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Prof A.G. Every - List of Publications

Every, Arthur George

2006-08-28
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LIST OF PUBLICATIONS: Professor A.G. Every

Patent

1. A.G. Every, *Heat Sinks*, South African Patent No. 91/0839, 5 February 1991.

Books

1. A.G. Every and A.K. McCurdy, *Second and Higher Order Elastic Constants of Crystals*, in Numerical Data and Functional Relationships in Science and Technology, Group III of Landolt Börnstein", ed. O. Madelung, Vol. **29a**, 743 pages (1992).

2. A.G. Every and W. Sachse, (Editors), *Dynamical Methods for Measuring the Elastic Properties of Solids*, Vol. **I** of *Handbook of the Elastic Properties of Solids, Liquids, and Gases*, (General Editors, M. Levy, H. Bass and D. Stern), Academic Press, 518 pages (2001).

Journal papers and book chapters

1. A.G. Every and D.S. Schonland, *A Donor Electron Orbital for Nitrogen in Diamond*, Solid State Commun. **3**, 205-207 (1965).

2. A.G.Every, *General Closed-Form Expressions for Acoustic Waves in Cubic Crystals*, Phys. Rev. Lett. **42**, 1065-1068 (1979).

3. A.G. Every, *General Closed-Form Expressions for Acoustic Waves in Elastically Anisotropic Solids*, Phys. Rev. **B22**, 1746-1760 (1980).

4. A.G. Every, *Ballistic Phonons and the Shape of the Ray Surface in Cubic Crystals*, Phys. Rev. **B24**, 3456-3467 (1981).

5. G.L. Koos, A.G. Every, G.A. Northrop and J.P. Wolfe, *Critical-Cone Channeling of Thermal Phonons at a Sapphire-Metal Interface*, Phys. Rev. Lett. **51**, 276-279 (1983).

6. M.E. Fisher, *Scaling, Universality and Renormalization Group Theory*, Springer Lecture Notes in Physics, Vol. **186** (1983) pps. 1-139. Draft manuscript prepared and text seen through to final form by A.G. Every.

7. A.G. Every, G.L. Koos and J.P. Wolfe, *Ballistic Phonon Imaging in Sapphire: Bulk Focusing and Critical-Cone Channeling Effects*, Phys. Rev. **B29**, 2190-2209 (1984).

8. D.C. Hurley, A.G. Every and J.P. Wolfe, *Ballistic Phonon Imaging of Diamond*, J. Phys. **C17**, 3157-3166 (1984).

9. A.G. Every and J.P. Wolfe, *Phonon Imaging*, in Physics News in 1983 (American Institute of Physics, 1983) pps 36-38. Article reprinted in Physics Today, (Jan,1984) p. S15.

10. A.G. Every and A.J. Stoddard, *Phonon Focusing in Cubic Crystals whose Transverse Phase Velocities Exceed their Longitudinal Phase Velocity in Some Direction*, Phys. Rev. **B32**, 1319-1322 (1985).

11. A.G. Every, *A Model for Calculating Surface Directivity Effects in Phonon Imaging*, Solid State Commun. **57**, 691-693 (1986).

12. A.G. Every, *Pseudosurface Wave Structures in Phonon Imaging*, Phys. Rev. **B33**, 2719-2732 (1986).

13. A.G. Every, *On the Formation of Phonon Focusing Caustics in Crystals*, Phys. Rev. **B34**, 2852-2862 (1986).

14. P.E. Ngoepe, J.D. Comins and A.G. Every, *Brillouin Scattering Measurements on LaF3 at High Temperatures*, Phys. Rev. **B34**, 8153-8156 (1986).

15. A.G. Every, *Acoustic Symmetry in Phonon Imaging*, J. Phys. **C20**, 2973-2982 (1987).

16. A.G. Every and A.K. McCurdy, *Phonon Focusing in Piezoelectric Crystals*, Phys. Rev. **B36**, 1432-1447 (1987).

17. A.G. Every, *Electroacoustic Waves in Piezoelectric Crystals: Certain Limiting Cases*, Wave Motion **9**, 493-497 (1987).

18. A.G. Every, *Effects of First Order Spatial Dispersion on Phonon Focusing: Application to Quartz*, Phys. Rev. **B36**, 1448-1456 (1987).

19. A.G. Every, *Classification of the Phonon Focusing Patterns of Tetragonal Crystals*, Phys. Rev. **B37**, 9964-9977 (1988).

20. A.G. Every, L.J. Challis, N.P. Hewett and J. Cooper, *Simulation of the Surface Temperature Profile of a Heated Slab-Shaped Sample in the Casimir Conduction Regime*, J. Phys. C: Condens. Matter **2**, 3659-3666 (1990).

21. N.P. Hewett, P.A. Russell, L.J. Challis, F.F. Ouali, V.W. Rampton, A.J. Kent and A.G. Every, *Hot Electron Effects and Phonon Emission from a 2-Dimensional Electron Gas (2DEG)*, Semiconductor Science and Technology **4**, 955-957 (1989).

22. K.Y. Kim, W. Sachse and A.G. Every, *On the Determination of Sound Speeds in Cubic Crystals and Isotropic Media Using a Broadband Ultrasonic Point-Source/Point-Receiver Method*, J. Acoust. Soc. Am. **93**, 1393-1406 (1993).

23. A.G. Every, W. Sachse, K.Y. Kim and M.O. Thompson, *Phonon Focusing in Silicon at Ultrasonic Frequencies*, Phys. Rev. Lett. **65**, 1446-1449 (1990).

24. A.G. Every and W. Sachse, *Determination of the Elastic Constants of Anisotropic Solids from Acoustic Wave Group Velocity Measurements*, Phys. Rev. **B42**, 8196-8205 (1990).

25. U. Karfunkel, T. Nam, R.J. Keddy and A.G. Every, *The Effects of Nitrogen Impurity on the Radiation Detection Properties of Synthetic Diamond*, Radiat. Effects and Defects in Solids **116**, 233-252 (1991).

26. A.G. Every and W. Sachse, *Focusing of Elastic Waves in Anisotropic Solids*, in Modern Theory of Anisotropic Elasticity and Applications, ed. J.J. Wu, T.C. Ting and D.M. Barnett, SIAM, pps. 301-309 (1991).

27. W. Sachse, A.G. Every and M.O. Thompson, *Impact of Laser Pulses on Composite Materials, in Impact Response and Elastodynamics of Composites*, ed. A.K. Mal and V. Rajapakse, Am. Soc. Mech. Eng., AMD-Vol.**116**, 51-62 (1990).

28. A.G. Every and W. Sachse, *Sensitivity of Inversion Algorithms for Recovering Elastic Constants of Anisotropic Solids from Longitudinal Wavespeed Data*, Ultrasonics **30**, 43-48 (1992).

29. A.G. Every and W. Sachse, *Imaging of Laser-Generated Ultrasonic Waves in Silicon*, Phys. Rev. **B44**, 6689-6699 (1991).

30. A.G. Every, Y. Tzou, D.P.H. Hasselman and R. Raj, *The Effect of Particle Size on the Thermal Conductivity of ZnS/Diamond Composites: Theory and Experiment*, Acta Metall. Mater. **40**, 123-129 (1992).

31. B. Castagnede, A.G. Every and W. Sachse, *Numerical Instability of Inversion Algorithms for Recovering Elastic Constants from Ultrasonic Velocities in Anisotropic Solids*, C. R. Acad. Sci. Paris, **t314**, Serie II, 865-871 (1992).

32. L. Glasser and A.G. Every, *Energies and Spacings of Point Charges on a Sphere*, J. Phys. A : Math. and Gen. **25**, 2473-2482 (1992).

33. A.G. Every, *Phonon Focusing in Reflection and Transmission*, Phys. Rev. **B45**, 5270-5275 (1992).

34. W. Sachse, A.G. Every and I. Grabec, *Quantitative Ultrasonic Measurements in Composite Materials, in Enhancing Analysis Techniques for Composite Materials*,

ed. L. Schwer, J.N. Reddy and A. Mal, Am. Soc. Mech. Eng., NDE - Vol. **10**, 77-88 (1991)

35. A.G. Every and V.I. Neiman, *Reflection of Electroacoustic Waves in Piezoelectric Solids: Mode Conversion into Four Bulk Waves*, J. Appl. Phys., **71**, 6018-6024 (1992).

36. A.G. Every and V.I. Neiman, *The Acoustic Ray Surface of Paratellurite*, S. Afr. J. Phys. **15**, 82-88 (1992).

37. A.G. Every, *Geometrical Factors in the Dispersion of Ballistic Heat Pulses*, Z. Phys. **B89**, 139-144 (1992).

38. A.G. Every, *Thermal Phonon Imaging*, in Die Kunst of Phonons, ed. T. Paszkiewicz and K. Rapcewicz, Plenum, pps. 55-72 (1994).

39. A.G. Every, K.Y. Kim and W. Sachse, *Phonon Imaging at Ultrasonic Frequencies: The Dynamic Response of Anisotropic Solids*, in Die Kunst of Phonons, ed. T. Paszkiewicz and T. Rapcewicz, Plenum, pps. 73-86 (1994).

40. K.Y. Kim, A.G. Every and W. Sachse, *Focusing of Fast Transverse Modes in (001) Silicon at Ultrasonic Frequencies*, J. Acoust. Soc. Am. **95**, 1942-1952 (1994).

41. K.Y. Kim, W. Sachse and A.G. Every, *Focusing of Acoustic Energy at the Conical Point in Zinc*, Phys. Rev. Lett. **70**, 3443-3446 (1993).

42. A.G. Every, *Determination of the Elastic Constants of Anisotropic Solids*, NDT&E International, **27**, 3-10 (1994). Expanded version of invited paper given at Pre-UI'93 Tutorial Day, Vienna (1993).

43. A.G. Every and K.Y.Kim, *Time Domain Dynamic Response Functions of Elastically Anisotropic Solids*, J. Acoust. Soc. Am. **95**, 2505-2516 (1994).

44. A.A. Maznev and A.G. Every, *Ray Surface and Focusing of Surface Acoustic Waves on the Basal Plane of Cubic Crystals*, Acta Acustica **1**,137-143 (1993).

45. A.A. Maznev and A.G. Every, *Secluded Supersonic Surface Waves in Germanium*, Phys. Lett. **A197**, 423-427 (1995).

46. K.Y. Kim, A.G. Every and W. Sachse, *Focusing of Quasitransverse Modes in Zinc at Ultrasonic Frequencies*, Int. J. Mod. Phys. **B8,** No. **17**, 2327-2352 (1994).

47. A.G. Every, *Phonons in Crystal Lattices*, Encyclopedia of Applied Physics, Vol. **13**, 439-458. VCH Publishers (1995). This 20 volume publication is sponsored by the Physical Societies of the USA, Germany and Japan. It contains approximately 550 review articles by leading World experts in their fields.

48. A.G. Every, *Displacement Field of a Point Force Acting on the Surface of an Elastically Anisotropic Half-space*, J. Phys. A: Math. Gen. **27**, 7905-7914 (1994).

49. P.R. Stoddart, J.D. Comins and A.G. Every, *Brillouin Scattering Measurements of Surface Acoustic Wave Velocities in Silicon at High Temperatures*, Phys. Rev. **B51**, 17574-17578 (1995).

50. A.G. Every, K. Hillmann, K.U. Wuerz, H. Hasselmann and W. Grill, *Phase Singularities in Scanning Acoustic Microscopy*, J. Acoust. Soc. Am. **98**, 3375-3382 (1995).

51. K.Y. Kim, A.G. Every and W. Sachse, *Determination of the Elastic Constants of Anisotropic Solids from Group Velocity Measurements in Symmetry Directions*, Int. J. Mod. Phys. **B10**, 235-246 (1996).

52. A.A. Maznev and A.G. Every, *Focusing of Acoustic Modes in Thin Anisotropic Plates*, Acta Acustica **3**, 387-391 (1995).

53. A.A. Maznev and A.G. Every, *Formation of Surface Phonon Focusing Caustics in Crystals*, Solid State Commun. **97**, 679-687 (1996).

54. K.Y. Kim, K.C. Bretz, A.G. Every and W. Sachse, *Ultrasonic Imaging of the Group Velocity Surface about the Cubic Axis in Silicon*, J. Appl. Phys. **79**, 1857-1863 (1996).

55. W. Pang, P.R. Stoddart, J.D. Comins, A.G. Every, D. Pietersen and P.J. Marais, *Elastic Properties of TiN Hard Films at Room and High Temperatures Using Brillouin Scattering*, Int. J. Refractory Metals and Hard Materials **15**, 179-185 (1997).

56. A.L. Shuvalov and A.G. Every, *Curvature of Acoustic Slowness Surface of Anisotropic Solids Near Symmetry Axes*, Phys. Rev. **B53**, 14906-14916 (1996).

57. A.L. Shuvalov and A.G. Every, *Shape of the Acoustic Slowness Surface of Anisotropic Solids near Points of Conical Degeneracy*, J. Acoust. Soc. Am., **101**, 2381-2383 (1997).

58. A.A. Maznev and A.G. Every, *Time Domain Dynamic Response of an Anisotropic Elastic Solid to an Impulsive Line Force*, Int. J. Eng. Science **35**, 321-327 (1997).

59. A.G. Every, K.Y. Kim and A.A. Maznev, *The Elastodynamic Response of a Semi-infinite Anisotropic Solid to Sudden Surface Loading*, J. Acoust. Soc. Am. **102**, 1346-1355 (1997).

60. A.G. Every, A.A. Maznev and G.A.D. Briggs, *Surface Response of a Fluid Loaded Anisotropic Solid to an Impulsive Point Force: Application to Scanning Acoustic Microscopy*, Phys. Rev. Lett. **79**, 2478-2481 (1997).

61. A.G. Every, K.Y. Kim and A.A. Maznev, *Surface Dynamic Response Functions of Anisotropic Solids*, Ultrasonics **36**, 349-353 (1998)

62. A.G. Every, W. Pang, J.D. Comins and P.R. Stoddart, *Brillouin Scattering Study of Guided Modes in TiN Films on High Speed Steel*, Ultrasonics **36**, 223-227 (1998).

63. O. Lefeuvre, P.Zinin, G.A.D. Briggs and A.G. Every, *Surface Wave Dispersion Beyond Cutoff for a Fast Layer on a Slow Substrate*, Appl. Phys. Lett. **72**, 856-857 (1998).

64. A.G. Every and G.A.D. Briggs, *Surface Response of a Fluid Loaded Solid to Impulsive Line and Point Forces: Application to Scanning Acoustic Microscopy*, Phys. Rev. **B58**, 1601-1612 (1998).

65. P.R. Stoddart, J.C. Crowhurst, J.D. Comins and A.G. Every, *Measurement Precision in Surface Brillouin Scattering*, J. Opt. Soc. Am. **15**, 2481-2489 (1998).

66. X. Zhang, J.D. Comins, A.G. Every and P.R. Stoddart, *Surface Brillouin Scattering Studies on Vanadium Carbides*, Int. J. Refractory Metals and Hard Materials **16**, 303-308 (1998).

67. W. Pang, J.D. Comins, A.G. Every and D. Pietersen, *The Correlation between Surface Acoustic Wave Velocity and Mechanical Properties of TiN_x Coatings*, Int. J. Refractory Metals and Hard Materials **16**, 389-394 (1998).

68. X. Zhang, J.D. Comins, A.G. Every, P.R. Stoddart, W. Pang and T.E. Derry, *Brillouin Scattering Study of Sezawa and pseudo-Sezawa waves in Ion-bombarded Silicon Layers*, Phys. Rev. **B58**, 13677-13685 (1998).

69. W. Pang, A.G. Every, J.D. Comins, P.R. Stoddart and X. Zhang, *Brillouin Scattering from Acoustic Excitations in TiN Films on High Speed Steel – a Stiffening System*, J. Appl. Phys. **86**, 311-317 (1999).

70. P. Zinin, M.H. Manghnani, S. Tkachev, V. Askarpour, O. Lefeuvre and A.G. Every, *Brillouin Spectroscopy of Surface Modes in Thin Film Si_3N_4 on GaAs*, Phys. Rev. **B60**, 2844-2850 (1999).

71. O. Lefeuvre, W. Pang, P. Zinin, J.D. Comins, A.G. Every, G.A.D. Briggs, B.D. Zeller and G.E. Thompson, *Determination of the Elastic Properties of a Barrier Film on Aluminium by Brillouin Spectroscopy*, Thin Solid Films **350**, 53-58 (1999).

72 A. de Bernabe, C. Prieto, D. Caceres, I. Vergara, A.G. Every and H.E. Fischer, *Anomalous Elastic Properties of Si_n/Ge_n Superlattices: The Role of Interfaces,* Phys. Stat. Sol. (a) **188**, 1023-1040 (2001).

73. A. de Bernabe, C. Prieto, L. Gonzales, Y. Gonzales and A.G. Every, *Elastic Constant Determination of $In_xGa_{1-x}P$ and $In_xGa_{1-x}As$ by Surface Acoustic Waves,* J. Phys.: Condens. Matt. **11**, L323-L326 (1999).

74. J.D. Comins, A.G. Every, P.R. Stoddart, X. Zhang, J. Crowhurst and G.R. Hearne, *Surface Brillouin Scattering Studies of Opaque Solids and Thin Supported Films,* Ultrasonics **38**, 450-458 (2000).

75. G. Amulele and A.G. Every, *Anisotropic Wave Propagation in a Nickel-based Superalloy*, Ultrasonics **38**, 252-255 (2000).

76. A.G. Every, R.E. Vines and J.P. Wolfe, *Observation of Scholte-like Waves on the Liquid-loaded Surfaces of Periodic Surfaces*, Ultrasonics **38**, 761-766 (2000).

77. A.G. Every, R.E. Vines and J.P. Wolfe, *Line-focus Probe Excitation of Scholte Acoustic Waves at the Liquid-loaded Surfaces of Periodic Surfaces,* Phys. Rev. **B60**, 11755-11760(1999).

78. R.E. Vines, J.P. Wolfe and A.G. Every, *Scanning Phononic Lattices with Ultrasound*, Phys. Rev. **B60**, 11871-11874 (1999).

79. O. Lefeuvre, O.V. Kolosov A.G. Every, G.A.D. Briggs and Y. Tsukahara, *Elastic Measurements of Layered Nanocomposite Materials by Brillouin Spectroscopy,* Ultrasonics **38**, 459-465 (2000).

80. G.M. Amulele and A.G. Every, *Ultrasonic Measurement of the Wall Thickness of Hollow Gas Turbine Blades*, S.A. Mechanical Engineer **49**(6), 70 (1999).

81. J.C. Crowhurst, G.R. Hearne, J.D. Comins, A.G. Every and P.R. Stoddart, *Surface Brillouin Scattering at High Pressure – Application to a Thin Supported Gold Film*, Phys. Rev. **B60** (Rapid Communications), 14990-14993 (1999).

82. A.L. Shuvalov and A.G. Every, *Transverse Curvature of the Acoustic Slowness Surface in Crystal Symmetry Planes and Associated Phonon Focusing Cusps,* J. Acoust. Soc. Am. **108**, 2107-2113 (2000).

83. A.L. Shuvalov and A.G. Every, *Evolution of Phonon-focusing Caustics under Linear Spatial Dispersion*, J. Phys. A: Math. Gen. **33**, 5105-5115 (2000).

84. X. Zhang, J.D. Comins, A.G. Every and T.E. Derry, *Use of Surface Brillouin Scattering to Examine a Structural Transition in Carbon Ion Bombarded Silicon During High Temperature Annealing*, Phys. Rev. **B65**, 012106-1-6 (2002).

85. X. Zhang, M.H. Manghnani and A.G. Every, *Evidence for a Shear Horizontal Resonance in Thin Supported Films*, Phys. Rev. **B62**, R2271-R2274 (2000).

86. L.-P. Song, A.G. Every and C. Wright, *Linearized Approximations for Phase Velocities of Elastic Waves in Weakly Anisotropic Media*, J. Phys D: Appl. Phys. **34**, 2052-2062 (2001).

87. L.-P. Song, A.G. Every and C. Wright, *Tomography of Joint P-wave Travel Time and Polarization Data: a Simple Approach for Media with Low to Moderate Velocity Gradients*, J. Acoust. Soc. Am. **109**, 1796-1807 (2001).

88. L.-P. Song and A.G. Every, *Approximate Formulas for Acoustic Wave Group Slownesses in Weakly Orthorhombic Media*, J. Phys. D: Appl. Phys. (Rapid Commun.) **33**, L81-L85 (2000).

89. A.G. Every and G.M. Amulele, *Angular Spectrum Method and Ray Algorithm for the Acoustic Field of a Focusing Transducer in an Anisotropic Solid*, IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control **49**, 307-318 (2002).

90. A.G Every, *The Elastic Properties of Solids: Static and Dynamic Principles*, Chapter 1 of Vol. **I** of *Handbook of Elastic Properties of Solids, Liquids, and Gases*, Academic Press (2001) pp. 3-36.

91. A.G. Every, W. Sachse and K.Y. Kim, *Point Source/Point Receiver Methods*, Chapter 4 of Vol. **I** of *Handbook of Elastic Properties of Solids, Liquids, and Gases*, Academic Press (2001) pp.78-108; Reprinted in *Modern Acoustical Techniques for the Measurement of Mechanical Properties, Vol. 39 of Experimental Methods in the Physical Sciences*, Academic Press (2001) pp. 37-64.

92. X. Zhang, P.R. Stoddart, J.D. Comins and A.G. Every, *High Temperature Elastic Properties of a Nickel-Based Superalloy Studied by Surface Brillouin Scattering*, J. Phys.: Condens. Matter **13**, 2281-2294 (2001).

93. A.L. Shuvalov and A.G. Every, *Some Properties of Surface Acoustic Waves in Anisotropic Coated Solids, Studied by the Impedance Method*, Wave Motion **36**, 257-273 (2002).

94. A.L. Shuvalov and A.G. Every, *Characteristic Features of the Velocity Dispersion of Surface Acoustic Waves in Anisotropic Coated Solids*, Ultrasonics **40**, 939-942 (2002).

95. A.G. Every and Lin-Ping Song, *The Elastic Characterization of Anisotropic Solids Using Group Velocity Data*, Progress in Natural Science **11**, S71-S74 (2001).

96. X. Zhang, R. Sooryakumar, A.G. Every and M.H. Manghnani, *Observation of Organ-pipe Acoustic Excitations in Supported Thin Films*, Phys. Rev. **B64**, 81402-81405 (2001).

97. A.G. Every, *Measurement of the Near-Surface Elastic Properties of Solids and Thin Supported Films*, Measurement Science and Technology **13**, R21-R39 (2002).

98. M. Pluta, A.G. Every, W. Grill and T.J. Kim, *Fourier Inversion of Acoustic Wave Fields in Anisotropic Solids*, Phys. Rev. **B67**, 094117-1-9 (2003). **DOI:** 10.1103/PhysRevB.67.094117.

99. A.G. Every and M. Deschamps, *Principal Surface Wave Velocities in the Point Focus Acoustic Materials Signature V(z) of an Anisotropic Solid*, Ultrasonics **41** (7), 581-591 (2003).

100. M. Beghi, A.G. Every and P.V. Zinin, *Brillouin Scattering Measurement of SAW Velocities for Determining Near-surface Elastic Properties*, in *Ultrasonic Nondestructive Evaluation: Engineering and Biological Material Characterization*, ed. T. Kundu, CRC Press (2004) pp. 581-651. ISBN 0-8493-1462-3.

101. M. Pluta, A.G. Every and W. Grill, *Inversion of Acoustic Diffraction Fields in Anisotropic Solids*, Ultrasonics **42**, 243-248 (2004).

102. A.G. Every, M. Pluta, W. Grill and K.U. Würz, *Phonon Focusing Caustics in Crystals and their Diffraction Broadening at Ultrasonic Frequencies*, Trans. Roy. Soc. South Africa **58 (2)**, 119-128 (2003).

103. A.G. Every, M. Pluta and W. Grill, *Interference of Non-Aligned Airy Diffraction Patterns in Acoustic Microscopy Images of Crystals*, Proc. Roy. Soc. **A461**, 3847-3862 (2005). **DOI**: 10.1098/rspa.2005.1545.

104. A.G. Every, *Weak Spatial Dispersion and the Unfolding of Wave Arrival Singularities in the Elastodynamic Green's Functions of Solids*, Phys. Rev. **B72**, 104302-1-10 (2005). **DOI:** 10.1103/PhysRevB.72.104302.

105. A.G. Every, *Effect of Spatial Dispersion on Transient Wave Propagation in 3D,* Ultrasonics, in press (2006).

106. A.G. Every, B. Mathe and J.D. Comins, *The Study of Guided Waves in Surfaces and Thin Supported Films Using Surface Brillouin Scattering and Acoustic Microscopy*, Ultrasonics, in press (2006).

107. M. Pluta, A.G. Every and W. Grill, *On Interference Effects in the Elastodynamic Green's Functions* $G_{33}(\mathbf{x},\omega)$ *of Si and GaAs*, Ultrasonics, in press (2006).

108. A.G. Every, J.D. Kaplunov and G.A. Rogerson, *Unfolding of Wave Arrival Singularities in the Elastodynamic Green's Functions of Anisotropic Solids under Weak Spatial Dispersion*, submitted for publication (2006).

Published conference papers

1. A.G. Every, *Jahn-Teller Effect for Substitutional Nitrogen in Diamond*, Diamond Conference Proceedings (1968).

2. A.G. Every, *Some Aspects of Infra-Red Absorption in Diamond*, Diamond Conference Proceedings (1969).

3. A.G. Every, *Acoustic Waves and the Ballistic Propagation of Acoustic Phonons in Diamond*, Diamond Conference Proceedings (1980).

4. A.G. Every, *Phonon Focusing and the Shape of the Ray Surface in Cubic Crystals*, Proceedings of the International Conference on phonon Physics, Bloomington, Indiana (1981): J. de Phys. Colloque **C6**, 215-217 (1981).

5. A.G. Every, G.L. Koos, G.A. Northrop and J.P. Wolfe, *Critical-Cone Channeling of Thermal Phonons from Solid/Solid Interfaces*, International Phonon Scattering Conference, Stuttgart (1983): Springer Series in Solid State Sciences, Vol. **51**, pps. 194-196 (1984).

6. A.G. Every, D.C. Hurley and J.P. Wolfe, *Phonon Imaging of Diamond*, Diamond Conference Proceedings (1984).

7. A.G. Every, *A Model for Calculating Pseudosurface Wave Structures in Phonon Imaging*, Fifth Int. Conf. on Phonon Scattering in Condensed Matter, Urbana, Illinois (1986): Springer Series in Solid State Sciences, Vol. **68**, pps. 312-314 (1986).

8. A.G. Every, *Extraordinary Caustics in the Phonon Focusing Patterns of Crystals*, Fifth Int. Conf. on Phonon Scattering in Condensed Matter, Urbana, Illinois (1986): Springer Series in Solid State Sciences, Vol. **68**, pps. 302-304 (1986).

9. A.K. McCurdy and A.G. Every, *Phonon Images and Phonon Conduction in Trigonal Crystals*, 20th International Thermal Conductivity Conference, Virginia (1987): Thermal Conductivity **20**, ed. D.P.H. Hasselman and J.R. Thomas, Plenum Press, pps. 243-247 (1989).

10. L.J. Challis, N.P. Hewett, P.A. Russell, V.W. Rampton, A.J. Kent and A.G. Every, *Acoustic Phonon Emission from a 2DEG in a Si MOSFET*, Proc. 19th Conf. on Physics of Semiconductors, ed. W. Zawadski, Polish Academy of Sciences, Warsaw, pps. 807-810 (1988).

11. A.G. Every, *Acoustic Symmetry and First Order Spatial Dispersion Effects in Phonon Focusing*, PHONONS 89, Heidelberg (1989), ed. S. Hunklinger, W. Ludwig and G. Weiss, World Scientific, pps. 1355-1357 (1990).

12. A.G. Every, N.P. Hewett, L.J. Challis and J. Cooper, *The Role of Phonon Focusing in the Surface Temperature Profile of a Silicon Wafer Heated by a 2DEG*, PHONONS 89, Heidelberg (1989), ed. S. Hunklinger, W. Ludwig and G. Weiss, World Scientific, pps. 1358-1360 (1990).

13. A.G. Every, W. Sachse, K.Y. Kim and Lin Niu, *Determination of Elastic Constants of Anisotropic Solids from Group Velocity Data*, Review of Progress in Quantitative Nondestructive Evaluation, Vol. **10B**, ed. D.O. Thompson and D.E. Chimenti, Plenum, pps. 1663-1668 (1991).

14. W. Sachse, A.G. Every and R.L. Weaver, *Interpretation of Ultrasonic PS/PR Amplitude Data*, Review of Progress in Quantitative Nondestructive Evaluation, Vol. **10A**, ed. D.O. Thompson and D.E. Chimenti, Plenum, pps. 129-136 (1991).

15. A.G. Every, W. Sachse and M.O.Thompson, *Materials Characterization from Elastic Wave Anisotropy Images*, Nondestructive Characterization of Materials **IV**, ed. C.O. Ruud, J.F. Bussiere and R.E. Green, Plenum, pps. 493-500 (1991).

16. W. Sachse and A.G. Every, *The Characterization of Materials with Simulated AE Signals*, 10th Int. Acoustic Emission Symposium, Sendai, Japan (1990). Progress in Acoustic Emission **V**, Japanese Society for Non-Destructive Inspection, pps. 222-229 (1990).

17. A.G. Every and W. Sachse, *Imaging of Laser-Generated Ultrasonic Waves in Silicon*, 19th International Symposium on Acoustical Imaging, ed. H. Ermert and H. Harjes, Plenum, pps. 743-748 (1992).

18. A.G. Every, B. Castagnede and W. Sachse, *Numerical Instabilities in Inversion Algorithms for Recovering the Elastic Constants of Anisotropic Solids from Ultrasonic Wavespeed Data*, Ultrasonics International' 91, Le Touquet, France. Butterworth-Heinemann, pps. 459-462 (1991).

19. A.G. Every, *Geometrical Dispersion of Ballistic Heat Pulses: Application to Paratellurite*, Seventh Int. Conf. on Phonon Scattering in Condensed Matter, Ithaca, NY (1992): Springer Series in Solid State Sciences, Vol. **112**, pps. 75-76 (1993).

20. A.G. Every and W. Sachse, *Anisotropy Imaging of Materials*, Seventh Int. Conf. on Phonon Scattering in Condensed Matter, Ithaca, NY 1992): Springer Series in Solid State Sciences, Vol. **112**, pps. 73-74 (1993).

21. A.G. Every and V.I. Neiman, *Mode Conversion to Four Bulk Waves in Piezoelectric Solids*, Proc. 14th Int. Congress on Acoustics, Beijing, China, ed. Li Peizi, A12-3 (1992).

22. A.G. Every, *Phonon Imaging in Single and Multilayered Anisotropic Solids*, 20th Int. Symp. on Acoustical Imaging, Nanjing, China (1992), ed. Benli Gu, Plenum, pps. 19-23 (1993).

23. W. Sachse and A.G. Every, *A Powerful Materials Characterisation Tool*, 11th Int. Acoustic Emission Symposium, Fukuoka, Japan (1992). Progress in Acoustic Emission **VI**, Japanese Soc. for Non-Destructive Inspection (1992).

24. A.G. Every, Y. Tsou, D.P.H. Hasselman and R.Raj, *The Thermal Conductivity of Diamond/ZnS Composites*, Diamond Conference Proceedings (1992).

25. A.G. Every, K.Y. Kim and W. Sachse, *Waves in Anisotropic Media*, Invited paper, Ultrasonics International'93, Vienna, Butterworth-Heinemann, pps. 7-12 (1993).

26. A.G. Every and K.Y. Kim, *Determination of the Elastic Constants of Anisotropic Solids From Elastodynamic Greens Functions*, Invited paper, Ultrasonics International '95, Edinburgh. Ultrasonics **34**, 471-472 (1995).

27. A.G. Every, K. Hillmann, K.U. Wuerz, H. Hasselmann and W. Grill, *Singularities in Scanning Acoustic Microscopy Phase Images*, Phonons '95, Sapporo, Japan. Physica **B219&220**, 714-716 (1995).

28. P.R. Stoddart, J.D. Comins and A.G. Every, *High-temperature Studies of Surface Acoustic Wave Velocities in Silicon by Brillouin Scattering*, Phonons '95, Sapporo, Japan. Physica **B219&220**, 717-719 (1995).

29. K.Y. Kim, A.R. Baker, W. Sachse and A.G. Every, *Applications of SH Mode for Measurement of Anisotropic Properties of Solids*, Review of Progress in Quantitative Nondestructive Evaluation, Vol. **15**, ed. D.O. Thompson and D.E. Chimenti, Plenum, pps. 1375-1382 (1996).

30. J.D. Comins, A.G. Every, P.R. Stoddart, W. Pang, X. Zhang and J.C. Crowhurst, *Surface Brillouin Scattering as a Tool for NDT&E,* 14th World Conference on Non-destructive Testing, New Delhi, ed. C.G. Krishnadas Nair, B. Raj, C.R.L. Murthi and T. Jayakumar, Trends in NDE Science and Technology, Oxford&IBM Publishing Co., New Delhi, pps. 1293-1296 (1996).

31. W. Pang, A.G. Every, J.D. Comins, P.R. Stodart, X. Zhang and D. Pietersen, *Brillouin Scattering as a Tool for Characterizing Surfaces, Interfaces and Thin Films*, Review of Progress in Quantitative Nondestructive Evaluation, Vol. **17**, ed. D.O. Thompson and D.E. Chimenti, Plenum, pps. 1315-1322 (1998).

32. M. Manghnani, P. Zinin, S. Tkachev, V. Askarpour, A.G. Every and O. Lefeuvre, *Surface Brillouin Spectroscopy of Thin Film Si_3N_4 on GaAs*, Proc. XVI'th Int. Conf. on Raman Spectroscopy (1998) Supplementary Volume pps. 110-113.

33. A. de Bernabe, C. Prieto and A.G. Every, *Stress-induced Elastic Constant Enhancement in Si/Ge Superlattices*, Proc. XVI'th Int. Conf. on Raman Spectroscopy, ed. A.M. Heyns, Plenum pps. 888-889 (1998).

34. X. Zhang, J.D. Comins, A.G. Every, P.R. Stoddart, W. Pang and T.E. Derry, *Study of the Surface Excitations in Ion-bombarded Silicon Layers by Surface Brillouin Scattering*, Proc. XVI'th Int. Conf. on Raman Spectroscopy, ed. A.M. Heyns, Plenum pps. 884-887 (1998).

35. J.C. Crowhurst, J.D. Comins, A.G. Every and M. Maaza, *The Surface Brillouin Scattering Study of Supported Ni/V Multilayers*, XVI'th Int. Conf. on Raman Spectroscopy, ed. A.M. Heyns, Plenum pps. 872-873 (1998).

36. X. Zhang, J.D. Comins, A.G. Every and P.R. Stoddart, *Elastic Properties of Vanadium Carbide Studied by Surface Brillouin*, Proc. XVI'th Int. Conf. on Raman Spectroscopy, ed. A.M. Heyns, Plenum pps. 882-883 (1998).

37. G. Amulele and A.G. Every, *Acoustic Microscopy Wall Thickness Measurements on Nickel Based Superalloy Gas Turbine Blades*, Review of Progress in Quantitative Nondestructive Evaluation, Vol. **18**, ed. D.O. Thompson and D.E. Chimenti, Plenum, pps. 2001-2007 (1999).

38. M..H. Manghnani, S. Tkachev, P. Zinin, V. Askarpour, A. Misra, R. Rocheleau and A.G. Every, *Elastic Properties of Elastic Hard Films by Surface Brillouin Scattering*, Proc. of Second US-Japan Symposium on Advances in NDE, Ed. By M. Katoh, B.B. Djordjevic. (The Japanese Society for Non-Destructive Inspection, Tokyo, Japan) (1999) pps. 301-306.

39. J.C. Crowhurst, G.R. Hearne, J.D. Comins, P.R. Stoddart and A.G. Every, *The Surface Brillouin Scattering Study of Opaque Materials at High Pressure*, Proceedings of AIPAPT-17, Hawaii, (1999).

40. M.H. Manghnani, X. Zhang, S. Tkachev, P. Zinin, H. Feldermann, C. Ronning, H. Hofsass and A.G. Every, *Elastic Properties of Hard cBN Film by Surface Brillouin Scattering*, Nondestructive Characterization of Materials IX, ed. R.E. Green (AIP, New York, 1999) pps. 315-320.

41. A.G. Every and L.-P. Song, *Recovery of the Elastic Constants of Anisotropic Solids from Longitudinal Wave Group Velocity Data*, Review of Progress in Quantitative Nondestructive Evaluation, Vol. **20**, ed. D.O. Thompson and D.E. Chimenti, AIP, 1346-1353 (2001).

42. O. Poncelet, M. Deschamps, A.G. Every and B. Audoin, *Diffraction Extension to Cuspidal Edges of Wave Surfaces of Anisotropic Solids: Treatment of Near Cusp Behavior*, Review of Progress in Quantitative Nondestructive Evaluation, Vol. **20**, ed. D.O. Thompson and D.E. Chimenti, AIP, 51-58 (2001).

43. X. Zhang, J.D. Comins and A.G. Every, *Structural Transition in Carbon Ion Bombarded Silicon Studied by Surface Brillouin Scattering at High Temperature*, Proc. XVII'th Int. Conf. on Raman Spectroscopy, pps. 418-419 (2000).

44. J C Crowhurst, G R Hearne, J D Comins, A G Every and P R Stoddart, *Surface Brillouin Scattering from Opaque Materials at High Pressure*, Proc. Int. Conf. on the Science and Technology of High Pressure AIRAPT –17, Honolulu, Hawaii 25-30 July 2000, eds. M H Manghnani, W J Nellis and M K Nichol, Universities Press (India), Hyderabad, pp 43-46.

45. J C Crowhurst, G R Hearne, J D Comins, A G Every and P R Stoddart, *The Surface Brillouin Scattering of Opaque Materials at High Pressure*", Proc. XVIIth Int. Conf. on Raman Spectroscopy, Beijing, China ed S -L Zhang , Wiley: Chichester (2000), 402-403.

46. X Zhang, J D Comins and A G Every, *Surface Brillouin Scattering Study of a High Temperature Structural Transition in a Thin Layer of Carbon Ion Bombarded Silicon*", Proc. Int. Conf. on Optical Properties of Ultra-Thin Films and Related Systems, Xi'an, P. R. China, (2000) ed. Yan Fang, pp5-6 .

47. X Zhang, J D Comins and A G Every, *Structural Transition in Carbon Ion Bombarded Silicon Studied by Surface Brillouin Scattering at High Temperature*, Proc. XVIIth Int. Conf. on Raman Spectroscopy, Beijing, China ed S -L Zhang , Wiley: Chichester (2000),408-409.

48. M. Deschamps and A.G. Every, *Point Focus Acoustic Materials Signature of Anisotropic Solids*, Forum Acusticum Sevilla 2002, Sevilla, Spain (2002).

49. J.D. Comins, A.G. Every, W. Pang, P.R; Stoddart and X.Zhang, *NDE of Solid Surfaces and Thin Surface Coatings by Means of Surface Brillouin Scattering of Light*, NDE of High Valued Materials, Cape Town (2002).

50. A.G. Every and M. Deschamps, *Principal Surface Wave Velocities in the Point Focus Acoustic Materials Signature V(z) of an Anisotropic Solid*, Review of Progress in Quantitative Nondestructive Evaluation, Vol. **22**, ed. D.O. Thompson and D.E. Chimenti, AIP, 1219-1226 (2003).

51. A.G. Every, *Perspectives on Acoustic Microscopy – a Review*, Proc. 2nd Int. Conf. of AfricaMRS, ed. Y. Ballim, A.G. Every, S. Luyckx and D.C. Levendis, Witwatersrand University Press (2003).

52. S.B. Tlali,B.A. Mathe, L.M. Kotane, J.D. Comins and A.G. Every, *Brillouin Scattering Studies of Iron Pyrite (FeS_2) at High Temperatures*, Proc. 2nd Int. Conf. of AfricaMRS, ed. Y. Ballim, A.G. Every, S. Luyckx and D.C. Levendis, Witwatersrand University Press (2003).

53. G.M. Amulele and A.G. Every, *Wave Propagation in an Anisotropic Nickel-Based Superalloy*, Proc. 2nd Int. Conf. of AfricaMRS, ed. Y. Ballim, A.G. Every, S. Luyckx and D.C. Levendis, Witwatersrand University Press (2003).

54. A.G. Every, M. Pluta, W. Grill and K.U. Würz, *Progression from Ballistic Phonon Focusing to Internal Diffraction of Ultrasound in Crystals*, Proceedings of Phonons 2004, Phys. Stat. Sol. **C1**, 2951-2954 (2004)./**DOI** 10.1002/pssc.200405274

55. S. Tlali, B. Mathe, L.M. Kotane, F.R.L. Schöning, J.D. Comins, A.G. Every, H.M. Sithole, P.E. Ngoepe and K. Wright, *Brillouin Scattering Studies and Computational Simulations of the Elastic Properties of Iron Pyrite (FeS_2) at High Temperatures*, Proceedings of Phonons 2004, Phys. Stat. Sol. **C1**, 3073-3076 (2004). /**DOI** 10.1002/pssc.200405378

56. A.G. Every and K Jakata, *Spatial Dispersion in Acoustic Wave Propagation in Solids*, 3rd Meeting of the African MRS, Marrakech, Morocco, December 2005. J. Phys. Conf. Series, submitted (2006).

57. B.A Mathe, JD Comins, AG Every and T Wittkowski, *High Temperature Surface Brillouin Scattering Studies in Amorphous Boron Carbide (B4C3) film*. 3rd Meeting of the African MRS, Marrakech, Morocco, December 2005. J. Phys. Conf. Series, submitted (2006).

58. X

Conference papers: other

1. A.G. Every and D.S. Schonland, *A Donor Electron Orbital for Nitrogen in Diamond*, SAIP Conf. (1965).

2. A.G. Every, *Lattice Dynamics for Crystals with Point Defects*, SAIP Conf., Pretoria (1970).

3. A.G. Every, *Quantum Mechanical Effects in Diffusion*, SAIP Conf., Cape Town (1971).

4. A.G. Every, *The Adiabatic Versus the Diabatic Approximation in the Decoupling of Electron and Nuclear Motion*, 10th Annual Seminar on Theoretical Physics, Durban (1975).

5. A.G. Every, *The Anomalous Low Temperature Properties of Amorphous Solids*, SAIP Conf., Pretoria (1978).

6. A.G. Every, *Closed-Form Expressions for Elastic Waves in Crystals*, 17th Annual Solid State Physics Conference, Warwick, U.K. (1980).

7. A.G. Every, *Phonon Imaging*, Int. School on Physical Acoustics, Ettore Majorana Centre, Sicily (1982).

8. A.G. Every, *Theory of Phonon Focusing*, NATO ASI on Nonequilibrium Phonon Dynamics, Les Arcs (1984).

9. G.L. Koos, A.G. Every and J.P. Wolfe, *Wavevector Channeling of Heat Pulses at a Sapphire/Metal Interface*, March Meeting of the American Physical Society (1984). Bull. Am. Phys. Soc. 29, 224 (1984).

10. A.G. Every, *A Model for Calculating Pseudosurface Wave Structures in Phonon Imaging*, SAIP Conf., RAU (1986).

11. A.G.Every, *Extraordinary Caustics in the Phonon Focusing Patterns of Crystals*, SAIP Conf., RAU (1986).

12. A.G. Every, *Phonon Imaging*, Defect Solid State Conf., RAU (1986).

13. P.E. Ngoepe, J.D. Comins and A.G. Every, *Brillouin Scattering Measurements of LaF at High Temperatures*, SAIP Conf., RAU (1986).

14. A.K. McCurdy and A.G. Every, *Phonon Images in Piezoelectric Crystals*, Spring Meeting of the New England Section of the American Physical Society (1987).

15. A.G. Every and A.K. McCurdy, *Phonon Images for Orthorhombic Crystals*, Fall Meeting of the New England Section of the American Physical Society (1987).

16. P.E. Ngoepe, J.D. Comins and A.G. Every, *Studies of Elastic Constants of LaF at High Temperatures,* SAIP Conf., Durban (1987).

17. A.G. Every and A.K. McCurdy, *Phonon Focusing in Piezoelectric Crystals*, SAIP Conf. Durban (1987).

18. N.P. Hewett, P.A. Russell, L.J. Challis, V.W. Rampton, A.J. Kent and A.G. Every, *Phonon Emission from a Two Dimensional Electron Gas in Zero Magnetic Field and in the Quantum Hall Regime,* Annual IOP Low Temperature Conference, Birmingham, U.K. (1988).

19. A.G. Every and W. Sachse, *The Imaging of Laser-Generated Ultrasonic Waves in Silicon*, SAIP Conf., Bloemfontein (1991).

20. W. Sachse and A.G. Every, *Measurement and Interpretation of Laser-generated Scan Images in Anisotropic Solids*, 121st Mtg. of the Acous. Soc. Am., Baltimore (1991).

21. A.G. Every and V.I. Neiman, *Reflection of Electroacoustic Waves in Piezoelectric Solids*, SAIP Conf., Johannesburg (1992).

22. A.G. Every and W. Sachse, *Laser Generation of Ultrasound in Anisotropic Solids*, Int. Workshop on Physical Acoustics Nanjing, China, (1992).

23. A.G. Every, *Determination of the Elastic Constants of Anisotropic Solids*, Invited paper, Pre-UI'93 Tutorial Day, Vienna (1993).

24. A.G. Every, *Elastodynamic Methods for Determining Elastic Constants*, Workshop on Dynamics of Solids, Johannesburg (1995).

25. A.G. Every, K. Hillmann, K.U. Wuerz, H. Hasselmann and W. Grill, *Phase Singularities in Scanning Acoustic Microscopy*, Ultrasonics International '95, Edinburgh (1995).

26. W. Pang, A.G. Every, J.D. Comins and P.R. Stoddart, *Elastic Properties of TiN Hard Films on High Speed Steel*, SAIP Conf., UWC (1995).

27. P.R. Stoddart, J.D. Comins and A.G. Every, *Elastic Constants of Silicon at High Temperatures by Brillouin Scattering*, SAIP Conf., UWC (1995).

28. W. Pang, P.R. Stoddart, J.D. Comins and A.G. Every, *Study of the Elastic Properties of TiN Coatings at High Temperatures Using Brillouin Scattering*, The

Technology, Applications and Markets for Hard and Superhard Materials International Conference, Johannesburg (1995).

29. P.R. Stoddart, J.D. Comins and A.G. Every, *Light Scattering in Silicon at High Temperatures*, SAIP Conf., Pretoria (1996).

30. X. Zhang, P.R. Stoddart, W. Pang, J.D. Comins and A.G. Every, *The Elastic Properties of Amorphous Silicon Formed by Ion Bombardment*, SAIP Conf., Pretoria (1996).

31. J.C. Crowhurst, P.R. Stoddart, J.D. Comins and A.G. Every, *Surface Brillouin Scattering Spectroscopy*, SAIP Conf., Pretoria (1996).

32. W. Pang, A.G. Every, J.D. Comins and D. Pietersen, *Surface Acoustic Wave Velocities in Stressed TiN Coatings from Brillouin Scattering*, SAIP Conf., Pretoria (1996).

33. A.G.Every, *Brillouin Scattering from Surfaces, Interfaces and Thin Supported Films: Theory*, European Workshop on Surface Brillouin Scattering, Phonons, Magnons and Relaxation Phenomena, Oxford 1997).

34. X. Zhang, J.D. Comins, S. Luyckx, A.G.Every and P.R. Stoddart, *Brillouin Scattering Studies on Vanadium Carbide*, European Workshop on Surface Brillouin Scattering, Phonons, Magnons and Relaxation Phenomena, Oxford (1997).

35. J.C. Crowhurst, P.R. Stoddart, A.G. Every and J.D. Comins, *Instrumental Distortions of Surface Brillouin Scattering Spectra*, European Workshop on Surface Brillouin Scattering, Phonons, Magnons and Relaxation Phenomena, Oxford (1997).

36. G. Amulele, A.G. Every and S. Yates, *Acoustic Microscopy Investigation of Nickel Based Superalloy Gas Turbine Blades*, SAIP Conf., Durban (1997).

37. W. Pang, A.G. Every and J.D. Comins, *Acoustic Behaviour of TiN Protective Films*, SAIP Conf., Durban (1997).

38. W. Pang, A.G. Every, J.D. Comins, P.R. Stoddart, X. Zhang, J.C. Crowhurst and D. Pietersen, Brillouin Scattering Characterization of Surfaces and Thin Supported Films, NDT'97, Cheltenham, UK (1997).

39. G. Amulele, A.G. Every and S. Yates, *Acoustic Microscopy Wall Thickness Measurements on Nickel Based Superalloy Gas Turbine Blades*, NDT'97, Cheltenham, UK (1997).

40. A.G. Every, A.A. Maznev and G.A.D. Briggs, *Acoustic Wave Propagation at a Solid-Liquid Interface*, PHONONS'98, Lancaster (1998).

41. A.G. Every, *Nondestructive Testing: Applied Physics in Action*, SAIP Conference, Cape Town (1998).

42. A.G. Every, G.M. Amulele, A.A. Maznev and G.A.D. Briggs, *Acoustic Microscopy Investigations of the Surface and Interior of Anisotropic Solids*, Winter Annual Meeting of the American Society of Mechanical Engineers, Anaheim, California (1998).

43. P Zinin, M.H. Manghnani, S. Tkachev, V. Askarpour, O. Lefeuvre, G.A.D. Briggs, A.G. Every, B.D. Zeller, P.Cawley, A.J. Kinloch, *Acoustic Microscopy and Surface Brillouin Spectroscopy for Hard Thin Film Characterisation*, Winter Annual Meeting of the American Society of Mechanical Engineers, Anaheim, California (1998).

44. A.G. Every, *Laser Generated Bulk and Surface Waves in Anisotropic Solids*, Journees Ultrasons-lasers, Bordeaux, France (1999).

45. A.G. Every and J.D. Comins, *Surface Brillouin Scattering Measurement of the Near-Surface Elastic Properties of Solids and Thin Supported Films*, IOP Anglo-French Physical Acoustics Group Conference, Wye, UK (2001).

46. A.G. Every, *Dynamical Methods for Determining the near-surface Elastic Properties of Solids and Thin Supported Films*, Founding Meeting of Africa-MRS, Dakar, Senegal (2002).

47 A.G. Every and M. Deschamps, *Principal Surface Wave Velocities in the Acoustic Materials Signature of an Anisotropic Solid*, UI'03, Granada, Spain (2003).

59. A.G. Every, *Dynamical Methods for Determining the Near surface Elastic properties of Solids*, UI'03 Pre-Conference Tutorial, Granada, Spain (2003).

60. A.G. Every, *An Overview of Acoustic Microscopy*, First National Non-destructive Testing Symposium, Pretoria (2004).

61. B.A. Mathe, J.D. Comins, A.G. Every and T. Wittkowski, *High Temperature Surface Brillouin Scattering Studies of an Amorphous Boron Carbide (B4C) Film*, SAIP Conference, Pretoria (2005).

62. C. Sumanya, B. A. Mathe, M. Mujaji, J. D. Comins , A. G. Every, *Surface Brillouin Scattering in Opaque Thin Hard Films on Diamond Substrates*, S A Institute of Physics Conference, University of Pretoria, (2005).

63. A.G. Every and J.D. Comins, *Application of Elastodynamic Green's functions to Surface Brillouin Scattering and Other Phenomena*, Workshop on Acoustics for

Matreial Sciences, Mechanics and Medicine: Research and Education, Marrakech, Morocco, December 2005.

64. G. Huet, C. Rossignol, M. Deschamps, M. Qian and A.G. Every, *Green Function of an Anisotrpic Half Space. Comparison between Measurement and Complex (and Real) Rays Theory*, WCUUI'06, Beijing, China (2005).

65. K. Jakata and A.G. Every, *Spatial Dispersion in Phonon Imaging*, International Symposium on Mechanical Waves in Solids, Hangzhou, China, May 2006.

66. A.G. Every, J.D. Kaplunov and G.A. Rogerson, *Unfolding of Wave Arrival Singularities in the Elastodynamic Green's Functions of Anisotropic Solids under Weak Spatial Dispersion*, International Symposium on Mechanical Waves in Solids, Hangzhou, China, May 2006.

67. K. Jakata and A. G. Every, *Spatial Dispersion Effects in Phonon Imaging*, S A Institute of Physics Conference, University of the Western Cape, July 2006.

68. A.G. Every, *Effect of Spatial Dispersion on Wave Arrival Singularities in the Elastodynamic Response Functions of Solids*, S A Institute of Physics Conference, University of the Western Cape, July 2006.

Technical Reports

1. A.G. Every, *Non-destructive Testing of Syndite : Report on Feasibility Study*, commissioned by DeBeers Industrial Diamond Division (1996).

2. A.G. Every and M. Pluta, *Ultrasonic Conditioning of Minerals Slurries*, commissioned by Anglo American Research Laboratories (2002).