

1. Chen, S., Kotlicki, A., Waltham, C. E., Wolfe, N., Yu, J.-F., Zhu, C., "Vibrational behavior of a soundbox in an atmosphere with a variable speed of sound", J. Acoust. Am. Soc. (2011) in press.
2. Daltrop, S., Kotlicki, A., Waltham, C. E., Gautier, F. and Elie, B., "Vibro-acoustic characteristics of a gothic harp", J. Acoust. Am. Soc. (2011) in press.
3. Daltrop, S., Waltham, C. E. and Kotlicki, A., "Vibro-acoustic characteristics of an Aoyama Amphion concert harp", J. Acoust. Am. Soc. 128 (2010) 466-473.
4. Martinuk, M., Moll, R. F. , and Kotlicki, A., "Teaching Introductory Physics with an Environmental Focus", The Physics Teacher, Vol. 48, 2010
5. Waltham, C. E. and Kotlicki, A., "Construction and Calibration of an Impact Hammer", Am. J. Phys 77 (2009) 945-949.
6. Waltham, C., Kotlicki, A., Bates, G. and Leander, C., "Canada's National Grade 10 Science Contest, The Michael Smith Science Challenge", Physics Competitions 10, 16-23 (2008).
7. Waltham, C. E. and Kotlicki, A., "Vibrational Characteristics of Harp Soundboards", J. Acoust. Soc. Am.124, 1774-1780 (2008).
8. Clark, A., Kotlicki, A., Haynes, C. and Whitehead, L "A new model of protein-adsorption kinetics derived from simultaneous measurement of mass loading and changes in surface energy" American Chemical Society:. February 2007.
9. J. Aggarwal, A. Kotlicki, M. Mossman and L. Whitehead, "Liquid transport based on electrostatic deformation of fluid interfaces" J. Appl. Phys. 99, 104904 (2006);
10. Waltham, C. E. and Kotlicki, A., "The low-frequency resonances of harp soundboxes ", The Journal of the Acoustical Society of America , September 2005, Volume 118, Issue 3, p. 1948.
11. Kotlicki, B. G. Turrell, D. DiSanto and A. K. Drukier "New fabrication techniques for PASS", Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 520, Issues 1-3, 11 March 2004, Pages 175-177.
12. C Waltham, S Bendall, A Kotlicki, "Bernoulli Levitation," Am. J. Phys. 71, 176-179, 2003.
13. Alison J. Clark, Lorne A. Whitehead ,Charles A. Haynes, Andrzej Kotlicki "Novel resonant-frequency sensor to detect the kinetics of protein adsorption", Rev. Scient. Instruments, 73, 12, 4339-4346, 2002
14. L. A. Whitehead, M. Mossman and A. Kotlicki "Visual Applications of Total Internal Reflection in Prismatic Microstructures", Physics in Canada 57, 329-335,2001
15. Benam, M.R., Pond, J., Goehring, L., Kotlicki, A. and Turrell, B.G. "Impurities in Magnetic Insulators Studied by Low Temperature Nuclear Orientation", Proc. of 12th Int. Conf. on Hyperfine Interactions, Hyperfine Interactions 136/137 (2001) 415-419.
16. P. Kan, L. A. Whitehead, A. Kotlicki S. J. Harrison and C. S. McIntyre "High Efficiency Quad Luminaire Prism Light Guide" Journal of Illuminating Engineering Society 29, 24-28, 2000

17. Pond, J., Itoi, C., Briant, T., Kotlicki, A., Turrell, B.G., "Studies of Frequency Pulling Effects in the Quasi-2-Dimensional Ferromagnet, Manganese Acetate Tetrahydrate", Proc. of Int. Conf. on Magnetism 2000, J. Magn. Mag. Mater. 226-230 (2001) 492-494.
18. J. Pond, T. Briant, L. Goehring, A. Kotlicki, B. G. Turrell and C. Itoi "Frequency Pulling Effects in the Quasi-two-dimensional Ferromagnet  $54\text{Mn-Mn}(\text{COOCH}_3)_2 \cdot 4\text{H}_2\text{O}$  Studied by Nuclear Orientation Techniques", Physical Review B, 64, 064403-1-11, 2001
19. Wylie, J, Kotlicki, A., and Waltham, C., "National Canadian Association of Physicists High School Prize Examination and Physics Olympiad Preparation Program", Physics Competitions 2 (2000) 1-13.
20. M. Le Gros, A. Kotlicki, and B.G. Turrell, "NMRON Studies of the Quasi-2 Dimensional Ferromagnet  $54\text{Mn-Mn}(\text{COOCH}_3)_2 \cdot 4\text{H}_2\text{O}$ ", Hyperfine Interactions 108, 443-464 (1997).
21. G. Meagher, D. DiSanto, A. Kotlicki, G. Eska and B.G. Turrell, B.G., "Nucleation of the Supercooled Normal to Superconducting Phase Transition in Small Indium Spheres Induced by  $\gamma$ -Radiation", Phys. Rev. Lett. 79,285-288 (1997).
22. X.-F. He, A. Kotlicki, P. Dosanjh, B.G. Turrell, J.F. Carolan, S. Jimenez-Sandoval and P. LozanoTofar, "Magnetic and Photomagnetic Properties of Polycrystalline the Wide-Gap Semiconductor  $\text{Cd}_{1-x}\text{MnxTe}$  Thin Films", J. Electronic Materials 26,73-79 (1997)
23. G. Meagher, J. Pond, A. Kotlicki, B.G. Turrell, and A.K. Drukier, "Neutron Detection using a Planar Array of Superheated Superconductors", Nucl. Inst. Meth. A 370, 8-10 (1996). .
24. Waltham, C. E., Kotlicki, A., Wylie, J., Sénéchal, D., "The Second National Canadian Association of Physicists High School Prize Examination", Physics in Canada 51 (1995) 295-312, and 52 (1996) 134-137.
25. J.G. Meechan, D. Donaldson, A. Kotlicki, "The Effect of Storage Temperature on the Resistance to Failure of Dental Local Anesthetic Cartridges", J. Dentistry 61, 143, (1995)
26. Waltham, C. E., Kotlicki, A., Wylie, J., Sénéchal, D., "The First National Canadian Association of Physicists High School Prize Examination", Physics in Canada 50 (1994) 402-423.
27. G. Meagher, Y.-F. Lu, X.-F. He, S. Tehara, A., Kotlicki, G. Eska, and B.G. Turrell, "Tests of the Position Sensitivity of an Improved PASS Detector", Nucl. Instr. Meth. A 348, 696-699 (1994).
28. M. Le Gros, A. Kotlicki and B.G. Turrell, "NMRON Studies of the Antiferromagnetic and Paramagnetic Phases of  $54\text{Mn-MnCl}_2 \cdot 4\text{H}_2\text{O}$  ", Hyperfine Interactions 77, 203-214 (1993).
29. G. Meagher, Y.-F. Lu, X.-F. He, A. Kotlicki, G. Eska, and B.G. Turrell, "Progress in the Development of the Tin PASS Granule Detector", J. Low Temp. Phys. 93, 461-466 (1993).
30. M. Le Gros, A. Kotlicki and B.G. Turrell, "Pulsed NMRON Studies of Insulating Magnetic Materials", Hyperfine Interactions 77, 131-147 (1993).

31. M. Le Gros, A. Kotlicki and B.G. Turrell, "First Observation of Double Quantum NMRON", Physics Letters A 154, 75-78, 1991

Refereed Conference Proceedings

1. Kevin Cheng, Lorne Whitehead, and Andrzej Kotlicki, "Controlled Extraction from Light Guides: Electrophoretic Modulation of TIR" Proceedings of the IESNA Annual Conference, Tampa, Florida, July 25-28, 2004, page 231-239.
2. A Double Venetian Blind Solar Concentration System Lee, E.J., Kang, E., Wai, A., Kotlicki, A., Proceedings ISEA Asia-Pacific, 2004. 10 pp. 979~988
3. Whitehead L, Lee EJ, Kotlicki A.. New Efficient Tubular Daylighting System for Multi-. Floor Buildings. Proceedings of the CIE Quadrennial Conference, 2003
4. W. Brouwer, A. Johnston, J. McDonald, J. Pinfold, R. Soluk, A. Kotlicki, J. Sidhu, c> E. Waltham, B. Warrington, P. Walden and S. Yen "The Canada-Wide Network of Large Area Cosmic Ray Time Coincidence Array Telescopes" Proceedings of ICRC 2001, 1, (2001)
5. G. Meagher, D. DiSanto, J. Pond, A. Kotlicki, G. Eska, AX Drukier and B.G. Turrell, "New developments in the PASS detector", Proc. of Int. Workshop on Low Temp. Detectors 7, ed. S. Cooper (Max Planck Inst., Munich, 1997) p 191-192.
6. J. Pond, A. Kotlicki and B.G. Turrell, "On-line Nuclear orientation with Insulating Hosts", Proc. Workshop on Experiments and Equipment at Isotope Separators (Harrison Hot Springs, B.C., 1997) p 379-387.
7. G. Meagher, J. Pond, D. DiSanto, G. Eska, A. Kotlicki, B.G. Turrell and A. Drukier, "The Superheated Superconducting Granule PASS Detector: Review and New Developments", Proc. Int. Workshop on Identification of Dark Matter (Sheffield, 1996), ed. N.J.C. Spooner (World Scientific, 1997). [INVITED PAPER presented by A. Kotlicki]
8. G. Meagher, J. Pond, A. Kotlicki, G. Eska, A.K. Drukier, and B.G. Turrell, "Avalanche Effect in the Planar Array of Superheated Superconductors", Proc. of 21" Int. Conf. on Low Temp. Physics (Prague, 1996) published in Czech J. Phys. 46-S1, 2883-2884 (1996).
9. M. Willetts, M. Le Gros, A. Kotlicki, G. Eska, C.E. Johnson, and B.G. Turrell, "NMR Frequency Pulling in Magnetic Systems", Proc. of 21" Int. Conf on Low Temp. Physics (Prague, 1996), published in Czech J. Phys., 46-S1, 2167-2168 (1996).
10. G. Meagher, G., Kotlicki, A., He, X.-F., Eska, G. and Turrell, B.G., "Planar Arrays of Superheated Superconductors", Superconductivity and Particle

- Detectors, eds. T.A. Girard, A. Morales and G. Waysand, (World Scientific, 1995) 147-156. [IIVVITED PAPER presented by B.G. Turrell]
11. G. Meagher, G., Lu, Y.-F., He, X-F., Kotlicki, A., Eska, G. and Turrell, B.G., "Progress in the Development of a Cryogenic Granule Detector for Dark Matter", Proc. of 20th Int. Conf. on Low Temp. Physics (Eugene, 1993), published in Physica B194-196,103-104 (1994).
  12. X.-F. He, A. Kotlicki, G. Meagher, Y.-F. Lu, and B.G. Turrell, "Principles of Scanning Photomagnetic Microscopy using SQUID Magnetometers", Proc. of 20th Int. Conf. on Low Temp. Physics (Eugene, 1993), accepted for publication (Elsevier), published in Physica B194-196, 379-80 (1994).
  13. X.-F. He, A. Kotlicki, P. Dosanjh, B.G. Turrell, and J.F. Carolan, "Magnetization and Photomagnetic Effects in Diluted Magnetic Microcrystalline Cd<sub>1-x</sub>MnxTe ", Proc. of Int. Conf. on Superlattices and Microstructures (Banff, 1994), Superlattices & Microstructures, Vol. 14, no. 4, 261-263 (1994).
  14. G. Meagher, L. Graham, M. Le Gros, A. Kotlicki, G. Eska, B.G. Turrell and A.K. Drukier, "Progress in the Development of the Planar Array of Superheated Superconductors (PASS) Detectors", in Low Temperature Detectors for Neutrinos and Dark Matter IV, eds. N.E. Booth and G.L. Salmon (Editions Frontieres 1992) 47-55.
  15. A.K. Drukier, M. Chmielowski, A. Kotlicki, M. Le Gros, G. Meagher, and B.G. Turrell, "Towards Cryogenic Detection of WIMPS: Recent Progress in Superconducting Granular Detectors", Proc. of 2nd Int. Workshop on Theoretical and Phenomenological Aspects of Underground Physics (Toledo, 1991) in Nuclear Physics B (Proceedings Supplement) 28A, 475-477 (1992).

### **Conference Presentations**

1. Andrzej Kotlicki, "Physics Teaching for the 21st Century - how do we help educators with introducing real life issues and problems to the physics teaching" Annual Congress of the Canadian Association of Physicists, St. John's, Newfoundland, Abstract published in Physics in Canada
2. Andrzej Kotlicki , Mathew Martinuk, Georg Rieger, "Evolution and Refinement of an Environmentally Themed Introductory Physics Course", Annual Congress of the Canadian Association of Physicists, Moncton, 2009, Abstract published in Physics in Canada 65(2), 2009,p 57.
3. Chris Waltham and Andrzej Kotlicki, "Sensors used to Characterize Musical Instruments", Annual Congress of the Canadian Association of Physicists, Moncton, 2009, Abstract published in Physics in Canada 65(2), 2009,p 69.

4. Andrzej Kotlicki, Georg Rieger, Fei Zhou, Mathew Martinuk, Joss Ives and Melanie Gendre, "A New Way of Teaching Physics 100; Transportation, Earth Energy Balance and Global Warming", Annual Congress of the Canadian Association of Physicists, Quebec, June 2008,
5. M. Milner-Bolotin, A. Kotlicki, J. McKenna, V. Milner, P. Newbury, K. Schleich, C. Waltham, Don Witt "Bringing the Excitement of Science to Local Community: Helping Children from 5 to 105 years old to Rediscover the Wonders of Physics", , Annual Congress of the Canadian Association of Physicists, Vancouver, June 5-8. Abstract published in Physics in Canada 61(3), May-June 2005, p. 56
6. C. Waltham, A. Kotlicki, P. Newbury, M. Milner, D. Witt, S. Bendall, J. Chow, "UBC Physics & Andrzej Kotlicki 6<sup>th</sup> Astronomy Outreach" AAPT meeting in Salt Lake City – Utah, Aug. 6-10, 2005.
7. C. Waltham, G. Bates, A. Griffiths, A. Kotlicki, S. Sutherland, "The Michael Smith Science Challenge: A Snapshot of Canadian Grade 10 Students", Annual Congress of the Canadian Association of Physicists, Vancouver, June 5-8. Abstract published in Physics in Canada 61(3), May-June 2005, p. 130.
8. Lorne Whitehead, Michele Mossman, Helge Seetzen and Andrzej Kotlicki "Applied Research at the Structured Surface Physics Laboratory at UBC" Annual Congress of the Canadian Association of Physicists, Winnipeg, June 13-16, 2004, Abstract published in Physics in Canada 60(3), May-June 2004, p. 107
9. L. Whitehead, A. Kotlicki, I. Holloway, "Fibre and Multilayer Reflector Based Radiometric Integrator," Annual Congress of the Canadian Association of Physicists, Charlottetown, PEI, June 8-11. Abstract published in Physics in Canada 59(3), May-June 2003, p. 81.
10. J. Pond, A. Kotlicki, B.G. Turrell and R. Kiefl, Condensed Matter Studies using NO and NMRON at ISAC", Proc. Workshop on Physics related to Nuclear Orientation at TRIUMF-ISAC (TRIUMF, 1997).

## **Book**

11. Tadeusz Stacewicz I Andrzej Kotlicki "Elektronika w Laboratorium Naukowym" (Electronics in Scientific Laboratory, in Polish) Wydawnictwa Naukowe PWN Warszawa 1994 (in Polish)

## **Patents**

1. US Patent # 5,028,786; issued 1991; “An Array For a Nuclear Radiation and Particle Detector” M. Le Gros, A. Da Silva, B.G. Turrell, A. Kotlicki, and A.K. Drukier; owned by UBC
2. US Patent # 6,215,920 B1; issued April 10, 2001; L. Whitehead, M. Mossman, R. Coope, D. Grandmaison, A. Kotlicki, “Electrophoretic, High Index and Phase Transition Control of Total Internal Reflection in High Efficiency Variable Reflectivity Image Displays”
3. Lorne A Whitehead, Robin John Noel Coope, Andrzej Kotlicki: Optical switching by controllable frustration of total internal reflection. The University of British Columbia, Jun, 3 2003: US 6574025, Apr, 23 2002: US 6377383, Aug, 8 2002: US 20020105709