

## Conference papers

1. C.J. Baker, R.G. Gawthorpe, 1983 "The effect of turbulence simulation on the wind induced loads on ground vehicles", A.S.M.E. Symposium on Ground Vehicle Aerodynamics, Aerodynamics of transportation II, 1-9
2. C.J. Baker, C.G. Robinson, 1988 "The assessment of wind tunnel testing techniques for ground vehicles in cross winds" BBAA Conference, Kyoto, Japan
3. S. Coleman, C.J. Baker, 1989 "High sided road vehicles in cross winds", USA Wind Engineering Conf., Houston
4. C.J. Baker, N. Brockie, 1989 "Wind tunnel tests to obtain train aerodynamic drag coefficients - Reynolds number and ground simulation effects", 8th Colloquium on Industrial Aerodynamics, Aachen
5. C.J. Baker, 1989 "General Report on Drainage", UNBAR 3, Butterworths, Paper 7-8.
6. S. Wakes, S. Hibberd, C.J. Baker, 1990 "The growth of sand waves" Conference on free boundary problems, Montreal
7. H. Bell, A. Dawson, C.J. Baker, C.J. Wright, 1990 "The question of tree stability") Arboricultural Research seminar, York
8. S Hibberd, C.J. Baker, S Wakes. 1991. "A two layer model of sand bed instability in aeolian flow" 8th International Conference on Wind Engineering, London, Ontario
9. S.J. Wakes, S. Hibberd, C.J. Baker, 1990 "Growth of a sand wave" IMA Conference on Computer Modelling in the Environmental Sciences, Kegworth
10. C.J. Baker, H.J. Bell, 1991 "The aerodynamics of urban trees" 8th International Conference on Wind Engineering, London Ontario
11. N.D. Humphreys, C.J. Baker, 1991 "Forces on vehicles in cross winds from moving model experiments" 8th International Conference on Wind Engineering, London Ontario
12. S Coleman, C Baker, 1991 "Reduction of accident risk for high sided vehicles in cross winds." 8th International Conference on Wind Engineering, London, Ontario
13. N.D. Humphreys, C.J. Baker, 1992 "The aerodynamic forces and moments on lorries in cross winds." Wind Engineering Society Conference poster, Cambridge, 1992
14. H.J. Roodbaraky, C.J. Baker, A.R. Dawson, C.J. Wright, 1992 "Experimental observations of the aerodynamic characteristics of urban trees." Wind Engineering Society, Cambridge
15. C.J. Baker, 1992 "The quantification of accident risk for road vehicles in cross winds." Wind Engineering Society Conference, Cambridge
16. X.D. Yang, C.J. Baker, P.J. Kettlewell, A.M. Meehan, 1992 "Preliminary research on the aerodynamic ventilation characteristics of chicken transporter lorries" Wind Engineering Society Conference, Cambridge
17. RP. Hoxey, A.M. Meehan, X. Yang, C.J. Baker, 1992 "Full scale pressure measurements on an animal transport vehicle" Wind Engineering Society Conference, Cambridge
18. C.W. Williams, C.J. Baker, 1992 "Developing models for the prediction of wind loadings on roofs" Wind Engineering Society Conference, Cambridge
19. D.M. King, C.J. Baker, 1992 "Wind influence on waves in the surf zone" Wind Engineering Society Conference, Cambridge
20. C.J. Baker, 1992 "The behaviour of road vehicles in unsteady cross winds", BBAA2 Conference, Melbourne, Australia.
21. C.W. Williams, C.J. Baker, 1993 "The development of semi-empirical models for the

- prediction of wind loading on roofs" IAWE European and African Regional Conference, Guernsey
22. D.M. King, C.J. Baker, 1993 "Wind / wave interaction in the surf zone", IAWE European and African Regional Conference, Guernsey
  23. X.D. Yang, C.J. Baker, P. Kettlewell, R Hoxey, 1993 "Modifying vehicle aerodynamics to improve the ventilation of animal transport vehicles", IAWE European and African Regional Conference, Guernsey
  24. C.J. Baker, 1994 "Outline of a novel method for the prediction of atmospheric pollution dispersal from road vehicles", East European Wind Engineering Conference, Warsaw
  25. N.D. Humphreys, C.J. Baker, 1994 "The application of wind engineering techniques to moving ground vehicles", RAeS / Wind Engineering Society conference on Vehicle Aerodynamics, Loughborough
  26. J. Griffin, R.K. Scott and R. Sylvester Bradley, C.J. Baker, 1994 "Lodging - the development of a risk assessment technique based on a mechanical model" Poster at Conference on Plant Biomechanics, Montpellier
  27. N.D. Humphreys, C.J. Baker, 1994 "The use of moving model rig tests to determine vehicle cross wind forces", Wind Engineering Society Conference, Warwick
  28. W. Pearce, C.J. Baker. 1994. "The dispersion of vehicular pollutants in urban areas" Wind Engineering Society Conference poster, Warwick
  29. S. Saunderson, C.J. Baker, A. England, 1994 "Theoretical modelling of the behaviour of urban trees in high winds" Wind Engineering Society Conference poster, Warwick
  30. C.J. Baker, 1994 "The use of wind engineering techniques in understanding the wheat lodging problem." Wind Engineering Society Conference poster, Warwick.
  31. S Dalley, C.J. Baker, P.J. Kettlewell, R. Hoxey, 1994 "Improving the ventilation characteristics of poultry transport vehicles" Wind Engineering Society Conference poster, Warwick
  32. A.S. Quinn, C.J. Baker, P.J. Kettlewell, 1994 "A preliminary investigation of the ventilation of a chick transport vehicle" Wind Engineering Society Conference poster, Warwick
  33. G.C. Chaplin, J.M. Randall, C.J. Baker, 1994 "Predicting ventilation in gust driven flows", Wind Engineering Society Conference poster, Warwick
  34. C J Baker, N Humphreys, 1994 "Assessment of the adequacy of various wind tunnel techniques to obtain aerodynamic data for ground vehicles in cross winds" Wind Engineering Society Conference, Warwick
  35. C.J. Baker, D.M. King, 1995 "The interaction of wind and waves in the surf zone" Proc 9th International Conference on Wind Engineering, Dehli
  36. C.J. Baker, 1996 "Aerodynamic aspects of the behaviour of isolated trees in high winds", BBAA3 Conference, Blacksburg, Virginia
  37. C.J. Baker, 1996 "Modelling issues arising from studies of the aerodynamic and ventilation characteristics of poultry transport vehicles." BBAA3 Conference, Blacksburg, Virginia.
  38. D.M. Hargreaves, C.J. Baker, 1996 "Gaussian puff model of an urban street canyon" BBAA3 Conference, Blacksburg, Virginia
  39. G.C. Chaplin, J.M. Randall, C.J. Baker, 1996 "Ventilation flow and internal pressure response to sinusoidal external pressures: Theory and experiment", BBAA3 Conference, Blacksburg, Virginia
  40. W. Pearce, C.J. Baker, 1996 "Wind tunnel tests on the influence of vehicular motion on

pollutant dispersion in an urban street canyon" BBAA3 Conference, Blacksburg, Virginia

41. Z.E. Hider, S Hibberd, C.J. Baker, 1996 "Modelling particulate dispersion in the wake of a vehicle" Computational Wind Engineering 3 Conference, Fort Collins, Colorado
42. A.D. Quinn, C.J. Baker, 1996 "An investigation of the ventilation of a day old chick transport vehicles" Computational Wind Engineering Conference 3, Colorado
43. W. Pearce, C.J. Baker, 1996 "Wind tunnel tests on the dispersion of vehicular pollutants in an urban area" Wind Engineering Society conference, Oxford
44. C.J. Baker, 1996 "A method for the assessment of the risk of wheat lodging" Wind Engineering Society conference, Oxford.
45. S.J. Dalley, C.J. Baker, 1996 "Advances in the ventilation of poultry vehicles" Wind Engineering Society conference, Oxford
46. M Straw, C.J. Baker, 1996 "A model of natural gas dispersion in and above the urban environment" Wind Engineering Society conference poster, Oxford
47. G Easom, C.J. Baker, 1996 "Developments of the British Rail Wind Loading Code" Wind Engineering Society conference poster, Oxford
48. D.M. Hargreaves, C.J. Baker, 1996 "Analytical and experimental investigations of vehicle emissions" Wind Engineering Society conference poster, Oxford
49. T Prevezer, R.P. Hoxey, C.J. Baker, 1996 "Analysis of the unsteady wind loading on the Silsoe Structures Building" Wind Engineering Society conference poster, Oxford
50. C.J. Baker, 1996 "Railway aerodynamics and infrastructure", Proceedings of Railtech conference, Birmingham
51. C.J. Baker, D.M. Hargreaves, 1996 "Urban air pollution from road traffic - statistical and deterministic approaches" Proceedings of SCORUS conference, Madrid.
52. A.D. Quinn, C.J. Baker, 1996 "An investigation of the ventilation of a day old chick transport vehicle" 28th meeting of the Agricultural Research Modellers Group, Abstract in Journal of Agricultural Science, 127, 131
53. A. Namdeo, J. Colls, C.J. Baker, 1997 "Particulate pollution from motor vehicles in an urban street canyon in Nottingham, UK" 4th International Symposium "Transport and air pollution", Avignon
54. T. Prevezer, C.J. Baker, R. Hoxey, 1997 "Unsteady pressure fluctuations on a low rise building", 2nd European and African Conference on Wind Engineering
55. P.M. Berry, R Sylvester-Bradley, R.K. Scott, R.W. Clare, J.H. Spink, C.J. Baker, 1998 "Factors affecting lodging", HGCA Conference, Cambridge.
56. A. Namdeo, J. Colls, C.J. Baker, 1998 "Resuspension and dispersion of fine and coarse particulates in the wake of motor vehicles in an urban street canyon" 6th International Highway and Urban Pollution Symposium, Milan, 1998
57. A. Namdeo, J. Colls, C.J. Baker, 1998 "The size spectrum of particulate pollution in an urban street canyon", 6th International Highway and Urban Pollution Symposium, Milan, 1998
58. C.J. Baker, 1998 "The effects of high winds on vehicle behaviour", Keynote lecture, Conference on Bridge Aerodynamics, Copenhagen, in "Bridge Aerodynamics" editors A Larsen, S Esdahl, Balkema, 267-282.
59. C.J. Baker, 1998 "Student experience of using BS6399", Wind Engineering Society Conference, Bristol
60. M.P. Straw, C.J. Baker, 1998 "Modelling wind induced ventilation of structures" Wind Engineering Society Conference, Bristol

61. T. Prevzer, R.P. Hoxey, C.J. Baker, 1998. "Aspects of unsteady flow around low rise buildings", Wind Engineering Society Conference, Bristol
62. C.J. Baker, 1998 "The use of the technique of orthogonal modal decomposition in understanding the unsteady wind driven ventilation of buildings", Wind Engineering Society Conference, Bristol
63. W. Pearce, C.J. Baker, 1998 "Unsteady loads on ground vehicles in cross winds", Wind Engineering Society Conference, Bristol.
64. W. Pearce, C.J. Baker, 1998. "Measurement of the unsteady crosswind forces and moments on ground vehicles." MIRA Conference on Vehicle Aerodynamics, Birmingham.
65. C.J. Baker, 1999 "The wind tunnel determination of crosswind forces and moments on a high speed train" Proceedings TRANSAERO Conference, Paris, Balkema.
66. M.P. Straw, C.J. Baker, A.P. Robertson, 1999, "Experimental measurements and computations of the wind induced ventilation of a cubic structure", Proceedings 10th International Conference on Wind Engineering, Copenhagen, Balkema
67. C.J. Baker, 1999 "Aspects of the use of the technique of orthogonal decomposition of surface pressure fields" Proceedings 10th International Conference on Wind Engineering, Copenhagen, Balkema
68. S. Saunderson, A. England, C.J. Baker, 1999 "Modelling the failure of trees in high winds" Proceedings 10th International Conference on Wind Engineering, Copenhagen, Balkema (30%).
69. A.D. Quinn, C.J. Baker, N.G. Wright, 2000 "The measurement and codification of forces on portable road signs" BBAA Conference, Bochum
70. X. Cai, Z. Cui, C.J. Baker, 2000 "Calculation of the dispersion of particles in urban street canyons using LES techniques", CWE2000, Birmingham
71. K.A. Richards, N.G. Wright, C.J. Baker, A. Baxendale, 2000 "Computational modelling of pollution dispersion in the near wake of vehicles", CWE2000, Birmingham
72. C.J. Baker, 2000 "Speculations on the use of CFD techniques in the structural design process", CWE2000, Birmingham
73. C.J. Baker, 2000 "Unsteady wind loading on a wall", BBAA Conference, Bochum
74. C.J. Baker, S.J. Dalley, T. Johnson, M. Brown, A. Gaylard, A.D. Quinn, N. Wright, 2000 "Measurements of the slipstream and wake of a model lorry", Proceedings of MIRA Conference on Vehicle Aerodynamics, Rugby
75. K Richards, N Wright, C.J. Baker, A Baxendale, 2000 "Computational modelling of pollutant dispersion in the near wake of a vehicle" Proceedings of MIRA Conference on Vehicle Aerodynamics, Rugby
76. M. Sterling, C.J. Baker, P. Berry, 2001 "Modelling lodging in cereal crops" Abstract presented at Agricultural Modellers meeting, Royal Society, London, published in Journal of Agricultural Science
77. C.J. Baker, S. Kho, A. Robertson, 2001 "Unsteady wind induced loads in structural members", 3<sup>rd</sup> European and African Conference on Wind Engineering, Eindhoven, Holland 83-90
78. S Kho, C.J. Baker, R Hoxey, 2001 "POD/ARMA reconstruction of the surface pressure field around a low rise structure" Asia Pacific Conference on Wind Engineering, Kyoto, Japan 2001
79. M. Sterling, C.J. Baker, P.M. Berry, D.L. Sparkes, J. Spink, A. Wade, R. Sylvester-Bradley, 2001 "Lodging - wind induced forces on wheat crops", 3<sup>rd</sup> European and African

Conference on Wind Engineering, Eindhoven, Holland 443-450

- 80 P. Berry, J. Spink, R. Sylvester-Bradley, A. Pickett, M. Sterling, C.J. Baker, N. Cameron, 2002 "Lodging control through variety choice and management" HGCA Conference, Agronomic intelligence; the basis for profitable production, Coventry
- 81 C. J. Baker, E. Canepa, A. Sanz-Andres, 2002 "Pollution dispersion below the urban canopy" in Impact of wind and storm on city life and the built environment, Proceedings of the COST C14 Workshop, CSTB, Nantes, 48-59
- 82 C.J. Baker, 2002 "Some complex applications of the "wind loading chain" ", Proceedings of the Alan Davenport Symposium, London, Ontario
- 83 X .Cai, Z. Cui, C.J. Baker, 2002 "Dispersion of passive plumes inside and above a street canyon – a large-eddy simulation", Proceedings of UWERN Conference, Leeds
- 84 M. Sterling, C.J. Baker, P.M. Berry, J.H. Spink, A. Wade, R. Sylvester-Bradley, D.L. Sparkes, 2002 "Dynamic Loading of cereal crops", Wind Engineering Society Conference, Nottingham
- 85 T. Huggins, C.J. Baker, R.P. Kinnersley, 2002 "Wind and vehicle induced turbulence very close to a road surface", Wind Engineering Society Conference, Nottingham
- 86 X. Cai, Z. Cui, C.J. Baker, 2002 "Large eddy simulation of turbulent flow within an urban street canyon", Wind Engineering Society Conference, Nottingham
- 86 C.J. Baker, F. Lopez-Calleja, J. Jones, J. Munday, 2003 "Measurements of the cross wind forces on trains" Proceedings 11<sup>th</sup> International Conference on Wind Engineering, Lubbock, Texas (90%)
- 87 M. Sterling, C.J. Baker, R. Hoxey, 2003 "Unsteady wind loading on a low rise building", Proceedings 11<sup>th</sup> International Conference on Wind Engineering, Lubbock, Texas
- 88 P. Richards, C.J. Baker, R. Hoxey, 2003 "Turbulent event sequencing in the atmospheric surface layer", Proceedings 11<sup>th</sup> International Conference on Wind Engineering, Lubbock, Texas
- 89 M. Sterling, C.J. Baker, P.M. Berry, 2003 "Experimental analysis of the wind induced failure of wheat crops", Proceedings of the Conference on Wind Effects on Trees, Karlsruhe
- 90 C.J. Baker, J. Jones , F. Lopez-Calleja, 2003 "Measurements of the cross wind forces on Mark 3 and Class 390 vehicles", Proceedings World Congress on Railway Research, Edinburgh
- 91 C.J. Baker, 2004 "Wind effects in the urban environment – considerations for human health, comfort and safety", ISWE Tokyo, Japan
- 92 C.J. Baker, 2004 "The slipstreams and wakes of cars and lorries", COST C14 Conference, Brussels
- 93 C.J. Baker, 2004 "COST C14 Working Group 1 Final Report", COST C14 Conference Brussels
- 94 C.J. Baker, M. Sterling, T. Huggins, A.D. Quinn, 2004 "The slipstreams and wakes of ground vehicles", BBAA Conference, Ottawa
- 95 C.J. Baker, M. Sterling, 2004, "The effects of the slipstreams of passing high speed trains on waiting passengers", Wind Engineering Society Conference, Cranfield
- 96 C.J. Baker, M. Sterling, A.D. Quinn, R. Hoxey, 2004 "Pressure and velocity fluctuations in the atmospheric boundary layer", Wind Engineering Society Conference, Cranfield
- 97 C.J. Baker, 2004 "The overturning of road and rail vehicles in high winds", Keynote Address Italian Wind Engineering Conference

- 98 C.J. Baker, 2004 "Solutions of the debris equations", Wind Engineering Society Conference, Cranfield
- 99 C.J. Baker, 2004 "Wind effects in the urban environment", ERCOFTAC meeting on Urban CFD, Nottingham
- 100 S. Huang, M. An, C.J. Baker, 2004. "Safety Management in the UK Railway Network" Railway Engineering 2004, London. ISBN 0-947644-54-7
- 101 C.J. Baker 2005 "Wind Engineering – past, present and future", Keynote lecture, 4<sup>th</sup> European and African Regional Conference on Wind Engineering, Prague
- 102 C.J. Baker, 2005 "Solutions of the debris equations", 4<sup>th</sup> European and African Regional Conference on Wind Engineering, Prague
- 103 P. Delpech, C.J. Baker, P.A. Blackmore, H. Koss, A. Sanz-Andres, T. Stathopoulos, E. Willemsen, 2005 "Pedestrian wind comfort assessment criteria: A comparative case study", 4<sup>th</sup> European and African Regional Conference on Wind Engineering, Prague (
- 104 S.C. Jordan, M. Sterling, C.J. Baker, 2005 "Evaluating the response of an individual to a sudden change in wind speed", 4<sup>th</sup> European and African Regional Conference on Wind Engineering, Prague
- 105 V. Durañona, C.J Baker, M. Sterling, 2005 "An analysis of extreme non synoptic winds", 4<sup>th</sup> European and African Regional Conference on Wind Engineering, Prague
- 106 C J Baker, 2005 "The overturning of road and rail vehicles in high winds", Proceedings Asia Pacific Regional Conference on Wind Engineering, Prague
- 107 J.Th. Snæbjörnsson, C.J. Baker, R. Sigbjörnsson, 2005 "Probabilistic assessment of road vehicle safety in windy environments", 4<sup>th</sup> European and African Regional Regional Conference on Wind Engineering, Prague
- 108 Y Ding, M Sterling and C.J. Baker, 2005 "Unsteady crosswind forces on trains and corresponding aerodynamic parameters", 4<sup>th</sup> European and African Regional Conference on Wind Engineering, Prague
- 109 C J Baker, M Sterling, G Figura-Hardy, T Johnson, I Bowman, C Pope, R Gawthorpe, 2006 "The effect of train slipstreams on passengers and trackside workers", World Congress on Railway Research, Montreal
- 110 Y Ding, M Sterling & C J Baker, 2006 "Setting the foundations for a revised model on train stability in high cross winds", MIRA Vehicle Aerodynamics Conference
- 111 C.J. Baker, 2006 "Wind Engineering and the Emergency Planning Process", Wind Engineering Society Conference, Glasgow
- 112 AD. Quinn, C.J.Baker, A.P. Robertson, A. Bradley, M. Sterling, 2006 "Full Scale Investigation of the Side Wind Force on a Commercial Vehicle" MIRA Conference on Vehicle Aerodynamics
- 113 C .W. Pope, C.J. Baker, I.N.R. Bowman, J. N’Kaoua, 2006 "Safety of Slipstream Effects Produced by Trains: Pilot CFD Analysis of the Effect of Crosswinds on Train Slipstreams", MIRA Conference on Vehicle Aerodynamics
- 114 A.D. Quinn, C.J.Baker, A.P. Robertson, A. Bradley, M. Sterling, 2006 "Full Scale Investigation of the Side Wind Force on a Commercial Vehicle" UK WES Conference, Glasgow
- 115 M. Sterling, C.J. Baker, A D. Quinn, R.P. Hoxey, 2006 "An investigation of the velocity profile and extreme wind statistics at a rural site", UK WES Conference, Glasgow
- 116 V. Durañona, C.J. Baker, J. Cataldo, M. Sterling, A. Gravina, 2007 "Development of a theoretical model for the wind movement of citrus trees", International Conference on Wind Engineering, Cairns, Australia

- 117 C.J. Baker, M. Sterling, T. Johnson, G. Figura-Hardy, C. Pope, 2007 "The effect of crosswinds on train slipstreams", International Conference on Wind Engineering, Cairns, Australia
- 118 A. Scarabino, M. Sterling, C.J. Baker, P.J. Richards, R. Hoxey, 2007 "An analysis of the spatial structure of extreme wind events", International Conference on Wind Engineering, Cairns, Australia
- 119 A. McConville, M. Sterling, C.J. Baker, 2007 "An introduction of the scaling issues associated with the physical simulation of thunderstorm downbursts", International Conference on Wind Engineering, Cairns, Australia
- 120 N. Metje, M. Sterling, C.J. Baker, 2007 "Outdoor Comfort Study", International Conference on Wind Engineering, Cairns, Australia
- 121 C.J. Baker, A. Bouferrouk, J. Perez, S.D. Iwnicki, 2008 "The integration of cross wind forces into train dynamic calculations", World Congress on Rail Research, Seoul, S Korea
- 122 K. Dobney, C.J. Baker, A D. Quinn, L. Chapman, 2008 "Quantifying the Effects of High Summer Temperatures due to Climate Change on Buckling and Rail Related Delays in the UK". World Congress on Rail Research, Seoul, S Korea
- 123 C.J. Baker, M. Sterling, A. Bouferrouk, H. O'Neil, S. Wood, E. Crosbie, 2008 "Aerodynamic forces on multiple unit trains in cross winds", Bluff Body Aerodynamics and its Applications", Milano, Italy
- 124 M. Sterling, C.J. Baker, Bouferrouk A, H. O'Neil, S. Wood, E. Crosbie, 2008 "Investigation of the aerodynamic admittances and aerodynamic weighting functions of trains" Bluff Body Aerodynamics and its Applications", Milano, Italy
- 125 A. Bouferrouk, C.J. Baker, M. Sterling, H. O'Neil, S. Wood, 2008 "Calculation of the cross wind displacement of pantographs", Bluff Body Aerodynamics and its Applications", Milano, Italy
- 126 N. Gil, C.J. Baker, C. Roberts, D. Hargeaves, 2008 "The measurement of train slipstream characteristics using a rotating rail rig" Bluff Body Aerodynamics and its Applications", Milano, Italy
- 127 C.J. Baker, 2008 "The flow field around high speed trains", Keynote lecture, Bluff Body Aerodynamics and its Applications", Milano, Italy
- 128 H. Hemida, N. Gil, C.J. Baker, 2009 "Unsteady CFD simulations of a train slipstream", Proceedings 17<sup>th</sup> UK Conference on Computational Mechanics, Nottingham
- 129 P. Martinez-Vazquez, B. Kakimpa, D.M. Hargreaves, C.J. Baker, M. Sterling, A D. Quinn, J.S. Owen, 2009 "Predicting the flight of wind borne sheet type debris – an analytical and computational approach", 17<sup>th</sup> UK Conference on Computational Mechanics, Nottingham
- 130 C.J. Baker, 2009 "The effect of unsteady crosswind forces on train dynamic behaviour", 5<sup>th</sup> European and African Conference on Wind Engineering, Florence
- 131 P. Martinez-Vazquez, C.J. Baker, M. Sterling, A D. Quinn, 2009 "The Flight of Wind Borne Debris: An Experimental, Analytical, and Numerical Investigation. Part I (Analytical Model)" 5<sup>th</sup> European and African Conference on Wind Engineering, Florence
- 132 P. Martinez-Vazquez, C.J. Baker, M. Sterling, A D. Quinn, P. Richards, 2009 "The Flight of Wind Borne Debris: An Experimental, Analytical, and Numerical Investigation. Part II (Experimental work)", 7<sup>th</sup> Asia-Pacific Conference on Wind Engineering, Taipei, Taiwan
- 133 C. J. Baker, 2010, "The effect of cross winds on the trajectories of cricket balls", Wind

- Engineering Society Conference, Bristol
- 134 C. J. Baker, J. Quinn, J. E. Thornes, 2010, "The integration of wind storm calculations into resilience modeling", Wind Engineering Society Conference, Bristol
- 135 P. Martinez-Vazquez, C.J. Baker, M. Sterling, A.D. Quinn 2010 "Estimation of free flight trajectories of wind borne debris using eigenfaces for recognition". 6<sup>th</sup> International Symposium on Environmental Effects on Buildings and People: Actions, Influences, Interactions, Discomfort – EEBPVI, Cracow, Poland
- 136 H Hemida, C J Baker, 2010, "Flow around Freight Trains Subjected to Side Winds: Large Eddy Simulation", Wind Engineering Society Conference, Bristol
- 137 P. Martinez-Vazquez, C.J. Baker, M. Sterling, A.D. Quinn, 2010, "Parametric Study on Autorotating Plates", Wind Engineering Society Conference, Bristol
- 138 A D Quinn, M Sterling, C. J. Baker, E Ozkan, D Rocchi and F Dorigatti, 2010, "An Investigation of Cross Wind Forces on Road Vehicles on an Idealised Bridge", Wind Engineering Society Conference, Bristol
- 139 M Sterling, C J Baker (2010) "A reconsideration of some of the basic assumptions of wind engineering", 6<sup>th</sup> International Symposium on Environmental Effects on Buildings and People: Actions, Influences, Interactions, Discomfort – EEBPVI, Cracow, Poland
- 140 H Hemida, C Baker (2011)," The calculation of train slipstreams using Large Eddy Simulation techniques", World Congress of Rail Research, Lille
- 141 C Bouch, C Baker and 18 other authors (2011) "Future Resilient Transport Networks (FUTURENET). An Overview of the FUTURENET Project with Particular Reference to Railway Aspects", World Congress of Rail Research, Lille
- 142 M Sima, E Grappein, M Weise, N Paradot, M Hieke, C Baker, R Licciardello, M Couturier (2011) "Presentation of the EU FP7 AeroTRAIN project and first results", World Congress of Rail Research, Lille
- 143 C J Baker (2011) "A meta-analysis of train crosswind aerodynamic force coefficient data", Proceedings 13<sup>th</sup> International Conference on Wind Engineering, Amsterdam
- 144 A Quinn, C J Baker, M Sterling, M Sima, M Weise, L Hoefener, M Eisenlauer (2011) "The effect of cross winds on the slipstreams of high speed trains", Proceedings 13<sup>th</sup> International Conference on Wind Engineering, Amsterdam
- 145 P. Martinez-Vazquez, C.J. Baker, M. Sterling, A.D. Quinn, P.J. Richards (2011) "Non-averaged wind forces acting on a rotating square plate", Proceedings 13<sup>th</sup> International Conference on Wind Engineering, Amsterdam
- 146 M Sterling, C J Baker, M Haines, A D Quinn (2011) "Scaling a thunderstorm downburst simulator", Proceedings 13<sup>th</sup> International Conference on Wind Engineering, Amsterdam
- 147 C J Baker, M Sterling (2011) "The design process for wind effects around simple buildings", Keynote paper, Proceedings 13<sup>th</sup> International Conference on Wind Engineering, Amsterdam
- 148 Soper D, Baker C J, Sterling M (2012) "The aerodynamics of freight trains", Wind Engineering Society Conference, Southampton
- 149 D Jaroszweski, C J Baker, A Quinn, L Chapman (2013) "The impact of climate change on transport: current progress and future requirements", Impacts World Conference, Berlin
- 150 F. Dorigatti, A.D. Quinn, M. Sterling, C.J. Baker (2013) "Aerodynamic effects of the train movement simulation in crosswinds", Proceedings of the International Workshop on Train Aerodynamics, University of Birmingham



- 151 C J Baker (2013) "Some considerations of the cross wind overturning problem", Proceedings of the International Workshop on Train Aerodynamics, University of Birmingham
- 152 F Naser, C Baker' F Schmid (2013) "A review of railway windblown sand mitigation techniques and a structural analysis of a novel tunneling solution", Proceedings of the International Workshop on Train Aerodynamics, University of Birmingham
- 153 T Gilbert, C Baker and A Quinn (2013) "Aerodynamic effects of high speed trains in confined spaces", Proceedings of the International Workshop on Train Aerodynamics, University of Birmingham
- 154 D Soper, C Baker and M Sterling (2013) "Slipstream development of a container freight train". Proceedings of the International Workshop on Train Aerodynamics, University of Birmingham
- 155 C Baker, T Gillbert, S Jordan (2013) "The validation of the use of moving model experiments for the measurement of train aerodynamic parameters in the open air", World Congress on Rail Research, Sydney, Australia
- 156 C. Baker, A. Quinn, H. Hemida, M. Sterling, M. Gallagher, J. Morden and S. Jordan (2014) The Measurement of Train Aerodynamic Phenomena in Operational Conditions Proceedings of the Second International Conference on Railway Technology: Research, Development and Maintenance, J. Pombo, (Editor), Corsica
- 157 D. Soper, C. Baker and M. Sterling (2014) "Assessing crosswind effects on a container freight train with differing container loading configurations", First international conference in numerical and experimental aerodynamics of road vehicles and trains (Aerovehicles 1), Bordeaux, France
- 158 D. Soper, C. Baker and M. Sterling (2014) "A comparison of model and full scale experimental data to assess the suitability of analysing slipstream development of a container freight train using the TRAIN rig facility », First international conference in numerical and experimental aerodynamics of road vehicles and trains (Aerovehicles 1), Bordeaux, France
- 159 A.D. Quinn, C.J. Baker<sup>\*</sup> and M. Gallagher (2014) "The measurement of aerodynamic phenomena in operational conditions on a rail vehicle", First international conference in numerical and experimental aerodynamics of road vehicles and trains (Aerovehicles 1), Bordeaux, France
- 160 C J Baker (2014) "Risk analysis of pedestrian and vehicle safety in windy environments", IN-VENTO 2014, XIII Conference of the Italian Association for Wind Engineering, Genova, Italy
- 161 C J Baker, M Sterling, P Berry (2014) "A generalised model of the lodging of cereal crops", IN-VENTO 2014, XIII Conference of the Italian Association for Wind Engineering, Genova, Italy
- 161 C J Baker (2014) "Risk analysis of pedestrian and vehicle safety in windy environments", UK Wind Engineering Society Conference, Birmingham
- 163 C J Baker (2014) "Risk analysis of pedestrian and vehicle safety in windy environments", UK Wind Engineering Society Conference, Birmingham
- 164 C Bouch, C D F Roger, R Dawson, C Baker (2014) "A Systems-Based Approach to the Identification of User/Infrastructure Interdependencies as a Precursor to Identifying Opportunities to Improve Infrastructure Project Value/Cost Ratios", ISNGI 2014, Vienna
- 165 C Baker (2015) A comparison of full scale and model scale measurements of train

- aerodynamic characteristics, IMechE Stephenson Conference
- 166 C Baker, M Sterling, A Quinn, H Hemida (2015) "The safety of pedestrians, cyclists and motor vehicles in highly turbulent urban wind flows", International Conference on Wind Engineering, Brazil 2015
- 167 A E Vardy, R Sturt, C J Baker and D Soper (2015) "The behaviour of long entrance hoods for high speed rail tunnels" ISAVFT-2005 Paper-1
- 168 R Sturt, C Baker, D Soper, A Vardy, M Howard, C Rawlings (2015) "The Design of HS2 tunnel entrance hoods to prevent sonic booms", Railway Engineering, Edinburgh
- 169 C J Baker, H Hemida, AD Quinn (2016) "The Operation of Trains through Flood Water", World Congress on Rail Research, Milan
- 170 C J Baker (2016) "Train Aerodynamics. Past, present and Future", Railways 2016, The Third International Conference on Railway Technology: Research, Development and Maintenance, Cagliari, Sardinia, Italy
- 171 D Flynn, H Hemida and C J Baker (2016) "A Numerical Study of Crosswind Effects on the Slipstream of a Freight Train", Railways 2016, Cagliari, Sardinia
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