

PROF. MICHAEL HOOD

HEAD OF MINING PROGRAM, AND
(CHIEF EXECUTIVE OFFICER, CRCMINING)



(MEA NODE: UNIVERSITY OF QUEENSLAND, SCHOOL OF ENGINEERING)

QUALIFICATIONS

B.Sc. in Mechanical Engineering, University of Newcastle upon Tyne, U.K, 1971

B.Sc. in Mining Engineering (Hons), University of Newcastle upon Tyne, U.K, 1973

Ph.D in Mining Engineering, University of the Witwatersrand, South Africa, 1978

EMPLOYMENT

1973 - 75 Technical Officer, Chamber of Mines Research Organisation, South Africa.
1975 - 77 Group Leader, Chamber of Mines Research Organisation, South Africa.
1977 - 82 Assistant Professor, University of California, Berkeley, USA.
1982 - 92 Associate Professor, University of California, Berkeley, USA.
1983 - 88 Senior Research Associate, Flow Research, Inc., Kent, Washington, USA.
1989 - 92 Founder and Chairman of the Board, Mining and Construction Technologies, Inc., USA.
1993 - 98 Professorial Research Fellow, University of Queensland, Brisbane, Australia.
1993 - present Chief Executive Officer, Cooperative Research Centre Mining, Brisbane, Australia
2003 - present Professor of Mining, University of Queensland, Brisbane, Australia

PROFESSIONAL SOCIETIES

Institute of Company Directors, Member
Australasian Institute of Mining and Metallurgy, Fellow
Society of Mining Engineers, A.I.M.E., Member
San Francisco Section of A.I.M.E., Past Chairman
North American Water Jet Technology Association, founder member & former Vice-Chairman

TEACHING AREAS

Rock breaking

RESEARCH

INTERESTS

Rock mechanics
Drilling and mechanical excavation of rock
Rock erosion by water jets

SELECTED RECENT PUBLICATIONS

Meyer, T, Carnavas, P, Alehossein, H, Hood, M, Adam, S and Gledhill M. "The Effect of Nozzle Design on the Erosion Performance of Cavitating Water Jets". International Symposium of New Applications of Waterjet Technology, Ishinomaki, Japan, October 19-21, 1999, pp33-41.
Hood, M and Alehossein, H. "A development in rock cutting technology". Int Journal of Rock Mechanics and Mining Sciences 37 (2000) pp 297-305.
Hood, M. "High Pressure Water Jets in Mining Applications – Research Hobby or Practical Tool?. 6th Pacific Rim International Conference on Water Jetting Technology, 9 – 11 October 2000, pp 41-48.
Hood, M, Rowlands, J, Hatherly, P, Gurgenci, H, Meyer, T and Carnavas, P. "New Technologies for Surface and Underground Coal Mining and Gas Drainage. The EU-Australia Coal Conference, Aachen, Germany, 24-25 September, 2001, pp 182-191
Li, XS & Hood, M. "The Development of rock cutting tools with a new cutting system" Industrial Ceramics, Vol 21, No.3, 2001 pp193-195
Hood, M. "Current research in mine equipment automation in Australia". Automin Conference, Vancouver . 28-30 April, 2002. Published on website www.cim.org/mainEn.cfm.
Meyer, T and Hood M. "Water Jet Drill for Tight Radius Drilling Operations" 16th International Conference on Water Jetting, France 16-18 October 2002 © BHR Group 2002 Water Jetting 16, pp 463-476
Hood, M. "Technology Aimed at Improving Mine Safety". Queensland Mining Industry Health and Safety Conference – Accepting the Challenge 3-6 August 2003 Townsville pp 81-86
Hood, M. "Advances in Hard Rock Mining Technology". Proceedings 13th Annual MEMS (Mineral Economics and Management) Conference – 18-20 April 04. Toronto, Canada.
Hood, M. "Effective Implementation of Tactics: Low-Hanging Fruit in Mining Operations" Proceedings 2nd International Seminar on Strategic vs Tactical Approaches in Mining, 8-10 March 2006, Perth WA