

T. Sheppard - Chronological List of Publications

1. Continuum Mechanics Applied to the Roller Straightening Process - M.Sc. Thesis, University of Wales, 1966.
2. A Mathematical Analysis of the Roller Straightening Process, J.I.M., 1967 95, 225-231
3. Stainless Clad Mild Steels (with M.G. Brooks), Metallurgia, 1967, 60 145-151
4. Parameters Affecting the Descaling Process (with W.M. Steen), Proc. Inst. Conf. Automation in Rolling Mills, Tatranska Lomnice, Czechoslovakia, 1969, pp.102-123
5. Descaling - An Experimental Survey (with W.M. Steen), J.I.S.I., 1970, 208, 797-805
6. Stress-Strain Relationships for Strip Shape Correction Processes (with J.M. Roberts), J.I.M. 1971, 99 223-228
7. On the Mechanics of the Tension Levelling Process (with J.M. Roberts) J.I.M., 1971, 99, 293-301
8. On the Strip to Roll Conformity in the Tension Levelling Process (with J.M. Roberts) J.I.M., 1972, 100, 130-135
9. The Extrusion of Atomized Aluminium Powders (with P.J.M. Chare), Powder Metallurgy, 1972, 15, 17-41
10. Shape Correction of Strip (with J.M. Roberts), Int.Met.Review, 1973, 18, 1-18
11. Axi-Symmetric Extrusion - The Effect of Temperature Rise and Strain Rate on the Activation Enthalpy and Material Constants of some Aluminium Alloys and their Relation to Recrystallisation, Sub-structure and Subsequent Mechanical Properties (with D. Raybould), J.I.M., 1973, 101, 33-44
12. Plastic Flow in Thermally Activated Mechanical Working Processes (with D. Raybould, J.I.M., 1973, 101, 45-52
13. On Load and Temperature Rise During the Extrusion of Super Pure Al, Al-Zn and Al-Zn-Mg Alloys (with D. Raybould), J.I.M., 1973, 101, 33-44
14. A New Approach to the Construction of Extrusion Limit Diagrams giving Structural Information and Their Application to Super-Pure Al and Al-Zn-Mg Alloys (with D. Raybould) J.I.M., 1973, 101, 73-78
15. On Powder Extrusion as a Primary Fabricating Process for Al-Fe Alloys (with P.J.M. Chare), Powder Met., 1973, 16, 437-458
16. The Production of High Temperature Materials by Powder Extrusion, Proc. Int. Conf. on Forming of High Temperature Materials, Ostrava, 1973, publ. Dum Techniky CSVTS Ostrava, pp.162-199
17. The Densification and Properties of Extruded Al-Zn-Mg Atomized Powder (with P.J.M. Chare) Int.Journal Powder Met. and Powder Techn., 1974, 10, (3) 203-215
18. The Production of Extruded Material from Metal Powders, Proc. 15th MTDR, Birmingham, 1974, 659-667, McMillan, London
19. The Production of Nickel-Rich Alloys by Powder Extrusion, Int.J. Powder Techn., 1974, 3, 254-271
20. On Thermal Activation During Extrusion of Metal Powders (with P.J.M. Chare), Powder Met., 1975, 18, 64 1-14

21. Evaluation of Shape Factors for Aluminium Extrusion (with E.P. Wood), Proc. 6th Int. Leichtmetalltagung Leoben, 1975, p.148 Aluminium Verlag Dusseldorf. Aluminium 1975, 51,(12), 760-765
22. Pressure Required to Initiate Extrusion in Some Al-Alloys (with A.F. Castle), Metals Technology, 1976, 2, 465-475
23. Hot Working Theory Applied to the Extrusion of Some Aluminium Alloys (with A.F. Castle), Metals Technology, 1976, 1, 454-464
24. The Densification and Properties of Pre-Alloyed Atomized and Extruded Bronze Powders of High Phosphorous Content (with A. Greasley). Proc. 2nd Int. Conf. on Particulate Matter, Brighton, 1975, pp.1-17
25. Observation on the Application of Limit Diagrams to Aluminium Alloy Extrusion (with A.F. Castle), Proc. 16th MTDR Manchester, 1975. McMillan & Co., London, pp.535-543
26. Development of Product Structure at the Commencement of Extrusion (with A.F. Castle), Metals Technology, 1976, 2, 433-436
27. The Influence of Pass Scheduling on Plastic Anisotropy and Hardening (with J. Toth), Proc. 8th Conf. on Materials Testing, Balatonszeplak, Hungary, 1975, publ. Vaskut Budapest, pp.30-45
28. On Direct Cold Extrusion of Clad Materials Using a Disc Technique (with C. Holloway and M.B. Bassett), Metals Technology, 1976, 2, 510-515
29. Shape in Metal Strip : The State of the Art, Institute of Metals Spring Meeting, 1976, publ. Metals Society, London, pp.11-18
30. On Load Pressure Requirements During the Cold Extrusion of Composite Materials (with C. Holloway and M.B. Bassett), Proc. 17th MTDR, Birmingham, 1976, McMillan & Co., London, pp.389-399
31. Structural Limit Diagrams and the Flow Stress Distribution During the Axi-Symmetric Extrusion of Aluminium Alloys (with D. Raybould), Proc. 4th Int. Conf. Strength of Metals and Alloys, Nancy 1976, p.664, publ. I.N.P.L., Nancy, France, pp.664-668
32. Observations on the Mode of Deformation During Aluminium Slab Rolling (with D.S. Wright), Proc. 17th MTDR Birmingham, 1976, p.539, publ. McMillan & Co., London, pp.539-547
33. On the Pressure Required for Extrusion of Shaped Aluminium Sections (with E.P. Wood), Proc. 17th MTDR Birmingham, 1976, publ. McMillan & Co., London, pp.411-421
34. Production of an Aluminium-Rich Magnesium Silicide Alloy from Atomized Powder (with H.B.McShane), Powder Met., 1976, 3, 126-133
35. On the Densification of Some Atomized Metal Powders, Ph.D. Thesis, University of London (Imperial College), 1976
36. Analysis of Pressure Requirements for Powder Compact Extrusions (with H.B.McShane), Powder Met., 1976, 19 (3), 121-125
37. The Effect of Pass Scheduling on Deep Drawability (with J. Toth), J. Mech. Work. Techn. 1977, 1, 82-92
38. Densification and Pressure Requirements During the Extrusion of Air Atomized Tin Bronze Powders (with A. Greasley), Powder Met., 1977, 20, 26-35
39. On Temperature Rise During the Extrusion of Composite Materials (with

- C. Holloway and M.B. Bassett), J.Mech. Work.Tech. 1978, 1, 343-359
- 40 T.Sheppard. Institute of Metals Rolling Symposium ? Reversing Breakdown and Plate Schedules. Chairman/Keynote Feb 1978, publ. Metals Society, London,
 - 41 T.Sheppard. Institute of Metals Rolling Symposium (Held at Mech.Eng.) ?? Continuous Strip Rolling. Chairman/Keynote March 1978, publ. Metals Society, London.
 - 42 T.Sheppard. Institute of Metals Rolling Symposium ??? (Held at Mech.Eng.) Coiling, Shape and Tension Problems. Chairman/Keynote April 1978, publ. Metals Society, London.
 - 43 T.Sheppard. Institute of Metals Rolling Symposium ?V (Held at Mech.Eng.) Cold Rolling and Shape Correction. Chairman/Keynote May 1978, publ. Metals Society, London. .
 44. On the Extrusion and Properties of Some Atomized Bronze Powders (with A. Greasley), J. Powder and Bulk Solid Tech., 1977, 1, 55-63
 45. The Application of Limit Diagrams to Extrusion Process Control, Proc. 2nd Int. Conf. Extr.Techn., Atlanta, Georgia, 1978, p.331-337 Alum. Assoc., Washington DC.
 46. The Production of Fibre Reinforced Aluminium by a Powder Extrusion Technique (with H.B. McShane), Proc. 18th Int. MTDR, Imperial College, London, 1977, publ. McMillan, London, pp.241-250
 47. Analysis of the Specific Pressure Necessary to Extrude Aluminium Alloy Compacts (with H.B. McShane and M. Tutchter), Powder Met., 1978, 21, pp.47-51
 48. The Structure and Properties of Some Tin Bronzes Produced by Extrusion of Atomized Powders (with A. Greasley), Powder Met., 1978, 21, pp.155-162
 49. The Development of Recovered Dislocation Sub-structures During Plastic Flow in the Extrusion Process (with H.M. Flower and M. Tutchter), publ. Mat.Sci.J. 1979, 6, 473
 50. An Analysis of Failures During Extrusion of Bi-Metallic Billets (with C. Holloway and M.B. Bassett), Proc. 3rd ICPE, Japan, 1979
 51. Determination of the Constitutive Equation for Aluminium Alloys at Elevated Temperatures (with D.S. Wright), Mat.Technology, 1979, 6, pp.215-223
 52. On Radial and Axial Temperature Changes During Torsion Testing (with D.S. Wright), Materials Technology, 1979, 6, pp.224-229
 53. T.Sheppard Institute of Metals Extrusion Symposium Aluminium Alloys (Held at Mech.Eng.) Chairman/Keynote Feb 1979, publ. Metals Society, London. .

54. Shape Correction in Metal Strip (Sheet Metal Industries), 1979, 56 pp.1149-1154
55. The Effect of Section Geometry on the Extrudability of an Al-Cu-Mn Alloy (with E.P. Wood), Metals Technology, 1980, 7, pp.58-66
56. T.Sheppard and D.S.Wright Structural and Temperature Variations During the Rolling of Al-Mg Slabs Metals Technology, 1980, 7, pp.274-281
57. On the Relationship of Structure and Processing Variables During and Subsequent to Mechanical Deformation. Published keynote address to ASME annual meeting - Las Vegas, 1980. TMS Paper Selection A80-35 1980
58. The Strength of Cold Pressed Aluminium Compacts (with H.B.McShane), Powder Metallurgy, 1980, 23, pp.120-125
59. Parameters Affecting Lateral Deformation in Slabbing Mills (with D.S. Wright), Metals Technology, 1981, 8, pp.46-59
60. On the Development of a Duplex Deformation Substructure During Extrusion of a Commercial Al-Mg-Mn Alloy (with M.G. Tutcher), Mat.Sci.J., 1980, 7, pp.579-589
61. On the Extrusion Limits of an Al-0.5%Mg-0.8%Mn Alloy (with M.G. Tutcher), Metals Technology, 1980, 7, pp.488-493
62. The Modern Extrusion Process : Temperature and Speed Effects, Metals Society Symposium, Birmingham, June 1980
63. On the Development of Edge Profile During the Initial Passes of Aluminium Slab Rolling (with D.S. Wright), Metals Technology, 1981, 8, pp.180-189
64. The Effect of Process Parameters on the Structure and Some Properties of an Al-5%Mg-0.8%Mn Alloy, (with M.G. Tutcher), Metals Technology, 1981, 8, pp.319-327
65. Temperature and Speed Effects During the Extrusion of Aluminium Alloys, Metals Technology, 1981, 8, pp.130-141
66. T.Sheppard and M.A.Zaidi. Development of Microstructure Throughout the Roll Gap During the Rolling of Aluminium Alloys Metals Science, 1982, 16, pp.229-238
67. The Influence of Hot Working Parameters on the Earing Behaviour of Al-2%Mg Sheet (with M.A. Zaidi), Metals Technology, 1982, 9, pp.368-374
68. Deformation During Multi-Pass Rolling of Commercial Purity Aluminium, (with M.A. Zaidi), Metals Technology, 1982, 9, 52-59
69. Recrystallisation Mechanisms in Commercial Al-2%Mg Alloy (with M.A. Zaidi) Metal Science, 1983, 17, pp.219-228
70. Direct and Indirect Extrusion of a High Strength Aerospace Alloy (AA 7075) (with P.J. Tunnicliffe and S.J. Paterson), J. Mech.Work.Tech., 1982, 6, pp.313-331
71. Direct and Indirect Extrusion of Aluminium Alloys (with S.J. Paterson), Metals Technology, 1982, 9, pp.274-281
72. Dynamic Recrystallisation in an Aluminium-7% Magnesium Alloy (with N.C. Parson and M.A. Zaidi), Metal Science, 1983, 17, 481-490
73. Some Observations on Metal Flow and the Development of Structure during Direct and Indirect Extrusion of Commercial Purity Aluminium (with

- S.J. Paterson). *J.Mech.Work.Tech.* 1982, 4, 39-56
74. Structural Changes Occurring During Thermal Treatments in the Extrusion of an Al-Cu-Mn-Si Alloy (with S.J. Paterson), *Metals Technology*, 1982, 9, 389-398
 75. Production of High Strength Aluminium Alloys by the Extrusion of Atomized Powders (with G.H. Tan and M.A. Zaidi), *Powder Met.*, 1983, 26, 1, pp.10-16
 76. Metallurgical Principles and the Control of Properties During the Extrusion Process. *Proc. Int. Symposium Extrusion*, Garmisch Partenkirchen, 1982, publ. DGM and Metals Society
 77. The Extrusion of Atomized Aluminium Alloy Compacts and Composites (with H.B. McShane, G.H.Tan and M.A. Zaidi). Presented at Powder Met. Silver Jubilee Conference, Eastbourne, 1982. Published *J.Mech.Work.Tech.*, 1983, 8, 43-70
 78. The Effect of Extrusion Process Parameters on the Microstructure and Properties of an Al-Li-Mg Alloy (with N.C. Parson), *Proc. 2nd Int.Conf. Al-Li Alloys*, Monterey, Cal. in *Aluminium-Lithium Alloys II*, pp.53-64, publ. AIME, Pa., U.S.A., 1983.
 79. Microstructural Aspects of the Extrusion of Rapidly Solidified Al-10Mg Powder (with G.H. Tan and M.A. Zaidi), *Metal Sci.*, 1983, 17, pp.563-572
 80. Extrusion and Properties of an Al-10Mg Alloy Prepared from Rapidly Solidified Powder (with G.H. Tan and M.A. Zaidi), *Powder Met.* 1984, 27,1, pp.3-8
 81. On the Elevated Temperature Constitutive Relationship and Structure of an Austenitic Stainless Steel (with H.B. McShane), *J.Mech.Work.Tech.*, 1984, 9, pp.147-160
 82. Production Structure and Properties of an Al-Fe-Ni-Co Alloy Prepared from Atomized Powder (with H.B.McShane), *Powder Met.*, 1984, 27, pp.101-106
 83. Mechanics of Fracture in Hot Rolled Al-7Mg Alloy Prepared from Rapidly Solidified Powder (with M.A. Zaidi), *Met.Sci.*, 1984, 18, 236-240
 84. Effect of High-Temperature Soak and Cooling Rate on Recrystallisation Behaviour of Two Al-Mg Alloys (AA 5252 and AA 5454) [with M.A. Zaidi], *Metals Technology*, 1984, 11, pp.313-319
 85. Microstructure and Properties of Some Extruded Copper-Phosphorus Alloys (with H.L. Yiu), *Metal Science*, 1984, 18, pp.439-447
 86. Structural Aspects of Rapidly Solidified Al-Cr-Fe-Ni Alloy (with G.J. Marshall), *Metal Science*, 1984, 18, pp.561-569
 87. Microstructural Features of Extrudates Prepared from Rapidly Solidified Al-Fe-Ni-Co Powder (with M.A. Zaidi), *Powder Metallurgy*, 1984, 27, pp.221-224
 88. Extrusion of Two-Phase Cu-P Alloys at Elevated Temperatures (with H.L. Yiu), *Materials Science and Technology*, 1985, 1, pp.45-52
 89. Metallurgical Aspects of Direct and Indirect Extrusion. *Proc. 3rd Int. Al Extr. Sem.* 1984, vol.1, pp.107-124, publ. Aluminium Association, Washington, D.C., 1984.
 90. Deformation of Cu-P Alloys at High Temperatures (with H.L. Yiu),

- Materials Science and Technology, 1985, 1, pp.209-219
91. Effect of Preheat Modification on Extrusion Characteristics of Aluminium Alloy 2014 (with R.P. Vierod), Materials Science and Technology, 1985, 1, pp.321-324
 92. Flow-Stress Mapping from Extrapolated Laboratory Data (with A. Greasley), J. of Mech. Working Technology, 1985, 11, pp.201-214
 93. Control of Earing Quality in AA 5052 and AA 5454 Aluminium Alloys (with M.A. Zaidi), Materials Science and Technology, 1985, 1, pp.593-599
 94. Extrusion of Al-5Fe-7Mn Alloy Prepared from Rapidly Solidified Powder (with M.A. Zaidi and J.S. Robinson), Materials Science and Technology, 1985, 1, pp.737-742
 95. Production of Engineering Materials from Rapidly Solidified AA 7050 Al-Zn-Mg-Cu Powders (with R.D. Parkinson), Powder Metallurgy, 1985, 28, pp.189-197
 96. On the Development of Structure During the Extrusion Process (with S.J. Paterson, M.G. Tutcher), Proc. Symposium at Annual Meeting of TMS, N.Y., 1985, in 'Microstructure in Aluminium Alloys' publ. AIME, Pa., U.S.A., 1986., pp.123-154
 97. Dynamic Recrystallisation in Aluminium Alloys (with M.A. Zaidi, M.G. Tutcher, N.C. Parson), Proc. Symposium at Annual Meeting of TMS, N.Y., 1985, publ. in 'Microstructural Development in Aluminium Alloys', AIME, Pa., U.S.A., 1986., pp.155-178
 98. Structural Evolution During the Rolling of Aluminium Alloys (with M.A. Zaidi, P.A. Hollinshead, N. Raghunathan), Proc. Symposium at Annual Meeting of TMS, publ. in 'Microstructural in Aluminium Alloys', N.Y., 1985, publ. AIME, Pa., U.S.A., 1986.
 99. Process/Structure/Property Relationships in Al-5Fe-7Mn Alloy Extrusions Prepared from Rapidly Solidified Powders. (with M.A. Zaidi) pp.367-387 in 'High Strength Powder Metallurgy Alloys', publ. AIME, Warrington, Pa.
 100. Effect of Preheat Time-Temperature Cycles on Development of Microstructure and Properties of Extrusions Prepared from Al-Fe-Mn Rapidly Solidified Powders (with M.A. Zaidi), Materials Science and Technology, 1986, 2, pp.69-77.
 101. Extrusion Behaviour and Mechanical Properties of Three Rapidly Solidified Al-Mg-Transition Element Powder Alloys (with G.J. Marshall and E.K. Ioannidis), Powder Metallurgy, 1986, 29, 1, pp.57-64
 102. Aluminium Technology '86. T. Sheppard, Editor, publ. 1986, Institute of Metals, London.
 103. Development of Subgrain Morphology and Texture in Multi-Pass Rolling of Aluminium (with P.A. Hollinshead), in 'Aluminium Technology '86' (ed. T. Sheppard, March 1986, publ. 1986, Institute of Metals, London., pp.317-327
 104. Hot Worked and Annealed Microstructures in Al-Mg Alloys (with N. Raghunathan), in 'Aluminium Technology '86', publ. 1986, Institute of Metals, London., pp.357-372
 105. Surface Generation and Origin of Defects During Extrusion of Al-Alloys (with M.P. Clode), in 'Aluminium Technology '86', publ. 1986, Institute of

- Metals, London, pp.230-240.
106. Microstructure and Extrusion Characteristics of PM Alloys 7090 and 7091 (with R.D. Parkinson), Powder Met., 29, (2), pp.135-141, 1986
 107. Process-Structure Relationship of Extrusions Produced from Rapidly Solidified Al-Mg-Mn Powders (with G.H. Tan), Powder Met., 29, (2), pp.143-151, 1986
 108. Structural Development During Production of Tubes from Rapidly Solidified Aluminium Alloy Powder (with G.J. Marshall), Mat.Sci. & Tech., June 1986, 2, pp.611-619
 109. Roping Phenomena in Ferritic Stainless Steels (with P. Richards), Mat.Sci & Tech., 1986, 2, p.641
 110. Recrystallisation Kinetics of Al-Mg Alloys AA 5056 and AA 5083 after Hot Deformation (with N. Raghunathan), Mat.Sci. & Tech., 1986, 2, pp.938-946
 111. The Constitutive Relationship and Structural Characteristics of Two Ferritic Stainless Steels Deformed in Torsion and Rolling (with P.Richards), Mat. Sci. & Tech., 1986, 2, pp.841-846
 112. Partitionless Structures in Al-Mg-Mn Powders (with M.A. Zaidi), Journal Rapid Solidification Technology, 1986, 2, 199-204
 113. The Effect of Extrusion Parameters on the Properties of Some Rapidly Solidified Al-Mg Powder Alloys (with G.H. Tan), Mat. Sci. & Tech., 1986, 2, 1233-1237
 114. A Comparison of a Viscoplastic Finite Element Model with Slip-Line Field and Upper Bound Solutions for Non-Hardening Materials Subjected to Plane Strain and Axi-Symmetric Extrusion (with J.H. Bianchi), J.Mech.Phys.Sol., 1987, 29, 61-81
 115. Development of Structure and Effect of Processing Parameters on Strength-Structure Relationships for Two Ferritic Stainless Steels (with P.Richards). Mat.Sci. & Techn., 1986, 2, pp.836-840
 116. Microstructure of Rapidly Solidified Al-Fe-Mn Alloys (with M.A. Zaidi), Mat.Sci. & Techn., 1987, 3, 146-148
 117. Microstructural Characterization of a Rapidly Solidified Al-Mg-Mn Powder Alloy (with G.J. Marshall, E.K. Ioannidis), Met. Trans. A., vol.18A, March 1987, pp.407-416
 118. Effect of Thermomechanical Process on As-Extruded and Solution Soaked Structures of Al-Cu-Mn Alloys (with R.P. Vierod), Mat.Sci. & Techn., 1987, 3, 285-290
 119. Structural and Substructural Observations during Thermomechanical Processing of Two Ferritic Stainless Steels (with P. Richards), J.Mat.Sci., 1987, 22, 1642-1650
 120. Corrosion Resistance of Al-Li Alloys (with N.C. Parson), Mat.Sci. & Techn., 1987, 3, 345-352
 121. Extrusion Processing of an Al-Li-Cu-Mg-Zr Alloy AA 2091 (with M.J. Tan), proc. 4th Int. Al-Li Conf., Paris, June 1987, pp.209-218
 122. Extrusion of an Al-Li-Zr Alloy Prepared from Atomized Powder (with M.S. Mahmoud, H.B. McShane), proc. 4th Int. Al-Li Conf., Paris, June 1987, pp.327-334

123. Variation in Structure and Properties in an Al-Li-Cu-Mg-Zr Alloy Produced by Extrusion Processing (with A.K. Mukhopadhyay, H.M. Flower), proc. 4th Int. Al-Li Conf., Paris, June, 1987, pp.219-228
124. Structure Morphology in Aluminium Alloys AA 3003 and AA 3004 (with P.A. Hollinshead), Mat.Sci. & Techn., vol.3, Dec.1987, pp.1019-1024
125. Extrusion Processing of Aluminium Alloys, proc. 8th Int. Light Metals Congress, Leoben - Vienna, 1987, pp.301-311.
126. Effect of Processing Variables on the Properties of Al-Li-Cu-Mg-Zr Alloys AA 2091 and AA 8090 Produced by Extrusion, (with A.K. Mukhopadhyay, M.J. Tan and H.M. Flower), proc. 4th Int. Aluminium Extrusion Technology Seminar, April 1988, Chicago, U.S.A., pp.161-177
127. The Origin of Surface Defects During Extrusion of AA 6063 Alloy, (with M.P. Clode), proc. 4th Int. Aluminium Extrusion Technology Seminar, April 1988, Chicago, U.S.A., pp.329-341
128. Fabrication and Properties of RSP Based Metal Matrix Composites, (with N. Raghunathan, H.B. McShane), proc. 'Advancing with Composites', Int. Conf. on Composite Materials, Milan, Italy, May 1988, pp.787-796
129. Structural Inhomogeneity During Production and Processing of Rapidly Solidified Al-6Mg-5Fe Alloy, (with E.K. Ioannidis and G.J. Marshall), Journal of Materials Science, 1988 (23), pp.1486-1495
130. Extrusion Processing of Conventional Aluminium Alloys, Al-Li Alloys and Alloys Prepared from Rapidly Solidified Powders, Proc. Fintech Seminar, 'Industrial Applications of New Materials', Bedford, England, 1987.
131. Press Quenching of Aluminium Alloys, Mat.Sci. & Techn., 1988, 4, pp.635-643.
122. Extrusion Processing of Al-Li-Mg-Zr Alloy, (with N.C. Parson), Mat.Sci. & Techn., 1988, 4, pp.816-823.
133. Deformation Characteristics of Ti-6Al-4V, (with J. Norley), Mat.Sci. & Techn., 1988, 4, pp.903-908.
134. Experimental and Analytical Comparison of Interface and Internal Variables in Cold Rolling, (with R.W. Bruce, M.E. Karabin, S. Panchanadeeswaran, L.A. Lalli, O. Richmond, M.L. Devenpeck, S.C-Y. Lu), Proc. Materials in Manufacturing Processes, publ. ASME, (New York), 1988, pp.49-57
135. Microstructure and Properties of Extruded Al-6Mg-3Cr Alloy Prepared from Rapidly Solidified Powder, (with E.K. Ioannidis and G.J. Marshall), Mat.Sci. & Techn., 1989, 5, pp.56-64
136. Evolution of Structure in Roll Gap when Rolling Aluminium Alloys (with N. Raghunathan), Mat.Sci. & Techn., 1989, 5, pp.194-201
137. Modification of Cast Structures in Al-Mg Alloys by Thermal Treatments, (with N. Raghunathan), Mat.Sci. & Techn., 1989, 5, pp.268-280
138. Thermomechanical Treatments of an Extruded Al-Li Alloy (with M.J. Tan), proc. Fifth Aluminium-Lithium Conf., Williamsburg, Virginia, March 1989, ed. T.H. Sanders Jr. & E.A. Starke, Jr., publ. MCPE, Birmingham, pp.233-260
138. Extrusion Processing of Al-Li-Zr RSP Alloys with Differing Lithium and Zirconium Contents (with H.B. McShane and M.S. Mahmoud), proc. Fifth Aluminium-Lithium Conf., Williamsburg, Virginia, March 1989, ed. T.H.

- Sanders Jr. & E.A. Starke, Jr., publ. MCPE, Birmingham, pp.287-303
139. On the Properties of Al-Li-Cr and Al-Li-Zr Rapidly Solidified Powder Alloys (with H.B. McShane and M.S. Mahmoud), in Rapid Solidification Processing and Technology, (Editors O.N. Mohanty and C.S. Sivaramakrishnan), Trans.Tech. Publ., Switzerland, 1989, pp.319-341
 140. Characteristics of an Al-6Fe-2Mo Alloy Prepared from RS Powders (with A.J.S. Chowdhury), in Rapid Solidification Processing and Technology, (Editors O.N. Mohanty and C.S. Sivaramakrishnan, Trans.Tech.Publ., Switzerland, 1989, pp.263-275
 141. Extrusion Processing and Properties of an Al-Li Alloy (with M.J. Tan), proc. Int.Conf. on Evolution of Advanced Materials, Milan, Italy, May\31st - June 2nd 1989, publ.AIM & ASM, pp.199-223
 142. Extrusion Processing of Al-Li-Cr and Al-Li-Zr Alloys with Differing Lithium Contents (with H.B. McShane and M.S. Mahmoud), proc. Int.Conf. on Evolution of Advanced Materials, Milan, Italy, May 31st - June 2nd 1989, publ. AIM & ASM, pp.181 - 198
 143. On Property Process Relationships when Extruding AA 2024 Alloy (with H.B. McShane and J. Subramaniyan), proc. Int. Conf. on Evolution of Advanced Materials, Milan, Italy, May 31st - June 2nd,1989, pp.111 - 130
 144. Structures and Properties of Rapidly Solidified Al-Fe-Mo Powder Alloys (with A.J.S. Chowdhury), proc. Int.Conf. on Evolution of Advanced Materials, Milan, Italy, May 31st - June 2nd, 1989, pp.101 - 110
 145. Microstructural Development During Annealing of Hot Rolled Al-Mg Alloys (with N. Raghunathan), Mats.Sci. & Techn., 1989, 5, pp.542-547
 146. Development of Rolling Textures in Aluminium Alloy 3004 Subjected to Varying Hot-Rolling Deformation (with P.A. Hollinshead), Met.Trans.A., 20A, 1989, pp.1495-1507
 147. Rapidly Solidified Aluminium Alloys : The Atomizing Route, Its Products and Their Applications (with A. Unal), paper read at Rapid Solidification Processing, The Technology and Business Opportunities, 1st/2nd June 1989, London, IBC Technical Services Ltd.
 148. Influence of Oxygen on Morphology and Oxide Content of Gas Atomized Aluminium Powders (with A. Unal and S. Ozbilen), Proc. Intl. Symposium on the Physical Chemistry of Powder Metals Production and Processing, October 1989, St. Mary's, U.S.A.
 149. Lateral Spread during Slab Rolling (with N. Raghunathan), Mats. Sci. & Techn., 1989, 5, pp.1021-1026
 150. Microstructure and Properties of Extruded Al-Li-Cr Alloy Prepared from Atomised Powder (with H.B. McShane and M.S. Mahmoud), Mats. Sci. & Techn., 1990, 6, pp.161-169
 151. Microstructural Observations in the Ultramicrotomed Sections of Rapidly Solidified Light Engineering Materials (with A.J.S. Chowdhury and A. Freundlich), Materials Letters, 1990, 9 (4), pp.136-141
 152. Structure, Anisotropy and Properties of Hot Rolled AA 5083 Alloy (with H.B. McShane and C.P. Lee), Mats. Sci. & Techn., 1990, 6, pp.428-440
 153. Development of Microstructure in AA 8090 Alloy Produced by Extrusion Processing (with A.K. Mukhopadhyay and H.M. Flower), Mats. Sci. &

- Techn., 1990, 6, pp.461-468
154. Microstructural Characteristics of Three RS Aluminium Alloys : Al-4Cr-1Fe, Al-6.43Cr-1.67Zr and Al-5Cr-2Zr (with E.K. Ioannidis), *Mats.Sci. & Techn.*, 1990, 6, pp.528-534
 155. Processing and Properties of High Temperature Application Al-Fe-Mo Based Alloys Prepared from Rapidly Solidified Powder (with A.J.S. Chowdhury), *Mats. Sci. & Techn.*, 1990, 6, pp.535-542
 156. Fabrication and Properties of Rapidly Solidified Magnesium and Mg-Si Alloys (with N. Raghunathan), *Mats.Sci. & Techn.*, 1990, 6, pp.629-640
 157. Processing and Properties of an Al-9.5Fe-1.6V Rapidly Solidified Powder Alloy (with A.J.S.Chowdhury) *Aluminium Alloys '90 Proc. ICCA2 Beijing 1990* pp.117-121 publ.International Academic Publishers Beijing.
 158. Preparation of Al-Li-Zr-Mg-Cu Alloys Produced by Rapid Solidification (with X.Yin and E.K.Ioannadis) *Aluminium Alloys '90 Proc.ICCA2 Beijing 1990* pp.108-123 publ. International Academic Publishers Beijing.
 158. The structure Property Relationship in an Enhanced Al-Zn-Mg-Cu Alloy and its Composites (with N.Raghunathan and C.J.Davies) *Aluminium Alloys '90 Proc.ICCA2 Beijing 1990* pp.208-213 publ. International Academic Publishers Beijing.
 160. On Property Process Relationships when Extruding AA 2024 Alloy (with H.B.Mcshane, N.Raghunathan and J Subramaniyan) *Aluminium Alloys '90 Proc.ICCA2 Beijing 1990* pp.325-337 publ. International Academic Publishers Beijing.
 161. The Extrusion of Aluminium Alloys ; A Thermo-mechanical Process. *Aluminium Alloys '90 Proc.ICCA2 Beijing 1990* pp.744-755 publ. International Academic Publishers Beijing.
 162. Influence of Powder Metallurgical Processing on Production and Properties of Rapidly Solidified Al-5Cr-2Zr, Al-6.43Cr-1.67Zr and Al-4Cr-1Fe Extrudates (with E.K.Ioannidis) *Mats. Sci. & Tech.* 1990 6 pp.749-754
 163. An Overview of Structure and Property Evolution during Thermal and Mechanical Processing of an Al-Mg alloy(5083). (with N.Raghunathan, H.B.McShane, And C.P.Lee) "Hot Deformation of Aluminium Alloys" *Proc.Symp.Detroit ,Michigan, Oct. 8th-10th 1990 Publ.TMS 1991* pp.389-417.
 164. The Effect of Thermal Treatments on the Processing of 2014 Alloy. (with N.Raghunathan) "Hot Deformation of Aluminium Alloys" *Proc.Symp.Detroit ,Michigan, Oct. 8th-10th 1990 Publ.TMS 1991* pp.441-473.
 - 165 Powder Metallurgy Aluminium Alloys; Characteristics of an Al-Cr-Fe Rapidly Solidified Alloy (with E.K.Ioannidis) *J. Matls.Sci.* 1990 25 pp.3965-3975.
 166. Fabrication and Properties of Rapidly Solidified Powder-based High-temperature Application Light-Alloy Composites. (with N.Raghunathan, H.B.Mcshane, and C.J.Davies). *J. Matls.Sci.* 1990 25 pp.4906-4913.
 167. Formation of Die Lines During Extrusion of AA 6063 (with M.P.Clode.) *Mats. Sci. & Tech.* 1990 6 pp.755-763.
 168. Influence of Billet Processing on Properties of Extruded Aluminium Alloy. (with X.Yin and N.Raghunathan) *Mats. Sci. & Tech.* 1991 7 pp.341-352.
 169. T.Sheppard, S.Ozbilen and A.Unal Influence of Superheat on Particle Shape

- and Size of Gas Atomised Copper Powders. Powder Met. 1991 34 pp.53-61
170. T. Sheppard, X. Yin and H.B. McShane The effect of Transition Elements (Ti, Mn) and Processing Parameters on the Mechanical Properties of Al-2.5Li-X P/M Alloys Proc. ISFTA '91 Los Angeles CA 11-15th November 1991.
171. T. Sheppard and M.P. Clode Material Flow and Microstructural Development During Extrusion of 6063 Proc. 5th Int. Al. Ext. Techn. Seminar Chicago May 1992 pp.79-101 publ. Aluminium Assoc. Washington DC.
172. T. Sheppard and M.P. Clode The Development of Microstructure and the Consolidation of RSP Alloys in Conform Extrusion Proc. 5th Int. Al. Ext. Techn. Seminar Chicago May 1992 pp.427-439 publ. Aluminium Assoc. Washington DC.
173. T. Sheppard, S. Kumar and H.B. McShane. The development of a Medium Strength Alloy Based on the Aluminum-Lithium-Magnesium System Proc. 5th Int. Al. Ext. Techn. Seminar Chicago May 1992 pp.439-447 publ. Aluminium Assoc. Washington DC.
174. T. Sheppard and R. Dashwood Extruded Aluminium Alloys Produced from the Powder Phase Proc. 5th Int. Al. Ext. Techn. Seminar Chicago May 1992 pp.455-467 publ. Aluminium Assoc. Washington DC.
175. R. Dashwood and T. Sheppard Development of Microstructure During Extrusion of Rapidly Solidified Al-7Mg-2Cr Alloy Mats. Sci. & Tech. 1992 8 pp.455-467
176. R. Dashwood and T. Sheppard Development of Microstructure During Extrusion of Rapidly Solidified Al-7Mg-2Cr Alloy. Mats. Sci. & Tech. 1992 8 pp.455-467
- 177 T. Sheppard and A. Unal Influence of Superheat on Particle Properties of Gas Atomised Al-5Li Powders. Powder Met. 1993 36 pp.93-101
178. Characterisation of Two Al-Fe Based High Temperature Alloy Powders (with K.N. Ramakrishnan, H.B. McShane and E.K. Ioannidis) Mats. Sci. & Tech 1992 8 pp.709-715.
- 179 Microstructural Development During the Consolidation of an Inert Gas Atomised Al-7Mg-1Zr Powder Alloy (with R. Dashwood) Mats. Sci. & Tech. 1993 9 pp.483-492.
180. Microstructure and Property Development in low density Rapidly Solidified Al-Li Alloys (with D. Sampath, R. Dashwood and H.B. McShane) Mats. Sci. & Tech. 1993 9 pp.218-227.
181. On the γ PSD Developed During the Early Stages of Ageing (with D. Sampath, R. Dashwood and H.B. McShane) Acta. Met. 1992 in Print.
182. The Effect of Consolidation Temperature on the Mechanical Properties of Rapidly Solidified Al-7Mg-1Zr Alloy (with R. Dashwood) Mats. Sci. & Tech. 1993 9 pp.678-685
183. The Development of Microstructure, Properties and Texture During the Rolling of an Al-7Mg-1Mn Gas Atomised Powder Alloy (with R. Dashwood) Mats. Sci. & Tech. 1993 9 pp.785 – 792
184. Quantitative and Qualitative Aspects of Crack Propagation in Some Al-Li Alloys (with D. Sampath, R. Dashwood and H.B. McShane) Acta Met. 1992 In Print.
185. The Extrusion of AA2024 Alloy Mats. Sci. & Tech. 1993 9 pp.430-440.

186. Strengthening Mechanisms in Al-3.5Li Powder Alloys (with D.Sampath, R.Dashwood and H.B.McShane) Scripta Met. 1992 In Print.
187. The Role of Zr on the () Precipitation Kinetics in Al-Li-X Alloys (with D.Sampath, R.Dashwood and H.B.McShane) Scripta Met. 1992 In Print.
188. Investigation of Mechanical Properties of Advanced Al-Zn-Mg-Cu Alloy (with C.H.Davies and N.Raghunathan.) Mats. Sci. & Tech. 1992 8 pp.862-868.
189. Serrated Yielding in Al-Li Alloys (with S.Kumar and H.B.McShane.) Scripta Met. 1993 28 pp.1149-11546
190. The Influence of Low Additions of Copper on the properties of an Al-Li-Mg-Zr Alloy (with S.Kumar and H.B.McShane.) Mats. Sci. & Tech. 1993, 9, pp1101-1105
191. A Comparison of Compression and Torsion Testing to Obtain Steady-State Constitutive Equations for 7075 Alloy (with A.Jackson) Zeit Metall.1994 84 570 - 592
192. Extrusion Processing Parameter-Mechanical Property Correlations in Rapidly Solidified Al-6.7Fe-5.9Ce and Al-6.2Fe-1.63Si(wt%) Alloy Powders.(with K.N.Ramakrishnan and H.B.McShane) Mats. Sci. & Tech. 1993 9 pp104-113.
193. Procesbeheering van Extrusie.(with W.van Rijswijk and L.Tack) Metalen 1993 6 pp29-33.
194. Extrusion Limit Diagrams Containing Structural and Topological Information for 6063 Aluminium Alloy.(With M.P.Clode.) Mats. Sci. & Tech. 1993 9 pp313-318.
197. Effect of Extrusion parameters on the Microstructure and Properties of an Al-Li-Mg-Zr Alloy (with S.Kumar and H.B.McShane.) J. Mat. Sci. 1994,29,pp1067-1074.
198. A.Jackson and T.Sheppard. Structural Modifications Occurring During the Homogenisation of Some 7xxx Alloys. Proc. 6th Int. Al. Ext.Techn. Seminar Chicago May 1996 pp.541- publ. Aluminium Assoc. Washington DC.
199. T.Sheppard and S.Kumar. Extrusion of Some Al-Li-Mg-Zr Alloys. Proc. 6th Int. Al. Ext.Techn. Seminar Chicago May 1996 pp.393- publ. Aluminium Assoc. Washington DC.
200. A.Jackson and T.Sheppard. Observation on Production and Limit Diagrams Relating to the Extrusion of 7XXX Aluminium Alloys. Proc. 6th Int. Al. Ext.Techn. Seminar Chicago May 1996 pp.209-217 publ. Aluminium Assoc. Washington DC.
202. T.Sheppard. On the relationship Between Extrusion Conditions and Fracture Toughness. Proc. 6th Int. Al. Ext.Techn. Seminar Chicago May 1996 pp.413-421 publ. Aluminium Assoc. Washington DC.
203. J.van Rijkom., Miller And T.Sheppard Improved Properties of Extruded Products by Heat Treatment of AA6082 Sections, Proc. 6th Int. Al. Ext.Techn. Seminar Chicago May 1996 pp.149-156 publ. Aluminium Assoc. Washington DC.
- 204 R.J Dashwood,H B McShane and T.Sheppard.,Computer Prediction of Extrusion Limit Diagrams Proc. 6th

Int. Al. Ext.Tech. Seminar Chicago May 1996 pp.331-339 publ. Aluminium Assoc. Washington DC.

205. T. Sheppard and R. J. Dashwood Microstructural Evolution During Extrusion of Low Density Al-Alloys Prepared from Rapidly Solidified Powders. Proc. 6th Int. Al. Ext.Tech. Seminar Chicago May 1996 pp.403-413 publ. Aluminium Assoc. Washington DC.

206. T.Sheppard. Development of structure, Recrystallisation Kinetics and Prediction of Recrystallised Layer thickness in Some Al-Alloys. Proc. 6th Int. Al. Ext.Tech. Seminar Chicago May 1996 pp.163-171 publ. Aluminium Assoc. Washington DC.

207. T.Sheppard and A. Jackson. Flow Stress Parameters During the Extrusion of Aluminium Alloys Proc. 6th Int. Al. Ext.Tech. Seminar Chicago May 1996 pp.223-229 publ. Aluminium Assoc. Washington DC.

208. Extrusion Limit Diagrams; Effect of Homogenising Conditions and Extension to Productivity Analysis(with A.Jackson) Mats. Sci. & Tech. 1997,13,pp61-68.

209. Constitutive Equations for use in Prediction of Flow Stress during Extrusion of Aluminium Alloys. (with A.Jackson) Mats. Sci. & Tech. 1997,13,pp203-210.

210. T.Sheppard On the Relationship between Extrusion Conditions, Mechanical Properties and Surface Acceptability in Some Hard Aluminium alloys. Proc. 3rd World Cong.Aluminium, Limassol Cyprus May 1997, pp21-63. publ. Interall, Milan, Italy 1997.203

211.T.Sheppard, E.Nisaratanaporn and H.B.McShane; Material Flow and Pressure Prediction when Extruding through Bridge Dies; Zeit. fur Metall. 1998(5), 89,327

212. T.Sheppard, Temperature changes occurring during the extrusion of metals, Mats. Sci. & Tech. 1999,115,459-463.

213.T.Sheppard, Extrusion of Aluminium Alloys. Major Text. Kluwer Academic Press, Boston U.S.A.; Dordrecht, The Netherlands 1999, ISBN 041259070 0

214 R.J.Dashwood, R Thackeray, H B McShane and T.Sheppard., Simulation of the Effect of Tooling and Billet Condition on Bulk and Surface Metal Flow during Extrusion., Proc. 7th Int. Al. Ext.Tech. Seminar Chicago May 2000 pp.213-223 publ. Aluminium Assoc. Washington DC.

215 W. van Rijswijk.T.Sheppard and L.Tack., Semi-Emprical Modelling of Multiple-Hole Extrusion on a 5000T Indirect Extrusion Press. Proc. 7th Int. Al. Ext.Tech. Seminar Chicago May 2000 pp.213-223 publ. Aluminium Assoc. Washington DC.

216 I.Flitta and T.Sheppard., FEM Prediction of Material Flow and Extrusion

Pressure When extruding Through Bridge 'Dies Proc. 7th Int. Al. Ext.Tech. Seminar Chicago May 2000 pp.141-147 publ. Aluminium Assoc. Washington DC.

217 I.Flitta and T,Sheppard.,On the Mechanics of Friction during the Extrusion Process., Proc. 7th Int. Al. Ext.Tech. Seminar Chicago May 2000 pp.197-203 publ. Aluminium Assoc. Washington DC.

218 T.Sheppard.,On the Relationship between Extrusion conditions, Mechanical Properties and Surface acceptability in some Hard Aluminium alloys, Proc. 7th Int. Al. Ext.Tech. Seminar Chicago May 2000 pp.307-321 publ. Aluminium Assoc. Washington DC.

219 X.Velay and T.Sheppard., Plane Strain and Three Dimensional Coupled Thermomechanical Simulation of the Conform Process., Proc. 7th Int. Al. Ext.Tech. Seminar Chicago May 2000 pp.505-517 publ. Aluminium Assoc. Washington DC.

220 X.Velay and T.Sheppard. Axisymmetric Modelling of Aluminium Extrusion through an Expansion Chamber, Proc. 7th Int. Al. Ext.Tech. Seminar Chicago May 2000 pp. 533-540 publ. Aluminium Assoc. Washington DC.

221. T.Sheppard, Factors Involved in the Extrusion of Hard Aluminium Alloys. *Aluminium Trans.*2000,3,77-93

222. X.Duan and T. Sheppard. Prediction of temperature evolution during multi-pass hot flat rolling of aluminium alloys. *Modelling and Simulation in Mat Sci and Eng.* 9(6), 2001, 525-538

223. X. Duan and T. Sheppard Shape Optimisation of a V-shaped Anvil by use of FEA Software. *Journal of Material Processing* 120(1-3), 2002, 426-431.

224. X.Duan and T. Sheppard. Three Dimensional Thermal Mechanical Coupled Simulation During Hot Rolling of Aluminium Alloy 3003.*Int.J.Mech.Sci.* 2002,44,2155-2172.

225. X.Duan and T. Sheppard. . Modelling of subgrain evolution of aluminium alloys under hot working conditions. *Aluminum Transactions.* 5 (1), 2002.

261..X.Duan and T. Sheppard Lateral deformation during the hot flat rolling of aluminium alloys. *Mats. Sci. & Tech.* 18 (6), 2002, 615-620.

227. X. Duan and T.Sheppard. Simulation of substructure strengthening in hot flat rolling. *Journal of Material Processing Technology* 125/126, 2002, 181-189

228. I.Flitta and T.Sheppard. Simulation of bridge die extrusion using the finite element method. *Materials Science and Technology.* Vol.18, 2002,987-994.

229. X.Duan and T.Sheppard. Dimensional control during hot flat rolling of aluminium alloys by integrating FEM and the taguchi experimental design method. *Proceedings of the 6th Annual International Conference on Industrial Engineering – Theory, applications and Practice, San Francisco, CA, USA, November 18-20, 2001.*

230. X.Duan and T.Sheppard. Temperature and microstructure variation during rolling of aluminium slabs. *The 9th International Conference on Metal Forming.*

231. X. Duan and T. Sheppard. New spread formula for hot flat rolling.. *The 5th international ESAFORM conference on material forming.* M. Pietrzyk, Z. Mitura and J. Kaczmar (editors). April 14-17, 2002, Krakow, Poland. 375-378.

232.Flitta and T. Sheppard. Investigation of friction during the extrusion of Al-

- alloys using FEM simulation. . *The 5th international ESAFORM conference on material forming*. M. Pietrzyk, Z. Mitura and J. Kaczmar (editors). April 14-17, 2002, Krakow, Poland. 435-438.
- 233.X.Duan and T. Sheppard. Three dimensional simulation of subgrain size evolution during hot rolling of commercial purity aluminium alloy. In: *Advances in Concurrent Engineering*. R. Goncalves, R. Roy and A. Steiger-Garcia (eds). A.A.Balkema Publishers. 2002. p227-234.
- 234.X. Duan and T. Sheppard. Influence of forming parameters on static recrystallisation behaviour during hot rolling aluminium alloy 5083. *Modelling and Simulation in Materials Science and Engineering*. 10 (4), 2002, 363-380.
- 235.T. Sheppard and X. Duan. A new spread formula for hot flat rolling of aluminium alloys. *Modelling and Simulation in Materials Science and Engineering* 2002,10,597-610
- 236.T. Sheppard and X. Duan. Modelling of static recrystallisation by combining FEM with empirical method. *Journal of Materials Processing Technology*.2002,130/131, pp250-253).
- 237.X. Duan and T. Sheppard. Influence of forming parameters on the final subgrain size during hot rolling of aluminium alloys. *Journal of Materials Processing Technology*. 2002,130/131, pp245-249.
- 238.X.Duan and T. Sheppard. The influence of die shape on the behaviour of surface recrystallisation. *TMS Annual Meeting 2003: Hot Deformation of Aluminum Alloys*. J. Zhe et al. (eds). pp 110-117 publisher ASM
- 239.T.Sheppard and X. Duan. Formation of extrudate surface. . *TMS Annual Meeting 2003: Hot Deformation of Aluminum Alloys*. J. Zhe et al. (eds). pp 53-62 publisher ASM
- 240.Duan and T.Sheppard. Three dimensional thermal mechanical coupled simulation during hot rolling of aluminium alloy 3003. *Int.J.Mech.Sci*, 2003,44[10], pp 2155 - 2172.
241. X. Duan and T.Sheppard. Modelling of Static Recrystallisation by the combination of empirical models with the finite element method. *Journal of Material science*. 2003,38,pp1747-1754.
242. T. Sheppard and X. Duan Modelling of static recrystallisation by the combination of empirical models with the finite element method. *Journal of Material Sciences*. 2003,38,1747-1754
- 243.T. Sheppard and X. Duan . Computation of substructural strengthening by the integration of metallurgical models into finite element code. *Computational Materials Science*. 2003,27,250-258
- 244.X Duan and Terry Sheppard. Simulation and control of microstructure evolution during hot extrusion of aluminium alloys. *Material Sciences and Engineering A* 2003,351,282-292
- 245.I. Flitta and T. Sheppard. On the nature of friction in the extrusion process and its effect on material flow. *Materials Science and Technology*. 2003,19,837-846
246. T. Sheppard and X. Duan. Modelling of static recrystallisation by the combination of empirical models with the finite element method. *Journal of Material Sciences*. (2003,38,1747-1754).
- 247 X. Duan and T. Sheppard. The Influence of the constitutive equation on the finite element analysis of metal forming. *Finite Element in Analysis and Design*. 2003,23,98-105
248. X. Duan, X.Velay and T. Sheppard. Application of Finite Element Method in Hot Extrusion of Aluminium Alloys. *Material Sciences and Engineering A* 2004 (in press)
249. X.Velay, X. Duan, and T. Sheppard.Prediction of Material Flow Pattern in the Hot Extrusion of Aluminium Alloys by the Finite Element Method. *Materials Science Forum*. 426(4), 2003. 3807-3812
250. X. Duan and T. Sheppard. The Influence of Die Shape on the Mechanics of Static Recrystallisation. *Hot Deformation of Aluminium Alloys* ((((Eds. Z.Jin, A.Beaudoin, T.Bieler) proc. Conf. March 2nd-6th 2003 San Diego, USA publ TMS.
251. X. Duan and T. Sheppard. Formation of Extrudate Surface. *Aluminium Alloys* ((((Eds. Z.Jin, A.Beaudoin, T.Bieler) proc. Conf. March 2nd-6th 2003 San Diego, USA publ TMS.

252. Z.Pheng and T.Sheppard Individual Influence of Forming Parameters on Surface Recrystallisation during Aluminium Extrusion *Modelling and Simulation in Materials Science and Engineering* 12(2004), 2004,43-57
253. X. Duan and T. Sheppard. Formation of Extrudate Surface. Aluminium Alloys (((Eds. Z.Jin, A.Beaudoin, T.Bieler) proc. Conf. March 2nd-6th 2003 San Diego, USA publ TMS.
254. Z.Peng and T.Sheppard. Multi-Hole Extrusion *Material Sciences and Engineering A* 367, 2004, 329- 342
- 255.Z. Peng and T. Sheppard. Prediction of static recrystallisation during extrusion of aluminium alloy AA2024. 'Simulation in Industry'. **15th European Simulation Symposium**, 2003. Delft, the netherlands. pp 391-398.
256. Z. Peng and T. Sheppard. A Study on Surface Cracking in Extrusion of Aluminium Alloy AA2014. **Materials science and technology.2004,20,1179-1191.**
- 257 Z. Peng and T. Sheppard, Prediction of Static Recrystallisation during Shaped Extrusion. In: 8th International aluminium extrusion technology seminar, 17-21 May 2004 Orlando. Washington: Aluminium association and aluminium extruder councils, 1, 79-91.
258. T. Sheppard and Z. Peng,. Application of FEM to Modeling of Multi-hole Die Extrusion. In: 8th International aluminium extrusion technology seminar, 17-21 May 2004 Orlando. Washington: Aluminium association and aluminium extruder councils, 1, 93-105.
259. Isaac Flitta and Terry Sheppard, Temperature Changes and their Effect on Deformation during Extrusion using FEM. In: 8th International aluminium extrusion technology seminar, 17-21 May 2004 Orlando. Washington: Aluminium association and aluminium extruder councils, 1,269-283.
260. X. Velay, T. Sheppard and X. Duan, Prediction of material flow pattern in the hot extrusion of aluminium alloys by the finite element method. In: 8th International aluminium extrusion technology seminar, 17-21 May 2004 Orlando. Washington: Aluminium association and aluminium extruder councils, 2, 179-184.
261. T. Sheppard, X. Duan and X. Velay, Consideration of surface formation and cracking and control by isothermal extrusion; Simulation of These Factors by the Finite Element Method. In: 8th International aluminium extrusion technology seminar, 17-21 May 2004 Orlando. Washington: Aluminium association and aluminium extruder councils, 2, 209-220.
262. X. Duan, T. Sheppard and X. Velay, Prediction of flow stress and recrystallisation by the finite element method during the hot extrusion of aluminium alloys. In: 8th International aluminium extrusion technology seminar, 17-21 May 2004 Orlando. Washington: Aluminium association and aluminium extruder councils, 1, 149-158.
263. Isaac Flitta and Terry Sheppard. Prediction and control of substructure evolution during hot extrusion using Finite element Modelling. ESAFORM2004, Trondheim, Norway, April 28-30. pp. 597-600.publ. NUS&T
264. Isaac Flitta and Terry Sheppard. The Effect of Flow Stress on Extrusion Parameters ESAFORM 2004, Trondheim, Norway, April 28-30. pp. 617-620. publ. NUS&T
- 265 - Zhi Peng, Isaac Flitta, Terry Sheppard "Simulation of Multi-hole Die Extrusion by Finite Element Method" ESAFORM2004, Trondheim, Norway, April 28-30. pp. 605-608.publ.N.U. S&T
266. Z. Peng and T. Sheppard. A study on material flow in isothermal extrusion by FEM simulation. **Modelling and Simulation in Materials Science and Engineering**. 12, 2004, 745-76
267. Z. Peng, T. Sheppard and X.Velay. A Discussion on the Scaling Effect on Numerical Simulation of the Extrusion Process. **Materials science and technology**, 2004,20,1335-1339
- 268 Flitta I and T. Sheppard . **On the Material Flow During the Extrusion of Simple and Complex Cross-Sections Using FEM"** Journal of .Material Science & Technology. **2005,21(3),648-656**
- 269 Flitta I and T. Sheppard . **The prediction and Control of Substructure Evolution by Finite Element Modelling.** Journal of .Material Science & Technology. **Submitted for publication.**
- 270 Flitta I and T. Sheppard. **The effect of Pressure and Temperature Variations on the FEM Prediction of Deformation During Extrusion.** Journal of .Material Science & Technology. **In print**

271. Z. Peng and T. Sheppard. Numerical simulation by FEM and Cellular Automata of static recrystallisation after hot extrusion and solution treatment of aluminium alloy. Accepted **Modelling and Simulation in Materials Science and Engineering**. 2007

272 Z. Peng and T. Sheppard. The effect of velocity and mesh sizes when modelling the industrial extrusion process, **Modelling and Simulation in Materials Science and Engineering**. 14,2006,57-72

273 Z. Peng and T. Sheppard. The Effect of Pocket Dies in Multi-hole Extrusion, **Material Sciences and Engineering A** 407(2005),89-97

274 Variation in Structure and Properties in an Al-Li-Cu-Mg-Zr alloy Produced by Extrusion (with A.K.Mukhophadhyay and H.M.Flower) **J.de.Physique**, Tome 48, Suppl. 9, C3-219, 1987.

275.T.Sheppard. **Virtual Extrusion: the Scientific Method to increase Quality and Production**

Acceptance address to the Russian Academy of Sciences. 14 June 2006.

276.T.Sheppard. **Prediction of Structure during Shaped Extrusion and Subsequent Static Recrystallisation During the Solution Soaking Process**. Keynote Address, Proc.11th International Conference on Metal Forming, University of Birmingham. Published in **Journal of Materials Processing Technology**. 2006, 177/1-3 ,26-35.

277. I.Flitta,T.Sheppard and Z.Peng. FEM analysis to predict development of structure during extrusion and subsequent solution soak cycle. **Journal of .Material Science & Technology**. 2007,223,582-592.

278 T.Sheppard and X.Velay. Keynote Address to 'Latest Advances in Extrusion Technology and Simulation in Europe and 2nd Extrusion Benchmark' 20-21st September 2007 Bologna Italy. Published **Trans Tech Publications Ltd.**, **Key Engineering Materials**. 2007,367,pp25-38

279. T.Sheppard.Keynote Address Innovative Methodologies to Increase Productivity by Simulating Development of Structure During Extrusion and Solution Soaking: In 9th International aluminium extrusion technology seminar, May 2008 Orlando. Washington: Aluminium association and aluminium extruder councils, 1 38-54.

280 T.Sheppard and Z.Peng. **Best paper at conference award**. Control of Asymmetric Recrystallization in Single and Multi-Hole Die Extrusion. In 9th International aluminium extrusion technology seminar, May 2008 Orlando. Washington: Aluminium association and aluminium extruder councils, 1, 129-144.

281. T.Sheppard and X.Velay. Prediction and Control of Subgrain Size in the Hot Extrusion of Aluminum Alloys with Feeder Plates In 9th International aluminium extrusion technology seminar, May 2008 Orlando. Washington: Aluminium association and aluminium extruder councils, 1, 72-81.

282. L.Niu, T.Sheppard and X. Velay.Process optimization and metal Flow Analysis of Direct and Indirect Extrusion of Aluminium using FEM Simulation. The 6th International Conference on Manufacturing Research(ICMRA08) Brunel Univeersity eptember 2008.

283.L.Niu, T.Sheppard and X. Velay.On Material Flow and Aspects of Structural Modification During Direct Extrusion of Aluminium. , **Material Sciences and Engineering A** submitted 2008

Wales, 1966.

2. A Mathematical Analysis of the Roller Straightening Process, **J.I.M.**, 1967 95, 225-231
3. Stainless Clad Mild Steels (with M.G. Brooks), **Metallurgia**, 1967, 60 145-151
4. Parameters Affecting the Descaling Process (with W.M. Steen), **Proc. Inst. Conf. Automation in Rolling Mills, Tatranska Lomnice, Czechoslovakia**, 1969, pp.102-123
5. Descaling - An Experimental Survey (with W.M. Steen), **J.I.S.I.**, 1970, 208, 797-805
6. Stress-Strain Relationships for Strip Shape Correction Processes (with J.M. Roberts), **J.I.M.** 1971, 99 223-228
7. On the Mechanics of the Tension Levelling Process (with J.M. Roberts) **J.I.M.**, 1971, 99, 293-301
8. On the Strip to Roll Conformity in the Tension Levelling Proces (with J.M.

Roberts) J.I.M., 1972, 100, 130-135

1. Continuum Mechanics Applied to the Roller Straightening Process - M.Sc. Thesis, University of
9. The Extrusion of Atomized Aluminium Powders (with P.J.M. Chare), Powder Metallurgy, 1972, 15, 17-41
10. Shape Correction of Strip (with J.M. Roberts), Int.Met.Review, 1973, 18, 1-18
11. Axi-Symmetric Extrusion - The Effect of Temperature Rise and Strain Rate on the Activation Enthalpy and Material Constants of some Aluminium Alloys and their Relation to Recrystallisation, Sub-structure and Subsequent Mechanical Properties (with D. Raybould), J.I.M., 1973, 101, 33-44
12. Plastic Flow in Thermally Activated Mechanical Working Processes (with D. Raybould, J.I.M., 1973, 101, 45-52
13. On Load and Temperature Rise During the Extrusion of Super Pure Al, Al-Zn and Al-Zn-Mg Alloys (with D. Raybould), J.I.M., 1973, 101, 33-44
14. A New Approach to the Construction of Extrusion Limit Diagrams giving Structural Information and Their Application to Super-Pure Al and Al-Zn-Mg Alloys (with D.Raybould) J.I.M., 1973, 101, 73-78
15. On Powder Extrusion as a Primary Fabricating Process for Al-Fe Alloys (with P.J.M. Chare), Powder Met., 1973, 16, 437-458
16. The Production of High Temperature Materials by Powder Extrusion, Proc. Int. Conf. on Forming of High Temperature Materials, Ostrava, 1973, publ. Dum Techniky CSVTS Ostrava, pp.162-199
17. The Densification and Properties of Extruded Al-Zn-Mg Atomized Powder (with P.J.M. Chare) Int.Journal Powder Met. and Powder Techn., 1974, 10, (3) 203-215
18. The Production of Extruded Material from Metal Powders, Proc. 15th MTDR, Birmingham, 1974, 659-667, McMillan, London
19. The Production of Nickel-Rich Alloys by Powder Extrusion, Int.J. Powder Techn., 1974, 3, 254-271
20. On Thermal Activation During Extrusion of Metal Powders (with P.J.M. Chare), Powder Met., 1975, 18, 64 1-14
21. Evaluation of Shape Factors for Aluminium Extrusion (with E.P. Wood), Proc. 6th Int. Leichtmetalltagung Leoben, 1975, p.148 Aluminium Verlag Dusseldorf. Aluminium 1975, 51,(12), 760-765
22. Pressure Required to Initiate Extrusion in Some Al-Alloys (with A.F. Castle), Metals Technology, 1976, 2, 465-475
23. Hot Working Theory Applied to the Extrusion of Some Aluminium Alloys (with A.F. Castle), Metals Technology, 1976, 1, 454-464
24. The Densification and Properties of Pre-Alloyed Atomized and Extruded Bronze Powders of High Phosphorous Content (with A. Greasley). Proc. 2nd Int. Conf. on Particulate Matter, Brighton, 1975, pp.1-17
25. Observation on the Application of Limit Diagrams to Aluminium Alloy Extrusion (with A.F. Castle), Proc. 16th MTDR Manchester, 1975. McMillan & Co., London, pp.535-543
26. Development of Product Structure at the Commencement of Extrusion (with A.F. Castle), Metals Technology, 1976, 2, 433-436

27. The Influence of Pass Scheduling on Plastic Anisotropy and Hardening (with J. Toth), Proc. 8th Conf. on Materials Testing, Balatonszeplak, Hungary, 1975, publ. Vaskut Budapest, pp.30-45
28. On Direct Cold Extrusion of Clad Materials Using a Disc Technique (with C. Holloway and M.B. Bassett), Metals Technology, 1976, 2, 510-515
29. Shape in Metal Strip : The State of the Art, Institute of Metals Spring Meeting, 1976, publ. Metals Society, London, pp.11-18
30. On Load Pressure Requirements During the Cold Extrusion of Composite Materials (with C. Holloway and M.B. Bassett), Proc. 17th MTDR, Birmingham, 1976, McMillan & Co., London, pp.389-399
31. Structural Limit Diagrams and the Flow Stress Distribution During the Axisymmetric Extrusion of Aluminium Alloys (with D. Raybould), Proc. 4th Int. Conf. Strength of Metals and Alloys, Nancy 1976, p.664, publ. I.N.P.L., Nancy, France, pp.664-668
32. Observations on the Mode of Deformation During Aluminium Slab Rolling (with D.S. Wright), Proc. 17th MTDR Birmingham, 1976, p.539, publ. McMillan & Co., London, pp.539-547
33. On the Pressure Required for Extrusion of Shaped Aluminium Sections (with E.P. Wood), Proc. 17th MTDR Birmingham, 1976, publ. McMillan & Co., London, pp.411-421
34. Production of an Aluminium-Rich Magnesium Silicide Alloy from Atomized Powder (with H.B.McShane), Powder Met., 1976, 3, 126-133
35. On the Densification of Some Atomized Metal Powders, Ph.D. Thesis, University of London (Imperial College), 1976
36. Analysis of Pressure Requirements for Powder Compact Extrusions (with H.B.McShane), Powder Met., 1976, 19 (3), 121-125
37. The Effect of Pass Scheduling on Deep Drawability (with J. Toth), J. Mech. Work. Techn. 1977, 1, 82-92
38. Densification and Pressure Requirements During the Extrusion of Air Atomized Tin Bronze Powders (with A. Greasley), Powder Met., 1977, 20, 26-35
39. On Temperature Rise During the Extrusion of Composite Materials (with C. Holloway and M.B. Bassett), J.Mech. Work.Tech. 1978, 1, 343-359
40. T.Sheppard. Institute of Metals Rolling Symposium ? Reversing Breakdown and Plate Schedules. Chairman/Keynote Feb 1978, publ. Metals Society, London,
41. T.Sheppard. Institute of Metals Rolling Symposium (Held at Mech.Eng.) ?? Continuous Strip Rolling. Chairman/Keynote March 1978, publ. Metals Society, London.
42. T.Sheppard. Institute of Metals Rolling Symposium ??? (Held at Mech.Eng.) Coiling, Shape and Tension Problems. Chairman/Keynote April 1978, publ. Metals Society, London.

43 T.Sheppard. Institute of Metals Rolling Symposium ?V (Held at Mech.Eng.)
Cold Rolling and Shape Correction. Chairman/Keynote May1978, publ. Metals
Society, London. .

44. On the Extrusion and Properties of Some Atomized Bronze Powders (with A. Greasley), J. Powder and Bulk Solid Tech., 1977, 1, 55-63
45. The Application of Limit Diagrams to Extrusion Process Control, Proc. 2nd Int. Conf. Extr.Techn., Atlanta, Georgia, 1978, p.331-337 Alum. Assoc., Washington DC.
46. The Production of Fibre Reinforced Aluminium by a Powder Extrusion Technique (with H.B. McShane), Proc. 18th Int. MTDR, Imperial College, London, 1977, publ. McMillan, London, pp.241-250
47. Analysis of the Specific Pressure Necessary to Extrude Aluminium Alloy Compacts (with H.B.McShane and M. Tutcher), Powder Met., 1978, 21, pp.47-51
48. The Structure and Properties of Some Tin Bronzes Produced by Extrusion of Atomized Powders (with A. Greasley), Powder Met., 1978, 21, pp.155-162
49. The Development of Recovered Dislocation Sub-structures During Plastic Flow in the Extrusion Process (with H.M. Flower and M. Tutcher), publ. Mat.Sci.J. 1979, 6, 473
50. An Analysis of Failures During Extrusion of Bi-Metallic Billets (with C. Holloway and M.B. Bassett), Proc. 3rd ICPE, Japan, 1979
51. Determination of the Constitutive Equation for Aluminium Alloys at Elevated Temperatures (with D.S. Wright), Mat.Technology, 1979, 6, pp.215-223
52. On Radial and Axial Temperature Changes During Torsion Testing (with D.S. Wright), Materials Technology, 1979, 6, pp.224-229
53. T.Sheppard Institute of Metals Extrusion Symposium Aluminium Alloys (Held at Mech.Eng.) Chairman/Keynote Feb1979, publ. Metals Society, London. .
54. Shape Correction in Metal Strip (Sheet Metal Industries), 1979, 56 pp.1149-1154
55. The Effect of Section Geometry on the Extrudability of an Al-Cu-Mn Alloy (with E.P. Wood), Metals Technology, 1980, 7, pp.58-66
56. T,Sheppard and D.S.Wright Structural and Temperature Variations During the Rolling of Al-Mg Slabs Metals Technology, 1980, 7, pp.274-281
57. On the Relationship of Structure and Processing Variables During and Subsequent to Mechanical Deformation. Published keynote address to

- ASME annual meeting - Las Vegas, 1980. TMS Paper Selection A80-35
1980
58. The Strength of Cold Pressed Aluminium Compacts (with H.B.McShane), Powder Metallurgy, 1980, 23, pp.120-125
 59. Parameters Affecting Lateral Deformation in Slabbing Mills (with D.S. Wright), Metals Technology, 1981, 8, pp.46-59
 60. On the Development of a Duplex Deformation Substructure During Extrusion of a Commercial Al-Mg-Mn Alloy (with M.G. Tatcher), Mat.Sci.J., 1980, 7, pp.579-589
 61. On the Extrusion Limits of an Al-0.5%Mg-0.8%Mn Alloy (with M.G. Tatcher), Metals Technology, 1980, 7, pp.488-493
 62. The Modern Extrusion Process : Temperature and Speed Effects, Metals Society Symposium, Birmingham, June 1980
 63. On the Development of Edge Profile During the Initial Passes of Aluminium Slab Rolling (with D.S. Wright), Metals Technology, 1981, 8, pp.180-189
 64. The Effect of Process Parameters on the Structure and Some Properties of an Al-5%Mg-0.8%Mn Alloy, (with M.G. Tatcher), Metals Technology, 1981, 8, pp.319-327
 65. Temperature and Speed Effects During the Extrusion of Aluminium Alloys, Metals Technology, 1981, 8, pp.130-141
 66. T.Sheppard and M.A.Zaidi. Development of Microstructure Throughout the Roll Gap During the Rolling of Aluminium Alloys Metals Science, 1982, 16, pp.229-238
 67. The Influence of Hot Working Parameters on the Earing Behaviour of Al-2%Mg Sheet (with M.A. Zaidi), Metals Technology, 1982, 9, pp.368-374
 68. Deformation During Multi-Pass Rolling of Commercial Purity Aluminium, (with M.A. Zaidi), Metals Technology, 1982, 9, 52-59
 69. Recrystallisation Mechanisms in Commercial Al-2%Mg Alloy (with M.A. Zaidi) Metal Science, 1983, 17, pp.219-228
 70. Direct and Indirect Extrusion of a High Strength Aerospace Alloy (AA 7075) (with P.J. Tunnicliffe and S.J. Paterson), J. Mech.Work.Tech., 1982, 6, pp.313-331
 71. Direct and Indirect Extrusion of Aluminium Alloys (with S.J. Paterson), Metals Technology, 1982, 9, pp.274-281
 72. Dynamic Recrystallisation in an Aluminium-7% Magnesium Alloy (with N.C. Parson and M.A. Zaidi), Metal Science, 1983, 17, 481-490
 73. Some Observations on Metal Flow and the Development of Structure during Direct and Indirect Extrusion of Commercial Purity Aluminium (with S.J. Paterson). J.Mech.Work.Tech. 1982, 4, 39-56
 74. Structural Changes Occurring During Thermal Treatments in the Extrusion of an Al-Cu-Mn-Si Alloy (with S.J. Paterson), Metals Technology, 1982, 9, 389-398
 75. Production of High Strength Aluminium Alloys by the Extrusion of Atomized Powders (with G.H. Tan and M.A. Zaidi), Powder Met., 1983, 26, 1, pp.10-16
 76. Metallurgical Principles and the Control of Properties During the Extrusion

- Process. Proc. Int. Symposium Extrusion, Garmisch Partenkirchen, 1982, publ. DGM and Metals Society
77. The Extrusion of Atomized Aluminium Alloy Compacts and Composites (with H.B. McShane, G.H. Tan and M.A. Zaidi). Presented at Powder Met. Silver Jubilee Conference, Eastbourne, 1982. Published J.Mech.Work.Tech., 1983, 8, 43-70
 78. The Effect of Extrusion Process Parameters on the Microstructure and Properties of an Al-Li-Mg Alloy (with N.C. Parson), Proc. 2nd Int. Conf. Al-Li Alloys, Monterey, Cal. in Aluminium-Lithium Alloys II, pp.53-64, publ. AIME, Pa., U.S.A., 1983.
 79. Microstructural Aspects of the Extrusion of Rapidly Solidified Al-10Mg Powder (with G.H. Tan and M.A. Zaidi), Metal Sci., 1983, 17, pp.563-572
 80. Extrusion and Properties of an Al-10Mg Alloy Prepared from Rapidly Solidified Powder (with G.H. Tan and M.A. Zaidi), Powder Met. 1984, 27,1, pp.3-8
 81. On the Elevated Temperature Constitutive Relationship and Structure of an Austenitic Stainless Steel (with H.B. McShane), J.Mech.Work.Tech., 1984, 9, pp.147-160
 82. Production Structure and Properties of an Al-Fe-Ni-Co Alloy Prepared from Atomized Powder (with H.B. McShane), Powder Met., 1984, 27, pp.101-106
 83. Mechanics of Fracture in Hot Rolled Al-7Mg Alloy Prepared from Rapidly Solidified Powder (with M.A. Zaidi), Met.Sci., 1984, 18, 236-240
 84. Effect of High-Temperature Soak and Cooling Rate on Recrystallisation Behaviour of Two Al-Mg Alloys (AA 5252 and AA 5454) [with M.A. Zaidi], Metals Technology, 1984, 11, pp.313-319
 85. Microstructure and Properties of Some Extruded Copper-Phosphorus Alloys (with H.L. Yiu), Metal Science, 1984, 18, pp.439-447
 86. Structural Aspects of Rapidly Solidified Al-Cr-Fe-Ni Alloy (with G.J. Marshall), Metal Science, 1984, 18, pp.561-569
 87. Microstructural Features of Extrudates Prepared from Rapidly Solidified Al-Fe-Ni-Co Powder (with M.A. Zaidi), Powder Metallurgy, 1984, 27, pp.221-224
 88. Extrusion of Two-Phase Cu-P Alloys at Elevated Temperatures (with H.L. Yiu), Materials Science and Technology, 1985, 1, pp.45-52
 89. Metallurgical Aspects of Direct and Indirect Extrusion. Proc. 3rd Int. Al Extr. Sem. 1984, vol.1, pp.107-124, publ. Aluminium Association, Washington, D.C., 1984.
 90. Deformation of Cu-P Alloys at High Temperatures (with H.L. Yiu), Materials Science and Technology, 1985, 1, pp.209-219
 91. Effect of Preheat Modification on Extrusion Characteristics of Aluminium Alloy 2014 (with R.P. Vierod), Materials Science and Technology, 1985, 1, pp.321-324
 92. Flow-Stress Mapping from Extrapolated Laboratory Data (with A. Greasley), J. of Mech. Working Technology, 1985, 11, pp.201-214
 93. Control of Earing Quality in AA 5052 and AA 5454 Aluminium Alloys (with M.A. Zaidi), Materials Science and Technology, 1985, 1, pp.593-599

94. Extrusion of Al-5Fe-7Mn Alloy Prepared from Rapidly Solidified Powder (with M.A. Zaidi and J.S. Robinson), *Materials Science and Technology*, 1985, 1, pp.737-742
95. Production of Engineering Materials from Rapidly Solidified AA 7050 Al-Zn-Mg-Cu Powders (with R.D. Parkinson), *Powder Metallurgy*, 1985, 28, pp.189-197
96. On the Development of Structure During the Extrusion Process (with S.J. Paterson, M.G. Tutcher), Proc. Symposium at Annual Meeting of TMS, N.Y., 1985, in 'Microstructure in Aluminium Alloys' publ. AIME, Pa., U.S.A., 1986.,pp.123-154
97. Dynamic Recrystallisation in Aluminium Alloys (with M.A. Zaidi, M.G. Tutcher, N.C. Parson), Proc. Symposium at Annual Meeting of TMS, N.Y., 1985, publ. in 'Microstructural Development in Aluminium Alloys', AIME, Pa., U.S.A., 1986., pp.155-178
98. Structural Evolution During the Rolling of Aluminium Alloys (with M.A. Zaidi, P.A. Hollinshead, N. Raghunathan), Proc. Symposium at Annual Meeting of TMS, publ. in 'Microstructural in Aluminium Alloys', N.Y., 1985, publ. AIME, Pa., U.S.A., 1986.
99. Process/Structure/Property Relationships in Al-5Fe-7Mn Alloy Extrusions Prepared from Rapidly Solidified Powders. (with M.A. Zaidi) pp.367-387 in 'High Strength Powder Metallurgy Alloys', publ. AIME, Warrington, Pa.
100. Effect of Preheat Time-Temperature Cycles on Development of Microstructure and Properties of Extrusions Prepared from Al-Fe-Mn Rapidly Solidified Powders (with M.A. Zaidi), *Materials Science and Technology*, 1986, 2, pp.69-77.
101. Extrusion Behaviour and Mechanical Properties of Three Rapidly Solidified Al-Mg-Transition Element Powder Alloys (with G.J. Marshall and E.K. Ioannidis), *Powder Metallurgy*, 1986, 29, 1, pp.57-64
102. **Aluminium Technology '86.** T. Sheppard, Editor, publ. 1986, Institute of Metals, London.
103. Development of Subgrain Morphology and Texture in Multi-Pass Rolling of Aluminium (with P.A. Hollinshead), in 'Aluminium Technology '86' (ed. T. Sheppard, March 1986, publ. 1986, Institute of Metals, London., pp.317-327
104. Hot Worked and Annealed Microstructures in Al-Mg Alloys (with N. Raghunathan), in 'Aluminium Technology '86', publ. 1986, Institute of Metals, London., pp.357-372
105. Surface Generation and Origin of Defects During Extrusion of Al-Alloys (with M.P. Clode), in 'Aluminium Technology '86', publ. 1986, Institute of Metals, London, pp.230-240.
106. Microstructure and Extrusion Characteristics of PM Alloys 7090 and 7091 (with R.D. Parkinson), *Powder Met.*, 29, (2), pp.135-141, 1986
107. Process-Structure Relationship of Extrusions Produced from Rapidly Solidified Al-Mg-Mn Powders (with G.H. Tan), *Powder Met.*, 29, (2), pp.143-151, 1986
108. Structural Development During Production of Tubes from Rapidly Solidified Aluminium Alloy Powder (with G.J. Marshall), *Mat.Sci. & Tech.*, June 1986, 2, pp.611-619
109. Roping Phenomena in Ferritic Stainless Steels (with P. Richards), *Mat.Sci*

- & Tech., 1986, 2, p.641
110. Recrystallisation Kinetics of Al-Mg Alloys AA 5056 and AA 5083 after Hot Deformation (with N. Raghunathan), *Mat.Sci. & Tech.*, 1986, 2, pp.938-946
 111. The Constitutive Relationship and Structural Characteristics of Two Ferritic Stainless Steels Deformed in Torsion and Rolling (with P.Richards), *Mat. Sci. & Tech.*, 1986, 2, pp.841-846
 112. Partitionless Structures in Al-Mg-Mn Powders (with M.A. Zaidi), *Journal Rapid Solidification Technology*, 1986, 2, 199-204
 113. The Effect of Extrusion Parameters on the Properties of Some Rapidly Solidified Al-Mg Powder Alloys (with G.H. Tan), *Mat. Sci. & Tech.*, 1986, 2, 1233-1237
 114. A Comparison of a Viscoplastic Finite Element Model with Slip-Line Field and Upper Bound Solutions for Non-Hardening Materials Subjected to Plane Strain and Axi-Symmetric Extrusion (with J.H. Bianchi), *J.Mech.Phys.Sol.*, 1987, 29, 61-81
 115. Development of Structure and Effect of Processing Parameters on Strength-Structure Relationships for Two Ferritic Stainless Steels (with P.Richards). *Mat.Sci. & Techn.*, 1986, 2, pp.836-840
 116. Microstructure of Rapidly Solidified Al-Fe-Mn Alloys (with M.A. Zaidi), *Mat.Sci. & Techn.*, 1987, 3, 146-148
 117. Microstructural Characterization of a Rapidly Solidified Al-Mg-Mn Powder Alloy (with G.J. Marshall, E.K. Ioannidis), *Met. Trans. A.*, vol.18A, March 1987, pp.407-416
 118. Effect of Thermomechanical Process on As-Extruded and Solution Soaked Structures of Al-Cu-Mn Alloys (with R.P. Vierod), *Mat.Sci. & Techn.*, 1987, 3, 285-290
 119. Structural and Substructural Observations during Thermomechanical Processing of Two Ferritic Stainless Steels (with P. Richards), *J.Mat.Sci.*, 1987, 22, 1642-1650
 120. Corrosion Resistance of Al-Li Alloys (with N.C. Parson), *Mat.Sci. & Techn.*, 1987, 3, 345-352
 121. Extrusion Processing of an Al-Li-Cu-Mg-Zr Alloy AA 2091 (with M.J. Tan), *proc. 4th Int. Al-Li Conf.*, Paris, June 1987, pp.209-218
 122. Extrusion of an Al-Li-Zr Alloy Prepared from Atomized Powder (with M.S. Mahmoud, H.B. McShane), *proc. 4th Int. Al-Li Conf.*, Paris, June 1987, pp.327-334
 123. Variation in Structure and Properties in an Al-Li-Cu-Mg-Zr Alloy Produced by Extrusion Processing (with A.K. Mukhopadhyay, H.M. Flower), *proc. 4th Int. Al-Li Conf.*, Paris, June, 1987, pp.219-228
 124. Structure Morphology in Aluminium Alloys AA 3003 and AA 3004 (with P.A. Hollinshead), *Mat.Sci. & Techn.*, vol.3, Dec.1987, pp.1019-1024
 125. Extrusion Processing of Aluminium Alloys, *proc. 8th Int. Light Metals Congress*, Leoben - Vienna, 1987, pp.301-311.
 126. Effect of Processing Variables on the Properties of Al-Li-Cu-Mg-Zr Alloys AA 2091 and AA 8090 Produced by Extrusion, (with A.K. Mukhopadhyay, M.J. Tan and H.M. Flower), *proc. 4th Int. Aluminium Extrusion Technology*

- Seminar, April 1988, Chicago, U.S.A., pp.161-177
127. The Origin of Surface Defects During Extrusion of AA 6063 Alloy, (with M.P. Clode), proc. 4th Int. Aluminium Extrusion Technology Seminar, April 1988, Chicago, U.S.A., pp.329-341
 128. Fabrication and Properties of RSP Based Metal Matrix Composites, (with N. Raghunathan, H.B. McShane), proc. 'Advancing with Composites', Int. Conf. on Composite Materials, Milan, Italy, May 1988, pp.787-796
 129. Structural Inhomogeneity During Production and Processing of Rapidly Solidified Al-6Mg-5Fe Alloy, (with E.K. Ioannidis and G.J. Marshall), Journal of Materials Science, 1988 (23), pp.1486-1495
 130. Extrusion Processing of Conventional Aluminium Alloys, Al-Li Alloys and Alloys Prepared from Rapidly Solidified Powders, Proc. Fintech Seminar, 'Industrial Applications of New Materials', Bedford, England, 1987.
 131. Press Quenching of Aluminium Alloys, Mat.Sci. & Techn., 1988, 4, pp.635-643.
 122. Extrusion Processing of Al-Li-Mg-Zr Alloy, (with N.C. Parson), Mat.Sci. & Techn., 1988, 4, pp.816-823.
 133. Deformation Characteristics of Ti-6Al-4V, (with J. Norley), Mat.Sci. & Techn., 1988, 4, pp.903-908.
 134. Experimental and Analytical Comparison of Interface and Internal Variables in Cold Rolling, (with R.W. Bruce, M.E. Karabin, S. Panchanadeeswaran, L.A. Lalli, O. Richmond, M.L. Devenpeck, S.C-Y. Lu), Proc. Materials in Manufacturing Processes, publ. ASME, (New York), 1988, pp.49-57
 135. Microstructure and Properties of Extruded Al-6Mg-3Cr Alloy Prepared from Rapidly Solidified Powder, (with E.K. Ioannidis and G.J. Marshall), Mat.Sci. & Techn., 1989, 5, pp.56-64
 136. Evolution of Structure in Roll Gap when Rolling Aluminium Alloys (with N. Raghunathan), Mat.Sci. & Techn., 1989, 5, pp.194-201
 137. Modification of Cast Structures in Al-Mg Alloys by Thermal Treatments, (with N. Raghunathan), Mat.Sci. & Techn., 1989, 5, pp.268-280
 138. Thermomechanical Treatments of an Extruded Al-Li Alloy (with M.J. Tan), proc. Fifth Aluminium-Lithium Conf., Williamsburg, Virginia, March 1989, ed. T.H. Sanders Jr. & E.A. Starke, Jr., publ. MCPE, Birmingham, pp.233-260
 138. Extrusion Processing of Al-Li-Zr RSP Alloys with Differing Lithium and Zirconium Contents (with H.B. McShane and M.S. Mahmoud), proc. Fifth Aluminium-Lithium Conf., Williamsburg, Virginia, March 1989, ed. T.H. Sanders Jr. & E.A. Starke, Jr., publ. MCPE, Birmingham, pp.287-303
 139. On the Properties of Al-Li-Cr and Al-Li-Zr Rapidly Solidified Powder Alloys (with H.B. McShane and M.S. Mahmoud), in Rapid Solidification Processing and Technology, (Editors O.N. Mohanty and C.S. Sivaramakrishnan), Trans.Tech. Publ., Switzerland, 1989, pp.319-341
 140. Characteristics of an Al-6Fe-2Mo Alloy Prepared from RS Powders (with A.J.S. Chowdhury), in Rapid Solidification Processing and Technology, (Editors O.N. Mohanty and C.S. Sivaramakrishnan, Trans.Tech.Publ., Switzerland, 1989, pp.263-275
 141. Extrusion Processing and Properties of an Al-Li Alloy (with M.J. Tan), proc.

- Int.Conf. on Evolution of Advanced Materials, Milan, Italy, May\31st - June 2nd 1989, publ.AIM & ASM, pp.199-223
142. Extrusion Processing of Al-Li-Cr and Al-Li-Zr Alloys with Differing Lithium Contents (with H.B. McShane and M.S. Mahmoud), proc. Int.Conf. on Evolution of Advanced Materials, Milan, Italy, May 31st - June 2nd 1989, publ. AIM & ASM, pp.181 - 198
 143. On Property Process Relationships when Extruding AA 2024 Alloy (with H.B. McShane and J. Subramaniyan), proc. Int. Conf. on Evolution of Advanced Materials, Milan, Italy, May 31st - June 2nd,1989, pp.111 - 130
 144. Structures and Properties of Rapidly Solidified Al-Fe-Mo Powder Alloys (with A.J.S. Chowdhury), proc. Int.Conf. on Evolution of Advanced Materials, Milan, Italy, May 31st - June 2nd, 1989, pp.101 - 110
 145. Microstructural Development During Annealing of Hot Rolled Al-Mg Alloys (with N. Raghunathan), *Mats.Sci. & Techn.*, 1989, 5, pp.542-547
 146. Development of Rolling Textures in Aluminium Alloy 3004 Subjected to Varying Hot-Rolling Deformation (with P.A. Hollinshead), *Met.Trans.A.*, 20A, 1989, pp.1495-1507
 147. Rapidly Solidified Aluminium Alloys : The Atomizing Route, Its Products and Their Applications (with A. Unal), paper read at Rapid Solidification Processing, The Technology and Business Opportunities, 1st/2nd June 1989, London, IBC Technical Services Ltd.
 - 148 Influence of Oxygen on Morphology and Oxide Content of Gas Atomized Aluminium Powders (with A. Unal and S. Ozbilen), *Proc. Intl. Symposium on the Physical Chemistry of Powder Metals Production and Processing*, October 1989, St. Mary's, U.S.A.
 149. Lateral Spread during Slab Rolling (with N. Raghunathan), *Mats. Sci. & Techn.*, 1989, 5, pp.1021-1026
 150. Microstructure and Properties of Extruded Al-Li-Cr Alloy Prepared from Atomised Powder (with H.B. McShane and M.S. Mahmoud), *Mats. Sci. & Techn.*, 1990, 6, pp.161-169
 151. Microstructural Observations in the Ultramicrotomed Sections of Rapidly Solidified Light Engineering Materials (with A.J.S. Chowdhury and A. Freundlich), *Materials Letters*, 1990, 9 (4), pp.136-141
 152. Structure, Anisotropy and Properties of Hot Rolled AA 5083 Alloy (with H.B. McShane and C.P. Lee), *Mats. Sci. & Techn.*, 1990, 6, pp.428-440
 153. Development of Microstructure in AA 8090 Alloy Produced by Extrusion Processing (with A.K. Mukhopadhyay and H.M. Flower), *Mats. Sci. & Techn.*, 1990, 6, pp.461-468
 154. Microstructural Characteristics of Three RS Aluminium Alloys : Al-4Cr-1Fe, Al-6.43Cr-1.67Zr and Al-5Cr-2Zr (with E.K. Ioannidis), *Mats.Sci. & Techn.*, 1990, 6, pp.528-534
 155. Processing and Properties of High Temperature Application Al-Fe-Mo Based Alloys Prepared from Rapidly Solidified Powder (with A.J.S. Chowdhury), *Mats. Sci. & Techn.*, 1990, 6, pp.535-542
 156. Fabrication and Properties of Rapidly Solidified Magnesium and Mg-Si Alloys (with N. Raghunathan), *Mats.Sci. & Techn.*, 1990, 6, pp.629-640
 157. Processing and Properties of an Al-9.5Fe-1.6V Rapidly Solidified Powder

- Alloy (with A.J.S.Chowdhury) Aluminium Alloys '90 Proc. ICCA2 Beijing 1990 pp.117-121 publ.International Academic Publishers Beijing.
158. Preparation of Al-Li-Zr-Mg-Cu Alloys Produced by Rapid Solidification (with X.Yin and E.K.Ioannadis) Aluminium Alloys '90 Proc.ICCA2 Beijing 1990 pp.108-123 publ. International Academic Publishers Beijing.
- 158.The structure Property Relationship in an Enhanced Al-Zn-Mg-Cu Alloy and it's Composites (with N.Raghunathan and C.J.Davies) Aluminium Alloys '90 Proc.ICCA2 Beijing 1990 pp.208-213 publ. International Academic Publishers Beijing.
160. On Property Process Relationships when Extruding AA 2024 Alloy (with H.B.Mcshane, N.Raghunathan and J Subramaniyan) Aluminium Alloys '90 Proc.ICCA2 Beijing 1990 pp.325-337 publ. International Academic Publishers Beijing.
161. The Extrusion of Aluminium Alloys ; A Thermo-mechanical Process. Aluminium Alloys '90 Proc.ICCA2 Beijing 1990 pp.744-755 publ. International Academic Publishers Beijing.
162. Influence of Powder Metallurgical Processing on Production and Properties of Rapidly Solidified Al-5Cr-2Zr,Al-6.43Cr-1.67Zr and Al-4Cr-1Fe Extrudates(with E.K.Ioannidis) Mats. Sci. & Tech. 1990 6 pp.749-754
163. An Overview of Structure and Property Evolution during Thermal and Mechanical Processing of an Al-Mg alloy(5083). (with N.Raghunathan, H.B.McShane, And C.P.Lee) "Hot Deformation of Aluminium Alloys" Proc.Symp.Detroit ,Michigan, Oct. 8th-10th 1990 Publ.TMS 1991pp.389-417.
164. The Effect of Thermal Treatments on the Processing of 2014 Alloy.(with N.Raghunathan)"Hot Deformation of Aluminium Alloys" Proc.Symp.Detroit ,Michigan, Oct. 8th-10th 1990 Publ.TMS 1991pp.441-473.
- 165 Powder Metallurgy Aluminium Alloys; Characteristics of an Al-Cr-Fe Rrapidly Solidified Alloy (with E.K.Ioannidis) J. Matls.Sci. 1990 25 pp.3965-3975.
- 166.Fabrication and Properties of Rapidly Solidified Powder-based High-temperature Application Light-Alloy Composites.(with N.Raghunathan, H.B.Mcshane, and C.J.Davies).J. Matls.Sci. 1990 25 pp.4906-4913.
167. Formation of Die Lines During Extrusion of AA 6063 (with M.P.Clode.) Mats. Sci. & Tech. 1990 6 pp.755-763.
- 168.Influence of Billet Processing on Properties of Extruded Aluminium Alloy.(with X.Yin and N.Raghunathan) Mats. Sci. & Tech. 1991 7 pp.341-352.
- 169.T.Sheppard, S.Ozbilen and A.Unal Influence of Superheat on Particle Shape and Size of Gas Atomised Copper Powders. Powder Met. 1991 34 pp.53-61
- 170.T.Sheppard, X.Yin and H.B.McShane The effect of Transition Elements (Ti,Mn) and Processing Parameters on the Mechanical Properties of Al-2.5Li-X P/M Alloys Proc.ISFTA'91 Los Angeles CA 11-15th November 1991.
171. T.Sheppard and M.P.Clode Material Flow and Microstructural Development During Extrusion of 6063 Proc. 5th Int. Al. Ext.Techn. Seminar Chicago May 1992 pp.79-101 publ. Aluminium Assoc. Washington DC.
172. T.Sheppard and M.P.Clode The Development of Microstructure and the Consolidation of RSP Alloys in Conform Extrusion Proc. 5th Int. Al. Ext.Techn. Seminar Chicago May 1992 pp.427-439 publ. Aluminium Assoc. Washington DC.
173. T.Sheppard, S.Kumar and H.B.McShane. The development of a Medium Strength Alloy Based on the

Aluminum-Lithium-Magnesium System Proc. 5th Int. Al. Ext. Techn. Seminar Chicago May 1992 pp.439-447 publ. Aluminium Assoc. Washington DC.

174. T. Sheppard and R. Dashwood Extruded Aluminium Alloys Produced from the Powder Phase Proc. 5th Int. Al. Ext. Techn. Seminar Chicago May 1992 pp.455-467 publ. Aluminium Assoc. Washington DC.

175. R. Dashwood and T. Sheppard Development of Microstructure During Extrusion of Rapidly Solidified Al-7Mg-2Cr Alloy Mats. Sci. & Tech. 1992 8 pp.455-467

176. R. Dashwood and T. Sheppard Development of Microstructure During Extrusion of Rapidly Solidified Al-7Mg-2Cr Alloy. Mats. Sci. & Tech. 1992 8 pp.455-467

177 T. Sheppard and A. Unal Influence of Superheat on Particle Properties of Gas Atomised Al-5Li Powders. Powder Met. 1993 36 pp.93-101

178. Characterisation of Two Al-Fe Based High Temperature Alloy Powders (with K.N. Ramakrishnan, H.B. McShane and E.K. Ioannidis) Mats. Sci. & Tech 1992 8 pp.709-715.

179 Microstructural Development During the Consolidation of an Inert Gas Atomised Al-7Mg-1Zr Powder Alloy (with R. Dashwood) Mats. Sci. & Tech. 1993 9 pp.483-492.

180. Microstructure and Property Development in low density Rapidly Solidified Al-Li Alloys (with D. Sampath, R. Dashwood and H.B. McShane) Mats. Sci. & Tech. 1993 9 pp.218-227.

181. On the δ PSD Developed During the Early Stages of Ageing (with D. Sampath, R. Dashwood and H.B. McShane) Acta. Met. 1992 in Print.

182. The Effect of Consolidation Temperature on the Mechanical Properties of Rapidly Solidified Al-7Mg-1Zr Alloy (with R. Dashwood) Mats. Sci. & Tech. 1993 9 pp.678-685

183. The Development of Microstructure, Properties and Texture During the Rolling of an Al-7Mg-1Mn Gas Atomised Powder Alloy (with R. Dashwood) Mats. Sci. & Tech. 1993 9 pp.785 – 792

184. Quantitative and Qualitative Aspects of Crack Propagation in Some Al-Li Alloys (with D. Sampath, R. Dashwood and H.B. McShane) Acta Met. 1992 In Print.

185. The Extrusion of AA2024 Alloy Mats. Sci. & Tech. 1993 9 pp.430-440.

186. Strengthening Mechanisms in Al-3.5Li Powder Alloys (with D. Sampath, R. Dashwood and H.B. McShane) Scripta Met. 1992 In Print.

187. The Role of Zr on the δ Precipitation Kinetics in Al-Li-X Alloys (with D. Sampath, R. Dashwood and H.B. McShane) Scripta Met. 1992 In Print.

188. Investigation of Mechanical Properties of Advanced Al-Zn-Mg-Cu Alloy (with C.H. Davies and N. Raghunathan.) Mats. Sci. & Tech. 1992 8 pp.862-868.

189. Serrated Yielding in Al-Li Alloys (with S. Kumar and H.B. McShane.) Scripta Met. 1993 28 pp.1149-11546

190. The Influence of Low Additions of Copper on the properties of an Al-Li-Mg-Zr Alloy (with S. Kumar and H.B. McShane.) Mats. Sci. & Tech. 1993, 9, pp.1101-1105

191. A Comparison of Compression and Torsion Testing to Obtain Steady-State Constitutive Equations for 7075 Alloy (with A. Jackson) Zeit Metall. 1994 84 570 - 592

192. Extrusion Processing Parameter-Mechanical Property Correlations in

Rapidly Solidified Al-6.7Fe-5.9Ce and Al-6.2Fe-1.63Si(wt%) Alloy Powders.(with K.N.Ramakrishnan and H.B.McShane) Mats. Sci. & Tech. 1993 9 pp104-113.

193. Procesbeheering van Extrusie.(with W.van Rijswijk and L.Tack) Metalen 1993 6 pp29-33.

194. Extrusion Limit Diagrams Containing Structural and Topological Information for 6063 Aluminium Alloy.(With M.P.Clode.) Mats. Sci. & Tech. 1993 9 pp313-318.

197. Effect of Extrusion parameters on the Microstructure and Properties of an Al-Li-Mg-Zr Alloy (with S.Kumar and H.B.McShane.) J. Mat. Sci. 1994,29,pp1067-1074.

198. A.Jackson and T.Sheppard. Structural Modifications Occurring During the Homogenisation of Some 7xxx Alloys. Proc. 6th Int. Al. Ext.Tech. Seminar Chicago May 1996 pp.541- publ. Aluminium Assoc. Washington DC.

199. T.Sheppard and S.Kumar. Extrusion of Some Al-Li-Mg-Zr Alloys. Proc. 6th Int. Al. Ext.Tech. Seminar Chicago May 1996 pp.393- publ. Aluminium Assoc. Washington DC.

200. A.Jackson and T.Sheppard. Observation on Production and Limit Diagrams Relating to the Extrusion of 7XXX Aluminium Alloys. Proc. 6th Int. Al. Ext.Tech. Seminar Chicago May 1996 pp.209-217 publ. Aluminium Assoc. Washington DC.

202. T.Sheppard. On the relationship Between Extrusion Conditions and Fracture Toughness. Proc. 6th Int. Al. Ext.Tech. Seminar Chicago May 1996 pp.413-421 publ. Aluminium Assoc. Washington DC.

203. J.van Rijkom., Miller And T.Sheppard Improved Properties of Extruded Products by Heat Treatment of AA6082 Sections, Proc. 6th Int. Al. Ext.Tech. Seminar Chicago May 1996 pp.149-156 publ. Aluminium Assoc. Washington DC.

204 R.J Dashwood,H B McShane and T.Sheppard.,Computer Prediction of Extrusion Limit Diagrams Proc. 6th Int. Al. Ext.Tech. Seminar Chicago May 1996 pp.331-339 publ. Aluminium Assoc. Washington DC.

205. T. Sheppard and R. J. Dashwood Microstructural Evolution During Extrusion of Low Density Al-Alloys Prepared from Rapidly Solidified Powders. Proc. 6th Int. Al. Ext.Tech. Seminar Chicago May 1996 pp.403-413 publ. Aluminium Assoc. Washington DC.

206. T.Sheppard. Development of structure, Recrystallisation Kinetics and Prediction of Recrystallised Layer thickness in Some Al-Alloys. Proc. 6th Int. Al. Ext.Tech. Seminar Chicago May 1996 pp.163-171 publ. Aluminium Assoc. Washington DC.

207. T.Sheppard and A. Jackson. Flow Stress Parameters During the Extrusion of

Aluminium Alloys Proc. 6th Int. Al. Ext.Techn. Seminar Chicago May 1996 pp.223-229 publ. Aluminium Assoc. Washington DC.

208. Extrusion Limit Diagrams; Effect of Homogenising Conditions and Extension to Productivity Analysis(with A.Jackson) Mats. Sci. & Tech. 1997,13,pp61-68.

209. Constitutive Equations for use in Prediction of Flow Stress during Extrusion of Aluminium Alloys. (with A.Jackson) Mats. Sci. & Tech. 1997,13,pp203-210.

210. T.Sheppard On the Relationship between Extrusion Conditions, Mechanical Properties and Surface Acceptability in Some Hard Aluminium alloys. Proc. 3rd World Cong. Aluminium, Limassol Cyprus May 1997, pp21-63. publ. Interall, Milan, Italy 1997.203

211.T.Sheppard, E.Nisaratanaporn and H.B.McShane; Material Flow and Pressure Prediction when Extruding through Bridge Dies; Zeit. fur Metall. 1998(5), 89,327

212. T.Sheppard, Temperature changes occurring during the extrusion of metals, Mats. Sci. & Tech. 1999,115,459-463.

213.T.Sheppard, Extrusion of Aluminium Alloys. Major Text. Kluwer Academic Press, Boston U.S.A.,; Dordrecht, The Netherlands 1999, ISBN 041259070 0

214 R.J.Dashwood, R Thackeray, H B McShane and T.Sheppard., Simulation of the Effect of Tooling and Billet Condition on Bulk and Surface Metal Flow during Extrusion., Proc. 7th Int. Al. Ext.Techn. Seminar Chicago May 2000 pp.213-223 publ. Aluminium Assoc. Washington DC.

215 W. van Rijswijk.T.Sheppard and L.Tack., Semi-Emprical Modelling of Multiple-Hole Extrusion on a 5000T Indirect Extrusion Press. Proc. 7th Int. Al. Ext.Techn. Seminar Chicago May 2000 pp.213-223 publ. Aluminium Assoc. Washington DC.

216 I.Flitta and T.Sheppard., FEM Prediction of Material Flow and Extrusion Pressure When extruding Through Bridge 'Dies Proc. 7th Int. Al. Ext.Techn. Seminar Chicago May 2000 pp.141-147 publ. Aluminium Assoc. Washington DC.

217 I.Flitta and T, Sheppard., On the Mechanics of Friction during the Extrusion Process., Proc. 7th Int. Al. Ext.Techn. Seminar Chicago May 2000 pp.197-203 publ. Aluminium Assoc. Washington DC.

218 T.Sheppard., On the Relationship between Extrusion conditions, Mechanical Properties and Surface acceptability in some Hard Aluminium alloys, Proc. 7th Int. Al. Ext.Techn. Seminar Chicago May 2000 pp.307-321 publ. Aluminium Assoc. Washington DC.

219 X.Velay and T.Sheppard., Plane Strain and Three Dimensional Coupled

Thermomechanical Simulation of the Conform Process., Proc. 7th Int. Al. Ext.Tech. Seminar Chicago May 2000 pp.505-517 publ. Aluminium Assoc. Washington DC.

220 X.Velay and T.Sheppard. Axisymmetric Modelling of Aluminium Extrusion through an Expansion Chamber, Proc. 7th Int. Al. Ext.Tech. Seminar Chicago May 2000 pp. 533-540 publ. Aluminium Assoc. Washington DC.

221. T.Sheppard, Factors Involved in the Extrusion of Hard Aluminium Alloys. Aluminium Trans.2000,3,77-93

222. X.Duan and T. Sheppard. Prediction of temperature evolution during multi-pass hot flat rolling of aluminium alloys. Modelling and Simulation in Mat Sci and Eng. 9(6), 2001, 525-538

223. X. Duan and T. Sheppard Shape Optimisation of a V-shaped Anvil by use of FEA Software. Journal of Material Processing 120(1-3), 2002, 426-431.

224. X.Duan and T. Sheppard. Three Dimensional Thermal Mechanical Coupled Simulation During Hot Rolling of Aluminium Alloy 3003.Int.J.Mech.Sci. 2002,44,2155-2172.

225. X.Duan and T. Sheppard. . Modelling of subgrain evolution of aluminium alloys under hot working conditions. *Aluminum Transactions*. 5 (1), 2002.

261..X.Duan and T. Sheppard Lateral deformation during the hot flat rolling of aluminium alloys. *Mats. Sci. & Tech.* 18 (6), 2002, 615-620.

227. X. Duan and T.Sheppard. Simulation of substructure strengthening in hot flat rolling. *Journal of Material Processing Technology* 125/126, 2002, 181-189

228. I.Flitta and T.Sheppard. Simulation of bridge die extrusion using the finite element method. *Materials Science and Technology*. Vol.18, 2002,987-994.

229. X.Duan and T.Sheppard. Dimensional control during hot flat rolling of aluminium alloys by integrating FEM and the taguchi experimental design method. Proceedings of the 6th Annual International Conference on Industrial Engineering – Theory, applications and Practice, San Francisco, CA, USA, November 18-20, 2001.

230. X.Duan and T.Sheppard. Temperature and microstructure variation during rolling of aluminium slabs. The 9th International Conference on Metal Forming.

231. X. Duan and T. Sheppard. New spread formula for hot flat rolling.. *The 5th international ESAFORM conference on material forming*. M. Pietrzyk, Z. Mitura and J. Kaczmar (editors). April 14-17, 2002, Krakow, Poland. 375-378.

232.Flitta and T. Sheppard. Investigation of friction during the extrusion of Al-alloys using FEM simulation. . *The 5th international ESAFORM conference on material forming*. M. Pietrzyk, Z. Mitura and J. Kaczmar (editors). April 14-17, 2002, Krakow, Poland. 435-438.

233.X.Duan and T. Sheppard. Three dimensional simulation of subgrain size evolution during hot rolling of commercial purity aluminium alloy. In: *Advances in Concurrent Engineering*. R. Goncalves, R. Roy and A. Steiger-Garcaio (eds). A.A.Balkema Publishers. 2002. p227-234.

234.X. Duan and T. Sheppard. Influence of forming parameters on static recrystallisation behaviour during hot rolling aluminium alloy 5083. *Modelling and Simulation in Materials Science and Engineering*. 10 (4), 2002, 363-380.

235.T. Sheppard and X. Duan. A new spread formula for hot flat rolling of aluminium alloys. *Modelling and Simulation in Materials Science and Engineering* 2002,10,597-610

236.T. Sheppard and X. Duan. Modelling of static recrystallisation by combining FEM with empirical method. *Journal of Materials Processing Technology*.2002,130/131, pp250-253).

237.X. Duan and T. Sheppard. Influence of forming parameters on the final subgrain size during hot rolling of aluminium alloys. *Journal of Materials Processing Technology*. 2002,130/131, pp245-249.

- 238.X.Duan and T. Sheppard. The influence of die shape on the behaviour of surface recrystallisation. *TMS Annual Meeting 2003: Hot Deformation of Aluminum Alloys*. J. Zhe et al. (eds). pp 110-117 publisher ASM
- 239.T.Sheppard and X. Duan. Formation of extrudate surface. . *TMS Annual Meeting 2003: Hot Deformation of Aluminum Alloys*. J. Zhe et al. (eds). pp 53-62 publisher ASM
- 240.Duan and T.Sheppard. Three dimensional thermal mechanical coupled simulation during hot rolling of aluminium alloy 3003. *Int.J.Mech.Sci*, 2003,44[10], pp 2155 - 2172.
241. X. Duan and T.Sheppard. Modelling of Static Recrystallisation by the combination of empirical models with the finite element method. *Journal of Material science*. 2003,38,pp1747-1754.
242. T. Sheppard and X. Duan Modelling of static recrystallisation by the combination of empirical models with the finite element method. *Journal of Material Sciences*. 2003,38,1747-1754
- 243.T. Sheppard and X. Duan . Computation of substructural strengthening by the integration of metallurgical models into finite element code. *Computational Materials Science*. 2003,27,250-258
- 244.X Duan and Terry Sheppard. Simulation and control of microstructure evolution during hot extrusion of aluminium alloys. *Material Sciences and Engineering A* 2003,351,282-292
- 245.I. Flitta and T. Sheppard. On the nature of friction in the extrusion process and its effect on material flow. *Materials Science and Technology*. 2003,19,837-846
246. T. Sheppard and X. Duan. Modelling of static recrystallisation by the combination of empirical models with the finite element method. *Journal of Material Sciences*. (2003,38,1747-1754).
- 247 X. Duan and T. Sheppard. The Influence of the constitutive equation on the finite element analysis of metal forming. *Finite Element in Analysis and Design*. 2003,23,98-105
248. X. Duan, X.Velay and T. Sheppard. Application of Finite Element Method in Hot Extrusion of Aluminium Alloys. *Material Sciences and Engineering A* 2004 (in press)
249. X.Velay, X. Duan, and T. Sheppard.Prediction of Material Flow Pattern in the Hot Extrusion of Aluminium Alloys by the Finite Element Method. *Materials Science Forum*. 426(4), 2003. 3807-3812
250. X. Duan and T. Sheppard. The Influence of Die Shape on the Mechanics of Static Recrystallisation. *Hot Deformation of Aluminium Alloys* (((Eds. Z.Jin, A.Beaudoin, T.Bieler) proc. Conf. March 2nd-6th 2003 San Diego, USA publ TMS.
251. X. Duan and T. Sheppard. Formation of Extrudate Surface. *Aluminium Alloys* ((((Eds. Z.Jin, A.Beaudoin, T.Bieler) proc. Conf. March 2nd-6th 2003 San Diego, USA publ TMS.
252. Z.Pheng and T.Sheppard Individual Influence of Forming Parameters on Surface Recrystallisation during Aluminium Extrusion *Modelling and Simulation in Materials Science and Engineering* 12(2004), 2004,43-57
253. X. Duan and T. Sheppard. Formation of Extrudate Surface. *Aluminium Alloys* ((((Eds. Z.Jin, A.Beaudoin, T.Bieler) proc. Conf. March 2nd-6th 2003 San Diego, USA publ TMS.
254. Z.Peng and T.Sheppard. Multi-Hole Extrusion *Material Sciences and Engineering A* 367, 2004, 329- 342
- 255.Z. Peng and T. Sheppard. Prediction of static recrystallisation during extrusion of aluminium alloy AA2024. 'Simulation in Industry'. **15th European Simulation Symposium**, 2003. Delft, the netherlands. pp 391-398.
256. Z. Peng and T. Sheppard. A Study on Surface Cracking in Extrusion of Aluminium Alloy AA2014. *Materials science and technology*.2004,20,1179-1191.
- 257 Z. Peng and T. Sheppard, Prediction of Static Recrystallisation during Shaped Extrusion. In: 8th International aluminium extrusion technology seminar, 17-21 May 2004 Orlando. Washington: Aluminium association and aluminium extruder councils, 1, 79-91.

258. T. Sheppard and Z. Peng., Application of FEM to Modeling of Multi-hole Die Extrusion. In: 8th International aluminium extrusion technology seminar, 17-21 May 2004 Orlando. Washington: Aluminium association and aluminium extruder councils, 1, 93-105.
259. Isaac Flitta and Terry Sheppard, Temperature Changes and their Effect on Deformation during Extrusion using FEM. In: 8th International aluminium extrusion technology seminar, 17-21 May 2004 Orlando. Washington: Aluminium association and aluminium extruder councils, 1, 269-283.
260. X. Velay, T. Sheppard and X. Duan, Prediction of material flow pattern in the hot extrusion of aluminium alloys by the finite element method. In: 8th International aluminium extrusion technology seminar, 17-21 May 2004 Orlando. Washington: Aluminium association and aluminium extruder councils, 2, 179-184.
261. T. Sheppard, X. Duan and X. Velay, Consideration of surface formation and cracking and control by isothermal extrusion; Simulation of These Factors by the Finite Element Method. In: 8th International aluminium extrusion technology seminar, 17-21 May 2004 Orlando. Washington: Aluminium association and aluminium extruder councils, 2, 209-220.
262. X. Duan, T. Sheppard and X. Velay, Prediction of flow stress and recrystallisation by the finite element method during the hot extrusion of aluminium alloys. In: 8th International aluminium extrusion technology seminar, 17-21 May 2004 Orlando. Washington: Aluminium association and aluminium extruder councils, 1, 149-158.
263. Isaac Flitta and Terry Sheppard. Prediction and control of substructure evolution during hot extrusion using Finite element Modelling. ESAFORM2004, Trondheim, Norway, April 28-30. pp. 597-600. publ. NUS&T
264. Isaac Flitta and Terry Sheppard. The Effect of Flow Stress on Extrusion Parameters ESAFORM 2004, Trondheim, Norway, April 28-30. pp. 617-620. publ. NUS&T
- 265 - Zhi Peng, Isaac Flitta, Terry Sheppard "Simulation of Multi-hole Die Extrusion by Finite Element Method" ESAFORM2004, Trondheim, Norway, April 28-30. pp. 605-608. publ. N.U. S&T
266. Z. Peng and T. Sheppard. A study on material flow in isothermal extrusion by FEM simulation. **Modelling and Simulation in Materials Science and Engineering**. 12, 2004, 745-76
267. Z. Peng, T. Sheppard and X. Velay. A Discussion on the Scaling Effect on Numerical Simulation of the Extrusion Process. **Materials science and technology**, 2004, 20, 1335-1339
- 268 Flitta I and T. Sheppard . **On the Material Flow During the Extrusion of Simple and Complex Cross-Sections Using FEM** Journal of .Material Science & Technology. **2005,21(3),648-656**
- 269 Flitta I and T. Sheppard . **The prediction and Control of Substructure Evolution by Finite Element Modelling**. Journal of .Material Science & Technology. **Submitted for publication.**
- 270 Flitta I and T. Sheppard. **The effect of Pressure and Temperature Variations on the FEM Prediction of Deformation During Extrusion**. Journal of .Material Science & Technology. **In print**
271. Z. Peng and T. Sheppard. Numerical simulation by FEM and Cellular Automata of static recrystallisation after hot extrusion and solution treatment of aluminium alloy. Accepted **Modelling and Simulation in Materials Science and Engineering**. 2007
- 272 Z. Peng and T. Sheppard. The effect of velocity and mesh sizes when modelling the industrial extrusion process, **Modelling and Simulation in Materials Science and Engineering**. 14, 2006, 57-72
- 273 Z. Peng and T. Sheppard. The Effect of Pocket Dies in Multi-hole Extrusion, **Material Sciences and Engineering A** 407(2005), 89-97
- 274 Variation in Structure and Properties in an Al-Li-Cu-Mg-Zr alloy Produced by Extrusion (with A.K. Mukhopadhyay and H.M. Flower) *J.de.Physique*, Tome 48, Suppl. 9, C3-219, 1987.
275. T. Sheppard. **Belov Medal Virtual Extrusion: the Scientific Method to increase Quality and Production** Acceptance address to the Russian Academy of Sciences. 14 June 2006.
276. T. Sheppard. **Prediction of Structure during Shaped Extrusion and Subsequent Static Recrystallisation During the Solution Soaking Process**. Keynote Address, Proc. 11th International Conference on Metal Forming, University of Birmingham. Published in *Journal of Materials Processing Technology*. 2006, 177/1-3, 26-35.
277. I. Flitta, T. Sheppard and Z. Peng. FEM analysis to predict development of structure during extrusion and subsequent solution soak cycle. *Journal of .Material Science & Technology*. **2007, 223, 582-592**

278 T.Sheppard and X.Velay. Keynote Address to 'Latest Advances in Extrusion Technology and Simulation in Europe and 2nd Extrusion Benchmark' 20-21st September 2007 Bologna Italy. Published Trans Tech Publications Ltd., Key Engineering Materials. 2007,367,pp25-38

279. T.Sheppard. Keynote Address Innovative Methodologies to Increase Productivity by Simulating Development of Structure During Extrusion and Solution Soaking: In 9th International aluminium extrusion technology seminar, May 2008 Orlando. Washington: Aluminium association and aluminium extruder councils, 1 38-54.

280 T.Sheppard and Z.Peng. Best paper at conference award. Control of Asymmetric Recrystallization in Single and Multi-Hole Die Extrusion. In 9th International aluminium extrusion technology seminar, May 2008 Orlando. Washington: Aluminium association and aluminium extruder councils, 1, 129-144.

281. T.Sheppard and X.Velay. Prediction and Control of Subgrain Size in the Hot Extrusion of Aluminum Alloys with Feeder Plates In 9th International aluminium extrusion technology seminar, May 2008 Orlando. Washington: Aluminium association and aluminium extruder councils, 1, 72-81.

282. L.Niu, T.Sheppard and X. Velay.Process optimization and metal Flow Analysis of Direct and Indirect Extrusion of Aluminium using FEM Simulation. The 6th International Conference on Manufacturing Research(ICMRA08) Brunel University September 2008

283.Flitta I and Sheppard T. Prediction of Substructure Influencing Static Recrystallisation Using FEM Ana284 Sheppard T, Velay X Innovative methodologies for the simulation of static recrystallisation during the solution soaking process of shaped extrusions Key Engineering Materials 367:25-38 2008

ysis. Steel Research International, 2010, 81(9):426-42

284 Sheppard T, Velay X Innovative methodologies for the simulation of static recrystallisation during the solution soaking process of shaped extrusions Key Engineering Materials 367:25-38 2008

285 Velay X, Sheppard T, Niu L Investigation of metal flow in bridge die extrusion of Alloy 6063 and subsequent effect on surface quality and weld seam integrity. Materials Science and Technology 2013 29(1):60-68

285 T.Sheppard and X.Velay. Keynote Address to 'Latest Advances in Extrusion Technology and Simulation in Europe and 2nd Extrusion Benchmark' 20-21st September 2007 Bologna Italy. Published Trans Tech Publications Ltd., Key Engineering Materials. 2007,367,pp25-38

286. T.Sheppard.Keynote Address Innovative Methodologies to Increase Productivity by Simulating Development of Structure During Extrusion and Solution Soaking: In 9th International aluminium extrusion technology seminar, May

During Direct Extrusion of Aluminium. , Material Sciences and Engineering A submitted 2008

287 T.Sheppard and Z.Peng. Best paper at conference award. Control of Asymmetric Recrystallization in Single and Multi-Hole Die Extrusion. In 9th International aluminium extrusion technology seminar, May 2008 Orlando. Washington: Aluminium association and aluminium extruder councils, 1, 129-144.

288. T.Sheppard and X.Velay. Prediction and Control of Subgrain Size in the Hot Extrusion of Aluminum Alloys with Feeder Plates In 9th International aluminium extrusion technology seminar, May 2008 Orlando. Washington: Aluminium association and aluminium extruder councils, 1, 72-81.

289. L.Niu, T.Sheppard and X. Velay.Process optimization and metal Flow Analysis of Direct and Indirect Extrusion of Aluminium using FEM Simulation. The 6th International Conference on Manufacturing Research(ICMRA08) Brunel University September 20

290.Flitta I and Sheppard T. Prediction of Substructure Influencing Static Recrystallisation Using FEM Analysis.Steel Research International.2010,81(9):426-42

291Sheppard T, Velay X **Innovative methodologies for the simulation of static recrystallisation during the solution soaking process of shaped extrusions** Key Engineering Materials **367:25-38** 2008

ysis. Steel Research International, 2010, 81(9):426-42

292 Sheppard T, Velay X **Innovative methodologies for the simulation of static recrystallisation during the** ysis. Steel Research International, 2010, 81(9):426-42

solution soaking process of shaped extrusions Key Engineering Materials **367:25-38** 2008

293 Velay X, Sheppard T, Niu L **Investigation of metal flow in bridge die extrusion of Alloy 6063 and subsequent effect on surface quality and weld seam integrity.** Materials Science and Technology 2013 29(1):60-

