

Supplementary Material

David Vernon Boger (1939–2019)

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AWARDS

1983	Annual Award of the British Society of Rheology
1985	Royal Society of Victoria Medal for Research
1985	Fellow, Australian Academy of Technological Sciences and Engineering
1991	Esso Award for Excellence in Chemical Engineering
1993	Fellow, Australian Academy of Science
1993	Pol Eureka Prize for Environmental Research
1994	Australian Society of Rheology Medallion
1995	Walter Ahlström Environmental Prize, the Finnish Academies of Technology
1995	Alcoa (USA) Environmental Excellence Award
1998	CSIRO External Medal
2000	Flinders Medal and Lecture, Australian Academy of Science
2000	Chemeca Medal
2000	Victoria Prize
2000	Anne and Eric Smorgon Memorial Award
2000	K. L. Sutherland Medal
2003	Clunies Ross National Science and Technology Award
2003	Centenary Medal of Australia
2004	Gold Medal, the British Society of Rheology
2005	The Prime Minister's Prize for Science
2006	Donald L. Katz Memorial Lectureship in Chemical Engineering, University of Michigan
2006	Distinguished Alumni Achievement Award, Kutztown Area School District
2007	Fellow, the Royal Society
2017	Fellow, US National Academy of Engineering
2024	Companion of the Order of Australia

DAVID V BOGER

Publications

This list was given to the Royal Society in 2006 by the subject. Publications after 2006 have been appended at the end from a list generated from the Scopus database.

PROFESSOR DAVID V BOGER - PUBLICATIONS TO 2006

a. Technical Journals and Conference Proceedings

1. "Effect of Buoyancy on the Melting and Freezing Process" (with J.W. Westwater), Transactions of ASME - Journal of Heat Transfer, **89**, 1 (1967).
2. "Normal Stress Measurement and Evaporation Effects on the Weissenberg Rheogoniometer" (with A.V. Rama Murthy), Trans. Society of Rheol., **13**, 405 (1969).
3. "Fundamentals of Conduction and Convection Heat Exchange as Applied to Heat Exchangers", Conference on Heat Exchange sponsored by the Australian Institute of Food Science and Technology, Melbourne (1969). Paper later republished by Taylor Instrument Companies of Australia as part of their Symposium Series.
4. "Experimental Measurements of Loss Coefficients in the Entrance Region of a Pipe for Viscous Power-law and Viscoelastic Fluids" (with A.V. Rama Murthy), A.I.Ch.E.J., **16**, 1088, (1970).
5. "Laminar Flow of Viscoelastic Fluids Through an Abrupt Contraction" (with A.V. Rama Murthy), Proceedings of CANCAM **71**, 628 (1971).
6. "Developing Velocity Profiles on the Downstream Side of a Contraction for Inelastic Polymer Solutions" (with A.V. Rama Murthy), Trans. Soc. Rheol., **15**, 709 (1972).
7. "Flow of Viscoelastic Fluids Through an Abrupt Contraction" (with A.V. Rama Murthy), Rheol. Acta, **11**, 61 (1972).
8. "Predicting Melt Flow Instability from a Criterion Based on the Behaviour of Polymer Solutions" (with H. Levern Williams), Poly. Engr. and Sci., **12**, 309 (1972).
9. "Generalised Method of Predicting Loss Coefficients in Entrance Region Flows for Inelastic Fluids" (with C. Tiu and A.L. Halmos), The Chem. Engr. J., **4**, 114 (1972).
10. "Rheological Properties of Molasses and Their Use in the Design of Flow Systems" (with S. Bhattacharya, A.L. Halmos and C. Tiu), Proceedings of the Queensland Soc. of Sugar Cane Technologists, **39**, 209 (1972).
11. "Rheological Properties of Food Products and Their Use in the Design of Flow Systems" (with C. Tiu), Food Tech. in Australia, **26**, 325 (1974).
12. "Complete Rheological Characterization of Time-Dependent Food Products" (with C. Tiu), J. of Text. Studies, **5**, 329 (1974).
13. "Rheology and its Importance in Food Processing" (with C. Tiu), Proceedings of the Second National Chemical Engineering Conference, Surfers Paradise, 449 (1974).
14. "Accelerating and Decelerating Flows of Viscoelastic Fluids" (with A.L. Halmos), Proceedings of the Fifth Australasian Conference on Hydraulics and Fluid Mechanics, 403 (1974).
15. "Drag and Flow Patterns for the Flow of Drag-Reducing Polymer Solutions about Spheres" (with P.H.T. Uhlherr and T.J. Anderson), Proceedings of the Fifth Australasian Conference on Hydraulics and Fluid Mechanics, 396 (1974).

16. "The Behaviour of Power-Law Fluids Flowing Through a Sudden Expansion: Part I. A Numerical Solution" (with A.L. Halmos), A.I.Ch.E. J., 21, 540 (1975).
17. "The Behaviour of Power-Law Fluids Flowing Through a Sudden Expansion: Part II. Experimental Verification" (with A.L. Halmos), A.I.Ch.E. J., 21, 550 (1975).
18. "Deceleration of Viscoelastic Fluids" (with A.L. Halmos), in K. Walters and J.R.A. Pearson, eds - Theoretical Rheology, Applied Science, London, pp. 31-39 (1975).
19. "Flow of Viscoelastic Fluids in Abrupt Circular and Annular Contractions" (with C. Tiu), Proceedings of the 25th Canadian Chemical Engineering Conference, Montreal, November (1975).
20. "Food Rheology as Related to Process Design and Evaluation", 47th ANZAAS Congress, Hobart (1976), Invited Paper.
21. "Flow of Viscoelastic Polymer Solutions Through an abrupt Expansion" (with A.L. Halmos), Trans. Soc. Rheol., 20, 253 (1976).
22. "Demonstration of Upper Newtonian and Lower Newtonian Behaviour in a Pseudoplastic Fluid", Nature, 265, 126 (1977).
- * 23. "A Highly Elastic Constant Viscosity Fluid", J. of Non-Newtonian Fluid Mechanics, 3, 77 (1977).
24. "Interpretation of Exit Pressure Measurements" (with R.R. Huilgol), Trans. Soc. Rheol., 21, 447 (1977).
25. "An Anomalous Effect on the Measurement of Normal Stresses in Polyacrylamide Solutions" (with P.J. Cable), Rheol. Acta, 16, 322 (1977).
26. "Separation of Shear Thinning and Elastic Effects in the Capillary Rheometer" (with R.J. Binnington), Trans. Soc. Rheol., 21, 515 (1977).
27. "Flow Instabilities in Viscoelastic Fluids" (with P.J. Cable), Proceedings of the 6th Australian Conference on Hydraulics and Fluid Mechanics, The Institution of Engineers, Australia, 305 (1977).
28. "Flow of Mineral Slurries" (with G. Sarmiento, C. Tiu and P.H.T. Uhlherr), Proceedings of the Annual Meeting of the Australian Institute of Mining and Metallurgy, Townsville, 291 (1978).
29. "A Model Viscoelastic Fluid" (with H. Nguyen), Polymer Engr. and Science, 18, 1037 (1978).
30. "The End Correction for Inelastic Power-Law Fluids" (with R. Gupta and R.I. Tanner), J. of Non-Newtonian Fluid Mechanics, 4, 239 (1978).
31. "A Comprehensive Experimental Investigation of Tubular Entry Flow of Viscoelastic Fluids - Part 1, Vortex Characteristics" (with P.J. Cable), A.I.Ch.E. J., 24, 869 (1978).
32. "A Comprehensive Experimental Investigation of Tubular Entry Flow of Viscoelastic Fluids - Part 2, The Velocity Field" (with P.J. Cable), A.I.Ch.E. J., 24, 992 (1978).
33. "A Comprehensive Experimental Investigation of Tubular Entry Flow of Viscoelastic Fluids - Part 3, Unstable Flow" (with P.J. Cable), A.I.Ch.E. J., 25, 152 (1979).

- *34. "The Kinematics and Stability of Die Entry Flows" (with H. Nguyen), Invited Contribution for Presentation at IUTAM Symposium on Non-Newtonian Fluid Mechanics, Belgium (1978). J. of Non-Newtonian Fluid Mechanics, 5, 353 (1979).
35. "The Influence of Elasticity on Creeping Sphere Motion" (with R.P. Chhabra and P.H.T. Uhlherr), The Proceedings of the First Australian Rheology Conference, Melbourne, 13, (1979).
36. "Flow Properties of Mineral Suspensions: Red Mud" (with G. Sarmiento and P.H.T. Uhlherr), The Proceedings of the Seventh Annual Chemical Engineering Conference (CHEMECA 79), Newcastle, 202 (1979).
37. "Red Mud Disposal - An Australian Rheological Problem" (with G. Sarmiento and P.H.T. Uhlherr), The Proceedings of the First Australian Rheology Conference, Melbourne, 93 (1979).
38. "The Influence of Elasticity on Die Entry Flows" (with H. Nguyen), The Proceedings of the First Australian Rheology Conference, Melbourne, 7 (1979).
39. "Measurement of Flow Properties of Slowly Settling Mineral Suspensions" (with G. Sarmiento, C. Tiu and P.H.T. Uhlherr), Ind. Eng. Chem. Process Des. Dev., 18, 746 (1979).
- *40. "The Influence of Fluid Elasticity on the Drag Coefficient For Creeping Flow Around a Sphere" (with R.P. Chhabra and P.H.T. Uhlherr), J. of Non-Newtonian Fluid Mechanics, 6, 187 (1980).
- *41. "Capillary and Slit Methods of Normal Stress Measurements" (with M.M. Denn), A Journal Review Paper, J. of Non-Newtonian Fluid Mechanics, 6, 163 (1980).
42. "Bridging the Gap in Fundamental Research - A Prejudiced Personal Example". An Invited Contribution for Chemical Engineering in Australia, Vol. Ch. E5, No. 2, 26 (1980).
43. "Isolation of Elastic Effects in Non-Newtonian Fluid Mechanics" (with R.J. Binnington), Proceedings of the 7th Australasian Hydraulics and Fluid Mechanics Conference, Brisbane, 91 (1980).
44. "Energy Requirements for the Transportation of Highly Concentrated Red Mud Suspensions to Waste Disposal" (with Q.D. Nguyen), Proceedings of Symposium on Rheology in the Conversion and Conservation of Energy, British Society of Rheology (Australian Branch), 55 (1980).
45. "Separation of Shear Thinning and Elastic Effects in Experimental Rheology", Text of Invited Lecture at the VIIIth International Rheology Congress, Rheology, Edited by G. Astarita, G. Marrucci and L. Nicolais, Vol. 1, pp.195-218, Plenum Publishing Corporation, N.Y. (1980).
46. "Rheology of Highly Concentrated Red Mud Suspensions" (with Q.D. Nguyen and P.H.T. Uhlherr), Proceedings of the 2nd Congress of Asian Pacific Confederation of Chemical Engineering (APPCHE), Manila, Philippines, 57 (1981).
47. "On the Measurement of Yield Stress of Concentrated Red Mud Suspensions" (with Q.D. Nguyen), Proceedings of the 2nd National Conference on Rheology, Sydney, 19 (1981).

48. "Die Swell: Empirical Techniques and Theoretical Predictions" (with R.J. Binnington), Proceedings of the 2nd National Conference on Rheology, Sydney, 19 (1981).
49. "The Influence of Polymer Molecular Properties in the Rheology of Molten Polymers", Appears in an Introduction to Polymer Materials Science, Royal Australian Chemical Institute - Polymer Division, pp.6-1 - 6-16, Melbourne (1981).
50. "Experimental Studies of Elastic Effects in Complex Flows", Lecture Series 1981-6, Von Karman Institute of Fluid Mechanics (Lecture Series Director - J.F. Wendt), B-1690, Rhode Saint Genese, Belgium (1981).
51. "Fundamentals of Pipe Flow Fluid Mechanics", APPITA Process Hydraulics Course, Frankston, Victoria (1981).
52. "Flow Problems Associated with Red Mud Disposal", Prepared for Short Course on Alumina Technology, sponsored by the Australian Aluminium Development Council and organised by the RACI, Process Chemistry Group, Sydney (1981).
53. "Circular Entry Flows of Inelastic and Viscoelastic Fluids", Invited Review Paper, Advances in Transport Processes, A.S. Mujumdar and R.A. Mashelker (Editors), Wiley Eastern Limited, New Delhi, 43-98 (1982).
54. "Non-Newtonian Flow, I - Characterization of Fluid Behaviour" (with A.L. Halmos), A.I.Ch.E. Modular Instruction Series C: Transport, Volume 2: Turbulence, R.J. Gordon (Editor), American Institute of Chemical Engineers, N.Y.: 1-8 (1982).
55. "Non-Newtonian Flow, II - Fully Developed Tube Flow" (with A.L. Halmos), A.I.Ch.E. Modular Instruction Series C: Transport, Volume 2: Momentum Transport, Viscoelasticity and Turbulence, R.J. Gordon (Editor), American Institute of Chemical Engineers, N.Y.: 8-16 (1982).
56. "Viscoelastic Fluid Flow Phenomena" (with R.I. Tanner), A.I.Ch.E. Modular Instruction Series C: Transport, Volume 2: Momentum Transport, Viscoelasticity and Turbulence, R.J. Gordon (Editor), American Institute of Chemical Engineers, N.Y.: 16-27 (1982).
57. "Point Velocity Measurement in Slow Flows Using Laser Speckle Photography" (with R.J. Binnington, G. Troup and R.G. Turner), Acta Della Fondazione Girogio Ronchi, XXVI, No. 5-6, 665 (1981).
58. "Pipeline Design for the Transport of High Density Bauxite Residue Slurries" (with F.M. Want, P.M. Colombero and Q.D. Nguyen), Hydrotransport 8, Proceedings of the 8th International Conference on the Hydraulic Transport of Solids in Pipes, Johannesburg, South Africa, Published by BHRA Fluid Engineering, Cranfield, England, 249 (1982).
59. "A Low Cost Laser-Speckle Photographic Technique for Velocity Measurement in Slow Flows" (with R.J. Binnington and G.J. Troup), J. of Non-Newtonian Fluid Mechanics, 12, 255 (1983).
60. "Ideal Elastic Fluids - Their Development and Use in Building a Fluid Mechanics for Viscoelastic Fluids", Plenary Paper, Proceedings of the Third National Conference on Rheology, Melbourne, 11 (1983).

61. "Effect of Gypsum on the Rheological Properties of Bauxite Residue" (with Q.D. Nguyen), Proceedings of the Third National Conference on Rheology, Melbourne, 59 (1983).
62. "A Constitutive Equation for Synovial Fluid" (with V. Tirtaatmadja and J.R.E. Fraser), Proceedings of the Third National Conference on Rheology, Melbourne, 47 (1983).
63. "Measurement of the Viscous and Elastic Flow Properties of Polymers in Mixed Volatile Solvent Systems" (with K.W. Lee), Proceedings of the Third National Conference on Rheology, Melbourne, 47 (1983).
- *64. "Yield Stress Measurement for Concentrated Suspensions" (with Q.D. Nguyen), J. of Rheology, 27, 321 (1983).
65. "Transporting Highly Concentrated Bauxite Residue to Disposal" (with Q.D. Nguyen), Proceedings of the Eleventh Australian Chemical Engineering Conference (CHEMECA 83), Brisbane, 455 (1983).
66. "Low Cost Laser-Speckle Photographic Technique for Velocity Measurement in Slow Flows" (with R.J. Binnington and G.J. Troup), Proceedings of the Third International Laser Conference, Melbourne, 13A-11 (1984).
67. "Dilute Polymer Solutions and Their Use to Model Polymer Processing Flows", Invited Contribution, Interrelations Between Processing, Structure and Properties of Polymeric Materials, Eds., J.C. Seferis and P.S. Theocaris, Elsevier, Amsterdam, 307-323 (1984).
68. "The Dynamic and Steady Shear Properties of Synovial Fluid and of the Components Making Synovial Fluid" (with V. Tirtaatmadja and J.R.E. Fraser), Rheol. Acta, 23, 311 (1984).
69. "Rheology - Fundamentals Put Into Practice in Australian Industry" (with Q.D. Nguyen), Proceedings of the 12th Australian Chemical Engineering Conference, (CHEMECA 84), Melbourne, 791 (1984).
70. "Exploiting the Rheology of Highly Concentrated Suspensions" (with Q.D. Nguyen), Text of Invited Lecture at the IX International Rheology Congress, Advances in Rheology, Eds., B. Mena, A. Garcia-Rejon and C. Rangel-Nagaile, Vol. 1, 153-175, Universidad Nacional Autonoma de Mexico (1984).
71. "Thixotropic Behaviour of Concentrated Bauxite Residue Suspensions" (with Q.D. Nguyen), Rheol. Acta, 24, 427 (1985).
72. "Direct Yield Stress Measurement with the Vane Method" (with Q.D. Nguyen), J. Rheol., 29, 335 (1985).
73. "Model Polymer Fluids Systems", Text of Invited Lecture for Polymer 85: IUPAC International Symposium on Characterization and Analysis of Polymers, Melbourne (1985), Pure and Applied Chem., 57, 921 (1985).
74. "Squeeze Film Flow of Ideal Elastic Liquids" (with N. Phan-Thien, J. Dudek and V. Tirtaatmadja), J. Non-Newtonian Fluid Mechanics, 18, 227 (1985).
75. "The Flow Characteristics of Australian Waxy Crude Oils" (with L.T. Wardhaugh and R.J. Binnington), Proceedings of the 13th Australian Chemical Engineering Conference (CHEMECA 85), Perth, 5 (1985).

76. "Constant Viscosity Elastic Liquids" (with R.J. Binnington), J. Rheol., 29, 887 (1986).
77. "Remarks on Non-Shear Thinning Elastic Fluids" (with R.J. Binnington), Polym. Engr. Sci., 26(2), 133 (1986).
78. "Steady Spinning of the Oldroyd Fluid B, II: Experimental Results" (with T. Sridhar, R.K. Gupta and R.J. Binnington), J. Non-Newtonian Fluid Mech., 21(1), 115 (1986).
79. "Further Observations of Elastic Effects in Tubular Entry Flows" (with D.U. Hur and R.J. Binnington), J. Non-Newtonian Fluid Mech., 20, 31 (1986).
80. "The Interaction of Numerical Simulation and Experimental Observation in Non-Newtonian Fluid Mechanics", Invited Review, Proceedings of the Fourth National Conference on Rheology, Adelaide, 3 (1986).
81. "The Measurement of Time-Dependent Flow Properties of Waxy Crude Oil" (with L.T. Wardhaugh), Proceedings of the Fourth National Conference on Rheology, Adelaide, 237 (1986).
82. "Victorian Brown Coal Rheology: Comparative Studies and Surface Property Relationships" (with Y.K. Leong and D.E. Creasy), Proceedings of the Fourth National Conference on Rheology, Adelaide, 141 (1986).
83. "Non-Linear Effects in the Flow of Semi-Dilute Glass Fibre Suspensions" (with D.U. Hur), Proceedings of the Fourth National Conference on Rheology, Adelaide, 131 (1986).
84. "The Rheological Behaviour of Flocculated Suspensions" (with N.De Guingand and Q.D. Nguyen), Proceedings of the Fourth National Conference on Rheology, Adelaide, 113 (1986).
85. "Flow Property Measurement of Australian Waxy Crude Oils" (with L.T. Wardhaugh), Proceedings of the 14th Australasian Chemical Engineering Conference (CHEMECA 86), Adelaide, 48 (1986).
- *86. "Viscoelastic Flows Through Contractions", An Invited Review, Annual Review in Fluid Mech., 19, 157-182 (1987).
87. "An Explanation of the Rheological Properties of Boger Fluids" (with M.E. Mackay), J. Non-Newtonian Fluid Mech., 22, 235 (1987).
88. "Ideal Elastic Liquids and Their Importance in Non-Newtonian Fluid Mechanics", Text of Plenary Paper, Proceedings of 9th Australasian Fluid Mechanics Conference, Auckland, 13 (1986).
89. "Measurements of the Unique Flow Properties of Waxy Crude Oils" (with L.T. Wardhaugh), Chem. Eng. Res. Des., 65, 74-83 (1987).
90. "Victorian Brown Coal-Water Suspensions as Liquid Fuels" (with Y.K. Leong, D.E. Mainwaring and G.B. Christie), The Institution of Chemical Engineers Symposium Series No. 107, 1-13 (1987).
91. "Rheology of Brown Coal-Water Suspensions" (with Y.K. Leong, D.E. Creasy and Q.D. Nguyen), Rheol. Acta, 26, 291-300 (1987).

92. "The Importance of Solvent Composition and Adsorption Effects on the Flow Properties of Polybutadiene Solutions' (with K.W. Lee), Chem. Eng. Communications, 53, 97-115 (1987).
93. "The Practical Importance of the Elongational Viscosity" (with M.E. Mackay), Proceedings of the 15th Australasian Chemical Engineering Conference (CHEMECA 87), 2, 68.1 - 68.4 (1987).
94. "Rheological Characterization Using a Mixing Bowl-Coaxial Cylinder Viscometer" (with M.J. Renahan, R.J. Snow and Y.K. Leong), Proceedings of the 15th Australasian Chemical Engineering Conference (CHEMECA 87), 2, 69.1 - 69.9 (1987).
95. "Flow Improvers for Waxy Crude Oils" (with S.P. Tonner and L.T. Wardhaugh), Proceedings of the 15th Australasian Chemical Engineering Conference (CHEMECA 87), 2, 70.1 - 70.8 (1987).
96. "Impact of Material Properties on Flow Behaviour and Energy Consumption in Coal Slurry Pipelines" (with Y.K. Leong, G.B. Christie and D.E. Mainwaring), Proceedings of 15th Australasian Chemical Engineering conference (CHEMECA 87), 2, 64.1 - 74.10 (1987).
97. "Flow Behaviour of High Solids Brown Coal-Water Suspensions as Liquid Fuels" (with Y.K. Leong, G.B. Christie and D.E. Mainwaring), Coal Power '87 - Proceedings of the AusIMM Annual Conference, 1-8, (1987).
98. "Testing and Assessing the Flow Properties of Waxy Oil" (with S.P. Tonner and L.T. Wardhaugh) Oil and Gas Australia, 10-13, November (1987).
- *99. "The Flow of Fibre Suspensions in Complex Geometries" (with D.U. Hur, G.G. Lipscomb and M.M. Denn), J. of Non-Newtonian Fluid Mech., 26, 297-325 (1988).
100. "Entry Flow of Semi-Rigid Rod Solutions" (with R.J. Binnington), J. of Non-Newtonian Fluid Mech., 26, 115-123 (1987).
101. "The Rheology of Concentrated Bauxite Residue" (with Q.D. Nguyen), Invited Plenary Paper, Bauxite Tailings, Edited by A.S. Wagh and P. Desai - (Proceedings of an International Conference), The Jamaica Bauxite Institute and the University of the West Indies, 53-67, Kingston (1987).
102. "The Flow Properties of Ideal Elastic Liquids Including Concentration Effects" (with M.E. Mackay), Paper Number 63F, 1986 Annual AIChE Meeting, Miami Beach, Florida, USA (1986).
103. "Characterization of Yield Stress Fluids with Concentric Cylinder Viscometers" (with Q.D. Nguyen), Rheological Acta, 26, 508-515 (1987).
104. "Pressure Drop in Pipe Contractions - Experimental Measurement or Finite Element Simulation" (with M.E. Mackay and Y.L. Yeow), Chem. Eng. Res. and Des., 66, 22-25 (1988).
105. "Improving Sweep Efficiency in Enhanced Oil Recovery" (with E. Allen), Proceedings of the 16th Australasian Chemical Engineering Conference (CHEMECA 88), 1035-1042, Sydney (1988).

106. "The Role of Ideal Elastic Liquids in Non-Newtonian Fluid Mechanics" (with R.J. Binnington), Proceedings of the 16th Australasian Chemical Engineering Conference (CHEMECA 88), 1105-1110, Sydney (1988).
107. "Design Procedures for Australian Waxy Crude Oil Pipelines" (with L.T. Wardhaugh) Proceedings of the 16th Australasian Chemical Engineering Conference (CHEMECA 88), 167-172, Sydney (1988).
108. "Rheology of Waxy Crude Oil - Consequences for Pipeline Design and Operation" (with L.T. Wardhaugh and S.P. Tonner), Proceedings of Xth International Congress on Rheology, 360-362, Sydney (1988).
109. "Turbulent Pipe Flow of Yield Stress Fluids" (with R.P. Mun), Proceedings of Xth International Congress on Rheology, 145-147, Sydney (1988).
110. "Importance of Surface Chemistry in Concentrated Suspension Rheology" (with Y.K. Leong), Proceedings of Xth International Congress on Rheology, 85-87, Sydney (1988).
111. "Mass Transfer in Non-Newtonian Fluids" (with S.R. Wickramasinghe, H.R.C. Pratt and G.W. Stevens), Proceedings of Xth International Congress on Rheology, 369-371, Sydney (1988).
112. "Flow Visualization in Rheometry" (with M.E. Mackay), Chapter 14 in Rheological Measurement, Edited by A.A. Collyer and D.W. Clegg, Elsevier Applied Science, 433-477, London (1988).
113. "The Influence of Rheological Properties on Viscous Fingering in Enhanced Oil Recovery (with E. Allen), Proceedings of Xth International Congress on Rheology, 146-148, Sydney (1988).
114. "Non-Newtonian Flow Properties and Viscous Fingering Phenomenon with Application to Polymer Augmented Water Flooding" (with E. Allen), IEA Collaborative Project on Enhanced Oil Recovery, Proceedings of 9th Annual Workshop on EOR, Paper 20, Fredensborg, Denmark (1988).
115. "Rheology of Waxy Crude Oils" (with L.T. Wardhaugh and S.P. Tonner), SPE Paper 17625, International Meeting on Petroleum Engineering, 803-807, Tianjin, China (1988).
116. "The Influence of Rheological Properties on Mobility Control in Polymer - Augmented Waterflooding" (with E. Allen), SPE Paper 18097, 63rd Annual Technical Conference and Exhibition of the Society of Petroleum Engineering, 449-456, Houston, Texas (1988).
117. "Pipeline Transportation of Mineral Suspensions", (with Q.D. Nguyen), Proceedings Second Large Open Pit Mining Conference, AusIMM, 73-81, Latrobe Valley (1989).
118. "An Introduction to Rheology", Book Review, J. Non-Newtonian Fluid Mech., 32, 331-333 (1989).
119. "Unstable Gas Displacement in Enhanced Oil Recovery" (with E. Allen), Proceedings PESA/SPE/ASEG Conference - The Cooper and Eromanga Basins, 106-112, Adelaide (1989).

120. "Laminar Circular Entry Flows of Viscoelastic Fluids" (with R.J. Binnington), Proceedings of Tenth Australasian Fluid Mechanics Conference, 6.25-6.28, Melbourne (1989).
121. "Surface Chemistry Effects on Concentrated Suspension Rheology" (with Y.K. Leong), J. Colloid and Interface Sci., 136(1), 249-258 (1990).
- *122. "Circular Entry Flows of Fluid M1" (with R.J. Binnington), J. Non-Newtonian Fluid Mech., 35, 339-360 (1990).
123. "A Numerical Solution for the Flow of Dilute Fibre Suspensions through an Axisymmetric Contraction" (with K.Chiba and K. Nakamura), J. Non-Newtonian Fluid Mech., 35, 1-14 (1990).
124. "Surface and Rheological Properties of Zirconia Suspensions" (with Y.K. Leong and D. Parris), Proceedings of the 18th Australasian Chemical Engineering Conference (CHEMECA 90), Auckland, 438-445 (1990).
125. "Diffusion in Dilute Polymeric Solutions" (with J.E. Wright and G.W. Stevens), Proceedings of the Fifth National Conference on Rheology, Melbourne. 131-135 (1990).
126. "Effects of Polycarboxylate on the Rheological Properties of Y-ZrO₂ and ZrO₂ Suspensions" (with Y.K. Leong), Proceedings of the Fifth National Conference on Rheology, Melbourne, 71-74 (1990).
127. "Exploiting the Surface Chemistry of Coal-Water Suspension Fuels" (with R.P. Mun), Proceedings of the Fifth National Conference on Rheology, Melbourne, 85-88 (1990).
128. "Viscous Fingering of Non-Newtonian Fluids in Porous Media" (with E. Allen), Proceedings of the 3rd European Rheology Conference, Ed. D.R. Oliver, Elsevier Applied Science, Barking, U.K., 537-539 (1990).
129. "The Rheology of Waxy Crude Oils" (with L.T. Wardhaugh), Proceedings of the 3rd European Rheology Conference, Ed. D.R. Oliver, Elsevier Applied Science, Barking, U.K., 501-503 (1990).
130. "Preparation and Combustion of Coal Water Mixtures", (with R.P. Mun), Proceedings of First Australian Flame Days Conference, Brisbane, 6-7 December (1990).
131. "Fundamentals of Fluid Mechanics" (with L. Yeow), Ullmann's Encyclopedia of Industrial Chemistry, Vol. B1 Fluid Mechanics, V.C.H. Publishers, Weinheim, Germany, 5.1-5.50, (1990)
132. "Diffusion in Elastic Fluids" (with S.R. Wickramasinghe, H.R.C. Pratt and G.W. Stevens), Chem. Eng. Sci., Vol. 46, No. 2, 641-650 (1991).
133. "Surface Chemistry and Rheological Properties of Zirconia Suspensions" (with Y.K. Leong and D. Parris), J.Rheol., 35(1), 149-165 (1991).
134. "Effect of Polycarboxylate on the pH and Magnitude of Maximum Yield Stress of m-ZrO₂ Suspensions" (with Y.K. Leong), Ceramic Transactions, Vol.19, Advanced Composite Materials, 83-90 (1991).

135. "The Impact of Ideal Elastic Liquids in the Development of Non-Newtonian Fluid Mechanics" (with Y.L. Yeow), Invited Plenary Paper at 2nd World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics, Experimental Heat Transfer, Fluid Mechanics and Thermodynamics, Eds. J.F. Keffer, R.K. Shah and E.N. Ganic, Elsevier, Amsterdam, 27-35 (1991).
136. "Wet Processing of Ceramic Grade Zirconia Suspensions" (with Y.K. Leong and T.W. Healy), Proceedings of the Nineteenth Australasian Chemical Engineering Conference (CHEMECA 91), Newcastle, 240-246 (1991).
- *137. "Flow Characteristics of Waxy Crude Oils: Application to Pipeline Design" (with L.T. Wardhaugh), A.I.Ch.E. Journal, Vol.37, No.6, 871-885 (1991).
138. "The Measurement and Description of the Yielding Behaviour of Waxy Crude Oil" (with L.T. Wardhaugh), J. Rheol., **35**(6), 1121-1156, (1991).
139. "Flow of Dilute Fiber Suspensions Through a Contraction" (with K. Chiba, T. Yamamoto, K. Nakamura), Proceedings of the China-Japan International Conference on Rheology, Eds. L. Yuan and H. Odani, Peking University Press, 128-131 (1991).
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Motion picture films and videotapes have been produced which illustrate some new and important flow phenomena. These have been shown on numerous occasions in Australia, Canada, Britain, Belgium, Italy, Norway and the USA and copies are now held in other laboratories throughout the world. Copies of most of the films are now available on videotape.

1. "Flow of Inelastic and Viscoelastic Fluids Through Abrupt Circular Contractions", 11 minutes with Titles (with P.J. Cable) 1974.
2. "Flow Patterns in Abrupt Entry Flow of Viscoelastic Fluids". 13 minutes with Titles (with A.L. Halmos and R.J. Binnington) 1977.
3. "Instabilities in Suddenly Decelerating Viscoelastic Fluids", 13 minutes with Titles (with A.L. Halmos and R.J. Binnington) 1977.
4. "Die Entry Flows of Ideal Elastic Fluids", 20 minutes with Titles (with H. Nguyen) 1978.
5. "Isolation of Shear-Thinning, Inertial and Elastic Effects in Tubular Entry Flows", 22 minutes with Titles (with R.J. Binnington) 1980.
6. "Entry Flow of Boger Fluids", 15 minutes with Titles (with R.J. Binnington) 1986.
7. "Entry Flow of Model Viscoelastic Fluids", 10 minute videotape with Titles (with H. Nguyen) 1995.
8. "Miscible displacement in a radial Hele-Shaw cell", 10 minute videotape with titles (with E.M. Weisser) 1996.
9. "Swirling flow of viscoelastic fluids", 15 minute videotape with titles (with J.R. Stokes, L.J.W. Graham and B.M. Dunstan) 1999.

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