

THOMAS M. RYAN, P.E.

Education

M.S., Geological Engineering, University of Arizona, 1987

B.S., Geological Engineering, University of Arizona, 1986

Registration

Professional Engineer, Geological Engineering
Arizona, New Mexico, Montana

Affiliations

International Society of Rock Mechanics
Society for Mining, Metallurgy, and Exploration

Experience

- 1995 – Present **Vice President, Call & Nicholas, Inc.**, Tucson, Arizona.
Principal of the firm. Manager of projects involving geotechnical engineering and geomechanics, specializing in slope stability evaluations of soil and rock.
- 1993 – 1994 **Professor of Mining Engineering, Montana College of Mineral Science & Technology**, Butte, Montana.
Lecturer in geomechanics and mine design. Technical advisor and lecturer for the Mine Waste Pilot Program.
- 1988 – 1993 **Geological Engineer, Call & Nicholas, Inc.**, Tucson, Arizona.
Project engineer/manager for geomechanical and hydrogeologic studies. Responsible for project management, supervision of field data collection and laboratory testing, technical analysis and interpretation, and writing design reports. Project types include pit slope stability studies, underground mining method selection, EPA Superfund site investigations, and design and permitting of mine waste dumps and tailing dams.
- 1986 – 1987 **Geotechnical Engineer, U.S. Army Engineer Waterways Experiment Station**, Vicksburg, Mississippi.
Research on the prevention of water inflow into deep underground excavations, displacement monitoring, and the improvement of existing dams and hydraulic control structures.

Additional Information

- **Teaching:** Short course lectures on rock fragmentation for leaching studies at annual meetings of the SME; short course lectures on probabilistic stability assessment for Mine Design and Closure Conferences; Adjunct Professor, University of Arizona, Geomechanics 528; thesis advisor to graduate students.
- **Technical Publications:** papers in *ASCE Journal*, *International Journal of Rock Mechanics*, *Slope Stability in Surface Mining*, and various symposia; publication list available upon request.
- Has worked in South Korea, Egypt, Russia, Chile, Peru, Colombia, Mexico, Canada, Indonesia.
- Interests include swimming, martial arts, standing in cold rivers with a rod in hand, books, baseball sabermetrics, international travel, and backyard barbecue.

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