



THE AUSTRALASIAN INSTITUTE  
OF MINING AND METALLURGY  
INCORPORATED BY ROYAL CHARTER, 1955  
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## **The AusIMM Award Recipients 2000**

### **Honorary Fellowship**

#### **Recipient:**

Jack T Brady

#### **Citation:**

*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*



#### **Career Profile:**

John Travers (Jack) Brady was born in Peterborough, South Australia but the family moved to Broken Hill, N.S.W, when he was a child. He completed his secondary education at the Marist Brothers College, Broken Hill and from 1949 to 1954 was employed as a Trainee Mining Engineer with The Zinc Corporation Ltd. He undertook a Diploma Course in Mining Engineering at Broken Hill before entering The University of New South Wales in Sydney in 1955. He graduated as Bachelor of Engineering in Mining Engineering in 1956.

In 1957, Jack joined Mount Isa Mines Ltd as a Mining Engineer at Mount Isa. Over the course of 10 years he spent there, he was employed in a variety of positions including Shift Boss, Foreman, Mine Planning Engineer, Production Engineer and Underground Superintendent.

In 1967 he moved to Cobar N.S.W. as Mine Superintendent of Cobar Mines Ltd and was promoted to General Manager of Operations in 1969. He held this position until 1977 when he joined the parent company, BH South Ltd as a Director and General Manager, Mining for the South Group.

Following the merger of South's mining interests with CRA Ltd in 1980, Jack became General Manager, Mining with the CRA subsidiary Australian Mining & Smelting Ltd. In 1981 he became the Managing Director of the AM&S Mining Division of CRA Ltd with responsibility for the mining operations at Broken Hill, Woodlawn, and Cobar.

In 1983, Jack assumed the leadership of the Organisational Development Project across the CRA Group and in 1984, he was appointed Group Executive, Human Resources. Subsequently he also assumed responsibility for Administrative Services and External Affairs. Jack retired from CRA Ltd in 1993.

Throughout his career, Jack Brady has been active in professional associations and has served as a Councillor for each of The

Australasian Institute of Mining & Metallurgy, the Australian Mineral Industries Research Association and the Australian Mineral Foundation. He has also held the position of President for both The Institute and AMIRA.

Since retirement, Jack has undertaken consulting assignments and held Board positions within the Minerals Industry in addition to his voluntary work with The Institute and the AMF. So he has continued his lifetime commitment to the development of our Industry.

**Institute Medal**

**Recipient:**

Dr Sydney M Richards

**Citation:**

*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*



**Career Profile:**

Max Richards graduated with First Class Honours (1960) and Doctor of Philosophy (1964) in earth sciences from the University of New England. His research was funded in part by the Broken Hill Mine Managers' Association, and later by CSIRO in Melbourne and, via a CSIRO Overseas Postgraduate Studentship, at Stanford University.

After 12 years working with Cominco Ltd in Canada and Australia, he joined Aberfoyle Limited, becoming Managing Director (1984 - 1995) and Chairman (1994 - 1998).

He is Chairman of the Board of the Australian Nuclear Science and Technology Organisation; Chairman of the Advisory Board of the Ian Wark Research Institute, University of South Australia; and holds advisory positions in the Institute of Advanced Studies, Australian National University. He chairs the School of Botany Foundation, University of Melbourne.

He was Chairman of the Australian Mining Industry Council Science and Technology Committee (1984 - 1994); member of the Australian Mines and Metals Association board; member of the Cooperative Research Centre Committee; member of the CSIRO board (1991 - 1997); member of the North Limited board (1998- 2000).

He has chaired one review for the Commonwealth Government into the Australian Geological Survey Organisation; was a member of the Australian Research Council working party enquiring into the future of earth sciences in Australia; and was a member of several reviews and selection committees to do with earth sciences.

His university awarded him Distinguished Alumni status in 1995; and the University of South Australia awarded him an Honorary Doctorate of the University in 1999.

### **Presidents Award**

**Recipient:** Professor Ian M Ritchie

**Citation:**

*Professor 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.*



**Career Profile:**

Ian Ritchie graduated from Cambridge University with a BA (in science and chemical engineering) in 1959. He completed a PhD at Melbourne University in 1965. He was awarded an ScD by Cambridge University in 1999. He became a Fellow of the Institute in 1993. He is also a Fellow of the Australian Academy of Technological Sciences and Engineering and the Royal Australian Chemical Institute.

Ian has worked in the Australian University system since 1962, first at the University of Melbourne (until 1972), then at the University of Western Australia (until 1983), and most recently at Murdoch University where he is the Professor of Chemistry. Between 1986 and 1988, he was Pro-Vice Chancellor (Research). Since 1992, he has been CEO of the AJ Parker Cooperative Research Centre for Hydrometallurgy. In this time, the Parker Centre has grown to become the world's leading research organisation in hydrometallurgy.

His research interests have ranged over a number of areas: corrosion (including metal/gas and metal/solution reactions), electrochemistry and, for the last 28 years, hydrometallurgy. Ian is best known for his work in cementation reactions but he has also made contributions to gold processing, lime chemistry and the Becher Process. He has received a number of awards for his research: the Grimwade Prize for Industrial Science (1971) from the Melbourne University, the Australasian Corrosion Medal (1979) from the Australasian Corrosion Association, the Stokes Medal for Electrochemistry (1997) and the Applied Research Medal (1997) from the Royal Australian Chemical Institute. In 1997, he was made WA Citizen of the Year in the Professions Category.

### **Mineral Industry Operating Technique Award**

**Recipient:** Dr Edward G Thomas

**Citation:**

*In recognition for the pioneering work and for his contributions to the practical applications of fill technology in underground metalliferous mines around the world.*

**Career Profile:**

In the early 1960s, Ed recognised that backfilling was an essential component of winning of ore from underground mines and would become, as the years passed, of equal significance when thought of also as underground disposal of mining waste. At the time, few professionals had the vision to see a career path in backfilling, available literature was sparse and, in Ed's eyes, a new technology

had to be developed, akin to the then burgeoning discipline of rock mechanics. Ed adopted, quite consciously, as his main mission in his professional life, the development of backfilling/underground mine waste disposal into an organised technology, with its own dedicated professionals and substantial literature.

His work started for and at Mount Isa Mines Limited. His first significant breakthrough came, after what came close to total rebuke, friendly rebuke, within the committee of the local branch of The Institute when Mine Filling was adopted as the theme for the Jubilee Symposium of the great Isa Mine in 1973. The symposium proved successful and the seed was sown that a series of such symposia, held internationally, each producing a series of refereed papers, some highly technical, some grossly practical and most somewhere in between, would be a substantial step forward in Ed's overall plan. The background to the Mining with Backfill series of symposia is reported elsewhere in Institute literature.

Also involved on Ed's part was extensive travel, both in Australia and overseas - to observe, to learn, to talk, to listen and, as time passed, don't know where, don't know when, that the overall mission was worthwhile and the overall objective attainable. The flow of information inwards changed into a flow of information outwards and a recognition dawned that somewhere inside dwelled an ability to inspire, an ability to glamorise a hitherto unattractive and unappealing field of endeavour. Took time, but it happened. Ed's base within The School of Mining Engineering at The University of New South Wales proved to be an eminently successful choice.

Currently, a substantial, balanced literature on Mining with Backfill is available, the international symposium series is established and its continuation seemingly assured, research is progressing, practice is widespread, well organised (with scope for improvement) and incorporates accent on safety and economics along with engineering fundamentals. Most important, in the current economic climate, there is now healthy competition among experienced operators and consultants to earn their living from matters backfill.

Thanks are due to a myriad of people, far too numerous to contemplate mentioning here.

To conclude, there is still vast scope for advances and improvements. Ed feels he has largely done his bit, but still has the same obsessive interest in the topic. Is there someone out there who may perchance consider it worthwhile to continue the mission?

**Beryl Jacka Award**

**Recipient:**

Lloyd S Jones

**Citation:**

*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*



**Career Profile:**

Lloyd Jones attended the Otago School of Mines 1935-38 (AOSM 1940). He was employed as a mining engineer by General Mining & Agency Company Limited investigating several properties in Malaysia and Thailand for lode rather than alluvial tin. He was in south Thailand when the Japanese entered WW 2 and was taken prisoner. He was a Japanese civil internee January 1942 to September 1945. On his return to New Zealand he worked as a quartz miner on contract on Blackwater Mines at Waiuta on the West Coast (he earned more than the salary offered on staff).

After obtaining his First Class Mine Manager's he married and accepted a position as Inspector of Mines with the Queensland Mines Department. He served at various centres until May 1954 when he returned to New Zealand as Inspector of Mines and Quarries stationed in Greymouth. In 1963 he was appointed to head office Mines as Chief Mining Engineer (Minerals) Chief Inspector of Mines, Tunnels, Quarries and Petroleum exploration. He retired in February 1982.

Lloyd Jones joined the IMM in 1936 and the AusIMM in 1951. With the late T J McKee (Councillor) he was responsible for the New Zealand Branch being formed in 1966 and acted as Secretary until he retired due to ill health in 1999. He is an Honorary Fellow of the Institute (1987) and a Councillor (1988). He was a member of the Conference of Chief Inspectors of Mines (Australia, New Zealand and Papua New Guinea) 1969-82 being Chairman 1971-72 and 1980-82. He lives in retirement in Wellington NZ.

**Branch Service Award** (3 Recipients)

**Recipient:** Peter M Hancock (Canberra Branch)

**Citation:** *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*



**Career Profile:**

Peter graduated from the University of Wales, Aberystwyth with BSc Hons. in Geology in 1962 and worked with the Bureau of Mineral Resources until 1964

After a year as a University of Otago Extension Lecturer and science teacher in New Zealand, Peter was Site Engineering Geologist with the West Australian Geological Survey on the Gascoyne and Ord River Schemes and then lecturer in Applied Geology at the South Australian Institute of Technology (University of South Australia).

Peter joined Layton and Associates NZ Ltd in 1970 as Manager South Island operations and when that company closed down in 1971 Peter developed his own engineering and mineral resource based consultancy, Hancock Consultants Limited, which operated in New Zealand, Australia and North America until 1991.

In 1991 Peter returned to Australia as Visiting Fellow at the Australian National University to research minerals sector sustainability issues and to write the book *Green & Gold: sustaining mineral wealth, Australians and their environment*.

Peter joined the Institute in 1970 as a Member (Fellow 1976) and was an active member of the New Zealand Branch. He has been a member of the Canberra and Central West NSW Branch Committee since 1992 serving as Programme Secretary, Chairman, Secretary/Treasurer and as a convener of University and Branch conferences and symposia

**Branch Service Award cont..**

**Recipient:** Patrick J O'Dwyer (Sthn Queensland Branch)

**Draft Citation:** *Pat O'Dwyer is awarded the Branch Service Award for long, sustained and extraordinary service as Honorary Secretary to the Southern Queensland Branch of The AusIMM.*



**Career Profile:** Pat graduated from the University of Melbourne, B.Eng (hons) 1971. In 1968 he joined AusIMM as a student member.

Pat worked for EZ, North and Pasminco until 1987, in mining, refining, marketing and project management positions. In 1989 he joined what is now Egis Australia, to develop the processing industries group that has successfully helped clients develop several new copper heap leach solvent extraction mines. Pat is currently General Manager of the Oil & Gas and Process Industries groups for Egis Australia.

The work with the Institute has been as a committee member and chairperson in the Hobart branch (1989) and through the 90s with the South East Queensland branch as committee member, chairperson and 5 years as secretary. During that time all conference in the branches were profitable due to the efforts of strong conference organisers and the reviews of the committees.

Pat recognises this award really belongs to his family (for the newsletters), to his secretaries (4 off), to Egis Australia (for support), and the various committee members he has enjoyed working with as a team member.

**Recipient:** Robert J Kininmonth (Illawarra Branch)

**Draft Citation:** *For his contribution to the safety and coal mining practice in the Illawarra region and Australia.*



Bob graduated BE Mining from Otago University, New Zealand in 1955. He was awarded a postgraduate travelling scholarship during which time he gained experience in Great Britain. He then returned to New Zealand. He obtained Colliery Managers Certificates in England, New Zealand and New South Wales.

After eight years as an Explosives Field Engineer with I.C.I., he joined the NSW Department of Mines and at the time of his retirement he had the position of Senior Inspector of Coal Mines. Subsequently he worked for seven years as Liaison Officer with the Joint Coal Board.

Bob joined the AUSIMM when he moved to Melbourne at the end of 1969. He has participated in the activities of the Melbourne, Sydney and Illawarra Branches. He has been a long term member of the Illawarra Branch Committee including a term as Branch Chairman.

He has presented a number of papers to Symposia organised by the Branch, was on the Editorial Committee for Monograph 12 and co-author of Monograph 21, *History of Coal Mining in Australia*.

### **G B O'Malley Medal**

**Recipient:** Cameron M O'Neill

**Draft Citation:** *For his paper "The JORC Code: Mineral Resource and Ore Reserve Reporting" and its contribution to the recognition and reputation of The AusIMM internationally.*

Cameron O'Neill is a student in Science/Economics at the Australian National University in Canberra. He has completed a First Class Honours degree in geology and is currently completing his final semester in Economics. He is a student member of the AusIMM and was Vice-President of the Brindabella Student Chapter in 1999. Cameron is a state level rower and is also a rowing coach at the Australian National University. His career goal is to become a resource analyst and stockbroker after gaining more experience in the minerals industry. Cameron is also keen to become more involved with the AusIMM.