

## Seminars, lectures and keynotes

### Seminars and invited lectures

- 1 "Full-scale and wind tunnel measurements of winds in hilly terrain", 1982 (with C Wood) Building Research Station Seminar
- 2 "Teaching of Wind Engineering", 1984, Water Specialists Meeting, Dundee
- 3 "Review of train drag data", 1986, Workshop on train aerodynamic drag, Derby
- 4 "Ground vehicles in cross winds". 1987, Seminar at Cranfield Institute of Technology, School of Aeronautics
- 5 "Ground vehicles in cross winds", 1989, Seminar at Imperial College, Department of Aeronautics
- 6 "Ground vehicles in cross winds - when will trains and lorries blow over". 1989. Nottingham University Department of Environmental Physics Seminar
- 7 "Current trends in vehicle aerodynamics research", 1990 Wind Engineering Research Group invited lecture,
- 8 "Wind effects on railway containers", 1991, DB Munich
- 9 "Wind hazard and road vehicles" 1991, Wind Engineering Society, ICE London
- 10 "Wind hazard and road vehicles" 1991, Hazards Forum London
- 11 "Report on the 8th International Conference on Wind Engineering" 1991, Wind Engineering Society, London
- 12 "The aerodynamics of animal transport vehicles", 1992, Silsoe Research Institute seminar
- 13 "The aerodynamics of livestock transporters", 1992, Engineering animal agriculture, Silsoe Research Institute
- 14 "Aerodynamic behaviour of lorries and trains in cross winds", 1993, Wind Engineering Society, London
- 15 "Lorries and trains in cross winds", 1993, Exeter University School of Engineering Seminar
- 16 "Urban tree behaviour in high winds - an engineers view", 1993, Forestry Authority Seminar, Westonbirt Arboretum, Gloucs
- 17 "Aerodynamics of poultry transport vehicles - environmental implications", 1993, World Poultry Science Association Conference, Scarborough
- 18 "Air pollution from road vehicles", 1993, Association of British Climatologists meeting, Loughborough
- 19 "Towards a code of practice for determining the stability of urban trees in high winds", 1993, IUFRO Conference, Edinburgh
- 20 "Windthrow - an engineering approach", 1993, Arboricultural association Conference, Swansea
- 21 "The dynamic behaviour of plants in high winds", Wind Engineering Society, 1994
- 22 "The role of education and public awareness." Royal Academy of Engineering meeting "Windstorm - coming to terms with mankind's worst natural disaster", 1995.
- 23 "Probabilities, poultry and pollution", MIRA Special Interest Group Meeting 1995
- 24 "Coping with the effects of windstorms", Presentation to ICE Local Associations 1995/6 (Lancaster, Nottingham, Beverly, Bradford, Stockton)
- 25 "Railway aerodynamics and infrastructure", Railtech Conference, Birmingham, 1996

- 26 "Urban air pollution from road traffic - statistical and deterministic approaches", SCORUS Conference, Madrid, 1996
- 27 "Pollution dispersion from road transport", Nottingham University Institute of Environmental Engineering seminar, 1996
- 28 "Wind effects on road transport", Royal Meteorological Society meeting, Imperial College London, 1997
- 29 "Pollution dispersion from road vehicles", Silsoe Research Institute seminar, 1997
- 30 "Coping with the effects of windstorm", Presentations to ICE/IStructE local associations 1996/7 (in Glasgow, Inverness and High Wycombe)
- 31 "Wind effects on ground transportation", Dutch Wind Engineering Society meeting, Eindhoven, 1997
- 32 "Wind effects on transportation" Danish Wind Engineering Society, 1999
- 33 "Wind effects on transportation" Seminar at the University of Genoa, 1999
- 34 "Unsteady pressures on structures" Seminar at the University of Genoa, 1999
- 35 "Coping with the effects if windstorm", Various locations within Malaysia and Singapore during 2002 Sterling lecture tour (including Malaysian Academy of Sciences)
- 36 "Unsteady wind effects", National University of Singapore 2002
- 37 "Windstorm – coping with mankind's worst natural disaster." Association of Science Education, Birmingham, January 2003
- 38 "Report on COST C14 Working Group 2", 11<sup>th</sup> International Conference on Wind Engineering, Lubbock, Texas, 2003
- 39 "Wind and vehicles" Invited seminar, Hong King Polytechnic University, 2003
- 40 C J Baker "Natural Disasters - Personal and Social Responsibilities", Darwin Society, Lichfield, 2004
- 41 "Cross wind effects on trains", Presentation to Japan National Railways, Technical Centre (2004)
- 42 "An Eco-friendly transport policy?", Lichfield Diocesan Justice and Care day. Lichfield Cathedral (2004)
- 43 "The overturning of road and rail vehicles in high winds", Keynote Address Italian Wind Engineering Conference (2004)
- 44 "The dispersion of particulate pollutants in street canyons", URGENT meeting, Birmingham (2004)
- 45 "Wind effects in the urban environment", ERCOFTAC meeting, Nottingham (2004)
- 46 "The overturning of road and rail vehicles in high winds", Proceedings Asia Pacific Regional Conference on Wind Engineering, Seoul (2005)
- 47 "Train aerodynamics – current and future research", Seminar at Manchester Metropolitan University (2006)
- 48 "A ramble around wind engineering and vehicle aerodynamics", Seminar in School of Maths, University of Birmingham (2006)
- 49 "Natural disasters – personal and social responsibilities", Darwin Day, Lichfield Cathedral (2006)
- 50 "PhDs and industry", TECHNO TN Invited contribution, Brussels (2006)
- 51 "Why does wheat lodge – an engineers perspective" Seminar, School of Engineering,, University of the Republic, Montevideo, Uruguay (2007)
- 52 "Wind Engineering and Codification" Seminar, School of Engineering,, University of the Republic, Montevideo, Uruguay (2007)

- 53 "Aspects of road and rail vehicle aerodynamics", Seminar, School of Mechanical Engineering, University of Leeds (2007)
- 54 "The aerodynamics of high speed trains", Seminar, Korean Railway Research Institute, Seoul (2009)
- 55 "Recent work on the flight of wind borne debris", Seminar, Tokyo Polytechnic University , Tokyo (2008)
- 56 "The sway of pantographs in cross winds" , Seminar, Tokyo Polytechnic University , Tokyo (2008)
- 57 "The aerodynamics of high speed trains", Seminar, Japanese Railway Research Institute, Tokyo (2008)
- 58 "The Birmingham Centre for Rail Research and Education", Woosong University, Daejeon, South Korea (2008)
- 59 "Current work on debris flight modelling and risk analysis", Wind Engineering Society meeting, London (2009)
- 60 "Climate change and future transport systems", LARCI / Core cities climate change group workshop, Birmingham (2010)
- 61 "Transport and climate change", TRL Academy, London (2010) "Energy, environment and the railways", Westminster Energy, Environment and Transport Forum. (2010)
- 62 "The rail sector", UNECE-UNCTAD Workshop on Climate Change Impacts on International Transport Networks, Geneva (2010)
- 63 "Wind engineering – codes of practice, wind tunnels and CFD", Midlands Section I StructE (2010)
- 64 "The correlation between extreme weather events and delay for different transport modes", WEATHER project workshop, Brussels (2011)
- 65 "Fundamental studies and applications of wind borne debris flight", Central South University, Changsha, China (2013)
- 66 "Future Resilient Transport Networks", Belfast Climate Week 2014
- 67 "The aerodynamics of trains", Royal Aeronautical Society, London, 2014
- 68 "High speed rail – key challenges and solutions – Aerodynamics", Conference 1964–2064 High Speed Rail: Celebrating Ambition, Birmingham 2014
- 69 "Safety criteria for pedestrians and vehicles in high winds", Wind Engineering Society, 2015
- 70 "The aerodynamics of trains", IMechE Railway Division Lecture 2015
- 71 "A comparison of full scale and model scale measurements of train aerodynamic characteristics", Stephenson Conference, 2015
- 72 "Uncertainty and risk in wind engineering and industrial aerodynamics", Symposium in honour of Ted Stahopoulos, Eindhoven, 2015  
[https://www.youtube.com/playlist?list=PLwDe7JM\\_BIqhDOwChA8nTW\\_X9M3z0UWzV](https://www.youtube.com/playlist?list=PLwDe7JM_BIqhDOwChA8nTW_X9M3z0UWzV)
- 73 "Wind effects on transportation systems", Wind Engineering Society 2016
- 74 "Train Aerodynamics – the context and use of CFD", UK ACM Birmingham, 2017
- 75 "Railway Aerodynamics", PWI York Section 2017
- 76 "Aerodynamic effects on railway infrastructure", PWI Technical Seminar, Birmingham 2017
- 77 "Framework for the calculation of tornado risk to structures and infrastructure", International High-end forum on Structural Engineering and Wind Engineering, Chongqing, China 2017

- 78 Wind Engineering for Serviceability and Resilience, Scruton Lecture WES / ICE, November 2017
- 79 Vehicle aerodynamics in an era of intelligent mobility, Polimi seminar, February 2018

### **Lecture courses**

1. "Urban Wind Engineering", Lecture Series, School of Engineering,, University of the Republic, Montevideo, Uruguay (2007)
2. Lecture course on "Effects of high winds on Transportation Systems", Tokyo Polytechnic University (2009)
3. Lecture course on urban wind engineering, University of the Republic, Montevideo, Uruguay (2010)
4. Lecture course on aspects of wind engineering, University of La Plata, Buenos Aires, Argentina (2010)
5. Lecture course on "Environmental Wind Engineering", Tokyo Polytechnic University (2011)
6. Lecture course on aspects of wind engineering, Harbin University of Technology, China (2011)
7. International Advanced School on Wind Engineering, Hong Kong Polytechnic University / Hong Kong University of Science and Technology, organised by Tokyo Polytechnic University, Hong Kong 2011
8. Lecture course on "Wind and Risk", Tokyo Polytechnic University (2013)
9. Lecture course on "Wind effects on people, transport and the environment", University of Montevideo (2013)

### **Keynote lectures**

1. "Wind effects on road vehicles on bridges", Bridge Aerodynamic Conference, Copenhagen, 1998 (Keynote lecture)
2. "Wind effects in the urban environment – considerations for human health, comfort and safety", Keynote lecture, ISWE Tokyo, Japan, 2004
3. "Wind Engineering – past, present and future", Keynote lecture, Proceedings 4<sup>th</sup> European and African Regional Conference on Wind Engineering, Prague (2005)
4. "The flow field around trains", Keynote Address, Bluff Body Aerodynamics and its Applications Conference, Milan (2008)
5. "Cross wind effects on road and rail vehicles", IAVSD Symposium, Stockholm, Sweden, Keynote lecture (2009)
6. Keynote lecture at the International Association of Wind Engineering Conference, Amsterdam, 2011
7. "The first international conference on wind engineering – a retrospective", European and African Conference on Wind engineering, Cambridge (2013)
8. "Train Aerodynamics, past, present and future", Keynote lecture, Railways 2016, Cagliari, Sardinia