

ENGINEERED PACKAGING AND DISTRIBUTION RESEARCH GROUP

RECENT RESEARCH PUBLICATIONS

| | Papers in Refereed Journals | |
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| 21 | Kolasani, A. Xu, H and Millikan , M. Evaluation of mineral content of Chinese Medicinal herbs used to improve kidney function with chemometrics. Food Chemistry (in press) 2011. | A* |
| 20 | Sek M.A. (2008) Numerical simulation of a collapsible nonlinear structure subjected to impacts, Australian Journal of Mechanical Engineering. Vol.6, No 2, pp 135-142 (Invited paper). | C |
| 19 | Garcia-Romeu M., Sek M.A. and Cloquell-Ballester V.A. (2009) Effect of initial pre-compression of corrugated paperboard cushions on shock attenuation characteristics in repetitive impacts. International Journal of Packaging Technology and Science, vol 22, pp 323-334 | B |
| 18 | Kolasani, A. Xu, H and Millikan , M. Evaluation of mineral content of Chinese Medicinal herbs used to improve kidney function with chemometrics. Food Chemistry in press 2011. | A* |
| 17 | Garcia-Romeu M.A. & Rouillard V. (2010) On the Statistical Distribution of Road Vehicle Vibrations. Journal of Packaging Technology and Science (in press) | B |
| 16 | Rouillard V. & Sek M.A. Synthesizing Nonstationary, Non-Gaussian Random Vibrations. Journal of Packaging Technology and Science Vol 23(8), pp 423 – 487 | B |
| 15 | Rouillard V. (2010) Statistical Models for Nonstationary and Non-Gaussian Road Vehicle Vibrations Engineering Letters, Volume 17 Issue 4, Pages 227 – 237 | - |
| 14 | Rouillard V. (2010) Decomposing Pavement Surface Profiles into a Gaussian Sequence. Journal of Vehicle Systems Modelling and Testing Vol 4(4) pp 288 – 305 | B |
| 13 | Rouillard V. & Lamb M. (2009) On the influence of trigger level in distribution vibration surveys. Journal of Packaging Technology and Science Vol 22(4), pp 229 - 240 | B |
| 12 | Rouillard V. (2008) Generating Road Vibration test Schedules from Pavement Profiles for Packaging Optimisation. Journal of Packaging Technology and Science, Vol 21(8), pp 501-514 | B |
| 11 | Rouillard V. & Lamb M. (2008) On the Effects of Sampling Parameters when Surveying Distribution Vibrations. Journal of Packaging Technology and Science, Vol 21(8), pp 467-477 | B |
| 10 | P. Suppakul, K. Sonneveld, S. W. Bigger and J. Miltz, "Efficacy of Polyethylene-Based Antimicrobial Films Containing Basil Extracts", LWT - Food Sci. Technol., 41 , 779-788 (2008). | C |
| 9 | M. J. Cran and S. W. Bigger , "The Effect of Metallocene-Catalyzed Polyethylene on the Physicomechanical Properties of Blends with High-Density Polyethylene or Low-Density Polyethylene", Polym.-Plast. Technol. Eng., 48 , 272-279 (2009). | C |
| 8 | M. J. Cran , L. A. S. Rupika, K. Sonneveld, J. Miltz and S. W. Bigger , "Release of Naturally-Derived Antimicrobial Agents from LDPE Films", J. Food Sci., 75 , E126-133 (2010). | A |
| 7 | K. K. Kuorwel, M. J. Cran , K. Sonneveld, J. Miltz and S. W. Bigger , "Antimicrobial Activity of Natural Agents Against Saccharomyces cerevisiae", Packag. Technol. Sci., (in press). | B |
| 6 | Xiaodong Dai, Linda Zou, Zifeng Yan and Mary Millikan (2009) Absorption characteristics of N-nitrosodimethylamine from aqueous solutions on surface-modified activated carbons, J. Hazardous Materials 168, 51-56. | A |
| 5 | A. Kolasani, H. Xu and M. Millikan (2010) Analysis of Metals in Plant Parts of Selected Chinese Herbs by Near Infrared Spectroscopy, Fresenius Environmental Bulletin, 19(2) 131-136. | C |
| 4 | T. Seddon, M. Maxxa, S. Rochfort, M. B. Millikan and M. Downey (2010) Variation in Condensed Tannin Content, Composition and Polymer Length Distribution in Grape Skins, accepted. Am. J. Enol | B |
| 3 | Trevean, H. Xu, H & Millikan , M (2010) Bioactive elements in Si Wu Tang' Aust. J. Acupuncture and | C |

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| | Chinese Medicine, accepted, (under revision) | |
| 2 | Thorpe , G. R. (2008) The application of computational fluid dynamics codes to simulate heat and moisture transfer in stored grains, J. Stored Prod. Res., 44(1), pp 21-31. | B |
| 1 | Thorpe , G. R. (Accepted subject to revision) A mathematical model of the dispersion of fumigants in stored grains. Pest Management Science | A |
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| | Conference Proceedings (peer reviewed) | |
| 28 | M.B. Millikan , G. Thorpe and M. Yusuf. 2010 Determination of the rate of decay of several pesticides on fresh fruit, RACI, 13th national convention in conjunction with the 12th IUPAC International Congress of Pesticide Chemistry, 4 – 8th July 2010, Melbourne Convention & Exhibition Centre Melbourne, Australia. | |
| 27 | Yusuf, M and Millikan , M. 2010 Shelf life-studies of oranges stored at a series of low temperatures. 43rd Annual Convention, 25-28th July, 2010, Sebel Albert Park, Melbourne. | |
| 26 | Trevean, H, Xu, H & Millikan . 2010 Analysis of Chinese herbal tea used for women’s health. 43rd Annual Convention, 25-28th July, 2010, Sebel Albert Park, Melbourne. | |
| 25 | Kolasani, A ,Xu, H and Millikan , M. 2010 Analysis of the metal content of some Chinese herbs from different parts of the plant, 43rd Annual Convention, 25-28th July, 2010,Sebel Albert Park , Melbourne, Australia. | |
| 24 | M. Yusuf and M.B. Millikan . 2010 Near Infrared Analysis of Volatile Oils from Citrus Fruit Stored at Low Temperatures, RACI 4th Australian Near Infrared Spectroscopy Conference, 18 – 21st April 2010. National Wine Centre, Adelaide, South Australia. | |
| 23 | Trevean, H. Xu. H & Millikan , M. 2009 Extraction efficiencies of several Chinese herbs. 11th Government Food Analysts Conference, February 22-24, 2009, Parkville, Melbourne, Australia. | |
| 22 | Trevean, H. Xu, H & Millikan , M. 2009 ‘Metal analysis of Si Wu Tang’, Australian Acupuncture and Chinese Medicine Conference, May 2009, Melbourne, Australia. | |
| 21 | Rouillard V & Sek M.A. (2010) A Practical Method for Estimating Ground Vehicle Frequency Response Function from Response Data. Proceedings of the sixth Australian Congress on Applied Mechanics, Perth , Australia. (Proceedings on disk) | |
| 20 | Lamb M, Rouillard V & Ainalis D. (2010) A multi-resolution time domain technique for monitoring fatigue progression in elements subjected to random loads. Proceedings of the sixth Australian Congress on Applied Mechanics, Perth , Australia. (Proceedings on disk) | |
| 19 | Lamb M, Rouillard V & Ainalis D. (2010) A practical study of Fourier analysis for monitoring fatigue progression in elements subjected to random loads. Proceedings of the sixth Australian Congress on Applied Mechanics, Perth, Australia. (Proceedings on disk) | |
| 18 | Lamb M, Rouillard V & Ainalis D. (2010) An Adaptive Impulse Response Technique for Evaluating the Performance of Structural Elements. Proceedings of the 21st Australian Conference on the Mechanics of Structures and Materials, Melbourne, Australia pp 769 – 773 | |
| 17 | Lamb M, Rouillard V & Ainalis D. (2010) A Practical Approach to Fourier Analysis for Monitoring Structural Integrity. Proceedings of the 21st Australian Conference on the Mechanics of Structures and Materials, Melbourne, Australia pp763 – 768 | |
| 16 | Rouillard V. & Sek M. (2009) A Method for the Laboratory Synthesis of Non-Gaussian Vehicle Vibrations. Proceedings of SimtectT 2009 Simulation conference, Adelaide, Australia. | |
| 15 | Rouillard V. (2008) Decomposing pavement profile data into a Gaussian sequence. Proceedings of the 23rd Australian Road Research Board Conference, Adelaide, Australia. | |

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| 14 | Lamb M. & Rouillard V. (2009) Some issues when using Fourier analysis for the extraction of modal parameters. Proceedings of the 7th International Conference on Modern Practice in Stress and Vibration Analysis, Cambridge, UK. Journal of Physics, Conference series V 181. | |
| 13 | Thorpe , G. R. (2010). Omni-science: Transformative approaches to postharvest technology. 10th International Working Conference on Stored Products Protection. Estoril, Portugal, 27th June – 1st July 2010. | |
| 12 | Jafar, F. A, Thorpe , G. R & Turan, Ö. F 2009, 'Liquid Jet Impingement without and with Heat Transfer', paper presented to 2009 ASME Summer Heat Transfer Conference, San Francisco, California, USA, 19-23 July. | |
| 11 | Jafar, F. A, Thorpe , G. R & Turan, Ö. F 2010, 'Experimental and Numerical Study of Flow Behavior of Liquid Falling Filling on Horizontal Plain Cylinders' International Heat Transfer Conference IHTC - 14, Washington D. C., USA, August 8-13. | |
| 10 | Jafar, F. A, Thorpe , G. R & Turan, Ö. F 2010, 'Falling Film Transitions on Plain Horizontal Horizontal Circular Cylinders' 2010 17th Australasian Fluid Mechanics Conference (AFMC), Auckland, New Zealand, 5-9 December. | |
| 9 | Jafar, F. A, Thorpe , G. R & Turan, Ö. F 2009, 'Toward the Detailed Simulation of the Heat Transfer Processes in Unsaturated Porous Media', paper presented to 2009 ASME Summer Heat Transfer Conference, San Francisco, California, USA, 19-23 July. | |
| 8 | Saraireh, M., Thorpe , G., and Li, J.D. 2011 Simulation of Heat and Mass Transfer Involving Vapour Condensation in the Presence of Non-Condensable gases in Plane Channels, Proceedings of AJTEC2011, AJTEC2011-44138, ASME/JSME 2011 8th Thermal Engineering Joint Conference, March 13-17, 2011, Honolulu, Hawaii, USA. | |
| 7 | Saraireh, M., Li, J.D. and Thorpe , G. 2010, Modelling of Heat and Mass Transfer involving Vapour Condensation in the Presence of Non-Condensable Gases, 17th Australasian Fluid Mechanics Conference, Auckland, New Zealand, 5-9 December, 2010. | |
| 6 | L.B. Swinden and M. Millikan (2008) Analysis of Bread Products For Dietary Fibre and Cadmium Content, Proceedings of 58th Australian Cereal Chemistry Conference, Ed(s)., J.F. Panozzo and C.K. Black, RACI, North Melbourne, Victoria, 241 – 244. | |
| 5 | M. Millikan and L.B. Swinden (2008) Analysis of bread products dietary fibre and cadmium content, 58th Australian Cereal Chemistry Conference, Surfers Paradise, Queensland, September 2008. | |
| 4 | M. Yusuf and M.B. Millikan (2010) Near Infrared Analysis of Volatile Oils from Citrus Fruit Stored at Low Temperatures, RACI 4th Australian Near Infrared Spectroscopy Conference, 18 – 21st April 2010. | |
| 3 | Yusuf, M and Millikan , M (2010) Shelf life-studies of oranges stored at a series of low temperatures, 43rd Annual Convention, Sebel Albert Park , Melbourne, 25-28th July, 2010. | |
| 2 | Kolasani, A ,X u, H & Millikan , M (2010) Analysis of the metal content of some Chinese herbs from different parts of the plant, 43rd Annual Convention, Sebel Albert Park , Melbourne, 25-28th July, 2010. | |
| 1 | M. Millikan , M. Yusuf, J.F. Boas and G.J. Troup (2010) Analysis of Nutritional and Quality Parameters of Selected Wheat Flour Cultivars, 2010 Australian Cereal Science Conference, RACV Club, Melbourne, 19th-22nd September, 2010. | |
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| | Conference Proceedings | |
| 19 | Rouillard V & Sek M.A. (2010) How Can my Controller Produce More Realistic Random Vibrations? Second European Packaging Symposium, Valencia, Spain | |
| 18 | Rouillard V & Sek M.A. (2010) A Novel Method for Simulating Transport Vibrations. 17th | |

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| | International Association of Packaging Research Institutes' World Conference on Packaging, Tianjin, China. | |
| 17 | Rouillard V & Sek M.A. (2010) A Practical Method for Estimating Ground Vehicle Frequency Response Function from Response Data. 17th World Conference on Packaging, Tianjin, China. | |
| 16 | Rouillard V. & Sek M. (2010) Synthesizing nonstationary, non-gaussian wheeled vehicle vibrations. Proceedings of the 11th International Heavy Vehicle Symposium (HVTT11), Melbourne, Australia. | |
| 15 | Lamb M. & Rouillard V. (2009) Adaptive Impulse Response for Determining Damage during Fatigue Testing. Proceedings of the SEM Annual Conference & Exposition on Experimental and Applied Mechanics, Albuquerque, NM, USA. | |
| 14 | Lamb M. & Rouillard V. (2009) Limitations of Fourier-Based Spectral Analysis for Monitoring Structural Integrity. Proceedings of the SEM Annual Conference & Exposition on Experimental and Applied Mechanics, Albuquerque, NM, USA. | |
| 13 | Sek M. Rouillard V. (2009) Synthesizing Non-Gaussian Vibrations for Performance Evaluation of Packaging Systems. Proceedings of the 24th International Association of Packaging Research Institutes' Symposium on Packaging, Greenville, NC, USA. | |
| 12 | Rouillard V. & Sek M. (2009) On the Elevated Kurtosis of Vehicle Vibration. Proceedings of the 24th International Association of Packaging Research Institutes' Symposium on Packaging, Greenville, NC, USA. | |
| 11 | Gracia-Romeu M.A. & Rouillard V. (2008) On the statistical distribution of road vehicle vibrations. Proceedings of the 16th IAPRI World Conference on Packaging, Bangkok, Thailand. | |
| 10 | Rouillard V. & Lamb M. (2008) On the Effects of trigger level when undertaking distribution vibration surveys. Proceedings of the 16th IAPRI World Conference on Packaging, Bangkok, Thailand. | |
| 9 | C. Rardniyom, J. Miltz, S. W. Bigger and K. Sonneveld, "Parameters Affecting the Design of Antimicrobial Films", Proc. 16th IAPRI World Conference on Packaging, Bangkok, Thailand, 8th - 12th June, 2008, Paper O7-01, CD ROM. | |
| 8 | L. A. S. Rupika, K. Sonneveld, M. J. Cran , S. W. Bigger and J. Miltz, "Modelling the Microbial Inactivation of Films Containing Thymol or Carvacrol", Proc. 16th IAPRI World Conference on Packaging, Bangkok, Thailand, 8th - 12th June, 2008, Paper O7-02, CD ROM. | |
| 7 | M. J. Cran , L. A. S. Rupika, K. Sonneveld, J. Miltz and S. W. Bigger , "Migration of Natural Antimicrobial Agents from Low-Density Polyethylene Films", Proc. 24th IAPRI Symposium on Packaging, Greenville, South Carolina, USA, 17th - 20th May, 2009, Paper P23, CD ROM. | |
| 6 | L. A. S. Rupika, M. J. Cran , K. Sonneveld, J. Miltz and S. W. Bigger , "Efficacy of Combined Antimicrobial Agents in Food Packaging Films", Proc. 24th IAPRI Symposium on Packaging, Greenville, South Carolina, USA, 17th - 20th May, 2009, Paper P24, CD ROM. | |
| 5 | K. K. Kuorwel, M. J. Cran , S. W. Bigger , K. Sonneveld and J. Miltz, "The Effect of Water Activity and Relative Humidity on the Mechanical Properties of Starch-Based Packaging Films", Proc. 17th IAPRI World Conference on Packaging, Tianjin, China, 12th - 16th October, 2010, pp. 627-630, Scientific Research Publishing (SRP) Inc., USA, CD ROM, ISBN 978-1-935068-36-5. | |
| 4 | K. K. Kuorwel, M. J. Cran , S. W. Bigger , K. Sonneveld and J. Miltz, "The Antimicrobial Activity of Carvacrol and Linalool Against S. aureus for the Packaging of Cheddar Cheese", Proc. 17th IAPRI World Conference on Packaging, Tianjin, China, 12th - 16th October, 2010, pp. 631-634, Scientific Research Publishing (SRP) Inc., USA, CD ROM, ISBN 978-1-935068-36-5. | |
| 3 | K. K. Kuorwel, M. J. Cran , K. Sonneveld, J. Miltz and S. W. Bigger , " Migration of Carvacrol from Starch-Based Film into Food Simulant", Twelfth Government Food Analysts' Conference: Technology for Food Quality, Brisbane, QLD, 22nd – 24th February 22-24, 2011. | |

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| 2 | Jafar, F. A, Thorpe , G. R & Turan, Ö. F 2009, 'Flow Mode Characterisation of Liquid Films Falling on Horizontal Plain Cylinders', paper presented to Seventh International Conference on CFD in the Minerals and Process Industries , CSIRO, Melbourne, Australia, 9-11 December. | |
| 1 | Minett , M., Shehab, H., 2008, Study into Creep Characteristics of Multi-layered Corrugated Fibre Board Protective Cushions, 16th IAPRI World Conference on Packaging, Bangkok Thailand. | |
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| | Reviews | |
| 1 | K. K. Kuorwel, M. J. Cran , K. Sonneveld, J. Miltz and S. W. Bigger , "Antimicrobial Activity of Biodegradable Polysaccharide and Protein-Based Films Containing Active Agents", J. Food Sci., (in press). | |