



Country Of Citizenship: Australia

Educational Qualifications: BA (Geol), Macquarie University, Sydney 1973
Diploma of the Imperial College, 1980
Master of Science (with Distinction), University of London, 1980

Awards: Project Director, Lochiel Trial Pit, 1987
SA Engineering Excellence Awards
Institution of Engineers Australia

Professional Affiliations: Fellow, Australasian Institute of Mining and Metallurgy
Fellow, Institution of Engineers, Australia
Chartered Professional Engineer
Chartered Professional (Mining)
Member, Mineral Industry Consultants Association
Member, Geological Society of Australia
Member, Australian Geomechanics Society

FIELDS OF SPECIAL COMPETENCE: Mine Development Studies

- open pit rock mechanics
- slope stability and stabilisation
- mine dewatering and drainage
- material excavation and handling characteristics
- underground rock mechanics

Mr. Sullivan graduated from Macquarie University in 1973 with a degree majoring in geology. He joined Coffey's in 1974 and was employed with them till 1993. While at Coffey's Mr Sullivan was a Director of the firm and established the Mining Geotechnics Group. In 1979-80 Mr Sullivan undertook postgraduate studies in London and was awarded an MSc from the University of London and a DIC from the Imperial College of Science and Technology. From 1992-1993, he was a Visiting Professor at the School of Mines, University of New South Wales. He is currently Adjunct Professor of Geotechnical Engineering, University of New South Wales. Mr Sullivan has worked on over 300 mining projects at all stages from planning to operating.

Clients include BHP Billiton, Rio Tinto, Placer, WMC, Newmont, Anglo Gold, Normandy, Delta Gold, Griffin, Hamersley Iron, Newcrest, and many others. In addition to all the states and mainland territories of Australia, Mr Sullivan has lived and worked extensively overseas. Major projects have been located in India, Papua New Guinea, Indonesia, Thailand, Philippines, New Zealand and Fiji. Currently, a Director and Principal Consultant of Pells Sullivan Meynink Pty Ltd.

EXPERIENCE:

2007	Mining Warden Yallourn Mine Collapse Inquiry
1993 - Present	Principal, Pells Sullivan Meynink Pty Ltd Sydney
2002 - Present	Adjunct Professor of Geotechnical Engineering, University of NSW
1997 - 2000	Coroner's Adviser on the Thredbo Landslide
1992 - 1993	Visiting Professor, University of NSW
1983 - 1993	Director, Coffey Partners International Pty Ltd Sydney
1979 - 1980	Post Graduate Studies in United Kingdom
1974 - 1993	Coffey & Partners Pty Ltd Sydney

GEOTECHNICAL AUDIT AND REVIEW ASSIGNMENTS

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Muara Tiga Coal, Sumatra, Indonesia	Geotechnical review.
Burton Downs Coal, QLD	Review and revised slope design.
Mt Leyshon Gold Mine, QLD	Review and redesign of slope design for 400m deep pit.
Masaboni Copper Mines, India	Geotechnical review of four underground mines.
Mae Moh Lignite, Thailand	Geotechnical and groundwater review.
Leigh Creek Coal, SA	Review, investigation, monitoring and analysis of low wall depressurisation due to unloading.
Lihir Gold Mine, Papua New Guinea	Geotechnical review.
Telfer Gold Mine, WA	Geotechnical review and audit for 450mm deep open cut mine.
Goonyella Riverside Coal Mine, QLD	Geotechnical review.
Condor Oil Shale Project, QLD	Geotechnical review.
Lindsay Coal Project, QLD	Geotechnical review.
Mt Newman Iron Ore Mine, WA	Geotechnical review.
Mt Owen Coal Mine, NSW	Geotechnical review.
Liddell Coal Mine, NSW	Geotechnical review.
Waihi Gold Mine, New Zealand	Geotechnical review.
Tarmoola Gold Mine, WA	Geotechnical review.
Boddington Gold Mine, WA	Geotechnical review for 400m deep open cut mine.
Ernest Henry Copper Gold Mine, QLD	Geotechnical review for 500m deep open cut mine.
Highway Reward Copper Mine, QLD	Geotechnical review.
Tai Lam Highway Cutting, Hong Kong	Geotechnical review.
Kelian Gold Mine River Diversion, Indonesia	Review of geotechnical studies and design.
Gold Cross Tailings Dam, New Zealand	Geotechnical review.
McArthur River Mines, N.T.	Geotechnical review.
Mt Isa Open Pit, QLD	Geotechnical review.
Ensham Coal Mine, QLD	Geotechnical review.
Eildon Dam, VIC	Geotechnical review.
North Parkes Mines, NSW	Geotechnical review.
Rolleston Coal, QLD	Geotechnical review.
Newlands Coal, QLD	Geotechnical review.

**MAJOR OPEN CUT MINES
Hard Rock**

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Cadia Copper/Gold, NSW	Feasibility studies for 250m deep pit.
Woodsreef Asbestos Mine, NSW	Advise on landslide stabilisation.
Haveluck Gold Mine, WA	Advice on monitoring and stabilisation.
Woodlawn Lead Zinc, NSW	Slope design, slide stabilisation, monitoring and cable bolting.
Browns Creek Gold Mine, NSW	Slope design and slide stabilisation.
Phar Lap Gold Mine, WA	Slope design, cable bolting and monitoring.
Wiluna Gold Mine, WA	Slope design.
Rand Gold Mine, WA	Advice on pit instability.
Rotokaua Sulphur, NZ	Design geotechnical studies for dredging and open cut mining.
Fenian Gold Mine, WA	Slope design.
Mt Weld Phosphate and Rare Earth, WA	Design geotechnical studies.
PT Kelian Gold Mine, Kalimantan, Indonesia	Preliminary and design studies for 300m deep open cut mine including cable bolting.
Hidden Valley Gold, PNG	Preliminary and design studies for 400m deep open cut mines.
Cork Tree Well Gold Mine, WA	Advice on pit stability.
Gibraltar Gold Mine, WA	Slope design, haul road layout and cable bolting.
Super Pit, Kalgoorlie, WA	Slope design for 400m deep pit.
Blue Funnel Gold Mine, WA	Slope design and cable support assessment.
Croesus Gold Mine, WA	Advice on slope stability beneath crusher
Mt Morgans Gold Mine, WA	Pit slope design and monitoring.
Chapri Copper Mine, India	Slope design.
Barrytown Mineral Sand, NZ	Geotechnical study.
Jubilee Gold Mine, WA	Pit slope design and cable support.
Reefton Gold Mine, NZ	Geotechnical study for open cut mining.
Tom Price Iron Ore Mine, WA	Redesign of slopes in BIF and shale to 350m high.
Paraburdoo Iron Mine, WA	Slope design.
Brockman Iron Ore Mine, WA	Advice on slope stability.
Channar Iron Ore Mine, WA	Design geotechnical studies.

**MAJOR OPEN CUT MINES
Hard Rock**

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Marandoo Iron Ore Mine, WA	Design geotechnical studies.
Mt. Keith Nickel Project, WA	Design stage studies for 400m deep mine.
Throssel River Copper, WA	Preliminary studies.
Gabanintha Gold Mine, WA	Geotechnical design for four pits.
Nathans Deep South Gold Mine, WA	Slope design.
Labouchere Gold Mine, WA	Slope design.
Bannockburn Gold Mine, WA	Slope design.
Trough Tank Copper Gold, QLD	Preliminary assessment.
Grants Gold Mine, WA	Slope design.
Cosmo Howley Gold Mine, NT	Review and slope design.
Woolwonga Gold Mine, NT	Slope design.
Mickey Doolan Gold Mine, WA	Slope design.
Marmont Gold Mine, WA	Slope design.
Globe Gold Mine, WA	Advice on stability.
Commodore - St. Francis Gold Mine, WA	Slope design.
Red Spider Gold Mine, WA	Slope design.
Halcyon/Democrat Gold Mine, WA	Slope design.
Yackabindie Nickel, WA	Review and slope design for two pits to 350m.
Macraes Gold Mine, NZ	Design of pit slopes.
Wafi Copper/Gold, PNG	Preliminary geotechnical studies.
Kidston Gold Mine, QLD	Slope design, cable bolting and monitoring.
Lorne Hill Lead Zinc, QLD	Preliminary design.
Kanowna Belle Gold Mine, WA	Design stage studies.
Waihi Gold Mine, NZ	Analysis and design for 250m deep pit.
Coeur Gold Mine, NZ	Analysis and design pit and tailings.
Kelian Gold Mine, Indonesia	Feasibility and operating design studies.
Honeymoon Well, Nickel, WA	Preliminary and feasibility studies for 250m deep open cut mine.
Union Reefs Gold Mine, NT	Feasibility and operating studies for 200m deep open cut mine.
Orlando Gold Mine, NT	Design and operating studies.

**MAJOR OPEN CUT MINES
Hard Rock**

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Cleo Gold Prospect, WA	Open cut studies for 200m deep pit.
Golden Delicious Gold Mine, WA	Open cut studies for 130m deep pit.
Perseverance Nickel Mine, WA	Advice on slope stabilisation.
McKinnons Gold Mine, NSW	Design of open pit.
Lake Cowal Gold Mine, NSW	Design of 300m deep open pit.
Kidston Gold Mine, QLD	Design for Eldridge pit 250m deep.
Mt Edon Gold Mine, WA	Design for 220m deep open cut mine.
Lynas Fine Gold Mine, WA	Design for two small gold pits.
Boddington Gold Mine, WA	Geotechnical review.
Savage River, TAS	Advice on stability.
Gosowong Gold Mine, Indonesia	Review and redesign.
Highway Reward, Charters Towers, QLD	Geotechnical review of open pit.
Wallgrove Quarry, NSW	Advice on quarry failure.
Draggages, Hong Kong	Geotechnical review of 80m high highway cutting.
Cadia Hill Gold Mine, NSW	Geotechnical studies for 750m deep pit.
Cadia Hill Quarry, NSW	Geotechnical investigations.
Cadia East, NSW	Geotechnical study.
Cadia Hill Gold Mine (Cadiangullong Creek Diversion), NSW	Geotechnical review.
Ernest Henry Mine, QLD	Geotechnical review of 'life of mine'.
Kelian Gold Mine (River Diversion), Indonesia	Geotechnical review.
Telfer Gold Mine, WA	Geotechnical Review for 400m deep open cut mine.
Batu Hijau Mine, Indonesia	Geotechnical advice and guidance in the technical program for 1000m deep open pit.
Mt. Prominent, SA	Design for 500m deep open pit to Bankable Feasibility Study level.
Geita Gold Mine, Tanzania	Assistance with Mine Risk Study.
Bolnisi Gold, Mexico	Feasibility Design for 300m deep open cut mine.
North Parkes Mine, NSW	Design and ongoing advice for 190m deep open pit, E27.
North Parkes Mines, NSW	Investigation and design for 200m deep open pit, E22.

**MAJOR OPEN CUT MINES
Hard Rock**

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Olympic Dam , SA	Pre-feasibility and feasibility studies for 1500m deep open cut mine.
Batu Hijau, Indonesia	Design studies for 900m deep open cut mine.
Lihir Gold Mine, PNG	Ongoing assistance with design and operation.
Tampakan Gold Project, Philippines	Pre-feasibility slope designs.

MAJOR OPEN CUT MINES Coal and Oil Shale

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Curragh Coal Mine, QLD	Feasibility geotechnical studies.
Mt. Sugarloaf Collieries, NSW	Feasibility geotechnical studies.
Wolfgang Coal deposit, QLD	Geotechnical studies for 300m open cut mine.
Boggabri, NSW	Appraisal of conditions for strip mine.
Oaklands, NSW	Preliminary, feasibility and design studies for strip mining.
Rosedale Brown Coal, VIC	Appraisal.
Yaamba Oil Shale, QLD	Feasibility studies for 600m deep mine.
Bulga Coal Mine, NSW	Geotechnical assessment and assessment of spoil pile stability in steeply dipping seams.
Leigh Creek Coal Mine, SA	Summary of geotechnical investigations.
Wintinna Coalfield, SA	Feasibility geotechnical study.
Lochiel Lignite, SA	Feasibility and design studies for strip mine in soils.
Wambo Coal Mine, NSW	Study for pit extension.
Lindsay Coal, QLD	Geotechnical audit.
Millmerram Coal, QLD	Geotechnical appraisal.
Charleston Coalfield, NZ	Design studies.
Gretley Colliery, NSW	Slope stability.
Banko Barat Coal, Sumatra, Indonesia	Design studies.
Chatham Islands Peat, NZ	Feasibility studies for open cut mining and dredging.
Whaitewhena Coalfield, NZ	Preliminary appraisal of open cut mining.
P.T. Kaltim Prima Coal, Kalimantan, Indonesia	Preliminary and feasibility studies for open cut mining and dump design studies.
Lochiel Lignite, SA	Investigation, analysis and design for trial pit.
Stuart Oil Shale, QLD	Geotechnical study for box cut excavation.
P.T. Berau Coal Mine, Kalimantan, Indonesia	Geotechnical studies for open cut mining.
Hill River Coal, WA	Design studies for open cut mining.
Stuart Oil Shale, QLD	Design geotechnical studies.
Ulan Coal Mine, NSW	Advice on dragline failure, spoil pile failure, and general slope design.
Muja Coal Mine, WA	Cable bolt design, monitoring, dump design, stabilisation.

**MAJOR OPEN CUT MINES
Coal and Oil Shale**

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Mae Moh Lignite Mine, Thailand	Geotechnical audit and advice.
Griffin Coal, WA	Slope design, detailed monitoring instrumentation.
Western Collieries, Muja North, WA	Slope design.
Cumnock No. 1 Colliery, NSW	Geotechnical studies for open cut coal mining.
Mt Owen Mine, NSW	Geotechnical review.
Liddell Coal Mine, NSW	Geotechnical review.
Ensham Coal Mine, QLD	Geotechnical designs and guidance.

MAJOR UNDERGROUND PROJECTS Tunnels, Shafts and Declines

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Yonki, Papua New Guinea	Geotechnical investigations.
Tickhole Tunnel, Newcastle, NSW	Widening of tunnel and portal landslide stabilisation.
Buchanan Borehole Colliery, NSW	Stability of 65m high tunnel portal.
Z.C. Mine, Broken Hill, NSW	8m diameter 900m raisebore shaft. 400m decline. 330m raisebore shaft.
Peak Gold Mine, Cobar, NSW	500m raisebore shaft. 400m decline
Sydney Harbour Tunnel, NSW	Stability of southern interface.
Wintinna Coalfield, SA	Investigation and design for 200 to 300m deep coal mine.
Northside Storage Tunnel, NSW	Review of geotechnical conditions and tunnel support for tender.
Eastern Distributor, NSW	Specialist advice concerning difficult ground conditions and ground support.
Wintinna Coalfield, SA	Investigation and design of 200 to 400m deep coal mine.
Vickery Coal Project, NSW	Investigation and design for 200 to 300m deep coal mine.
Wambo Colliery, NSW	Investigation for extension to existing mine.
Whaitewhena Coal, New Zealand	Appraisal of underground conditions.
Rakha Copper Mine, India	Investigation, analysis and design.
Kendadih Copper Mine, India	Investigation, analysis and design.
West Cliff Colliery, NSW	Geotechnical investigation for mine extension.
Admiral Copper, WA	Preliminary appraisal.
Wafi Copper/Gold, PNG	Preliminary assessment of underground mining.
Waihi Gold Mine, New Zealand	Investigation of collapses and old underground mines.
Perseverance Nickel Mine WA	Investigation and remediation of slope movements into old stopes.

MINE DEWATERING AND SLOPE DEPRESSURISATION

Dewatering

1 of 1

Kaltim Prima Coal Mine, Indonesia	Investigations and mine dewatering study.
Westland Ilmenite, New Zealand	Water management study.
Channar Iron Ore Mine, WA	Dewatering for 150m deep pit in colluvial deposits.
Stuart South Oil Shale, QLD	Cut-off through marine sediments and pit dewatering.
Stuart South Oil Shale, QLD	Pit dewatering.
Waisoi Copper Project, Fiji	Dewatering for two 400m deep open cut mines.
Wolfgang Coal, QLD	Dewatering for 300m deep open cut.
Oaklands Coal, NSW	Investigation analysis and design for one of the world's largest mine dewatering and reinjection projects.
Yaamba Oil Shale, QLD	Dewatering of tertiary overburden.
Lochiel Trial Pit, SA	Dewatering for 40m deep trial mine.
Lochiel Coal, SA	Dewatering studies for strip mining. Overburden dewatering and basal depressurisation.
Charleston Coal, New Zealand	Mine dewatering studies.
Rotokaua Sulphur, New Zealand	Dewatering for open cut mining of sulphur in hot springs area.
Kunwarara Magnesite Mine, QLD	Dewatering and reinjection studies.
Wintinna Coalfield, SA	Mine dewatering and reinjection studies.
Goonyella Coal Mine, QLD	Stabilisation of spoil pile slide with horizontal drains.
Nathans Deep South Gold Mine, WA	Stabilisation of toppling failure with horizontal drains.
Cosmo Howley Gold Mine, NT	Stabilisation of large scale toppling failure with horizontal drains.
Kidston Gold Mine, QLD	Slope depressurisation with horizontal drains.
Woodlawn Mine, NSW	Slope depressurisation and landslide stabilisation with horizontal drains.
Lochiel Trial Pit, SA	Pre-drainage ahead of mining using vertical pressure relief wells.
Democrat Gold Mine, WA	Stabilisation of large failure with horizontal drains.
Mt Keith Nickel, WA	Slope depressurisation for pit wall steepening.
Gibraltar Gold Mine, WA	Slope depressurisation for pit wall steepening.
Prohibition Gold Mine, WA	Slope depressurisation.
Kelian Gold Mine, Indonesia	Slope depressurisation.

EXCAVATION ASSESSMENTS
Excavation Assessments

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Oaklands Coal, NSW	BWE.
Yaamba Oil Shale, QLD	BWE.
Lochiel Lignite, SA	BWE and Wirtgen miner.
Muara Tiga Coal, Sumatra, Indonesia	BWE.
WIM 150 Mineral Sands, VIC	BWE excavation of cemented sands.
Rotokaua Sulphur, NZ	Dredge excavation.
Hill River Coal, WA	BWE.
Kunwarara Magnesite Mine, QLD	Excavation assessment and dredging.
Marandoo Iron Ore Mine, WA	Excavation assessment, BWE continuous miners. Blasting.
Mt. Keith Nickel, WA	Drilling, blasting and crushing.
Kelian Gold Mine, Indonesia	Crushing.
Kanowna Belle Gold Mine, WA	Drilling and blasting.
Yakabindie Nickel, WA	Crushing and blasting.
Newrybar Mineral Sands, NSW	Excavation assessment.
Kiama Bypass, NSW	Expert witness assessment of excavation characteristics.
Coppabella Coal Mines, QLD	Expert witness assessment of excavation and mining conditions.

WATER SUPPLY DAMS, AND TAILINGS DAMS

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Ranger Uranium Mines, NT	Geotechnical investigations, retention ponds 1 and 2.
Jabiluka Uranium Project, NT	Investigation and design, tailings dam site one.
Jabiluka Uranium Project, NT	Investigation and design, tailings dam site two.
Public Works Department, NSW	Investigation and design, feasibility and design stages Mangrove Creek dam.
Public Works Department, NSW	Assessment of foundation geology and strength, Hume weir.
Minatome Aust., QLD.	Investigation and design, Uranium tailings dam.
Coeur Gold, NZ	Investigation and advice on stability, tailings dam.
Coeur Gold, NZ	Investigation and advice on stability, Union Silt dam.
GH & D, VIC	Investigation of dam foundations, Euroa dam.
Kelian Gold, Indonesia	Safety inspection, tailings dam.
Waihi Gold Mining Co Ltd, NZ	Advice on surface instability and rehabilitation, tailings dam/waste embankment.
Dept Public Works, PNG	Foundation investigation, diversion tunnel and rip rap search. Yonki water supply dam.

HYDROGEOLOGICAL STUDIES
Hydrogeological Studies

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Hill River Coal, WA	Open cut mining to 140m.
Curragh Coal Mine, QLD	For strip mining.
Oaklands Coal, NSW	Regional hydrogeological studies covering 5000km ² .
P.T. Berau Coal Indonesia	Hydrogeological investigations for mining.
Lochiel Deposit, SA	Regional studies covering 100km ² .
Millmeran Coal, QLD	Groundwater investigations.
Westland Ilmenite, NZ	Hydrogeology of 15km of coastal marine flats.
Chatham Islands Peat, NZ	Island wide hydrogeological appraisal.
Stuart South Oil Shale, QLD	Detailed hydrogeological investigations.
Kunwarara Magnesite Mine, QLD	Review.
Kelian Gold Mine, Indonesia	Hydrogeological Investigations.
Hidden Valley Gold, PNG	Hydrogeological Investigations.
Kaltim Prima Coal Mine, Indonesia	Detailed investigations for pit wall depressurisation/dewatering.
Horsham Minerals Sand, VIC	Regional hydrogeological studies.
Lake Lindsay, QLD	Review.
Condor Oil Shale, QLD	Review of dewatering studies.
Vickery Coal, NSW	Hydrogeological study.

NATURAL AND CIVIL ENGINEERING LANDSLIDES

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Spears Point, NSW	Investigation into block slide landslip in coal measure rocks adjacent to Lake Macquarie NSW
Golden Cross, New Zealand	Assessment of movements in a hillside supporting a tailings dam and interpretation that these represented a half kilometre wide by one and a half kilometre landslide with a volume of about 50 million m ³ . Recommendations for and implementation of major drainage remedial measures.
Thredbo, NSW	Principal investigator on behalf of the NSW Coroner into the causes of the 1997 Thredbo Landslide.
Tuen Mun, Hong Kong	Assessment of slope stability in 90m deep cutting in weathered and fresh granite for access to new Hong Kong airport.

PUBLICATIONS

Sullivan T.D. (1982). The Origin and Characteristics of Defects in Oil Shale. Coal Resources Symp., Melbourne 1982.

Sullivan T.D. and Burman B.C. (1985), Geological and Geotechnical Aspects of small basins and their effects on mining. Asian Mining Conf. Manila 1985, pp. 321-335.

Burman B.C. and Sullivan T.D. (1985). Dewatering and depressurisation studies for development of the Lochiel open pit mine South Australia. Proc. 2nd Int. Mine Water Congress Granada 1985. pp. 307-324.

Sullivan T.D. (1986). Mine and Monitor - An approach to coping with unstable pit walls. 13th CMMI Conf., Singapore.

Sullivan T.D. and Burman B.C. (1986). The Lochiel Project - A case study of geotechnical engineering studies in a difficult environment. Singapore 1986. 13th CMMI Congress.

Fell R., Sullivan T.D., Parker C. (1987). The Speers Point Landslide Proceedings Soil Slope Instability and Stabilisation. Walker and Bell, Balkema.

O'Brien M.D. and Sullivan T.D. (1988). The Lochiel Trial Pit - Design and Excavation. Conf. Minerals at the Crossroads, AusIMM, Sydney 1988, pp. 127-133.

Sullivan T.D. (1991). Pit Slope Design - an interactive way to save stripping costs. Resources Magazine.

Sullivan T.D., Duran A. and Eggers M.J. (1992). The Use and Abuse of Oriented Core in Open Pit Mine Design. Third Large Open Pit Mining Conf., Mackay 1992, pp. 387-395.

Sullivan T.D. (1993). Understanding Pit Slope Movements. Geotechnical Instrumentation and Monitoring in Open Pit and Underground. Proc. Aust. Conf. June 1993 Kalgoorlie. pp. 435-446.

Sullivan T.D. (1993). Mine Geology from a Geotechnical Perspective Int. Mining Geology Conference. Kalgoorlie WA. July 1993. pp. 255 to 262.

Sullivan T.D. (1994). Mine Slope Design - The chances of getting the answer right and the risk of getting it wrong. Fourth Large Open Pit Mining Conference Perth 1994.

Eggers M., Mostyn, G. and Sullivan, T.D. (1999). Probabilistic Stability Assessment of a High Rock Slope in Variable Strength Rocks. Proceeding 8th ANZ Conference on Geomechanics.

Mostyn G. and Sullivan T. (2002). Quantitative risk assessment of the Thredbo landslide, Australian Geomechanics, V 37 No 2, May, pp 169-181.

Sullivan T.D. (2006) Pit Slope Design and Risk – A view of the current state of the art. Proceedings Symposium S44, Stability of rock slopes in open pit mining and civil engineering situations. S.A. Institute of Mining and Metallurgy, Cape Town 2006

Sullivan T.D. (2007) Highwalls, Stockpiles and Dangers: Safety and Productivity. 2007 UNSW/Mitsubishi Lecture

Sullivan T.D. (2007) Hydromechanical Coupling and Pit Slope Movements. Keynote Lecture proceedings, International Symposium on Rock Slope Stability in Open Pit Mining and Civil Engineering, Perth. September 2007.