



DR ANDREW JAROSZ

HEAD OF DEPARTMENT

(MEA NODE: WESTERN AUSTRALIAN SCHOOL OF MINES)

- QUALIFICATIONS** M.E. in Engineering and Mine Surveying, University of Mining and Metallurgy (AGH), Krakow, Poland, 1973
Ph.D in Mining Engineering and Surveying, University of Mining and Metallurgy (AGH), Krakow, Poland, 1977
Diploma in University Education, AGH, Krakow, Poland, 1976
- EMPLOYMENT** 1973 - 79 University of Mining and Metallurgy (AGH), Krakow, Poland, Lecturer.
1979 - 83 Central Mining Institute, Katowice, Poland, Mining Engineer / Researcher, .
1983 - 84 E W Finley & Partners, New York, USA, Surveyor.
1984 - 90 Virginia Polytechnic Institute and State University, Blacksburg, VA, USA, Research Associate.
1990 - 96 University of the Witwatersrand, Johannesburg, South Africa, Senior Lecturer.
1996 - present W A School of Mines (Curtin University), Kalgoorlie, Western Australia, Senior Lecturer.
1997 - 2004 Senior Academic, Head of Mine Surveying Program.
2005 - present Head of Mining Engineering and Mine Surveying.
- PROFESSIONAL SOCIETIES** Spatial Sciences Institute, Australia, Member
International Society for Mine Surveying, Presidium Member, Australian Representative.
- TEACHING AREAS** Mine planning, optimisation & design (open pit)
Computer applications in mining
Subsidence engineering
GIS and Spatial Sciences in mining
Mine and engineering surveying
- RESEARCH INTERESTS** Mine planning and optimisation techniques
3D surveys & mapping and VR visualisation of mine openings
Mining applications of CAD and GIS
Mine subsidence monitoring, prediction and engineering
- SELECTED RECENT PUBLICATIONS** Jarosz A., Thomas S. and M. Kuruppu, Optimisation of Delivery of Mining Education to External Students, *Proceedings, CAMI2003, Forth International Conference on Computer Applications in Minerals Industries*, Calgary, Alberta, Canada, 8 - 10 September 2003, CDROM.
Jarosz A., R. Finlayson, GPS Guidance System and Reduction of Open Pit Mining Costs and Revenue Loss, *Proceedings, SPATIAL SCIENCES 2003, Inaugural Conference of Spatial Sciences Institute*, Canberra, ACT, Australia, 22-26 September 2003, ISBN: 0-9588349-8-9.
Shepherd L., A. Jarosz, An Error Analysis of the Wall Station Resection Method of Underground Control Traversing, *Proceedings, SPATIAL SCIENCES 2003, Inaugural Conference of Spatial Sciences Institute*, Canberra, ACT, Australia, 22-26 September 2003, ISBN: 0-9588349-8-9.
Jarosz A., D. Wanke, Use of InSAR for Monitoring of Mining Deformations, *Proceedings SP-550, Fringe 2003, ESA International Workshop on ERS SAR Interferometry*, Frascati (Rome), Italy, 1-5 December 2003, ISBN 92-9092-861-1, <http://earth.esa.int/fringe03/proceedings/>.
Jarosz A., L. Shepherd, Recent Changes in Underground Traversing Techniques in Western Australia, *Proceedings, 12th ISM Congress, Fuxin-Beijing*, China, 20 - 26 September 2004, Transactions of Nonferrous Metals Society of China, pp 696-700.
Jarosz A., L. Shepherd and D.Wanke, Developments and Trends in the Australian Mine Surveying Profession, *Proceedings, 12th ISM Congress, Fuxin-Beijing*, China, 20 - 26 September 2004, Transactions of Nonferrous Metals Society of China, pp 5-9.
Jarosz A. and D.Wanke, Detection and Monitoring of Mining Deformations Using InSAR Technology, *Proceedings, The 12th Australasian Remote Sensing and Photogrammetry Conference*, Fremantle - Western Australia, 18 - 22 October 2004, ISBN 0-9581366-1-0.
Jarosz A., Using DInSAR to Monitor Subsidence Caused by Underground Mining Utilising Block-Caving Method, *Proceedings SP-610, Fringe 2005, ESA International Workshop on ERS SAR Interferometry*, Frascati (Rome), Italy, 28 Nov.- 2 Dec 2005, ISBN 92-9092-921-9, ISSN 1609-042X, <http://earth.esa.int/fringe05/proceedings/>.