ***Dr Thomas Ronald Albert Davey***, in recognition of his contribution to the metallurgical industry and technological developments that resulted in improved processing of several base metals, not only in Australia but also Europe and USA, his contribution to education in universities in Australia and the USA and the stimulation he gave those he lead in research activities in operating plants, the CSIRO, and universities.
- 1988 ***Henry James Evans OBE***, for his contribution to early oil and gas exploration in all areas of Australasia, as well as his recognition of the significance of the Weipa bauxite deposits.

- 1989 **Ross Raymond Large**, for his outstanding contribution as an economic geologist particularly for his work on Tennant Creek orebodies and the Canadian archaean base metal deposits and also for his ability to combine the practical application of geology with leadership in teaching that science.
- Kenneth Elliot Mathews**, in recognition of his services to the development and mining of the Mount Isa orebody and particularly for his contribution to stoping methods.
- 1990 **Michael Andrews Eager**, for his outstanding contribution to the planning, construction and commissioning of the Hellyer Project in Tasmania. This included the overall concept from underground mining of a major multimetal orebody, through mineral processing of material difficult to separate by conventional processing to the arrangements for disposal or shipment of mill output. The project, with a number of innovations in flowsheet and equipment use, was built in an environmentally sensitive area, and completed within budget constraints of time and costs.
- 1991 No award was made for the President's Medal in 1991.
- 1992 **Robert James Crew**, for outstanding contribution to the development of the world class copper/uranium orebody at Olympic Dam as Mine Superintendent and Resident Manager from 1980 to 1991. In this period the exploratory shaft and underground development was accomplished, a metallurgical pilot plant and feasibility studies were completed and the full scale mine, concentrator, hydrometallurgical plant, smelter and refinery were successfully commissioned.
- Nicholas Francis Robinson**, for personal contribution to the success of the Electrolytic Manganese Dioxide project at Newcastle. This included taking the process from the Laboratory through commercial planning and engineering design stage of both the pilot scale and the production plant. Responsibilities included economic and market studies with securing of overseas sales contracts for 95 per cent of production.
- 1993 **Dr Bill Johnson**, in recognition of being a major force behind mineral processing research at Mount Isa for the past decade including treatment of the complex Hilton orebody and the even more difficult separation problems of McArthur River ore and gaining an international reputation for his work in developing technologies to improve plant processes.
- 1994 **Dr Raymond Ernest Smith**, in recognition of his outstanding contributions advancing exploration practice in regolith-dominated terrain in Australia. This has included the transference of research findings into application through substantial and successful research projects at CSIRO funded by AMIRA and individually by companies. Over the last decade, he has led his research team into a comprehensive three-dimensional approach to regolith geology resulting in the discoveries of world-class gold deposits. The work has significantly changed the exploration strategies of the Australian industry through his and his team's development of new approaches thus opening up vast new areas to exploration.
- 1995 **Dr Kevin Rosengren**, for his contribution to the practice of mining and geotechnical engineering in Australia and overseas with particular reference to slope stability in open pits and the selection of stoping methods in underground mining.
- 1996 **Dr John Millice Floyd**, for the invention, development, proving and the successful commercialisation of the top-submerged lancing smelting system, a technology with worldwide impact on smelting.
- 1997 **Denis Rodney Brooks**, for his eminent service in the advancement of environmental management in the Minerals Industry over many years. A pioneer of numerous rehabilitation techniques now used widely throughout the Industry. He has also served on numerous

industry and Government committees, working groups and task forces, and is recognised by his peers as a leader in environmental management.

- 1998 **Professor Graeme John Jameson**, for his eminent services to the mineral, mining and metallurgical industries and in particular in recognition for his contribution to the engineering of froth flotation through the invention of the Jameson flotation cell.
- Dr Andrew White**, in recognition of his dedication to the development and teaching of mineral exploration management practice especially through short courses and publications in Australia and overseas.
- 1999 **Henry B Muller**, for his contribution and leadership in mineral processing including the development and implementation of the process flowsheet at Olympic Dam and his ongoing commitment to the development of younger metallurgists.
- Peter Dent**, in recognition of his contribution to the Mining Industry in mine safety, testing and research and in the reorganisation of the safety role of the Queensland Department of Mines and Energy and the establishment of SIMTARS. In addition for his on-going commitment to the education of young engineers and his major role in the creation of the Mineral Industry Safety and Health Centre at the University of Queensland.
- 2000 **Professor Ian M Ritchie**, is acknowledged by his peers in the profession as one of the top hydrometallurgical researchers in the world. In the AJ Parker CRC, he has created the world's pre-eminent hydrometallurgical research organisation.
- 2001 **Don Berkman**, for extraordinary contribution to the Institute publications, especially the Field Geologists Manual which is the Institute's most successful publication.
- 2002 **Norman Miskelly**, for consistent commitment shown by Mr Miskelly over many years to improved reporting standards for Resources and Reserves by mining companies has been instrumental in the development and wide acceptance of the JORC Code and in the development and likely acceptance of international reporting standards.
- 2003 **Professor Don McKee**, for his leading role in the development of the Sustainable Minerals Institute which is a world class educational, research and training facility. Its standards are acknowledged as reflecting the highest aspirations in sustainable, economic, social and environmental development.
- 2004 **Clive Bell**, for his involvement in soil chemistry and mine rehabilitation research for the past 30 years and contribution as author or co-author of over 180 publications. Clive has successfully supervised 57 PhD and Masters students, many of whom have found employment in the mining industry as environmental officers or in industry-related regulatory or consulting positions.
- Alan Broome AM**, in recognition of more than 25 years of important contributions to the development of the Australian mining supply sector, including leadership of research activities, export development, commercialisation of innovation, assistance to companies to harness e-business processes and advice to government organisations on the development of Australia's mining equipment, services and technology sector.
- 2005 **John Collier**, for his success as a leader of exploration in the CRA/Rio Tinto Group and as a pioneer of new commodities in new geological settings. His recognition, discovery and championing of the potential of the WIM mineral sands deposits in the Murray Basin was the initiating step, leading to development of a new and world class Australian mineral province and operations.

- 2006 **Barry Brady and Ted Brown AC**, for their international recognition as expert practitioners in the field of Rock Mechanics and Geotechnical Engineering during distinguished careers as teachers, researchers, consultants and publicists.”
- 2007 **Paul Heithersay**, for his pivotal role in developing and implementing the PACE initiative in SA, in recognition of the outstanding reputational and exploration success which it has generated and for demonstrating the critical importance of public-sector vision and leadership in the discovery process.
- 2008 **Professor Eric Grimsey**, for his significant contribution to mining education in Australia and to The AusIMM. Eric has spent most of his professional career teaching and researching extractive metallurgy at Murdoch University and Curtin University of Technology, where he served as Director of the WA School of Mines. He has also been Vice President and a Councillor of The AusIMM and is currently Chair of The AusIMM Ethics Committee.
- 2009 **Derek Carter**, for his work in taking a leading role in demonstrating the exceptional prospectivity of South Australia through his formation and guidance of the Minotaur group of companies. This work has highlighted not only the Gawler Craton through the discovery of the Prominent Hill orebody (now an established world class copper-gold operation), but also the geothermal potential in the Flinders Ranges (by Petrathern) and accessing copper/nickel opportunities in the little explored and remote Musgrave Block (by Mithril). Derek was the initiator of Toro Energy, which is engaged in the development of the Wiluna uranium deposits. Through these activities, and his earlier discovery of the Los Santos tungsten orebody in Spain, he is universally recognised as an innovative and successful explorer.
- 2010 **Dr Tony Christie and Dr Robert (Bob) Brathwaite**, in recognition of notable achievement in the industry. They were joint editors and lead or contributing authors for 20 of the 47 papers in AusIMM Monograph 25 “*Geology and Exploration of New Zealand’s Mineral Deposits*”. Along with AusIMM Monographs 4 and 13 “*Economic Geology of New Zealand*”, this ranks as a milestone publication in documenting part of Australasia’s mineral occurrences.
- 2011 **Professor Tim Napier-Munn**, in recognition of his contribution to research and development within the minerals industry. Tim 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 JKMRRC in 1985 becoming its Director in 1997 and inaugural MD of JKTech Pty Ltd in 2001. Tim has given his professional development course on Statistics for Metallurgists over 125 times around the world and is writing a book on the subject.
- 2012-2013 **Geoff Loudon**, in recognition of his eminent leadership and success in exploration and development of minerals deposits in Australasia, Asia and South America. Geoff has devoted his life to the minerals industry and has exceeded every exploration geologist’s dream by discovering at least two gold mines and a copper mine. Geoff is probably best known for his association with the discovery and development of the Lihir gold mine in PNG.
- 2014 **Dr Robert Johnson FAusIMM**, in recognition of his contributions back to the industry through the development of the Maptex modelling and analysis software. In 2011 Maptex celebrated 30 years of service to the mining industry.
- 2015 **Peter Stoker HonFAusIMM(CP)**, in recognition of new and significant contributions to the Institute and industry since being awarded the Honorary Fellowship in 2011. Key achievements include the development and delivery of a major revision to the JORC Code, significant contributions to AusIMM’s Monograph 30 publication and promotion, and increasing the recognition and uptake of the JORC Code by the Chinese minerals sector.
- 2016 **Denby Ward FAusIMM**, Denby Ward has been instrumental in developing new metallurgical technologies, leading research and engineering teams, and mentoring young metallurgists and chemical engineers. As Research Superintendent at the Broken Hill Associated Smelters Pty Ltd at Port Pirie, Denby helped develop a number of innovative technologies. He then

spent a period as General Manager of the Port Pirie works, before transferring to Melbourne in the 1980s as General Manager Technology of Wimmera Industrial Minerals. Denby also spent some years as a Research Fellow in the Department of Chemical Engineering at Monash University, where he contributed considerably to student development and research.

Honorary Fellowships

- 1962 **Lloyd E Elkins**, a distinguished and highly respected Research Executive in the Petroleum Industry, President for 1962 of the American Institute of Mining, Metallurgical and Petroleum Engineers; and an honoured guest at the 1962 Annual Conference of The Institute.
- 1974 **Dr John Convey**, for his contribution in the fields of research and development of Canadian mineral resources and metals, including the development of controlled atomic energy.
- 1975 **Sir George Fisher**, in recognition of his valuable services to science and industry.
- 1976 Nil
- 1977 Nil
- 1978 **Wayne L Dowdey**, for his distinguished record in the mineral industry of the United States of America and in particular for his services to the American Institute of Mining, Metallurgical and Petroleum Engineers.
- 1979 **Sir Ian McLennan**, in recognition of his long and dedicated service to The Institute and its members, to the support and enhancement of the professions represented by the membership of The Institute, and to the development of the mining and metallurgical industries.
- 1980 **Sir Henry Somerset**, for his distinguished services to education, research and industry especially in Tasmania, and for his outstanding contributions to the work of The Institute.
- 1981 Nil
- 1982 Nil
- 1983 Nil
- 1984 **Sir James Foots**, For his dedicated and fruitful leadership in the affairs of The Institute as a Councillor over 27 years, including in particular his outstanding contribution in reviewing the structure and organisation of The Institute, also his fastering of close relations with international kindred societies as a representative of The Institute and for his contribution to the mining industry throughout Australasia.
- 1985 Nil
- 1986 **Osmar Julius Blau**, in recognition of his long and on-going contribution to the affairs and advancement of The Institute and geoscience professions, and for active participation in forwarding education in the minerals industry and his lengthy services to the community.
- 1987 **Lloyd Samuel Jones**, for his long and dedicated involvement in the affairs of The Institute, particularly the New Zealand Branch where he has been Chairman or Secretary since its foundation in 1966; and his significant contribution to the mineral industry in New Zealand from his former Mines Division position of Chief Mining Engineer (Minerals) and Chief Inspector of Mines, Quarries and Petroleum.
- 1988 **Professor Geoffrey Blainey**, in recognition of his services in recording and presenting the history of Australian mining and for his contribution in raising the awareness of the heritage of the profession.
- Sir Frank Espie**, for his committed leadership to The Institute and the mineral industry and for his wise advice and guidance to the affairs of the Council and this Institute.

Sir Laurence Charles Brodie Hall, in recognition of his long service to The Institute, his consistent support for mining education, especially in the Western Australian School of Mines, Kalgoorlie, and his significant contribution to the mining industry.

John Campbell Jenkins, for his dedication to the activities and traditions of The Institute and his significant career in the copper industry; also for the great personal contributions he has made to the careers of many people.

Professor Eric Aroha Rudd, In recognition of his continued enthusiasm, over many years, for education in the geosciences resulting in his elevation to Emeritus Professor, and for his long-held belief that commercial discoveries of oil and gas would be made in this country, and for his contribution to the growth of The Institute.

Professor Howard Knox, in appreciation of his continuing search for creative means of improving metallurgical efficiency and for his model career in academia and industry.

1989 **John Funnell**, in recognition of his services to lead and zinc production and his management of diverse professionals in the industry.

John Laurence Liebelt, in recognition of his service to the management of the mineral industry and for his council and leadership of the affairs of The Institute.

1990 Nil

1991 **Sir Russel Madigan**, for his dedicated service to the mining industry and The Institute including terms as President, Vice-President, Councillor and member of various Committees. Also for his active involvement with overseas kindred bodies.

1992 **Jack Gilroy Symons**, for his contributions to mining from both industry and government, and his outstanding service to The Institute over 58 years, including Tasmanian representative on Council for 14 years and as Vice-President and President.

James Thorpe Woodcock, in recognition of his long contribution to mineral chemistry research at CSIRO acknowledged by his authorship (or co-author) of more than 150 papers published in Australia and overseas and his continuing years of service to The Institute as Consultant Editor of Monographs and other volumes issued by The AusIMM.

1993 **Associate Professor Michael H Buckenham**, in recognition of his service to the mining industry particularly in the field of education and his service to The Institute as a Member of various Committees, especially his 28 years continuous service as a Member and former chairman of the New Zealand Branch.

Donald F Fairweather, In recognition of his active association with The Institute throughout a distinguished career, including service as Councillor, Vice President, Chairman of the Membership Committee, Chairman of the Organising Committee of the Third International Mine Water Congress and membership of various Committees.

1994 **William Joseph Fisher AM**, in recognition of his long and dedicated service in many capacities to the Australian mining industry and to his leading role, through the Darwin Branch of The Institute, in the creation of informed, public debate on issues of the day, notably multiple land use, uranium mining and Aboriginal land rights as they influence the development of Northern Australia.

Bruce Phillip Webb AM, in recognition of his outstanding service to The Australasian Institute of Mining and Metallurgy and particularly in his role as President in 1986, Councillor from 1977 to 1991, Chairman of the Publications Committee from 1989 to 1991 and as an active member of various Committees during this term as a Councillor.

- 1995 **John Kenneth Allister McLeod**, for his long and dedicated service to The Institute in particular as a Councillor for 24 years, Vice President 1975/1976 and his role as President in 1978 and also in 1993 during The Institute's Centenary Year.
- John Oswald Reynolds OAM**, in recognition of his active participation in the affairs of The Institute over many years and for his outstanding contribution to the revitalisation of the Victorian minerals industry.
- 1996 **David Cowper Tennent**, in recognition of his long and dedicated service to The Institute in particular as a President in 1985 and a Councillor for 15 years. Also in recognition of his role as a founding member of the Mineral Industry Consultants Association (MICA) and founding Trustee of The AusIMM Education Endowment Fund.
- Dr Don Oswald Zimmerman**, in recognition of his contribution to the mining industry and The Institute in particular as President in 1987 and Councillor from 1980 to 1988. Also for the encouragement and assistance given to the development of the careers of other members of the profession.
- 1997 **Sir Arvi Parbo**, in recognition of his unique contribution to the leadership of the Australian Mining Industry, specifically to science and technology, and particularly his outstanding role in the development of the Australian Nickel and Alumina industries to their current World standing. Also in recognition of his contribution to The AusIMM as Councillor and President.
- 1998 **Dr A J Hargraves**, in recognition of his leading contribution to the objectives of The Institute for many years in his capacity as Councillor, Branch Chairman, Branch Honorary Secretary, Branch Committee member, editor and author. His relentless efforts to further the development of mining technology through both operational and academic research has gained him recognition and admiration on a worldwide basis. He is regarded as a role model for Institute members, and his enthusiasm has encouraged many others to actively participate in Institute affairs.
- 1999 **Dr Soetaryo Sigit**, for sustained, devoted and meritorious service to the professions of applied and economic geology and mining for a period of over 40 years involving Indonesian national and international interests, and for his contributions to the development of the Contract of Work concept resulting in Indonesia's world recognised system for foreign investment in mining projects in Indonesia.
- 2000 **John Travers Brady**: During a distinguished career as a mining engineer and manager he contributed widely to the development of the minerals industry in his various roles. In addition Jack was a tireless worker for The Institute being a Councillor, Chairman of the Executive, the Education and Accreditation and Unemployment Committees, and President in 1991.
- 2001 **Dr David Mackenzie**, for excellent, dedicated, selfless service to the Institute and the minerals sector commanding the respect of colleagues and members over forty years, particularly in studies and publications on ore deposits and the JORC Code. For being an outstanding role model, generous with time and effort, applying acumen and integrity for the Institute and the profession in so many areas.
- Sir Bruce Watson**: in recognition of his long and distinguished career in the Minerals Industry and The Institute, in particular as President in 1992. Also for his life-long contribution to the professions, to education and research, to the arts, and to charity organisations.
- 2002 Nil
- 2003 Nil

- 2004 **John (Jock) Campbell Braithwaite** has shown outstanding leadership in mineral exploration and development in metallic, precious and non-metallic mineral, and petroleum sectors in New Zealand. His technological contribution to alluvial gold mining is recognised internationally. Throughout his career he has maintained the highest levels of ethical, personal and professional conduct.
- Alastair H Blaikie**, for his service to The AusIMM including the Melbourne Branch Committee, The AusIMM Council, the Publications Committee, his significant contribution as Editor of Monograph 17 and The AusIMM Proceedings and his role as Electoral Officer over the past five years.
- Alban Lynch AO**, in recognition of his outstanding contribution to the Minerals Industry over many years which has previously been recognised through 50 years membership in 2004, The Institute Medal (1993), President's Award (1978), Distinguished Speaker Exchange Program (1989), President of The AusIMM (1989) and the Sir Willis Connolly Medal in 1991.
- 2005 **James Whitehead**, for his service to The AusIMM including the Melbourne Branch Committee as Honorary Secretary, The AusIMM Council, as Chair of the Mineral Heritage Committee, his involvement in a number of conferences and symposia and his role as Electoral Officer for many years.
- Leslie (Lee) Wedgwood Parkin AO**, for his contribution to the promotion of the mining and petroleum industries and to the ideals and aspirations of The AusIMM as well as his profound influence on those engaged in the minerals industry.
- John Graydon Eddy**, in recognition of significant contribution to The AusIMM Perth Branch activities and as a voice of wise advise in the industry.
- 2006 **Charles Copeman AM**, for his significant contribution over many years to the minerals sector in Australia and to The AusIMM since joining as a Student in 1949 and then serving as a Councillor from 1983 to 1989 and currently on the Sydney Branch Committee.
- Norton Jackson**, for his contribution to the Adelaide Branch of The AusIMM as a distinguished leader in the minerals sector in South Australia. He continues to enjoy the highest respect from his professional associates.
- 2007 **Ian Goddard**, for his contribution to The AusIMM during his 40 years' membership. He was on the Committees of three Branches, Councillor and Director for 14 years and elected President for 2002 and 2003. Ian has been a member of many AusIMM committees; led a review of the VALMIN Code; was on the Government's Action Agenda for Mineral Exploration; Chairs the ASMV; and is a member of JORC and CRIRSCO.
- 2008 **Michael Lawrence**, for his committed and continuing service over more than 40 years to the mining industry and The AusIMM. Michael is dedicated to promoting professional ethics and consultancy standards, particularly in the mineral valuation and dispute resolution fields. He has published more than 90 technical papers and actively participated in activities beyond the NSW Branch with a particular involvement in New Zealand Branch Annual Conferences. Michael has served as AusIMM President and Councillor and as Chair of the VALMIN and Alternative Dispute Resolution Committees.
- 2009 **Don Morley**, for his dedicated service to The AusIMM. Don has been a member for more than 40 years and was President in 2000. Don was a Councillor from 1992 to 1996, Honorary Treasurer from 1987 until 1996 and a Director in 2000 and 2001. He received the Beryl Jacka Award in 1997. Don played a significant role in managing the Institute's finances through difficult times and also was heavily involved in the major changes which were made to The AusIMM's structure. In a long and distinguished career, he was an Executive Director of WMC and served on industry bodies, such as the World Gold Council and as Treasurer of the International Council of Mining and Metallurgical Institutions (CMMI).

Eric Garner AM, in recognition of his distinguished and continued service to The AusIMM over many years. His contributions have included lengthy terms as a Councillor representing overseas members; Chair of the Membership Applications Committee; Chair of the Complaints Committee; and involvement in and valued advice to various Membership task forces, the Board and Chief Executive, and in negotiations with the ACCC and the revision of the Institute by-laws in 2004.

Dr Brian White, for his dedicated service to The AusIMM. Brian has been a stalwart member of The AusIMM for more than 30 years. During this period he has continuously contributed at a significant level through his membership of numerous Branch committees and with other important Institute roles, including the Chartered Practising Status Working Party. Brian has also worked tirelessly at a grass roots level, particularly in the area of tertiary education, to further the standing of The AusIMM. Brian received the Beryl Jacka Award in 1998 and has maintained a very active involvement in the Institute's affairs. He continued as a Councillor until 2000, served as a Director of the Board and became a member of the Interim Joint Board of AusIMM/IEAust in 2001. He has chaired the University Liaison Committee and was actively involved with the Australian Student Mineral Venture (ASMV) Executive Committee for many years from its outset. Brian is a current member of the Awards Committee, the Ethics Committee and the Mining Society Committee, and an erstwhile member of the Complaints Committee.

2010 **Richard (Dick) Carter**, in recognition of his outstanding contribution to The AusIMM through his chairmanship of the Education Endowment Fund Board of Trustees, of which he has been a member since 2005. His distinguished career in the minerals industry and contribution to the Institute has been recognised previously with the Sir Willis Connolly Award in 2001 and Beryl Jacka Award in 2002. Dick is a former Councillor and President (1998) of The AusIMM and led the review and corporate restructure which laid the foundations for the Institute's growth and success. He has also chaired the Ethics Committee (2005-2006) and was a member of the Corporate Support Taskforce in 2005.

Rod Elvish, for his sustained service to The AusIMM and the industry. Rod began his association with the Institute as a student member and progressed to Branch, Council and Board representation, and then to the position of AusIMM President in 2002 and 2003. He continues to serve on the Emerging and Strategic Issues and Heritage Committees, and on the Metallurgical Society committee and Sydney Branch committee, and has also served on the VALMIN and Awards Committees. Rod received the Beryl Jacka Award in 2003. He is a member of the International Mineral Processing Council and was instrumental in the organisation and delivery of IMPC 2010 in Brisbane. He also mentors student members and supports several initiatives for international students through The AusIMM.

2011 **David Pollard**, for his dedicated service to advancement of knowledge and skills in metallurgy. David 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, was a member of the AusIMM Education and Accreditation Committee from 1993 until 2007, and was also a member of the South Australian Chamber of Mines education committee from 1988-1993. David participated in the Australian Academy of Science school chemistry project and developed a minerals module for the Victorian HSC Chemistry course.

Peter Stoker, in recognition of his work as chair of 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.

2012-2013 **Dr Sandra Close**, for her extensive contribution to The AusIMM and to industry. Dr Close has been an active member of The AusIMM for 47 years and has served as Member and/or Chair of many Committees, as a Branch Chair and, for seven years in the 1990s, as an AusIMM Councillor. Dr Close has applied the knowledge and experience drawn from her extensive career in the resources industry, including geology, banking, finance and general management roles, to explain and promote the minerals industry and engage the wider community. The leadership and tenacity she has displayed over her long career serves as an example for both men and women in the industry. She wrote *"The Great Gold Renaissance - The Untold Story of the Modern Australian Gold Boom 1982-2002"*, the first comprehensive work on the Australian gold sector for about a hundred years. Dr Close is a recognised expert on the international gold sector and she continues to be an enthusiastic exemplar and advocate in many facets of the minerals industry. Dr Close's pioneering role as a professional woman in a number of fields, her achievements in her career and her on-going leadership, for almost half a century, are worthy of special recognition.

2014 **Prof Eric J Grimsey HonFAusIMM(CP)**, for his extensive contribution to The AusIMM. Eric received the President's Award in 2008 for his contributions to minerals education and for his service to The AusIMM as Vice President and Councillor. In 2003 Eric served as Chair of the Code of Ethics Review Committee and since 2007 he has been Chair of the Ethics Committee. Eric played a major role in refining the complaints process and publicising the work of the committee in *The AusIMM Bulletin* and at Congress. The Code of Ethics exists to ensure that all AusIMM members uphold and enhance the honesty, honour, integrity and dignity of their profession. Member awareness of the Code of Ethics and associated codes is an important function of the Ethics Committee and Eric Grimsey is a leader in this process.

The Hon Ian Macfarlane MP, Minister for Industry. The AusIMM Board is pleased to award the title of Honorary Fellow to the Hon Ian Macfarlane MP, Federal Minister for Industry. Minister Macfarlane is the longest-serving Australian Minister for Resources since the portfolio was created in the early-1980s. He served as Minister for Industry, Tourism and Resources from November 2001 till December 2007 when the Howard Government lost office. He held the shadow portfolio for the majority of the period 2008-13 and was appointed to the super-portfolio of Industry (including Resources) in September 2013 on the election of the Abbott Government. Mr Macfarlane is recognised by the resources industry and the many stakeholders who deal with him as a passionate and effective advocate for the industry. He has had an enduring impact on the policy and politics of the resources portfolio and in conjunction with his counterparts across the political spectrum, has built and maintained a bi-partisan approach to resources policy that is rare, if not unique in Australian federal politics.

2015 **Peter Lyle McCarthy HonFAusIMM(CP)**, in recognition of his exceptional leadership and contribution to the Institute over many years. Throughout his career, he has demonstrated outstanding professionalism and technical excellence, as well as unstinting dedication to preserving the important mining history of Australia.

Peter has been a member of the Institute for 45 years, a member of the Board for seven years (2003-2010) and was President of the Institute in 2007 and 2008. He has contributed to a number of committees over an extended period, including Audit and Risk Management, Awards, JORC, Emerging Issues, EEF Board of Trustees, Remuneration and Consultants Society and three Branch committees. He was instrumental in the rejuvenation of the Heritage Committee in 2008, having previously been a founding member in the 1980s. Peter has always been prepared to tackle difficult tasks with complete

2016 **Greg Chalmers HonFAusIMM(CP)**, Greg joined the Council of the AusIMM in 1995, and when Council was replaced by an elected Board in 2001 he was elected a Director. He was then elected President of the AusIMM for 2009 and served a second term in 2010,

completing an unbroken 12 years of service on the Board with two years as Immediate Past President in 2011-2012. Greg has served on many Branch, conference and Board committees, including the AusIMM's OH&S, Audit and Risk Management, Awards, Investment and Ethics Committees, as well as the Education Endowment Fund Board of Trustees.

Beryl Jacka Award

- 1993 **Sir James Foots AO**, in recognition of his dedicated and sustained service to The Institute having been President in 1974, Vice President from 1967 – 1972, undertook the responsibility of the first major Review of The Institute Structure and Organisation in 1984, Inaugural Chairman of the Executive Committee of Council and membership on a number of Committees during his 29 years as a Councillor.
- 1994 **John Lawrence Liebelt**, in recognition of his dedicated and sustained service to The Institute, having been President in 1983, Vice President in 1976 to 1979, undertaken a major review of The Institute's Structure and Organisation in 1992, Chairman of the Executive Committee of Council from October 1985 to 1994 and served on a number of committees during his 26 years as a Councillor, and having been active and held office in the Broken Hill Branch for many years.
- 1995 **John Travis Brady**, in recognition of his major contribution and dedication to The Institute as a member of various Committees, Councillor, President in 1991 and undertaking the role of Chairman of the Executive Committee of Council.
- 1996 No award was made for the Beryl Jacka Medal in 1996.
- 1997 **Donald Marshall Morley**, in recognition of his long association and major contribution to the affairs of The AusIMM, his significant and sustained services to the Minerals and Petroleum Industries, both during his illustrious career with WMC and his involvement at a senior level on the World Gold Council.
- 1998 **Dr Brian White**, in recognition of his significant contribution to The Institute over 20 years. He has been a Branch Officer in Kalgoorlie, Newcastle and Southern Queensland Branches; a Councillor of The Institute since 1995 and a Vice-President since 1996, in addition to his active involvement in Institute Committees, particularly Students and Young Professionals, Ethics, Education and Chartered Practising Status; and is a former Chairman of the Board of Management of the Mineral Industry Consultants Association. Also for his dedication in furthering the vision of The Institute to be the pre-eminent association serving minerals industry professionals in Australia and the Asia Pacific.
- 1999 No award was made for the Beryl Jacka Medal in 1999.
- 2000 **Lloyd S Jones**, in recognition to his significant outstanding contribution to the New Zealand Branch of The Institute for 33 years, including being Secretary for 32 years, since foundation in 1966. During that time he has dedicated much time to Institute matters. Also for his significant contribution to the minerals industry in New Zealand
- 2001 **Mr Michael Lawrence**, in recognition of his extraordinary and sustained contribution to The Institute and his profession over many years. Michael has served The Institute for some 35 years, including nearly 10 years as a Councillor and as President in 1999. During this time he has actively and assiduously promoted professional excellence, particularly with respect to standards of performance and ethical behaviour. Michael has made major contributions to The Institute's affairs, including inter alia the instigation of Chartered Status, the promulgation of the Valmin Code, and its membership of the Australian Council of Professions. He has also been actively engaged in the affairs of The Minerals Industry Consultants Association (MICA), including the areas of Alternative Dispute Resolution (ADR) and definition of the Expert Witness function.
- 2002 **Dick Carter**, in recognition of his outstanding contribution to the Institute as Councillor and President, in particular in leading the review of the Institute in 1998 and subsequently cementing the change.
- 2003 **Rod Elvish**, for extraordinary and sustained service to The Institute commencing with his active participation as a student representative in 1986 through branch, council and board

representation and the many committees and taskforces and culminating in a dedicated and extended period as President and Immediate Past President from 2001 to 2003.

- 2004 **Eric Garner AM**, for his continued service to The Institute over many years including his contribution as a Councillor representing overseas members, Chair of the Membership Committee and various Membership Task Forces over the last decade, and his involvement in negotiations with the ACCC and revision of the By Laws in 2004.
- 2005 **Vivienne Bull**, for ongoing extraordinary and sustained service and selfless work on behalf of The AusIMM at many levels including as a Councillor and Board Member, on the Membership Committee, New Zealand Branch and Conference Committees.
- 2006 **Michael Eager**, in recognition of the significant role he played within The AusIMM as a Councillor, Director and Branch Committee office bearer. He has also been an active member of the Ethics, Audit and Compliance, Membership and By-Laws Committees. He represented the Board on the JORC Committee and as a Trustee of the Education Endowment Fund.
- 2007 **John Dunlop**, for many years of dedicated service to The AusIMM, as a Councillor, Director, Perth Branch Chairman and organiser of conferences. His current involvement includes Chair of MICA, Alternative Dispute Resolutions, Heritage Committee and the Corporate Support Task Force and a driving force for the Mining Society. As Director, he was active in serving the Western Australian Branches. For extraordinary and sustained service to The AusIMM.
- 2008 **Dr Peter Lilly**, for his extraordinary and sustained service to the AusIMM and its members. Peter has served as President (2006) and Board Member (2001 to 2008, inclusive) of The AusIMM, and has been an active member of many committees including the EEF Board, Audit and Risk Management, Awards, Emerging Issues, Education, Publications and Events, Remuneration, Nominations, Mining Society, Kalgoorlie Branch, Perth Branch and Southern Queensland Branch.
- 2009 **Peter McCarthy**, in recognition of his exceptional leadership in advancing the values of professionalism and technical excellence throughout his career. He has both contributed to and led a range of initiatives aimed at representing the industry through his participation on a large number of AusIMM Committees. These roles have included membership of the Audit and Risk Management, Awards, JORC, Education Task Force, EEF Board of Trustees, Remuneration and Succession Planning Committees and Chair of the Heritage and Emerging and Strategic Issues Committees, and a past MICA Board member. Peter has served as an AusIMM Board Member since 2003 and as AusIMM President in 2007 and 2008.
- 2010 **Rick West**, in recognition of his extensive experience and a long involvement in the mining industry and for more than 45 years has contributed substantially to the work of The AusIMM. Rick joined the Institute in 1956, while studying mining engineering at Adelaide University. During this time, he served as student representative on the AusIMM Adelaide Branch committee. As his career developed, he served with several branches, including Broken Hill and then Sydney. He has been a key member of organising committees for annual and technical conferences and contributed to technical volumes as an author, reviewer and contributor. Rick was an AusIMM Councillor for five years from 1987-1991 and during this time was a key member of the JORC, Membership and Ethics Committees, among others. More recently Rick was chair of the Chartered Professional Board (since 2008).
- Roger Gregg**, in recognition of his active contribution to The AusIMM, and as member of the New Zealand Branch for more than 40 years. His service includes two terms as an AusIMM Director (2005-2007 and 2008-2010). He was Chairman of the NZ Branch (2001-2003) and a Branch committee member for a large part of his total time as an AusIMM member. Roger has been a NZ Branch conference organising committee member since the early 1990s. He

organised joint conferences with the Ministry of Economic Development and was Chairman of the NZ Minerals conferences in 1997, 2000 and 2005. He has made an enormous contribution to the NZ Branch conferences, and continues to do so. Roger has secured support and sponsorship from the minerals industry for these conferences, which in turn have made a major contribution to the ongoing financial and mentoring support for NZ university students through the NZ Education Endowment Trust.

- 2011 **Greg Chalmers**, in recognition of his extraordinary and sustained service to The AusIMM. 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. 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.
- 2012-2013 **Rob Ryan**, in recognition of his eminent service in mineral exploration in the Australian minerals industry for 56 years. He has worked continuously in the Australian and international mineral exploration and production industry. He played a key role in the discovery and development of the modern Australian uranium industry, as team leader of the Ranger One uranium deposit discovery in 1969. His technical abilities and inspired leadership produced a number of “firsts” for Australia and the world. New techniques pioneered for exploration included a range of radiometric geophysical methods, targeted geochemical tools, drilling techniques, and resource estimation methodology.
- Rob has served with dedication in many branch positions within the AusIMM and has always been an active member. He was author of BMR Bulletin 6, The geology and mineral resources of the Hatches Creek Wolfram Field, Northern Territory, published in 1961, has been the coordinating editor of AusIMM Monograph 12 (Field Guide for Geoscientists and Technicians), and had a great deal of input into AusIMM Monograph 9 (Field Geologists Manual) and its updates.
- Des White**, in recognition of his ongoing involvement with The AusIMM spanning his 60 year period of membership. Des first joined The AusIMM in 1953 as a student member and in 1955 and 1956 served as student representative on the AusIMM Adelaide Branch committee. As his career developed, he served with several AusIMM branches, including Mount Isa, Townsville, Canberra and then Sydney. Des is a Fellow and Chartered Professional of The AusIMM. He was a member of the committee of MICA – The Consultants Society of The AusIMM in 2010-2012. He has been a member of organising committees for conferences and symposiums and contributed to technical volumes as a reviewer.
- 2014 **Louis Rozman FAusIMM(CP)**, for commitment and outstanding contributions to the AusIMM. The award serves to acknowledge Louis’ previous roles and ongoing work for the Institute, including his roles on the JORC Committee and the Board of Chartered Professionals, his reinvigoration of the Sydney Branch and his current role as Chair of the VALMIN committee.
- 2015 **Alice Clark FAUSIMM(CP)**, in recognition of both the commitment and outstanding contributions she has made to the AusIMM. Alice was elected President of the Institute for 2011 and again for 2012, having been first elected to the Board in 2008. As President, Alice implemented strong governance standards in the interests of members, and communicated the changing industry circumstances that were to affect many members in 2012 and since.

Alice worked with management and Institute committees to consolidate and deliver a defined program of professional development services and activities.

Alice has been heavily involved in the activities of the JORC Committee since 1996, except 2005-2006, and made a leading contribution to the revision of the JORC Code in her position as Deputy Chair from 2007-2013. Alice has been a long-term contributor to the VALMIN Committee and during her time on the AusIMM Board has made a vigorous and valued contribution to the deliberations of the Awards, Ethics, Audit and Risk Management, Remuneration, Investment and Nominating committees. Alice is now in her 25th year of membership, and after seven years of leading and participating in the Institute's governance, she is a most appropriate recipient of the Beryl Jacka Award.

2016

Ray Tolhurst MAusIMM, Ray has had a very long relationship with the AusIMM in the Illawarra. His association with the AusIMM first began in 1966 when he joined as a student member. Ray has been actively involved on the Illawarra AusIMM Branch Committee since 2001, holding the position of Branch Chair on several occasions. During this time Ray has encouraged many new people to join the committee, including younger material engineers and geologists. His foresight and mentorship has equipped these newer members of the committee with skills and passion to contribute to the local Branch. Ray has also sat on the AusIMM EEF scholarship committee for a number of years.

Mineral Industry Operating Technique Award (MIOTA)

- 1987 **Dr R J Holmes**, in recognition of his development of an on-line analyser of the iron content of moving iron ore streams and bringing it on steam.
- 1988 **Dr Plackottu J Mathew**, for his work in ash analysis.
- 1989 No Award for 1989.
- 1990 **Jim Howarth**, for his work on the COALSCAN range of on-line coal quality analysis systems manufactured under license to the CSIRO and the University of Queensland.
- 1991 **W T Seib**, for his work on the development and introduction of highwall mining production methods in thick coal seams under large deposits of overburden for increasing resource recovery.
- 1992 **The team responsible for the development of The Isa Process for electro-refining of copper: J Perry, J Hartland, J O’Kane, S McLean, J C Jenkins**, in recognition of The Isa Process for Electro-refining of Copper which marks the development in Australia of a most significant new metallurgical process which has now achieved world recognition and is a commercial marketing success.
- 1993 **The JKSimMet Team comprising: D Wiseman, Dr W J Whiten, Dr R D Morrison, C W G Bailey and S S Morrell**, in recognition of the development of the JKSimMet metallurgical simulation system at the Julius Kruttschnitt Mineral Research Centre in the University of Queensland which has achieved world-wide acclaim and commercial acceptance.
- 1994 **The Queensland Magnesite Project (QMAC) Team**, in recognition of the contribution made to the development of the Queensland Magnesite Project (QMAG), a new metallurgical industry for Australia based on advanced processing technologies specifically designed to maximise the benefits obtainable from the unique Kunwarara magnesite deposit. The Project delivers consistent products to demanding specifications into a highly competitive international market. The team comprised the following: Barrie Hill, General Manager Operations, Bob Auld, Manager, Production, Grant Ackers, Manager, Process, Geoff Shields, Manager, Mine Production, Steve Wilcock, Senior Mine Geologist, Terry Forsyth, Manager, Quality Assurance.
- 1995 **Dr Keith Norrish AO**, in recognition of the development of modern quantitative X-ray spectrometry as a routine accurate and reliable operating technique for chemical analyses in the mineral industry.
- 1996 **Dr Ian Devereux**, in recognition of more than 25 years of innovative design, development and production of sampling and sample preparation equipment and systems which have achieved worldwide commercial acceptance.
- 1997 **Alan William Dickerson**, for his outstanding contribution to the invention, design and development of an Innovative Large Mining Truck (ILMT). It is estimated that for a given truck tyre size, the payload of the ILMT will be some 15-25% greater than for a conventional truck. The axle configuration, tyre wear, steering, stability and gradeability are much improved; thus significantly improving safety and productivity, and reducing costs.
- 1998 **A H (Sandy) Gray**, in recognition of his achievements in conceiving, developing and commercialising the InLine Pressure Jig for the continuous and efficient recovery of gravity concentrates, especially where water balance and large concentrate mass flows are important.
- 1999 **The Girilambone Copper Company Process Department**, in recognition of the introduction of forced heap aeration combined with revised heap management for the leaching of secondary sulphide ores, which has been an outstanding technical and economic

success for the Girilambone Copper Company. The process team has developed this technique, which is considered by peers to be a world best practice benchmark. The success of the operating technique has elevated the technical knowledge and economic benefits from the metallurgical processing of secondary sulphide ores.

- 2000 **Dr Edward G Thomas**, in recognition for the pioneering work and for his contributions to the practical applications of fill technology in underground metalliferous mines around the world.
- 2001 **The Project Team for AMIRA Project P483/483A – Mine to Mill (1994-2001) Professor D J McKee, Dr S Morrell, Mr A Scott, Dr W Valery & Dr S S Kancibotla**, for the successful implementation of the “Mine to Mill” integration technique to significantly increase the productivity and cost effectiveness of open-pit mining and comminution operations. The JKMRRC team have displayed leadership promoting and facilitating the adoption of the operating technique, technical excellence in the enabling technologies and professionalism in the development and technology transfer to operations who now benefit from the technique.
- 2002 **John Farrow and Neil Jagger** (awarded jointly with the same citation for independent activities), for services to the minerals industry, through revolutionising the development and implementation of new thickener technology for mineral processing.
- 2003 **CRC (CMTE) Universal Dig and Dump** (Jeff Rowlands), in recognition of the development of The Universal Dig and Dump (UDD) dragline rigging and control system, which will change the nature of open cut coal mining around the world. The enhanced flexibility afforded by UDD, together with an intuitive operator interface, is allowing operators to excavate areas faster and with greatly improved control. UDD won high praise from operators of Dragline 23 at BMA’s Peak Downs mine with demonstrated productivity improvement in excess of 25 per cent with significantly improved equipment protection.
- 2004 **Twin Chamber Pulp Lifter – JKMRRC**, in recognition of the development of The TCPL, which is a very significant development arising from a team effort on the P9 Mineral Processing project by Sanjeeva Latchireddi, Steve Morrell, Lionel Pullum and Alcoa staff. However, principal recognition should go to Sanjeeva Latchireddi for an outstanding contribution to the industry arising from his PhD project.
- 2005 **Edwin van Leeuwen and Phillip Harman**, in recognition of the Falcon Team of BHP Billiton’s Research Group lead by Edwin van Leeuwen and Gravity Diamonds Limited Managing Director, Phillip Harman. The Falcon™ geophysical technology is a ground breaking technology. It is the first airborne gravity gradiometer designed specifically for application to minerals exploration and complements other airborne geophysical technologies that have been available since the 1950’s. It is capable of mapping in detail the density distribution of rock formations within the top kilometer of the earth’s crust and in some cases of locating specific gravity anomalies that are associated with mineral deposits. The Falcon system has the potential to open up new terrains under cover to exploration and discovery, thereby sustaining the future of our industry.
- 2006 **Jeffrey Whittle**, for his eminent services to the mining industry through his great contribution to changing the way the industry both views and practices optimisation in mine design and strategic mine planning.
- 2007 **Wayne Romer**, for creation and global commercialisation of mining software: Mine2-4D Scheduling and Planning System.
- 2008 **Norman William (Bill) Johnson and Peter Charles Woodall**, in recognition of the development of the IsaMill, leading the design changes to upscale and modify the technology for the mining industry. Their work resulted in the creation of a new technology which has moved from fine grinding to mainstream minerals grinding. The successful development of the IsaMill enabled the development of the McArthur River Deposit, which until then had

been untreatable. IsaMills later proved to be the enabling technology for the George Fisher deposit and Black Star Open cut deposits at Mt Isa.

2009 **Neil Schofield**, in recognition of his specialised work in the application of geostatistics to resource estimation and grade control simulation. As a result of this work, he produced simulation-based software, MP©, specifically designed to optimise ore selection in mining operations. Neil was responsible for the first recognised application of conditional simulation to grade control optimisation in Australia. This was at the Marvel Loch and Yilgarn Star gold mines in Western Australia in the early 1990s. These mines significantly increased ore production with no loss of grade within several months of the introduction of what developed into the MP© grade control system. Importantly, the operations moved quickly from being mine-limited to mill-limited. With the acceptance of dedicated RC grade control drilling and the application of MP©, short to medium term mine planning was considerably improved, as was the definition of stockpile grades. MP© has been applied in numerous mines for a range of commodities and has resulted in a positive and measurable impact on profitability. It generates ore block shapes that are easily interfaced with popular mining software packages and assumes no advanced geostatistical knowledge. Neil also produced the resource modelling software, GS3, which is based around the method of multiple indicator kriging. This has assisted numerous clients with recoverable resource estimation as well as automated variographic modelling.

2010 **Dr Cathy Foley and her CSIRO tea**,: for the invention of the method to make a highly sensitive magnetic field sensor using a high temperature superconductor. The sensor is the basis of the mineral exploration tool, LANDTEM™. LANDTEM™ is a portable exploration tool which uses highly sensitive magnetic sensors known as SQUIDs (Superconducting Quantum Interference Devices) to differentiate the ore from other conductive material. Cathy led the initial development and commercialisation of LANDTEM™ in collaboration with BHP Billiton and the then Canadian mining company, Falconbridge. LANDTEM has since been licensed to an Australian start-up company, Outer-Rim Development, and has ultimately helped to unearth around \$6 billion of new mines worldwide.

Gary Zamel of Mine Site Technologies, for the development of the PED communication system, the first successful tool for communicating safely and simultaneously with personnel underground from the surface of mines without the use of a conduit or leaky transmission cable. From its launch in the mid-1980s, PED has become a highly successful world renowned communications device which is now installed in more than 150 mines on five continents. It has continued to be developed as a stand-alone device or as the backbone of more complex systems whilst also providing the stimulus for more sophisticated systems. Its contribution to underground mine safety cannot be underestimated. Gary demonstrated tremendous commitment and perseverance to bring a vision to practical use, overseeing the technical development and roll-out of this device, requiring the involvement and coordination of scientific and technical expertise from around the world.

2011 Nil

Renamed Mineral Industry Technique Award (MITA)

2012-2013 **Neil Cusworth**, for his extensive and global work on assignments as a project manager and director and in particular his development of best practice systems and standardised procedures for project management for multinational corporations. Antofagasta Minerals, Barrick Gold, BHP Minerals and Billiton Plc, Codelco, Falconbridge and Stanwell Corporation have confidently incorporated these systems into their corporate processes. A mechanical engineer by training with multi-discipline skills and an orientation towards commercial and project control aspects of the mining, resource and industrial sectors, Neil is a Fellow of The AusIMM and a Member of the Institution of Engineers. Neil made a major contribution to the early chapters and overall committee work for the forthcoming Cost Estimation Handbook,

freely allowing his proprietary procedures to be adapted to the Handbook for the benefit of the industry.

Christopher Kelsey FAusIMM, in recognition of the work and success of Chris Kelsey, who took the concept of jiggling with high G-forces from invention and practical R&D to commercialisation, resulting in today's "Kelsey Centrifugal Jig" (KCJ). The KCJ was developed in the early 1980s and is now in use in eight countries on a range of minerals. It remains the only commercially available, high G-force, continuous jig. The first truly commercial installation was achieved, with practical operating and maintenance input by staff, at Renison Tin in Tasmania in 1992. By 1995 there were 36 machines operating at 28 mine sites. By 2006 the jig was processing about a quarter of the world's tin. By 2010 there were 42 Kelsey Centrifugal Jigs operating in eight countries operating on tin, mineral sands, gold, nickel, tantalum and wolframite. Chris has remained closely associated with the development of the jig since its invention in the early 1980s. In that time the machine has had numerous refinements not just in terms of separation efficiency but also in relation to operational and mechanical robustness. The Kelsey Centrifugal Jig remains the only high gravity (up to 100 G) continuous operation jig which is commercially available.

2014

Prof Kevin Galvin, in recognition of his work in the initial concept, design, optimisation and commercial implementation of the reflux classifier. He applied basic scientific principles to take an already useful piece of equipment through a step-change for significantly enhanced efficiency and widened applicability. The reflux classifier is a novel autogenous water-based device for separating fine mineral particles based on their size and density. In its initial form the device demonstrated some advantages in certain applications, however, in recent years an ingenious technical breakthrough has transformed its effectiveness and application. These devices are used primarily for gravity separation and hence the size effect on separation has been a major limit in their effectiveness. Kevin surmised that if the lamellar plates were separated by just the right distance then the separation factor due to particle size would disappear. He then built the modern version of the machine from the mathematical design and the results have been astounding. The device is currently manufactured and distributed by FL Smidth/Ludowici to major coal producers throughout the world and is finding similar utility in applications for non-coal minerals.

Dr John Russell MAusIMM, in recognition of his major contribution to the safety and efficiency of grinding mill relines. John was a young mechanical engineer from Mount Isa Mines when he moved to Toowoomba in 1985 to form Russell Mineral Equipment to further his ambition to invent and manufacture world-class mining and mineral processing equipment. At Mount Isa Mines he had shown a talent for solving process problems by designing and building special purpose machines. John turned his attention to the relining of grinding mills, traditionally a slow, dangerous and costly business. Russell Mineral Equipment's first mill relining machine was purchased by Mount Isa Mines in 1990. Russell Mineral Equipment later developed the 'RUSSELL 7' (seven axis), 'RUSSELL 8' (eight axis) mill relining machines and the TWIN 8 mill relining machines (a pair of independent relining machines) that have further enhanced the relining performance in the world's largest mills. Today Russell Mineral Equipment is recognised as the world's leading designer, manufacturer and supplier of mineral grinding mill relining machines and associated equipment.

2015

No award for 2015

OH&S Award (Introduced in 2001)

- 2001 ***Ernest Henry Mine***, awarded to the Ernest Henry management team who created an excellent safety and health management culture by engaging and involving the whole workforce and empowering them to manage safety and health hazards as they work. The resulted positive impact on their behaviour is evident and notable.
- 2002 ***Peter B Johnston***, for his role as the driving force and Chairman of the Steering Committee for “Elimination of Fatalities Taskforce” (EOFT) at WMC that resulted in a step-change in the approach to Safety and Health management – not only within WMC but also across the Australian minerals industry.
- 2003 ***Professor Jim Joy***, for his leadership and influence on mine safety in Australia both as a respected consultant and for his outstanding contribution to mine safety as Professor of Mining Safety and Director of the Minerals Industry Safety and Health Centre at The University of Queensland.
- 2004 ***Jim Torlach***, for his leadership, direction and drive associated with mine safety in Western Australia, Australia and internationally, as a state government servant and as a respected member of the mining industry for outstanding contribution to mine safety, duty of care and statutory development in the mining industry.
- 2005 ***Graham Terrey***, for his devotion over 30 years to the inspectorate and the Safety and Health Department of NSW Mines. For raising the awareness of a safety culture, for striving for a higher education in and seeking more knowledge on subjects that can make a difference to the safety of miners.

Renamed Jim Torlach Health and Safety Award in 2006

- 2006 ***Peter Minahan***, for his significant contribution to the restructuring of the Queensland Mines Inspectorate following the Moura Mine disaster and findings of the Enquiry.
- 2007 ***Phil MacIntyre and leadership team - Kingsgate Consolidated Limited's, Akara Mining Limited, Chatree Gold Mine***, awarded to the leadership team of Kingsgate, in particular General Manager Phil MacIntyre, for commitment to creating, maintaining and enhancing a very successful safety culture in a particularly challenging operating environment in Thailand, through three construction phases and six years of production. In particular for leadership in the development and implementation of best practice policies, codes, procedures and ongoing training resulting in their goal of zero harm being achieved. This leadership and initiatives resulted in a safety record that is amongst the best in the world, reflecting great credit on both the diligence and application of the national workforce and the quality of the local management team.
- 2008 ***Steve deKruiff***, for his passionate commitment to improving the safety and health of his people. Steve has been at the forefront of safety and health innovation through programs developed and implemented by teams under his management. He has ensured sustainable improvements in performance and provided strong leadership to the hard-rock mining industry of Queensland.
- 2009 ***Dr Basil Beamish***, in recognition of his inspirational leadership and commitment throughout his professional career including service to the Queensland coal industry as a Mines Rescue Team vice-captain and captain, during which time he led teams which won national mines rescue competitions and a Healy Cup (1983) in the Queensland competition. Basil's work also resulted in increased awareness of the health and safety risks associated with spontaneous combustion and coal seam gas through regular presentations at AusIMM conferences and industry workshops in Australia and New Zealand. From his significant contribution to combating the outburst hazard problem in underground operations as a key member of a mining research team at Collinsville Coal Mine in the 1980s to his current role

as Senior Lecturer in Mining Engineering at the University of Queensland, Basil has been a leader in advancing fire and explosion prevention and mining education.

- 2010 **Ian Suckling**, in recognition of his commitment to Health and Safety issues through his activities as Senior Director Underground Mine Engineering at Newmont Mining Corporation and through his voluntary work as Chairman of the Australian Centre for Geomechanics Board of Management. Ian is also a member of MERIWA's Minerals Research Advisory Committee and chairman of its Engineering Sub-Committee. In all of these activities, his commitment to Health and Safety issues is pre-eminent.
- 2011 **Simon Ridge from Department of Mines & Petroleum, Resources Safety (WA)**, in recognition of his work as Director Mines Safety Branch and State Mining Engineer with the Resources Safety Division of the Department of Mines and Petroleum (WA), Simon 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.
- 2012-2013 No award in 2012-2013.
- 2014 **Flight Safety Foundation**, in recognition for their work in developing the Basic Aviation Risk (BAR) Standard over the past decade. The standard creates a minimum operating framework and requirements that mining companies can use to assess and manage the aviation contractors who service their operations and exploration areas. Prior to the BAR Standard each resource company had its own aviation safety standard. This subjected aircraft operators to a diverse and often ambiguous set of requirements within already diverse global regulatory requirements. The variety of standards and audits meant that aircraft operators underwent multiple annual audits for various resource company clients, diverting their focus and resources away from flight operations and maintenance oversight. The ability of an individual resource company to influence change within an aircraft operator's practices in response to audit findings was often limited. The BAR Standard not only allows for efficiency and consistency in managing safety and quality but also raises the bar for the minimum acceptable standards for aircraft and airport operations. The BAR Standard has made a huge contribution to safety in the mining industry. The BAR Standard is supported by the International Council on Mining and Metals and has been implemented by a range of major and minor minerals companies around the world. Many tens of thousands of minerals workers are now far safer when travelling by air. The program creates a minimum standard for aviation in the industry, providing benefits to both mining companies and aviation companies. The BAR Standard and all the associated audit tools, awareness packages and training tools has made a huge difference to a critical safety risk for the industry. The award was accepted by Greg Marshall on behalf of the Flight Safety Foundation.
- 2015 **Prof Philipp Kirsch AAusIMM and Team**, in recognition of the development of the ACARP sponsored RISKGATE generic risk assessment material, an online tool developed by and for the coal industry to assist with the risk assessment process. RISKGATE contains checklists to help assess and control 17 potential hazards in coal mining, such as fires, collisions, and explosions. Described as a 'decision support tool', the checklists have been formulated by careful analysis and research. They are designed to be used by industry professionals to assist with risk assessment, auditing, accident investigation, and training. The RISKGATE team is also developing information pertaining to 'Fitness for Work' for coal industry employees, covering such topics as fatigue, drugs, alcohol, and physical and psychological wellbeing. The work by Philipp and his team is a major breakthrough in risk management,

and a project is being scoped to add similar information for other industries, such as hard-rock mining.

Professional Excellence Awards

The 2015 review of the awards program combined a number of categories such as the MITA Award and the Jim Torlach Health and Safety Award into a new category. This category is the Professional Excellence Award and recognises professional excellence demonstrated in all areas within the industry.

2016

Helgi Stedman MAusIMM, Helgi Stedman has pioneered the use of blast hole data to maximise coal recovery in Thiess' Central Queensland operations. Helgi led development and implementation of the technique within Thiess, which has increased geological model precision, and closed the gap between actual and forecast recoveries compared with traditional exploration models. The technique involves integrating exploration holes with tightly-spaced pre-split holes and additional mid strip blast holes, using geophysics to model the interface between coal and overburden.

David Wiseman MAusIMM, David Wiseman is being recognised for the invention, development and commercialisation of an innovative software application for flowsheet development and drawing, mass balancing and process simulation called LIMN 'The Flowsheet Processor'. LIMN was developed in the mid-1990s and has applications in 19 countries and in 10 different industries. Over 600 licenses have been sold. It has been the industry standard simulation package for more than two decades and is a very widely used tool for use in coal preparation plant modelling and simulation, especially in Australia, as well as being widely applied in base metals minerals processing and hydrometallurgy.

Stewart Bell, Stewart Bell has had a distinguished career with over 35 years' experience in mine safety in Queensland and internationally. Prior to being appointed Queensland Mine Safety and Health Commissioner, he was Director of the Queensland Government's Safety in Mines Testing and Research Station, and during this period had management roles in the Australian government's India Mine Safety Training Program (1997-2002) and was instrumental in initiating and managing the Australia–China Xuandong Mine Coal Safety Project (2010-2011). Both projects had a significant and sustainable impact on mine safety in each country.

G B O'Malley Medal

- 1987 **David Readett** 'Modelling the leaching of NaCl from Bowmans lignite: Part 2 Multiple Stage Leaching.'
- 1988 **Louisa Lawrence** 'Geomechanical dispersion anomalies in transported overburden around the Mount Pleasant gold mine, Western Australia'.
- 1989 **Tony Wiggins** 'Maganiferous and zincian exhalites associated with the Broken Hill Orebody.'
- 1990 **June Hill** 'The Nature of Shear Zones formed during extension in Eastern Papua New Guinea.'
- 1991 **B Coutts** 'Acid mine drainage abatement methods suitable for waste dumps.'
- 1992 **Kylie Blackwell** 'Mineral Processes in the Year 2040' (presented at the 1992 Annual Conference).
- 1993 No Award for 1993.
- 1994 **Susan K Brumpton** 'The Development of a Heat Stress Monitoring Instrument'.
- 1995 **Bryan Anthony Quinn** 'Geotechnical Factors Contributing to Stockpile Slope Stability'.
- 1996 No Award for 1996.
- 1997 No Award for 1997.
- 1998 No Award for 1998.
- 1999 **David Schmitz** 'Spot Cooler Evaluation at Olympic Dam Operations'.
- 2000 **Cameron M O'Neill** 'The JORC Code: Mineral Resource and Ore Reserve Reporting' and its contribution to the recognition and reputation of The AusIMM internationally.
- 2001 **Mr Aleks Nikoloski** 'Application of alternative lixivants for secondary heap leaching of gold' presented at the 7th Mill Operators Conference in October 2000.
- 2002 **Jamie Caratti**, for the work undertaken for his final year thesis (submitted in 2001) which forms a substantial part of a paper 'Ore dilution versus Mine to Mill Optimisation at KCGM' presented at Explo 2001 in the Hunter Valley.
- 2003 **Helen O'Keefe**, for the work undertaken for her final year thesis (submitted in November 2002) that is summarised in a paper entitled "Implementation and feasibility of remote controlled blast hole drilling at KCGM's Fimiston open pits" presented at MPES 2003 in Kalgoorlie.
- 2004 **Claire Horsley**, for preparation and presentation of thesis research work "Understanding Upland Swamps of the Illawarra" at the 35th Sydney Basin Symposium.
- 2005 **Marc Steffens**, for his presentation of the paper entitled "Extraction of nickel from acidic leach solutions using Electrostatic Pseudo Liquid Membrane (ESPLIM)" at an internationally recognised peer reviewed conference, the Conference of Metallurgists - COM 2005, 21st-24th August 2005, Calgary, Alberta, Canada.
- 2006 **Jeremy Chan**, in recognition of his presentation to The AusIMM New Leaders Conference in Kalgoorlie in 2006, which was thoughtful, technically competent and articulate whilst also containing enthusiastic jovialty of a student presentation. His presentation explained the problem, the analysis, the solution and the business benefit of the implementation.

- 2007 **Martin Filar**, for the best preparation and presentation of a technical paper in connection with his research project entitled "Dynamic testing of splitsets at the WASM testing facility".
- 2008 **Hope Adams**, for the preparation and presentation of her paper entitled "Production Drill Optimisation at Telfer Underground: A Move Towards Automation."
- 2009 **Jenny-Rebecca Stein**, for "Stratigraphy and lithology of basal sediments of the eastern Southland lignite basin", which was presented to the 2009 AusIMM New Zealand Branch Annual Conference. Jenny won the prize for the best paper prepared and presented at the Conference. Jenny is a student at the University of Otago, Dunedin, NZ and is a student member of the NZ Branch of The AusIMM. The judges considered her paper provided a clear report on a robust piece of research and her presentation was most professional.
- 2010 **David Bedward**, in recognition of his thesis project, in which he developed a prefeasibility conveyor selection and cost estimation model for a Microsoft Excel VBA platform. The model was created with the goal of enabling the end user to rapidly select a conceptualised conveyor system and perform economic cash-flow analyses. The model incorporates a material database allowing for mass handling prefeasibility estimation in other industries; it has been validated at a local quarry.
- 2011 **Phillip Drain**, for "Blast Furnace Hearth Refractory & Coke Ash Interactions", which 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.
- 2012-2013 **Ben Sedgwick**, in recognition of his presentation at the New Leaders' Conference 2012 on "*Planning Your Career: Setting Goals Early and Moving in the Right Direction*". Ben's speech at the New Leaders' Conference impressed those in attendance including members of the AusIMM Board.
- 2014 **Justine Jasper SAusIMM**, in recognition of her thesis project entitled 'Investigation into the viability of Lithium Heterotungstate with tungsten carbide suspension as a substitute for organic liquids in dense medium test work on low grade iron ore', Justine's thesis achieved a High Distinction. Justine also co-authored a paper entitled 'Application of the heavy suspension technique for ore beneficiation plant feed characterisation from the Southern Middleback Ranges' with J Begelhole and L Koroznikova that was presented by Begelhole at the Second AusIMM International Geometallurgy Conference 2013 in Brisbane.
- 2015 No award for 2015
- 2016 **Ryan Lee GAusIMM**, for providing an excellent paper, poster and presentation at the AusIMM NZ Branch conference. His presentation provided a clear outline of the rationale for the research being undertaken, what had already been done and then a conclusion based on the information gained to the stage at which the research had been progressed.

Branch Service Award

- 1994 **William (Bill) Henry Conrow**, for his active involvement in the LaTrobe Valley Branch over the past 34 years, including service as Honorary Secretary, Treasurer and Chairman of the Branch and his willingness to foster and champion the progress of The Institute. A most worthy recipient of this first LaTrobe Valley Branch Service Award.
- Albert E Evans**, in recognition of his long association with the mining industry, his loyal and dedicated service to The Australasian Institute of Mining and Metallurgy and his active involvement with the South West WA Branch. A most worthy recipient of this first South West WA Branch Service Award.
- Alan James Hargraves**, for loyal and distinguished service to the Illawarra Branch, The Australasian Institute of Mining and Metallurgy and to the coal industry. A most worthy recipient of this first Illawarra Branch Service Award.
- 1995 **Osmar Julius Blau**, in recognition of many years service and support of the Broken Hill and Southern Queensland Branches since 1947, major roles in the organisation of many successful international and national conferences including student conferences. A worthy recipient of the first Southern Queensland Branch Award.
- 1996 **Alan Bruce Moore**, in recognition of his Chairmanship of the North Queensland Branch and active participation with Branch affairs including linking industry, university, secondary schools and government. A worthy recipient of the Inaugural North Queensland Branch Service Award.
- Lloyd Samuel Jones**, for dedicated service to the New Zealand Branch, primarily since its inception in March 1966 and as a strong advocate for New Zealand and the Branch as an important part of The Australasian Institute of Mining and Metallurgy. A worthy recipient of the inaugural New Zealand Branch Award.
- 1997 **Dr Richard John Rogerson**, for his outstanding service to The Institute and in particular to the Port Moresby and Papua New Guinea Branches by pursuing the ethics and ideals of The Institute, recruitment of members, fostering student participation and general administration of Branch activities over a period of 13 years. A worthy recipient of the inaugural Port Moresby Branch Service Award.
- Owen Kreilis**, for service to the Illawarra Branch of The Institute, and to the Mining and Metallurgical Industries in general over a long period, including the growth of longwalling in the coal mining industry, and particularly the maximisation of output with the re-organisation of maintenance, and for services to teaching and students generally.
- 1998 **Ian R Pontifex**, in recognition of his contribution to the strength of Adelaide Branch of The Australasian Institute of Mining and Metallurgy through his enduring service as Honorary Treasurer from 1990 to 1998 and his unstinting commitment to the activities of the Branch and the ideal of Institute membership.
- Hugh Jones**, for his outstanding contribution as a member of Perth Branch, and distinguished service to The AusIMM and the minerals industry over many years. He is particularly recognised for his tireless work in the Perth Branch, especially in the area of large conference organisation, the launch of many initiatives related to the support of Student members and Young Professionals and also for his founding of the Newman Branch in the early 1970s and his active efforts within that Branch.
- 1999 **John Fisher**, in recognition of his efforts both as Honorary Treasurer of the Darwin Branch for more than 10 years as well as Convenor of the Annual Mine Tour for a similar period of time. John's tireless enthusiasm, hard work and over 20 years constant support of The AusIMM Darwin Branch are recognised by this Award. He has devoted more than 30 years service to The AusIMM in general and the Darwin Branch in particular.

- 2000 **Peter M Hancock (Canberra Branch)**, since his arrival in Canberra in 1991, Peter Hancock has “made the running” in all areas of Branch activity such as administration, education, public image, fundraising and student mentoring whilst also contributing at a National level in the areas of education, structural reform and public policy issues. His energy, enthusiasm, professionalism and persistence have become legendary throughout The Institute.
- Patrick J O’Dwyer (Southern Queensland Branch)**, for long, sustained and extraordinary service as Honorary Secretary to the Southern Queensland Branch of The AusIMM.
- Robert J Kininmonth (Illawarra Branch)**, for his contribution to the safety and coal mining practice in the Illawarra region and Australia.
- 2001 **Mr Trevor Ireland (Adelaide Branch)**, for meritorious leadership of the Adelaide Branch during the 1997-99 period. Trevor’s Chairmanship led to a renaissance of activities including: establishment of the Mawson Student Chapter, the mentoring scheme, an active monthly newsletter, a website and coordination of many thoughtful responses to the Allen Review.
- 2002 **Michael Roche (North Queensland Branch)**, for his outstanding service to the North Queensland Branch, both as Chairman and Committee Member. His enthusiasm, dedication, and active promotion of the AusIMM and the mining industry to all sections of the community has inspired many young people and has enhanced positive perceptions of the industry throughout the region.
- 2002 **Peter Waggitt (Darwin Branch)**, for his long standing commitment to the programs and administration of the Darwin Branch. During his long membership of the Branch Committee Peter has been a founder member and a principal organiser of the Medal Award Program and the Annual Seminar as well as an organiser and contributor to the regular social and technical programs. Peter’s achievements in promoting better environmental practice in the mining industry at home and overseas have added to the professional standing of the Darwin Branch.
- 2003 **Rick West (Sydney)** for his consistent and dedicated contributions to The AusIMM Sydney Branch over 30 years, as well as to Council, JORC, MICA, a number of sub-committees, conferences and various publications.
- 2004 **Dr Ernest Baafi (Illawarra Branch)**, for his consistent and dedicated contributions to The AusIMM Illawarra Branch over 15 years, as well as initiating and convening coal operators' conference and other Branch conferences and his editorial role in Monograph 12 revision.
- Fran McKinstry (North Queensland Branch)**, for 10 years of dedicated and committed service to the North Queensland Branch Committee and to the promotion of AusIMM to and mentoring of James Cook University students to enable them to be a significant contribution to the local Branch and industry.
- Mike Gregson (Melbourne Branch)**, has been actively involved in the Branch activities of The Institute for many years. He has been on the Melbourne Branch Committee for many years and his erudite contributions are always welcome. He is also one of the group which developed the current Melbourne Mining Club. He is "Mr Reliable" with a passion for the industry.
- Michael Buckenham (New Zealand Branch)**, has shown outstanding leadership and promotion of The AusIMM and particularly the NZ Branch and its representation through all levels of The Institute. Throughout his career he has maintained the highest levels of ethical, personal and professional conduct. He has actively promoted recruitment and the benefits, both applied and professionally, of joining The Institute. Mick is, even in retirement, an influential, respected and renowned man and is recognised within NZ and internationally for his contribution to The AusIMM.

- 2005 **Ken Nielsen (Central Victoria)**, for his sustained commitment and involvement with the Central Victorian Branch of The AusIMM since its inception over 20 years ago. Firstly as a financial donor and member then more recently as Chairperson / Newsletter Editor and Chairperson of national technical conferences.
- Rex Berthelsen (Cobar)**, for his driving force, energy and dedication to the functioning of the Cobar Branch of The AusIMM and its activities.
- Associate Professor Norman (Norm) Stockton (Perth)**, for twenty years' service to the Perth Branch Committee and his wise counsel and as a strong link to the student and younger members as well as his enthusiastic support of all Branch initiatives and student chapters. His support for the ASMV and his understanding of the industry at a local and global level. Also a significant recruiter of mineral industry students into The AusIMM.
- 2006 **John Collins (Southern Queensland Branch)**, for being a long serving and enthusiastic member on the committee of the Southern Queensland Branch for over 10 years, and a member of The AusIMM for over 40 years. His roles have included Branch Secretary and an enthusiastic supporter and worker for the annual Student Mining Games and branch technical meetings, the recently introduced Mining Ball, the Julius Kruttschnitt Memorial Lecture and the St Barbara's Day functions.
- 2007 **Keith Horrocks (Illawarra Branch)**, for his sustained commitment and involvement with the Illawarra Branch of The AusIMM where he has served as Branch Honorary Secretary, Treasurer and as Branch Chairman; he convened the Coal & Mineral Sizing Symposium served on the organizing committee of the 1994 Maintenance in the Mining and Metallurgical Industries Conference convened by the Branch; involved with the 1993 rewrite of the Australasian Coal Mining Practices Monograph 12 as a chapter editor (Coal Utilization, Beneficiation and Handling) with Con Martin, Alan Hargreaves, Bob Kininmonth as Editors; currently on the Editorial Panel to rewrite Australasian Coal Mining Practices Monograph 12 and as a Chapter Editor of Coal Utilization, Beneficiation and Handling."
- 2008 **Richard Barker (New Zealand Branch)**, for his key role in organising AusIMM conferences in New Zealand. Richard has been actively involved in the Branch Committee for many years as well as being involved in Branch and industry advocacy to Crown Minerals; he has served on the New Zealand Education Endowment Trust Committee since its inception in 1995.
- Graham Gooding (Central Victoria Branch)**, for services to the Central Victoria Branch as Treasurer and Chairman and for his involvement in Branch Representatives' meetings, Branch technical meetings, mine site visits, The AusIMM Annual Conference 1997 and the Murray Basin Mineral Sands Conference 1999.
- Ron Morland (Melbourne Branch)**, for services to the Melbourne Branch as Chairman over a period of five years and more recently as a very active Committee member. Ron's contribution has been invaluable in many areas of committee activities, including the Branch's work with students; he has also been an active member of the Project Evaluation Conference Organising Committee.
- 2009 **Don Henderson (Southern Queensland)**, for services to the Southern Queensland Branch. Don has been an outstanding Branch Chairman on two occasions and the current strength of the Branch owes much to his vision, dedication and hard work over many years. Don has been an AusIMM member for more than 40 years since his university days. He was Chairman of the Branch in 1994 and 2007 and each term was preceded by a couple of years as Vice Chairman. He instituted the August Student Seminar concept in 1994; assisted in the introduction of the ASMV in Southern Queensland; encouraged support for students, including those attending QUT; changed the location of technical talks which has seen a big increase in attendance and encouraged a high standard of technical sessions.

Terrence (Terry) Howard (Newman Combined Group), in appreciation of his careful stewardship and involvement over an extensive time with the Newman Combined Group, and for his contribution as a Councillor of The AusIMM. Terry kept the Combined Group functioning during a time when many regional and country groups had become defunct or fallen victim to ever more mobile memberships. He maintained a sustainable business model and adequate reserves that have allowed the Branch to deal with the uncertainty of operating in the high cost environment of Newman, WA.

Robert James (Jim) Morrison (North Queensland), for his long term involvement with the NQ Branch and Charters Towers sub-branch Committee. Jim is always willing to assist whenever and where-ever he can. During his lengthy service with the NQ Branch Committee, Jim has organised social activities such as camping weekends and tours; assisted and arranged technical sessions and the Sir George Fisher Lectures; and was a key organiser of the 2008 NQ mining conference in Charters Towers.

2010

John Lea (Hunter Region Branch), for more than 15 years' involvement in The AusIMM's Hunter Region Branch as secretary and/or treasurer. His dedication to the Institute and its values have been amply demonstrated through his work with the Branch and members, particularly during difficult years when the Branch committee had few active members.

John Fisher (Darwin Branch), for being an active member of The AusIMM for more than 45 years and serving as a Darwin Branch committee member for much of this period. As Branch treasurer for more than 25 years, John has effectively protected the Branch assets through periods of activity and dormancy, and provided exceptional continuity through successive committees. John previously receive a Branch Service Award in 1999.

Peter Hills (Tasmania Branch), for being an active member of the Tasmanian Branch (and its precursors) since the 1980s. He was instrumental in the merging of the largely inactive Hobart and West Coast Branches in the mid-2000s and is currently the secretary of the Tasmanian Branch and co-ordinates all branch activities. He has been instrumental in the reinvigoration of the Branch and student chapters.

Colin Simpson (Canberra Branch), for his work on the Canberra Branch committee of The AusIMM since 2000 and as honorary secretary for most of the period since. He also serves as Branch newsletter "Anomaly" editor and has maintained Branch communications to members and potential members, mentored students and been the repository of all aspects of branch administration for 10 years (including finances).

2011

Harold Boughen (Melbourne Branch), for his work as a stalwart of the Melbourne Branch for more than a decade and playing 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 (Illawarra Branch), for his work as an active member of the Illawarra Branch of The AusIMM for 12 years and serving 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 (New Zealand Branch), for giving 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.

2012-2013 **Gerard Bosch (Adelaide Branch)**, for being a stalwart of the AusIMM Adelaide Branch for almost two decades. He joined the Branch Committee in 1995 and served as secretary of the Branch from 1999 to 2006. Gerard is currently vice-treasurer. Gerard's contribution to the branch committee has extended well beyond the secretary's role. He has been a prime organiser of the annual student night, which is jointly arranged with the Geological Society of Australia Adelaide Branch. Gerard has also been an active member of the Adelaide Branch mentoring scheme, and assisted students with their organisation of events including students meet industry nights. He has been a key person in planning of the annual Essington Lewis Memorial Lecture, the annual Branch Dinner, the successful canvassing of sponsorship funding, and all other aspects of the branch activities. Gerard was a member of the organising committee for the inaugural AusIMM International Uranium Conference initiated by Adelaide Branch in 2005.

Mark Daniell (North Queensland Branch), in recognition of the outstanding contributions made by Mark Daniell to the North Queensland Branch over the past 12 years. Mark joined The AusIMM in 1986 and has also been active in branches in WA, NT and SA. He first joined the North Queensland Branch Committee in 2000 and was secretary from 2002 to 2005, then chair from 2008 to 2010 and treasurer since 2010. Mark's efforts assisted keep the Branch functioning during the lean years of the minerals slump of the mid-2000s. Mark also made major contributions to the engineering profession through liaison with and membership of the committee of the Engineers Australia Townsville Local Group, fostering joint activities between professional organisations. He has been active through support of the non-profit The Engineering Link Group as a non-operational director, and has mentored students at James Cook University and graduates at his workplace.

Tess Lloyd (Cobar Branch), for being a loyal contributor to the Cobar Branch of The AusIMM since 2002 when her husband Peter Lloyd joined the branch committee. Tess, while not an "official" committee member, has willingly assisted with many branch events ensuring all tasks were completed as required. Of particular note was the effort Tess put into the 2010 Cobar Mining Seminar dinner, attended by more than 100 guests. In addition to her contribution to branch functions, Tess was a dependable volunteer supervisor on behalf of the AusIMM at the Outback Science and Engineering Challenge. The Challenge required supervisors to volunteer from the local community and Tess was there every year since its inception in 2005.

Renamed Branch and Society Service Award

2014 **Kerrin Allwood MAusIMM(CP) (New Zealand Branch)**, Kerrin has been a member of The AusIMM for more than 20 years. This award recognises Kerrin's commitment and significant contribution to the New Zealand Branch of The AusIMM. Kerrin has been a New Zealand Branch Committee member for a number of years having served as Treasurer of the Branch for the past four years and Treasurer of the New Zealand Branch Conference organising committee. In these capacities Kerrin has carried out a very large amount of work including working with the New Zealand Inland Revenue Department and managing the finances and services of the Branch's annual conference. With a budget in excess of \$250 000, Kerrin's involvement and contribution to the New Zealand annual conference is significant and a key element in the conference's ongoing success.

Dr Ivor Roberts MAusIMM(CP) (Perth Branch), Ivor has been an AusIMM member for more than 40 years. This award recognises his tireless leadership and many contributions to The AusIMM including his role as the prime organiser for Perth Branch monthly technical sessions and as Chair of the Kalgoorlie Branch (1999 and 2000). Ivor is responsible for the professional development of many Perth Branch members through the technical talks that he facilitates with a fellow committee member. The quality and diversity of these talks reflect Ivor's wide-ranging interests and contacts. Ivor has been strongly involved in supporting and mentoring the three Perth-based student chapters, as well as the West Australian School of Mines Student Chapter when he was in Kalgoorlie. Ivor's industry knowledge and professional insights make him an excellent contributor to Perth Branch's participation in AusIMM scholarship interviews.

John Stanton AAusIMM (Tasmania Branch), John has been a member of The AusIMM for more than 20 years. Initially involved with the former North West Tasmania Branch John is now a member of the Tasmania Branch Committee. John has been an active and enthusiastic member of the Tasmania Branch Committee since the Branch's inception in 2005. He has supported or led the organisation of technical meetings and events and contributed to the organising committee of the 2011 AusIMM Congress in Hobart. John became involved in the wider activities of The AusIMM through his involvement on the committee for the Tenth Underground Operators' (UGOPS) Conference in Launceston in 2008, with the aim of making the event a success for the Tasmania Branch, as well as The AusIMM as a whole. John continued his involvement with the committee for the 11th UGOPS Conference in Canberra in 2011 and the very successful 12th UGOPS Conference in Adelaide earlier this year.

Bob Smith FAusIMM(CP) (Geoscience Society), Bob has been a member of The AusIMM for 50 years and a member of the Geoscience Committee (now the Geoscience Society) since 2005. The role of the Geoscience Society is to further the professional development of members of The AusIMM who have an interest in geoscience. The Society's priority is to improve links to universities and academics in the geosciences field and the cooperative relationships already established with groups such as the AIG. Bob has been an active advocate for industry exposure for undergraduates and to that end has worked on several projects with the aim of integrating undergraduate studies and industry project work. He is a strong advocate of the need for students to gain industry experience prior to graduating and has actively worked to gain further acceptance from universities for programs to facilitate this.

2015

David Clark FAUSIMM(CP) (Darwin Branch), Dave was responsible for the revitalisation of the Darwin Branch and transformed it during his term in office from 2010-2014. The Branch was inactive upon Dave's relocation to the Northern Territory at the beginning of this period and he was instrumental in forming a committee and successfully Chairing the team during this period of reactivation. A balanced program including regular technical presentations, social activities, university and industry engagement and joint annual technical seminars was developed under Dave's leadership and continues today within the Branch calendar of events.

James Didovich MAusIMM (Kalgoorlie Branch), until 2015, James took care of the administration of the Kalgoorlie Branch as the honorary secretary while the positions of Branch chair and vice-chair remained vacant. During this time, the Branch functioned well under his management. James deserves to be recognised and appreciated for the service he has given to the Branch and the Institute.

Kevin Marston MAusIMM(CP) (Illawarra Branch), in recognition of his extensive involvement in many industry boards and committees. Positions he has held include: Illawarra Branch Treasurer (2007-2010); Honorary treasurer (2011-2014); acting Illawarra Branch Secretary (2013-2014); Member of AusIMM EEF Scholarships Interview Panel in the Illawarra area (2011-2014); Illawarra Branch representative on the Illawarra Student Chapter

Executive Committee; Mentor to Illawarra Student Chapter committee members; Illawarra Representative on Moss Vale Committee for Student Thesis Competition (2011-2014); Member of the Organising Committee of Coal Operators' Conference (2012-2014) and 35th APCOM Symposium in 2012. Over the last five years, Kevin has also been an organiser and supervisor of student trips – some up to ten days long – to various states of Australia.

Paul Harper FAusIMM(CP) (Mining Society), in recognition of his contribution to the Mining Society Committee and his conspicuous contribution to the Institute. In late 2007 the Mining Society was re-established and chaired by John Collins. The aim of the Mining Society is to establish and maintain a mechanism for representing the interests of mining professionals within the Institute. Paul was Chairman from 2009 to 2011 and during this time he introduced face to face meetings to develop comprehensive and meaningful strategic plans for the society and its members. The society developed an identity and promoted its relevance to its members and is now a very active contributor to members and the Institute. Some notable achievements include: Mine Manager's Handbook; Guidelines for Technical Economic Evaluation of Minerals Industry Projects; Contributions to the AusIMM/IOM3 Transactions, Monograph publications and Newsletter Program recognition for university courses; Encouraging and facilitating mentoring arrangements for mining engineering students and young professionals; Advising the AusIMM and CP Boards on various matters. Paul has also been a leader, mentor and supporter of several Institute activities and has worked towards increased collaboration among the Institute societies and committees and their members. _

Institute Service Award

2006 **Pat Stephenson**, in addition to his contribution to the Australasian Joint Ore Reserves Committee (JORC) since the early 1980's in the roles as Secretary (5 years) and Chairman (6 years), Pat has played a major role in the advancement and promotion of international standards for reporting of ore reserves through CRIRSCO. His contributions have included publication of papers, technical articles, conference presentations and liaison with the ASX and industry.

Mark Adams, Mark has served on AusIMM Branch Committees in Queensland and now in Perth for many years. In addition, he has chaired the last three Underground Operator's Conferences and is assisting the committee for 2008. He has represented AusIMM on the JORC Committee for many years.

Tom Farrell (deceased), in recognition of Tom's leadership, over three decades, in transforming the adaptation of diverse science into the science of environmental management. The techniques that Tom helped to pioneer have been adapted and adopted throughout the minerals sector both in Australia and overseas. Also, through his significant contribution to the discipline of environment to The AusIMM and to his support to other professionals.

2007 **Stewart Gillies**, for his long and valued service to The Australasian Institute of Mining and Metallurgy through his roles in the Southern Queensland Branch Committee, as Chairman of the Fourth and Eighth International Mine Ventilation Conferences, and particularly in his leadership as the second Director of The AusIMM Education Endowment Fund and the Australian Student Minerals Venture scheme. Stewart founded The Institute's system of Student Chapters in 1987 and proposed the concept of the ASMV and has been ASMV Coordinator for twelve years. The ASMV has developed to be a very successful initiative for attracting the brightest and the best students to the minerals industry through provision of vacation schools.

Rod Grant, for his long history of service to The AusIMM, including Melbourne Branch Chair and Committee member; involvement in the activities of the Combined AusIMM/IE Aust. Branch in Port Pirie, and in the organisation of conferences; development of young metallurgists; involvement in various committees, publications and task forces, and particularly his energy and time as Chair of the Metallurgical Society and his support for careers and education initiatives.

Peter Stoker, for his long and valuable service to The Australasian Institute of Mining and Metallurgy through his roles as Councillor, Chair of the Geoscience Task Force, Branch Chairman, Branch Secretary, contributor to conferences and Monograph 23 and particularly as Chairman, Secretary and member of the JORC. Peter has led that body through a period of development of the Code in Australasia and elsewhere and has developed a close relationship with the parent bodies and the ASX. He is also an Australian representative on CRIRSCO, the international committee for resources and reserve reporting.

Sue Border, for many years of service to The AusIMM in committee work and is particularly noted for her contribution to WIMNet, being the chair for five years and achieving progress in diversity policies, mentoring and the raising of womens' issues. Sue has also been on the Membership Applications Committee for 3 years.

Renamed AusIMM Service Award

2008 **John Kelly**, for long and meritorious service and diligence as Deputy Chairman and Secretary of the VALMIN Committee. John has been heavily involved in the development of all three editions of the VALMIN Code (1995, 1998 and 2005).

R J (Bob) Kininmonth, for long and meritorious service and participation as an active member of the Melbourne, Sydney and Illawarra Branch committees. He was Illawarra Branch Chairman in 1991-93, and is secretary of the Heritage sub-committee of the branch. The Award also recognises Bob's contribution to mine safety and coal mining practice in the Illawarra region and throughout Australia.

Ken Nielsen, for long and meritorious service to the Central Victoria Branch including leadership roles as Chairman, Secretary and Committee member and for the organisation of two major conferences and technical meetings. Ken is still an active member of the Branch and continues to contribute, particularly through guidance to student members.

2009 **Trevor Ireland**, in recognition of his long and meritorious service to The Institute, including as Chairman of the Adelaide Branch for the periods 1997-1999 and for 2003-2006, and in particular, for his outstanding contribution to the planning and successful stewardship of the 2004 PACRIM Conference.

Miriam Way, in recognition of outstanding service and dedication to, and support of, the aspirations of the Institute. Miriam is a supportive and communicative colleague to her peers and members alike, always focused on the best interests of the Institute. Miriam has not only met, but exceeded the expectations placed upon her in what continues to be a challenging and vital role, and has maintained the strongest relationships with members, colleagues and external partners. For these reasons, Miriam Way is most fittingly, the first employee to be a recipient of The AusIMM Service Award.

2010 **Simon Dominy**, in his minerals industry career, Simon Dominy has held a variety of posts in industry and academia and has a long record of service to The AusIMM, beginning almost 10 years ago when he was lecturing at James Cook University. Simon has held Publication editorial roles for The AusIMM, namely the Proceedings of the Fifth International Mining Geology Conference (2003), the proceedings of the Sixth International Mining Geology conference (2006), the proceedings of the Narrow Vein Mining Conference 2008 and the proceedings of the Seventh International Mining Geology Conference (2009). As well as the above contributions, Simon has been involved with many conference organising committees in a variety of roles. These include the 2002 AusIMM Underground Operators Conference, the 2003 AusIMM Mill Operators Conference, the 2004 AusIMM Congress, the 2008 AusIMM Sampling Conference, all as an organising committee member, the 2003 Fifth AusIMM International Mining Geology Conference as a co-chairperson, and the 2006 Sixth AusIMM International Mining Geology Conference. He was the driving force behind the 2008 AusIMM Narrow Vein Conference and the 2009 Seventh International Mining Geology Conference, all as chairperson. Simon was also on the organising committee for the 2010 AusIMM Sampling Conference and chaired the 2010 AusIMM Gravity Gold Conference. He is chair of the 2011 AusIMM Narrow Vein Conference. Simon is also an associate editor for AusIMM Transactions Section B (Applied Earth Sciences).

Ray Tolhurst, in recognition of his significant contribution to The AusIMM, maintaining its inclusive, comprehensive approach and relevance across all stages of production, commodities and personnel, particularly para-professionals and associate members, throughout the minerals industry. Ray was a member of The AusIMM Education and Careers Taskforce that prepared the graduate development programme across geology, mining and metallurgy disciplines, attraction and retention, preparing the AusIMM 2005-2025 Minerals Education policy. He has been active in maintaining a diverse range of minerals industry education and training facilities and opportunities, at a time that some major industry bodies focused on reducing the range of centres. Ray has made representations to AusIMM Annual Congresses, particularly the 2001 explanation on VET Minerals Industry Training Packages and their importance for continuing professional development and gaining statutory qualifications, and the 2009 outlines on marketing The AusIMM across the entire industry and educational recognition for Materials Engineering (Metallurgy) programs. Ray has been a member of the AusIMM's Illawarra Branch Committee since 2001 and Branch chair for three years. He is an active participant and committee member in annual Coal Conferences,

New Leaders and Mining Games. Ray also developed and delivered the first post-graduate qualification in NSW in Sustainable Development for Mining and Metal Production, blending environmental science and technology, business planning and community relations.

Richard Flanagan, in recognition of his strong commitment to AusIMM activities, especially his longstanding and ongoing involvement as a committee member and chair of a multitude of successful AusIMM Conferences. Richard was on the following committees: Hoist & Haul 2005; Iron Ore 2005; UOC 2005; Explo 2007; LOP 2007; UGOP 2008; PE 2009; Heavy Minerals 2011. He was conference chair of: Explo 2004; Project Evaluation 2007; LOP 2010. Richard is managing director of Richard Flanagan Mining Consultancy Pty Ltd (RFMC Ltd) and has more than 40 years' experience in mining services, mining engineering, project development, management and consulting within the mining industry. He is a Fellow of The AusIMM, a Chartered Professional, a member of MICA – The Consultants Society of The AusIMM, and a Fellow of the Australian Institute of Company Directors. His experience includes working in Australia, PNG, New Zealand, Myanmar, Bulgaria and Armenia. In addition he has had involvement with projects in Fiji, Uzbekistan, Botswana, Algeria, Utah and Morocco He has filled the positions of registered manager, project manager, mine manager, mine superintendent, underground manager and consultant throughout his career. Richard has experience and skills in working with and training non-English speaking personnel in the mining industry.

Miriam Lyons-Stanborough, in recognition of being a key committee member and leader of the Women in Mining Network (WIMnet). She has forged a career pathway and built on a solid professional reputation in chemical engineering and management, whilst also taking three rounds of maternity leave. Miriam has been a key element in WIMnet's success and relevance through the last decade. She chaired the group through a period of growth (2004-2005) and has been a very active vice chair for the past three years (2007-2010), leading the group through a changing environment and always injecting positive energy with the most professional perspective. Miriam promotes and represents The AusIMM through organising key development opportunities for women in mining, including negotiation skills seminars in both Perth and Brisbane and leading the Gender Pay Gap survey and reporting for WIMnet. She has been an inspirational keynote speaker at many events in WA, celebrating and encouraging diversity for the industry and WIMnet and also serves as Alcoa's representative on the WA Chamber of Minerals and Energy (CMEWA) Women in Resources reference group.

2011 **Donna Frater**, in recognition of her work as a member of The AusIMM since 1994 and involvement 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 took on the role of WIMNet 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. 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.

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, and leadership in sustainable development in mining, by 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 and was one of the key founding members of Women in Mining Western Australia (WIMWA). In 2005, Alison formed the 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. Alison also initiated a partnership between WIMARQ and Women on Boards, introducing their leadership and Directorship training programmes to women in mining in Australia.

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".

2012-2013 **Robert Burns**, in recognition of his outstanding contribution and work on the *Australasian Mining and Metallurgical Operating Practices* project from 2010, leading to the launch of the publication in 2013. Rob was an instrumental part of the AMMOP project team, taking up the role of project leader to drive the planning, development and implementation of this major publication. He provided extensive input to identifying target sites and plants, developing templates and liaising with company contacts in order to gain paper submissions. The dedication and commitment of Rob to the AMMOP Project over several years has led to the publication being produced in a timely manner, containing high-quality material that will be of great use and interest to The AusIMM membership base and to minerals industry professionals more broadly. Rob has also shown his dedication to The AusIMM as a member of the EEF Board of Trustees since 2001. He instigated the recent review of the EEF and was part of the review steering committee. The recommendations from this review were accepted at the June 2012 EEF Board meeting and will be implemented in 2013-2014.

Emeritus Professor Odwyn Jones AO, in recognition of his broad and extended involvement across a number of AusIMM activities, Societies and Committees.

Odwyn joined The AusIMM as a Fellow in 1977 and was a member of the combined AusIMM/Institute of Engineers Accreditation Board for a number of years in the mid 1980's. He has served as Chairman of the Eastern Goldfields Branch (1990), member of the Perth Branch committee and member of the AusIMM Council (1991-1994), National Vice-President (1994), and has been a Committee member of the Mining Society since 2008. Odwyn's involvement in the Mining Society has been extensive, from steering the overall aims and direction of the committee to acting as a key point of contact in organising submissions from the Mining Society for more than 15 papers in the discipline-specific Chapter 3 of *Australasian Mining and Metallurgical Operating Practices*.

Odwyn was an integral member of the Mine Managers' Handbook Committee and the

AMMOP Project Committee. Odwyn served as a member of the editorial board for the AusIMM/IOM3 Mining Technology journal until his resignation from the Mining Society at the end of 2012, in this capacity he helped to identify suitable material for publication and worked to increase awareness of the journal through the Mining Society.

2014

Dr Ernest Baafi MAusIMM, in recognition of his significant contribution to the AusIMM and for the exceptional work undertaken by Ernest. Professor Ernest Baafi has been an AusIMM member for more than 30 years. Since 1992 Ernest has had extensive involvement with the Application of Computers and Operations Research in the Minerals Industries symposia, attending 11 symposia, representing the Institute on the Organising Council since 2007 and peer reviewing multiple papers for these and other national and international conferences. Ernest chaired the successful 35th Application of Computers and Operations Research in the Minerals Industries Symposium 2011 in Wollongong and was responsible for its ultimate success. Ernest was instrumental in setting up and running the inaugural Australasian Coal Operators' Conference in Wollongong and he chaired the conference for the first four years following its inception. This conference is the premier underground coal mining operators' conference in Australia. Ernest also had a major involvement with the production of The AusIMM's Australasian Coal Mining Practice (Monograph 12), a very successful publication that is used extensively as a reference text. As well as co-editing the volume and acting as a chapter author Ernest also oversaw the desktop publishing of the volume. As Discipline Adviser for Mining Engineering at the University of Wollongong Ernest has coordinated AusIMM student membership applications with AusIMM Services for some 15 years with students joining in record numbers over the past three years. Ernest's interests are diverse. He has been responsible, with the assistance of AusAID, for setting up the geostatistical ore reserve and operations research subjects at the University of Technology in Lae, Papua New Guinea. Ernest continues to spend considerable time with the Institution of Engineers Australia accrediting mining engineering degree programs for other Australian universities.

Lindsay Bottomer FAusIMM(CP), Lindsay Bottomer has been an AusIMM member for more than 40 years and a member of the Membership Applications Committee for ten years. Based in Vancouver, Lindsay is effectively the committee's overseas membership representative. Lindsay has used his extensive industry knowledge and experience in the assessment of applicants for AusIMM membership or grade transfer, especially at Fellow level. He has participated in the regular monthly reviews, focusing on geological applicants and in the subsequent teleconferences where issues of concern over applications are discussed. Lindsay's knowledge of North American and other overseas jurisdictions has provided valuable guidance to Australian-based members of the Committee. In addition to his role as an Applications Committee member Lindsay is an AusIMM International Representative for the Vancouver region, performing a valuable service as a representative and a point of contact for new or aspiring AusIMM members.

Dr Glen Corder MAusIMM(CP), in recognition for his significant contributions to the AusIMM, in particular his outstanding contribution to the AusIMM Southern Queensland Branch. Glen has worked enthusiastically across a range of AusIMM groups and initiatives. He joined the Southern Queensland Branch Committee in 2008, was Branch Chair in 2009 and has also served as secretary and vice chair of the Branch. Glen was a member of the former AusIMM Sustainability Committee, serving as Chair of that Committee's Regional and Environmental Impacts panel during 2011-13. Glen is currently a member of the Community and Environment Society leadership committee. In this role he is helping build The AusIMM's capacity to support and represent minerals professionals working in community and environment related issues. Glen was a member of the technical committee for the inaugural Life-of-Mine conference in 2012. In 2014, building on the success of that conference, The AusIMM will host a second event on this highly topical series on integrative practices for planning, designing and operating mines that deliver long-term beneficial environmental and social legacies. Glen was also on the committee of the AusIMM Sustainable Development Indicators in the Minerals Industry conference in 2009. A member of the Professional Development Committee and an advocate of bridging the gap between research and industry practice in responsible resource extraction, Glen launched the Webinar – Tech Talk

Series in 2013 with the topic 'Can sustainability principles be the driver for innovation in the minerals industry?'.

Dale Sims FAusIMM(CP), in recognition of his significant contributions to the AusIMM community. Dale Sims has been an AusIMM member for more than 20 years. He is a Fellow and Chartered Professional of The AusIMM and has been a dedicated and enthusiastic member of the New South Wales Hunter Region Branch for many years. He served as a Young Professional Observer on Council and has helped to organise numerous technical conferences. Dale was elected as a Director to the Board of The AusIMM in 2013. An active member of the AusIMM Geoscience Committee (now Geoscience Society) since 2005, Dale chaired the Society in 2010 and has been reappointed Chair for 2014. Dale is an integral part of the Geoscience Society committee and is constantly seeking to improve and expand the services the Geoscience Society offers to AusIMM members including establishing and running the Geoscience Society's Geoscience Field Skills course. Dale currently represents The AusIMM on the Australian Geoscience Council and has been a member of the organising committee for several International Mining Geology conferences as well as being the conference chair for the eighth IMGCC in Queenstown New Zealand in 2011. Dale is co-chair of the AusIMM's Asia Taskforce which was established by the AusIMM Board to develop closer relationships with kindred professional bodies and to expand the services available to AusIMM members in the Asian region. Dale is active in engaging with the broader AusIMM membership and constantly seeks to improve and broaden the links the Institute has with other professional organisations, universities and the wider community.

2015

Christopher Carr FAusIMM(CP), in recognition of his significant contribution to the AusIMM. After long-term involvement in Branch committee activity, including being Chair of the North West Queensland Branch, Chris was elected to the Board of the Institute, a position he held for six years (2007-2012). As a Board member he came to participate in a number of Institute committees and ultimately made an outstanding contribution to Institute affairs and leadership as the Chair of a number of key committees. Chris is Chair of the Chartered Professional Board and the AusIMM Board's Investment Committee, where he has made a particularly strong contribution to the financial stability of the Institute. Chris has contributed to a number of conferences, including the 2009 AusIMM Congress held in Mt Isa and was an active member of the Mining Society Committee from 2008-2014 including a leading role with the Mine Manager's Handbook.

Institute or Minerals Sector Service Award

The Institute or minerals sector service awards build upon the former Branch and Society Service and AusIMM Service Awards. These awards may be presented to any Institute member or to a group of members. These awards recognise consistent and significant contribution to the ongoing success of the Institute and/or the minerals sector.

2016 **Mark Chalmers FAusIMM.** In 2005 Mark Chalmers initiated and presented the concept of a technical uranium conference to the AusIMM with the vision that it would become a leading international event in a poignant time of industry growth. Mark has provided outstanding leadership as Conference Chair at each and every event with the tenth conference in the series celebrated in Adelaide in 2015.

Christopher Sykes MAusIMM(CP). Chris began his involvement on the Adelaide Branch Committee in 2008 and has given unreservedly of his time and effort in supporting and sustaining a strong Committee. Chris's key role since 2009 has been Branch Treasurer. Chris has also been an active participant in the Branch's technical and social events program. His tireless efforts in this area have ensured the Branch continues to have one of the Institute's most successful programs for its members.

Terence Fisher FAusIMM CP(Min). Terence Fisher FAusIMM CP(Min) has been an advocate for health and safety (H&S) over many years in both industry-based and inspectorate/regulator-based roles within Australia and overseas. Terry has also performed numerous roles within the AusIMM, including being a founding member of the AusIMM OHS Taskforce in 2000 and a member of the ensuing AusIMM H&S Committee from 2005 until his retirement in early 2015.

New Professional Award

- 2004 **Robert Johansen**, for making a difference. He has degrees in Mining, Law & Commerce. Has made real contributions to Anglo Coal in Australia and South Africa. Managed the Brisbane Office of Barlow Jonker, advising Corporate Clients. Now heads "GRAX", and is selling mining related properties. Is active in The AusIMM (a key force on the Queensland Young Professionals Committee) and is seeking to grow The Institute and its relevance to young professionals.
- Roderick Haselden** graduated with Honours in Geology from the University of Wollongong in 2001, and went on to do a Graduate Diploma of Education in 2002. In 2003 Roderick joined Illawarra Coal as a contract geologist, shortly after joining AusIMM as a Graduate member. Currently Roderick is the Data Integration Geologist working for Illawarra Coal. He is currently an active Illawarra Branch Committee member. He has been serving the Branch in the capacity of Honorary Secretary for the past year. Through his efforts the Branch has for the first time developed its annual program. He has been working hard to implement the Branch program.
- 2005 **(Rohan) Mark Shannon**, for being a driving force in the passionate promotion of The AusIMM, the mining industry and the University of Ballarat as an active member of the Central Victorian Branch and Ballarat Student Chapter. Also for his involvement in Chairing the 2004 New Leaders Conference and Mining Games.
- 2006 **Michael Bartlett**, for leadership in student branches, organisation of conferences, mining games and for his leadership in encouraging others into the mining industry and The AusIMM. Now a graduate with AMC, Michael is still active in the mining community and is showing considerable promise and is well on his way to making an even more valuable contribution to the mining industry.
- 2007 **Spiro Pippas**, for being a role model in his studies and vacation work through: leadership of the successful 2007 New Leaders Conference and Mining Games; his contribution to Congress, UQ Student AusIMM President 2007, vice president of MAMA and Southern Queensland AusIMM Branch, On-line Services Taskforce, AusIMM Student chapter meetings, promotion of industry to school and university students."
- 2008 **Richard Price**, for being an active member of the Perth Branch for five years who has worked enthusiastically to establish, encourage, mentor and support student chapters. Richard assisted in sending teams to international and national mining games, gave talks at new leaders conferences, presented guest lectures in mining and facilitated Students Meet Industry nights and vacation work. He also supported the ASMV and The AusIMM Career and Education Taskforce.
- 2009 **Helen O'Keefe OAM**, for her work as a member of the Perth branch and former committee member, representing the committee at an AusIMM Congress. Helen was also a committee member of the AusIMM Kalgoorlie Student Chapter and the WASM Student Guild. She was involved in the WASM Wombats Mining Team, leading several victorious teams as a student, competing as an alumni member and helping host the 24th International Intercollegiate Mining Competition as Event Secretary. She was awarded an Order of Australia Medal for her work in promoting the mining industry in the community. Helen has been involved in large scale mining operations such as the KCGM Super Pit and BHP Billiton's Olympic Dam and provided technical expertise in many diverse projects across the world whilst working for major mining consultancies such as Snowden and Runge. She now works as an independent consultant, assisting a diverse range of clients from large multi-national mining houses to small junior companies.
- 2010 No award.

- 2011 **Tim Hausler**, for his work in the development of the CellView® system. 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. Tim 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 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.
- 2012-2013 **Ellen Hiscock**, for her work as an environmental adviser since her graduation with various environmental and mining groups, including Pike River Coal Limited and L & M Mining. This has involved complex environmental monitoring programmes, including field stations with continuous water quality monitoring, field sampling and liaison with local authorities. This award recognises Ellen's involvement with The AusIMM, which she has served very effectively as secretary of the AusIMM New Zealand branch and the New Zealand conference organising committee for the past three years. Both these roles require a commitment of time and energy, which Ellen has willingly given. Ellen exemplifies the qualities The AusIMM encourages in New Professionals.
- 2014 **Leonard Rowe MAusIMM**, for his work in establishing Branch links with new professionals in the Hunter Region, resulting in the Branch having more young professionals attend technical talks and mine visits. . He has organised Young Professionals graduate nights and been effective in encouraging new professionals to attend technical meetings, thus allowing the Branch the opportunity to recruit new members. Leonard has been effective in a revision of a Rio Tinto graduate handbook to include The AusIMM as a recommended professional body. In 2012 he organised one of the Branch's more successful mine visits in the Hunter Valley. In 2013 Leonard was the first person to speak to the Hong Kong Student Branch as well as presenting at various New Leaders' conferences in the past. In many ways Leonard is a true quiet achiever.
- 2015 **Chris Rendall MAusIMM**, Chris was a member of the New Zealand Branch Committee from 2011-2014 and held the position of Vice Chair in 2014. He was part of the New Zealand Branch Conference Organising Committee from 2012-2014, and as Conference Chair in 2014 he oversaw a very successful conference in Hamilton. He became involved in the AusIMM through working for a consultant geologist preparing permit applications under the Crown Minerals Act. Chris represented the New Zealand Branch at the 2012 New Leaders Conference and associated mining games and at a previous AusIMM Congress, both of which provided him with insight into the aspirations of new members of the industry and the realities of the environment within which mining exists, including obtaining a social licence to operate. Chris operates across the mining industry, is active within the AusIMM, and at an early stage of his career has an important position with the New Zealand Department of Conservation. He also brings new ideas and a fresh approach to the New Zealand Branch.
- Erica D'Silva GAusIMM**, since graduating, Erica has been on the AusIMM Illawarra Branch Executive Committee and BlueScope Women's Network Steering Committee, as well as being a regional representative for the New South Wales WIMnet Committee. She hosted 'The Oscar Experience', an event honouring Oscar Gregory for her work at BlueScope. Oscar was formerly General Manager of Mills and Coating and is Director ARC Research Hub for Australian Steel Manufacturing. Erica organised the first WIMnet event in the Illawarra in 2013 and in 2014 organised another WIMnet event for the Illawarra community. Erica is committed to supporting women in the minerals industry. In January 2015 she volunteered as a mentor at the Women in Engineering Summit, a program aimed at high school students and hosted by the University of Wollongong.

2016

Jacinta Riedel GAusIMM. Jacinta has displayed notable service to the AusIMM, specifically in the area of developing new professionals. She was the inspiration behind the reinvigoration of the New Professionals Committee and was heavily involved in the organising of the flagship New Professionals Network event in Adelaide. She has also attended the New Leaders conference and encouraged others to get involved. She was the driver for the AusIMM webinar on email etiquette, and it is expected that there will be more notable achievements in the coming year.

Distinguished Speaker Exchange Program

- 1980 **Robert H Merrill (USA)**
President Elect, AIME, Staff Associate Mining & Metallurgical Division
- 1981 **Sir James Foots (Australia)**
Chairman, MIM Holdings Limited
- 1982 **Dr Harold Paxton (USA)**
President, AIME, Vice President, Research United States Steel Corporation
- 1983 **Sir Russel Madigan, OBE (Australia)**
Deputy Chairman, CRA Limited
- 1984 **Nelson Severinghaus (USA)**
President AIME, President Franklin Limestone Company
- 1985 **Sir Arvi Parbo (Australia)**
Chairman, Western Mining Corporation Limited
- 1986 **Arlen L Edgar (USA)**
President AIME
- 1987 **Dr J Barry Ritchie (Australia)**
Executive Director, Australian Coal Association
- 1988 **Dr Thomas Falkie (USA)**
President, AIME
- 1989 Prof Alban J Lynch (Australia)
President, The AusIMM
- 1990 **Dr Milton E Wadsworth (USA)**
University of Utah
- 1991 **Roy Woodall AO (Australia)**
Western Mining Corporation
- 1992 **Dr Roshan Bhappu (USA)**
President, AIME
- 1993 **J K A McLeod (Australia)**
The AusIMM 1993 President
- 1994 **Noel Rietman (USA)**
President, AIME
- 1995 **J R May (Australia)**
former executive officer of the Australian Mineral Industries Research Association (AMIRA)
- 1996 **Dr Don Gentry (USA)**
President, AIME
- 1997 -
- 1998 **Professor Geoffrey Blainey (Australia)**
- 1999 **Robert Ray Beebe (USA)**

Sir Willis Connolly Memorial Medal

1986	Sir Arvi Parbo AC
1987	Sir Frank Espie OBE
1988	Brian Thorley Loton
1989	Alfred Charles Copeman AM
1990	Bruce Phillip Webb
1991	Professor Alban Lynch AO
1992	Dr J Barry Ritchie
1993	E D J Stewart
1994	J O Reynolds OAM
1995	L J Bradley
1996	Professor G Blainey
1997	Des Stroud
1998	John T Ralph AC
1999	James Whitehead
2000	Mr John (Jack) Vines
2001	Mr Richard Carter
2002	Mr. Norman Dalton
2003	Dr. Ian Gould AM
2004	Dr John Floyd AM
2005	Dr Ian Plimer
2006	Mr John Dow
2007	Mr Chris Fraser
2008	Dr Peter Lilly
2009	Laureate Professor John Ralston
2010	Ian Nethercote
2011	Prof Geoffrey Neil Phillips FAusIMM(CP)
2012	Mr Keith Orchison AM
2013	Dr Sandra Close HonFAusIMM(CP) , Close is an Honorary Fellow and Chartered Professional of The AusIMM and a member of the AusIMM Board of Directors. Sandra has

been a member of The AusIMM for more than 40 years. Sandra graduated from The University of Sydney with a Bachelor Degree in Economic Geology and was awarded a PhD by The University of Melbourne. She has worked as an exploration geoscientist, a banker and in executive roles in finance, strategy and general management. Sandra is now Director of the minerals industry specialist consulting business Surbiton Associates. As a communicator Sandra has achieved a great deal. She is author of the book *The Great Gold Renaissance: The Untold Story of the Modern Australian Gold Boom 1982-2002* and of *The Australian Gold Quarterly Review*. Sandra is a regular media commentator on mining issues and particularly on gold industry issues. She is a passionate advocate for the development of the resources industry and for best practice amongst minerals industry professionals. Sandra's Sir Willis Connolly Memorial Lecture 2013 was published in *The AusIMM Bulletin* (February 2014).

- 2014 **Prof Robin Batterham FAusIMM**, Professor Batterham has been recognised for his outstanding communication in the fields of science, engineering and technology within the mining sector. He is Kernot Professor of Engineering at the University of Melbourne. Until recently Dr Batterham was Group Chief Scientist, Rio Tinto Limited, President of the Australian Academy of Technological Sciences and Engineering, and Chairman of the International Energy Agency Expert Group on Science for Energy. He has had a distinguished career in research and technology in the public and private sectors in areas such as mining, mineral processing, mineral agglomeration processes and iron making. He is inventor of more than 20 patent families. Professor Batterham was Chief Scientist to the Australian Federal Government from 1999 to 2005.
- 2015 **Dr Tim Napier-Smith FAusIMM**, Dr Napier-Munn is Emeritus Professor at the University of Queensland. He is a mineral engineer with degrees from Imperial College, London and the University of the Witwatersrand, Johannesburg. He has had a 40+ year distinguished career in mineral industry research and development in the public and private sectors in three countries, and has held senior positions with De Beers, and with the JKMRC, and JKTech Pty Ltd at the University of Queensland. His research and consulting interests are in the modelling and simulation of mineral processes, physical processing such as dense medium separation and hydrocyclones, comminution, diamond processing, statistical methods applied to mineral processing, technology transfer and research management. Dr Napier-Munn has delivered his professional development courses on Statistics for Mineral Engineers for over 20 years, and has recently published a book on the subject. He has published over 140 papers and articles, and was editor of the JKMRC 'Blue Book' on comminution and the 7th Edition of Wills' Mineral Processing Technology. He is a member of the Editorial Board of Minerals Engineering journal, founding board member of CEEC International and a Fellow of the AusIMM. He is a recipient of the AusIMM President's Award and the IOM3 Futer Medal.

2014 Sir Frank Espie/Rio Tinto Leadership Award
James Mitchell SAusIMM, James is currently in his fifth year of study, completing a Bachelor of Engineering (Mining) and a Bachelor of Economics double degree program at the University of Western Australia (UWA). To broaden his understanding of the minerals industry, in 2012 James undertook a semester of study at McMaster University in Canada. In 2013, James also completed vacation work with Independence Group NL, further contributing to his engagement with the industry. James is the current President of the UWA Student Chapter and has been an active and committed member of The AusIMM since 2011. Prior to his election as Student Chapter President; James held the position of Events Coordinator for the UWA Student Chapter and has played a role in organising the Students Meet Industry events in Perth. James has sought opportunities to engage with the community throughout the course of his undergraduate study. James is an active member of the Australian Army Reserve and also volunteers his time to Engineers without Borders Australia and Young Engineers Western Australia.

2015 **Michael Assman SAusIMM**, Michael is currently in his fourth year of study, completing a Bachelor of Engineering (Metallurgical Engineering) at Curtin University (Western Australia School of Mines). During his time at Curtin University, Michael finished as the top engineering student from a field of over 800 students at the end of his first year which earned him the Most Outstanding Engineering First Year Award in 2012 and the Engineering Mechanics Prize. He followed this by earning the Kalgoorlie Student Guild Prize at the end of his second year. Michael was the Treasurer of the AusIMM Kalgoorlie Student Chapter in 2014, is a current committee member and has been a member of the AusIMM since 2012. He has been actively involved in fundraising events to provide the Student Chapter with funds to host events for students on campus. Michael was chosen to be part of the John Curtin Leadership Academy which focusses on leadership with community values and entrepreneurial spirit.

Daniel Travers GAusIMM, Daniel is currently in his fourth year of study. He has completed a Bachelor of Science (Mineral Geoscience) at the University of Adelaide and is currently pursuing his honours in Economic Geology. To broaden his understanding of the minerals industry, Daniel has undertaken various vacation work placements and internships with a variety of companies such as IMX Resources, Newcrest Mining, CWT Mongolia and MRI Trading AG. These placements have covered underground mining, surface mining, exploration geology and physical commodities trading. Daniel has studied Mandarin at Tsinghua University in Beijing and also received the DEEWR Endeavour Student Exchange Program Scholarship to study economics and earth science for one semester at the Chinese University of Hong Kong in Sha Tin, Hong Kong. Daniel has also been an active member of the Henley Surf Lifesaving Club over the last ten years As part of this he has represented the club and South Australia in the Australian National Surfboat Rowing Series.

Atlas Copco Scholarship

2014 **Russell Brooks SAusIMM**, is currently completing the final year of a Bachelor of Engineering (Mining) at The University of Adelaide. To broaden his understanding of the minerals industry, in 2013, Russell completed his penultimate year of study on academic exchange at the Colorado School of Mines where he received a place on the Dean's List for academic merit. During the exchange program, Russell gained valuable industry experience working at Edgar Experimental Mine, followed by employment with the Kraemer Obayashi Joint Venture, Merco Inc. and Orica. Russell used his time in Colorado to extend his networks, regularly attending SME events. Upon returning to Australia, Russell has been engaged in the activities of the AusIMM Adelaide Student Chapter.

2015

AusIMM EEF Postgraduate Scholarship

- 2014 **Hazel Lim MAusIMM**, currently in her third year of her PhD at Curtin University's Western Australia School of Mines. Her thesis, titled 'Leaching of Complex Zr-Nb Rare Earth Minerals of Australian Sources' aims to achieve the following objectives: provide material characterisation to explore the cation exchange property of the zircon-silicate mineral to effect selective extraction of zirconium, niobium and rare earths from host rock; define the decomposition pattern, leaching mechanism and recoveries for acid decomposition of the material base on a generic method of sulphation roasting; develop an extraction method that optimises the dissolution and recovery of zirconium, niobium, and rare earths elements from the mineral. The Nation Scholarships Committee is highly impressed with Hazels dedication, professionalism and the relevancy of her research to Australia's mineral future. In addition to her impressive academic record, Hazel has considerable industry experience working for nine years as a Process Engineer in a copper refinery where she also gained experience leading the company's metallurgical laboratory division.
- 2015 Not awarded in 2015

2005 Special Award

Trevor Sykes: The AusIMM has introduced a new Special Award for 2005 called the “Pierpont Award” to thank Trevor Sykes for his huge contribution through 53 years of journalism and 33 years as a columnist under the pseudonym of Pierpont, to the minerals industry. In particular for endeavouring to “keep the bastards honest” throughout his career in his role in forensic financial journalism creating insightful exposure of the shenanigans of some of the industries corporate cowboys”.