

PUBLICATIONS:

Books:

Hocking G. (1992)

"Environmental Regulations, Compliance and Liability", Butterfly Books, Springwood, N.S.W., 231pp., Editor.

Articles:

Hocking, G. and D. Walters. 2013. "Vertical Single-Well SAGD with Multiple Producers", SPE Heavy Oil Conference Canada, Calgary, Paper# SPE 165433, June.

Hocking, G., T. W. Cavender, T. Hunter and G. Li. 2013. "Comparisons of Plane Propagation from Dilating Casing and Conventional Perforations when Stimulating the Milk River Formation", 47th US Rock Mechanics / Geomechanics Symposium, San Francisco, Paper ARMA 13-254, June.

Hocking, G., T. W. Cavender, J. Person and T. Hunter. 2012. "Single-Well SAGD Field Installation and Functionality Trials", SPE Heavy Oil Conference Canada, Calgary, Paper# SPE 157739, June.

Hocking, G., T. W. Cavender and J. Person. 2011. "Single-Well SAGD: Overcoming Permeable Lean Zones and Barriers", Canadian Unconventional Resources Conf, Calgary, Paper# CSUG/SPE 148832, November.

Hocking, G., T. W. Cavender and J. Person. 2011. "Unimpaired Performance of Single-Well SAGD in Variable Geology", Gas & Oil EXPO & Conference North America 2011, Calgary, Paper# GOEC11-079, June.

Hocking, G., T. W. Cavender and R. Schultz. 2008. "Injection of Multi-Azimuth Permeable Planes in Weakly Cemented Formations for Enhanced Heavy Oil Recovery", SPE International Thermal Operations and Heavy Oil Symposium, Calgary, SPE-117326-PP, October.

Hocking, G. and G. C. Hebner. 2006. "Soil Liquefaction Prevention by Electro-Osmosis and an In Situ Method to Quantify a Soil's Tendency to Liquefy", GeoShanghai International Conference 2006, Shanghai, China, June 6-8.

Hocking, G., C. N. Givens and C. M. Lacko. 2006. "Installation of a Full Scale Permeable Reactive Barrier at a Former Manufacturing Site in California", 5th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 22-25.

Hocking, G., C. N. Givens and C. M. Lacko. 2006. "Installation of Permeable Reactive Barriers in Urban Residential Environments Surrounding Federal Installations", 5th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 22-25.

Hocking, G., C. N. Givens, M. A. Thurman and C. M. Lacko. 2006. "Installation of Permeable Reactive Barrier at Tinker Air Force Base, Oklahoma City, OK", 5th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 22-25.

- Hocking, G., M. A. Thurman and C. N. Givens. 2006. "Performance of a Deep Iron Permeable Reactive Barrier in an Urban Setting", 5th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 22-25.
- Futch, R. S., G. Hocking, A. Hildick and W. R. Sharp. 2005. "Geophysical Applications in the Design, Construction and Verification of Zero-Valent Iron Permeable Reactive Barriers", NGWA 2005 Ground Water Summit, San Antonio, TX, April 17-20.
- Futch, R. S., G. Hocking and R. P. Sadarangani. 2005. "Performance of a One-Hundred Foot Long Pilot Permeable Reactive Barrier", 15th Annual West Coast Conference on Soils, Sediments and Water, San Diego, CA, March 14-17.
- Hocking, G., S. L. Wells and C. N. Givens. 2004. "A Deep Iron Permeable Reactive Barrier Constructed below 100 Foot Depth", 4th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 24-27.
- Hocking, G., M. A. Thurman and S. L. Wells. 2004. "Five-Year Performance of Two Iron Permeable Reactive Barriers", 4th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 24-27.
- Barber, W. B., G. Hocking, P. A. Farmanian and D. W. Jones. 2004. "Deep Iron Permeable Reactive Barrier in an Urban Setting", 4th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 24-27.
- Bauer, N., G. Hocking, R. S. Futch and S. L. Wells. 2004. "Construction and Performance Monitoring of a 1200-Foot Long Iron Permeable Reactive Barrier", 4th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 24-27.
- Hocking, G., S. L. Wells and R. P. Futch. 2004. "Pulse Interference Testing for Hydrogeological Characterization of a Complex Site", 4th International Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 24-27.
- Hocking, G. 2003. "Hydraulic Pulse Testing of Permeable Reactive Barriers", RTDF Permeable Reactive Barrier Action Team Meeting, Niagara Falls, NY, October 15-16.
- Hocking, G. and S. L. Wells. 2002. "Design, Construction and Installation Verification of a 1200' Long Iron Permeable Reactive Barrier", 8th Annual Environmental Remediation Conf., Orlando, FL, November 20-21.
- Hocking, G. 2002. "Probabilistic Design and Construction Verification of a Permeable Reactive Barrier at an Industrial Site in Virginia", RTDF Permeable Reactive Barrier Action Team Meeting, Washington DC, November 6-7.
- Hocking, G., S. L. Wells, and M. A. Thurman. 2002. "Design, Construction and Installation Verification of Deep Iron Permeable Reactive Barriers", 3rd Int. Conf. On Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 20-23.
- Hocking, G., S. L. Wells, and C. N. Givens. 2002. "Extracted Groundwater Treatment Utilizing an Iron Reactor and Air Stripper", 3rd Int. Conf. On Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 20-23.

- Hocking, G. and S. L. Wells. 2002. "Groundwater Performance Monitoring of an Iron Permeable Reactive Barrier", 3rd Int. Conf. On Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 20-23.
- Hocking, G. 2002. "Hydraulic Pulse Interference Tests for Site Hydrogeological Characterization", 3rd Int. Conf. On Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 20-23.
- Hocking, G., S. L. Wells, and C. N. Givens. 2002. "Performance of a Fracture Enhanced Dual Phase Soil Vapor Extraction System", 3rd Int. Conf. On Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 20-23.
- Hocking, G. and S. L. Wells. 2001. "Extracted Groundwater Treatment Utilizing an Iron Reactor and Air Stripper", 7th Annual Environmental Remediation Conf., Orlando, FL, November 14-15.
- Hocking, G. 2001. "Hydraulic Pulse Interference Tests for Integrity Testing of Containment and Reactive Barrier Systems", 2001 Int. Containment & Remediation Technology Conf., Orlando, FL, June 10-13.
- Hocking, G., S. L. Wells, and R. I. Ospina. 2001. "Performance of a Deep Iron Permeable Reactive Barrier for Groundwater Remediation of VOCs", 2001 Int. Containment & Remediation Technology Conf., Orlando, FL, June 10-13.
- Hocking, G., S. L. Wells, and R. I. Ospina. 2001. "Probabilistic Design of Permeable Reactive Barriers", 2001 Int. Containment & Remediation Technology Conf., Orlando, FL, June 10-13.
- Hocking, G., S. L. Wells, and R. I. Ospina. 2000. "Deep Reactive Barriers for Remediation of VOCs and Heavy Metals", 2nd Int. Conf. On Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 22-25.
- Hocking, G., and R. I. Ospina. 1999. "Construction and Performance Monitoring of In Situ Reactive Barriers", Subsurface Barrier Technologies, IBC's 2nd Annual Environmental Technology Symp., Scottsdale, AZ, February 1-2.
- Hocking, G., S. L. Wells and R. I. Ospina. 1998. "Performance of the Iron Reactive Permeable Barrier at Caldwell Superfund Site", RTDF Permeable Reactive Barriers Action Team Meeting, Oak Ridge, TN, November 17-18.
- Hocking, G., S. L. Wells, and R. I. Ospina. 1998. "Field Performance of Vertical Hydraulic Fracture Placed Iron Reactive Permeable Barriers", Emerging Remediation Technologies for Soil and Groundwater Cleanup, Florida Remediation Conf., Orlando, FL, November 10-11.
- Hocking, G., S. L. Wells, and R. I. Ospina. 1998. "Field Performance of Vertical Hydraulic Fracture Placed Iron Reactive Walls", 1st Int. Conf. On Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 18-21.
- Hocking, G., S. L. Wells, and R. I. Ospina. 1998. "Design and Construction of Vertical Hydraulic Fracture Placed Iron Reactive Walls", 1st Int. Conf. On Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA, May 18-21.

- Hocking, G., and S. L. Wells. 1997. "Orientated Vertical Hydraulic Fracture Iron Reactive Walls", presented at the ASCE Environmental Group Meeting, Atlanta, GA, March.
- Hocking, G. (1996). "Azimuth Control of Hydraulic Fractures in Weakly Cemented Sediments", 2nd North American Rock Mechanics Symp, Montreal, A.A. Balkema, Rotterdam, pp1043-1048.
- Felice, C. W. and Hocking, G. (1995). "An In-Situ Barrier Construction Technique to Mitigate Blast Effects", 7th. Int. Symp. on Interaction of the Effects of Munitions with Structures, Mannheim, Germany.
- Hocking, G. and Felice, C. W. (1994). "A System for Placing BioRemediation Mixtures In-Situ", 6th. Int. Symp. on Emerging Technologies in Hazardous Waste Management", American Chemical Society, Atlanta, GA.
- MacGregor, F., Fell, R., Mostyn, G.R., Hocking, G. and McNally, G. (1994). "The Estimation of Rock Rippability", Quart. Jn. Eng. Geo., v27, pp. 123-144.
- Hocking, G. (1993). "Collision Impact of a Ship with Multi-Year Sea Ice". 2nd Int. Conf. Discrete Element Methods, MIT, Cambridge, pp. 369-378.
- Hocking, G. (1993). "Discrete Element Analysis on the Rippability of Rock". 2nd Int. Conf. Discrete Element Methods, MIT, Cambridge, pp. 569-578.
- Hocking, G. and Sulistijo, B. (1993). "Progressive Failure Analysis of Rock Slopes". 2nd Int. Conf. Discrete Element Methods, MIT, Cambridge, pp. 489-497.
- Merrick N. and Hocking G. (1992). "Detection of Earth Anchors at Building Sites", Exploration Geophysics. v23, pp. 571-577.
- Hocking G. (1992). "The Discrete Element Method for Analysis of Fragmentation Of Discontinua", Int. Jn. for Engineering Computations, Vol 9, pp. 145-155.
- Hocking G., Williams J.R. and Mustoe G.G.W. (1990). "Post Test Assessment of Simulations for In Situ Heater Tests in Basalt, Part I - Heater Test Description and Rock Mass Properties". Int. J. Rock Mech. Min. Sci. & Geomech. Abstr., Vol. 27, No. 3, pp. 143-159.
- Hocking G., Williams J.R. and Mustoe G.G.W. (1990). "Post Test Assessment of Simulations for In Situ Heater Tests in Basalt, Part II - Comparison of Predicted and Measured Response". Int. J. Rock Mech. Min. Sci. & Geomech. Abstr., Vol. 27, No. 3, pp. 161-174.
- Hocking G. (1989). "The Discrete Element Method for Analysis of Fragmentation Of Discontinua", 1st U.S. Symp. on Discrete Element Methods, CSM Press, Golden, CO, pp. 1-14.
- Hocking G., Mustoe, G.G.W. and Williams J.R. (1987). "Dynamic Analysis for Generalized Three Dimensional Contact and Fracturing of Multiple Bodies". Int. Conf. on Numerical Methods in Engineering, NUMETA '87, pp. 1-8.
- Hocking G., Williams J.R. and Kirby M. (1987). "A Discrete Element Analysis System for the Assessment of Materials Processing in Space", SPACEBOUND '87, NRC of Canada, Ottawa, Ontario, pp. 1-7.
- Mustoe G.G.W., Williams J.R., Hocking G. and Morgan K. (1987). "Penetration and Fracturing of Brittle Plates under Dynamic Impact". Int. Conf. on Numerical Methods in Engineering, NUMETA '87, pp. 1-9.

- Williams J.R., Hocking G. and Mustoe G.G.W. (1987). "Dynamic Contact Analysis of Biomechanical Systems for Occupant Trauma Assessment During Impact". Int. Conf. on Numerical Methods in Engineering, NUMETA '87, pp. 1-8.
- Hocking G. (1986). "Crash Simulation Using the Discrete Element Method". International Conference on Supercomputers in the Automobile Industry, Zurich, pp. 193-214.
- Hocking G. and Worgan K. (1986). "Thermal and Phase Stability Analysis of Constructed Ice Islands". IAHR Symposium '86, Iowa City, IA, pp. 579-590.
- Mustoe G.G.W., Williams J.R. and Hocking G. (1987). "The Discrete Element Method in Geotechnical Engineering". Chapter 7, Dynamic Behaviour of Foundations and Buried Structures, Banerjee P.D. and Butterfield R. (Eds.), Elsevier Applied Science Publishers, London, pp. 233-263.
- Williams J.R., Mustoe G.G.W. and Hocking G. (1986). "Discrete Element Analysis for Brain Impact Models" 14th Int. Conf. on Human Subjects for Biotechnical Research, San Diego, CA, pp. 1-7.
- Hocking G., Williams J.R. and Mustoe G.G.W. (1985). "Dynamic Global Forces on an Offshore Structure from Large Ice Floe Impacts". ARCTIC '85 Conference, ASCE, San Francisco, pp. 202-210.
- Hocking G., Mustoe G.G.W. and Williams J.R. (1985). "Influence of Artificial Island Side-Slopes on Ice Ride-Up and Pile-Up". ARCTIC '85 Conference, ASCE, San Francisco, pp. 185-192.
- Hocking G., Mustoe G.G.W. and Williams J.R. (1985). "Validation of the CICE code for Ice Ride-Up and Ice Ridge-Cone Interaction". ARCTIC '85 Conference, ASCE, San Francisco, pp. 962-970.
- Williams J.R., Hocking G. and Mustoe G.G.W. (1985). "The Theoretical Basis of the Discrete Element Method". NUMETA '85, Numerical Methods in Engineering, Theory and Application, A.A. Balkema, Rotterdam, pp. 897-906.
- Runchal A. and Hocking G. (1981). "An Equivalent Continuum Model for Fluid Flow, Heat and Mass Transport in Geological Materials". 20th ASME/AIChE National Heat Conference, Milwaukee, ASME 81-HT-54, pp. 1-7.
- Hocking G. Williams J.R., Boonlualohr P., Mathews I. and Mustoe G.G.W. (1981). "Numerical Modeling of the Near Surface Test Facility #1 and #2 Heater Tests". 22nd U.S. Symposium on Rock Mechanics, Boston, pp. 149-155..
- Boonlualohr P., Hocking G. and Williams J.R. (1980). "Transient Thermal Stress Analysis of an Anisotropic Fractured Rock Exhibiting Locking Behaviour". 1st International Conference Numerical Methods for Non-Linear Problems, Swansea, U.K., pp. 1087-1104.
- Hardy M.P. and Hocking G. (1980). "Rock Mechanics Design Criteria for Repository in Hard Rock". ASCE Annual Meeting, Portland, Oregon, pp. 1-27.
- Hardy M.P., St. John C.M. and Hocking G. (1979). "Numerical Modeling of the Geomechanical Response of a Rock Mass to a Radioactive Waste Repository". Proceedings 4th International Congress Rock Mechanics, Montreux, pp. 161-168,.

- Williams J.R. and Hocking G. (1979). "Coupled Thermal Mechanical Analysis of Salt Cavities". 20th U.S. Symposium on Rock Mechanics, Austin, pp. 415-422.
- Hocking G. and Williams J.R. (1979). "Geotechnical Risk Assessment of CAES Schemes". 20th U.S. Symposium on Rock Mechanics, Austin, pp. 439-448.
- Hocking G. (1978). "Stress Analysis of the 1100 Orebody at Mount Isa". 19th U.S. Symposium on Rock Mechanics, Lake Tahoe, pp. 378 - 384.
- Hocking G. (1978). "Analysis of Toppling-Sliding Mechanisms for Rock Slopes", 19th U.S. Symposium on Rock Mechanics, Lake Tahoe, pp. 288-295.
- Hocking G. (1978). "Stress Analysis of Underground Excavation Incorporating Slip and Separation Along Discontinuities". 1st Int'l Seminar on Recent Advances in Boundary Element Methods, University of Southampton, U.K., pp. 195-214.
- Hocking G. (1978). "Parametric Cyclic Thermal and Pressure Analysis of an Underground Opening in Crystalline Rock". CAES Symposium, Pacific Grove, CA, USDOE, CONF - 780599, pp. 609 - 633, (C).
- Hocking G. (1977). "Stresses Around Tunnel Intersections". Conference on Computer Methods in Tunnel Design, Inst. Civil Engineers, London, pp. 41-60, (C).
- Maini T. and Hocking G. (1977). "An Examination of the Feasibility of Hydrologic Isolation of a High Level Waste Repository in Crystalline Rock". GSA Annual Meeting, Seattle, pp. 1-61, (A).
- Hocking G., Brown E.T., and Watson J.O. (1976). "Three Dimensional Elastic Stress Analysis of Underground Openings by the Boundary Integral Equation Method". 3rd Symposium, Eng. App. Solid Mechanics, Toronto, pp. 203-217, (C).
- Barr M.V. and Hocking G. (1976). "Borehole Structural Logging Employing a Pneumatically Inflatable Impression Packer". Proceedings of Symposium on Exploration for Rock Eng., Johannesburg, Balkema, pp. 29-34, (C).
- Brown E.T. and Hocking G. (1976). "The Use of the Three Dimensional Boundary Integral Method for Determining Stresses at Tunnel Intersections". 2nd Australian Conference on Tunnelling, A.I.M.M., Melbourne, pp. 55-64, (C).
- Hocking G. (1976). "A Method for Distinguishing Between Single and Double Plane Sliding of Tetrahedral Wedges". Int. J. Rock Mech. Min. Sci. & Geomech. Abstr., Technical Note, Vol 13, pp. 225 - 226.
- Hocking G. (1976). "Three Dimensional Elastic Stress Distribution Around the Flat Ends of a Cylindrical Cavity". Int. Journal Rock Mech. Min. Sci. & Geomech. Abstr., Vol 13, pp 331-337.