

Dr. ROBIN JOHN KENT

PUBLISHED PAPERS AND ARTICLES

GENERAL PAPERS AND ARTICLES

- Indentation processes in poly(methyl methacrylate): I ball indentation. Journal of Physics D: Applied Physics, 14, 1981.
- Indentation fracture testing of polystyrene injection mouldings (R J Kent, K E Puttick and J G Rider). Plastics and Rubber Processing and Applications: Vol. 1, No 1 1981.
- Detection of orientation in injection mouldings by indentation fracture – industrial applications (R J Kent, K E Puttick and J G Rider). Plastics and Rubber Processing and Applications: Vol. 1, No 2 1981.
- Orientation in injection mouldings (R J Kent, K E Puttick and J G Rider). Plastics and Rubber International, Vol. 6, No 3, 1982.
- Indentation processes in poly(methyl methacrylate): II cone indentation and deep punching. Journal of Physics D: Applied Physics, 16, 1983.
- Extrusion and Plastics – Institution of Engineering Designers Yearbook, 1984/1985.
- Designing extrusions for production – Institution of Engineering Designers Yearbook, 1985/1986.
- Appropriate use of polymer extrusions – Institution of Engineering Designers Yearbook, 1986/1987.
- Extrusions – Engineer's Digest, December/January 1986.
- The Cost Of Window Quality – Window Trade News, July/August 1986.
- Are we over–designing – Window Industries, August 1989.
- Choosing the right accessories – Window Industries, December 1989.
- CAD is the name of the game – Flat Glass International, May 1990.
- What makes for Quality – Glass Age, June 1990.
- Misleading Impressions – Window Industries, October 1990.
- Safe as houses! – Local Government News, December 1990.
- Crimewatch – Window Industries, December 1990.
- British Standard for uPVC Windows – Professional Window Fabricator and Installer, April 1991.
- BPFWG FOCUS – ISSUE 1 – June 1991.
- Routes to BS 5750 – Professional Window Fabricator and Installer, April 1991.
- What's in a name? – Window Industries, March 1991.
- Going in to Europe – New Builder, May 1991.
- Taking a view on security – Local Authority Building and Maintenance, May 1991.
- Thinking profit – Window Industries, September 1991.
- A matter of principle – Window Industries, October 1991.
- BPFWG FOCUS – ISSUE 2 – November 1991.
- PVC–U in Stately Home – Fabrication and Glazing Industries, April 1992.
- BPFWG FOCUS – ISSUE 3 – Summer 1992.
- Conservatory Guidelines – Conservatory Trade News, October 1992.
- Production lines – On top of the Weld – Professional Window Fabricator and Installer, October 1992.
- Hardware and Ventilation – Fast not loose – Professional Window Fabricator and Installer, November 1992.
- Code of Practice from BPFWG – Fabrication and Glazing Industries, January 1993.
- Design and Installation – Keeping the Faith – Conservatory Trade News, February 1993.
- System Innovations – In the Know – (With Gillian Scott) Professional Window Fabricator and Installer, March 1993.
- Expert Welding with DSD – (With Gillian Scott) Manufacturing Intelligence Newsletter No. 13 Winter, 1992/1993.
- BPFWG FOCUS – ISSUE 4 – Spring, 1993.
- Profile Extrusion – Plastics and Rubber Weekly, April 10, 1993.
- Up to the Mark – Window Standards – Local Authority Building and Maintenance, May 1993.
- Installing the standard for PVC–U – Glass and Glazing Products, May 1993.
- Conservatory design and installation – Research Focus, October 1993.
- PVC–U and Preserving Our Heritage – Glazing Today, Vol. 1, No. 2 1993.
- BPFWG FOCUS ISSUE 5 – Autumn, 1993.
- An Inspector Calls – Window Industries, January 1994.
- Going with the flow – Window Trade News, January 1994.
- Life after Death: The recycling of PVC–U – Glazing Today, September 1994.
- Home Truths – Window Fabricator and Installer, May 1995.
- Window Shopping – Housing Association Building and Maintenance, September 1995.
- Coming to Terms – Window Fabricator and Installer, October 1995.
- Matching the style – Housing and Planning Review, November 1995.
- Size is not the issue – Fabrication and Glazing International, July 1996.

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- When it's time to talk – Glass and Glazing Products, September 1996.
- The Systems Supplier's Lament – Fabrication and Glazing International, November 1996.
- The new way forward – Window Industries, April 1997.
- The Performance of Gaskets in Window and Cladding Systems – Book Review in CWCT Newsletter, July 1997.
- Making Cost Management Work – Plastics and Rubber Weekly, January 15, 1999.
- Overhead Cost Management – Plastics and Rubber Weekly, January 22, 1999.
- Materials Cost Management – Plastics and Rubber Weekly, January 29, 1999.
- No Pain, No Gain – Public Service and Local Government, March 1999.
- Editor of 'Plastics Industry Watch', March 1999
- Managing Costs – A Focus for the Future – Plastics Industry Watch, March 1999.
- Top of the Ratings – Timber Windows – Spring 1999.
- Round pegs in round holes – An Easy Guide, Fenestra, February 2000.
- Managing Your Boss – An Easy Guide, Fenestra, July/August 2000.
- Stop Burning Profits – Energy Efficiency and Waste Feature – Plastics and Rubber Weekly, August 4, 2000
- Waste Watching – Energy Efficiency and Waste Feature – Plastics and Rubber Weekly, August 4, 2000
- The frame is fragmented – Plastics and Rubber Weekly, January 12, 2001.
- Project Management – An Easy Guide – Fenestra – March 2001.
- Wood you believe it – Plastics and Rubber Weekly, 20 April, 2001.
- Window Maintenance Part 1: The changing landscape – Fenestra – July 2001.
- Window Maintenance Part 2: Measuring the hidden cost – Fenestra – September 2001.
- Window Maintenance Part 3: Measuring the hidden cost – Fenestra – October 2001.
- Lifelong Ambition – Local Authority Building and Maintenance – February 2002.
- Waste in Glass Processing – Fenestra – March 2002.
- Energy Management in Glass Processing – Fenestra April 2002.
- Economic Batch Quantities – Plastics and Rubber Weekly – 19 April 2002.
- Introduction to Cost Management in Plastics Processing, Australian Plastics and Rubber Institute Journal, June 2002.
- Labour Costs Don't Matter Any More – Interplas Seminars Workbook, October 2002.
- EMS – An easy guide to saving money – Interplas Seminars Workbook, October 2002.
- The real cost of PVC-U window maintenance – BIFM Bulletin, 30 November 2002.
- Thinking about choices to the plastic option – Fenestra, Summer 2003.
- Energy Efficient Windows – FENSA News, Autumn 2003.
- It's all relative – Window Industries, December 2003.
- Window energy rating – the future for windows – Innovation and Research Focus, Issue 57, May 2004.
- Into the Valley of Death – Fenestra, Summer 2004.
- Inventory: The Hidden Costs – Fenestra, November 2004.
- Above Board: Wood plastic composites – Materials World, Vol. 13, No 1, January 2005.
- Environmental Management Systems – Fenestra, January 2005.
- The Rise of the Clones – Fenestra, Summer 2005.
- Trade Fabrication – Fenestra, October 2005.
- Next Generation Windows Part 1 – Fenestra, March 2006.
- Next Generation Windows Part 2 – Fenestra, July 2006.
- Reducing Energy Costs: Understanding usage and changing the rules – Plastics Technology Asia, August 2006.
- Going green just got easier – Government Business Magazine, Volume 14.2, February 2007.
- Blow bottles, not your costs – Plastics in Packaging, Issue 65, March 2007.
- There's more to do than being energy efficient – Fenestra, June 2007.
- Save energy, Save Money – Materials World, May 2008.
- Energy management in plastics processing: A framework for measurement, assessment and prediction – Plastics, Rubber and Composites, Volume 37, Numbers 2–4, May 2008
- Cutting energy consumption by 30% – Plastics Engineering, June 2008.
- Designing out failure – Book review – Materials World, July 2008.
- Energy Management: Always a concern – Plastics Engineering, March 2009.
- Save your energy – Compounding World, March 2009.
- Energy management in pipe and profile extrusion – Pipe and Profile Extrusion, May/June 2009.
- Cutting extrusion energy bills – Film and Sheet Extrusion, June/July 2009.
- Tips for finding energy savings – Injection Molding Magazine, January 2010.
- Getting to know your real energy use and cost – Injection Molding Magazine, January 2010.
- Editorial for 'Proceedings of ICE– Construction Materials' June 2011.

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- Energy management for plastics processors – South African Plastics, Composites and Rubber, December 2011.
- Sustainable materials – with both eyes open – Book review – Proceedings of ICE– Construction Materials, August 2012.
- Editorial for ‘Proceedings of ICE – Construction Materials’, February 2013.
- Don’t labour over managing costs – Injection World, January/February 2013.
- Don’t labour over managing costs – Compounding World, February 2013.
- Don’t labour over managing costs – Film and Sheet Extrusion, March 2013.
- Don’t labour over managing costs – Pipe and Profile Extrusion World, March/April 2013.
- Enhancing energy efficiency – Film and Sheet Extrusion, September 2013.
- Getting to grips with energy – Injection World, September 2013.
- Making extrusion more energy efficient – Compounding World, March 2014.
- What is energy costing your business? – Plastics Machinery Magazine, February 2015.
- Energy management in metal injection moulding – Powder Injection Moulding International, June 2015.
- Dealing with power interruptions – South African Plastics and Rubber, August/September 2015.
- Energy measurement in kWh/kg – Why you are measuring the wrong thing or how to get it wrong – Plastics Engineering, March 2017.
- A carbon footprinting primer for plastics processors – Plastics Engineering, June 2017.
- Tops and tails management in extrusion blow moulding – The Journal of Blow Moulding January 2018, SPE.
- Plastics industry demonstrates plant optimisation. – ESI Africa Issue 2, 2019.
- New developments in injection moulding – Injection World, May 2019.
- Quality management in plastics processing – Plastics and Rubber World, 2019.
- Make your energy work – Compounding World, February 2020.
- Capping consumption – Plastics Machinery Magazine, June 2020.
- Attention to management of energy reaps rewards – Injection World, June 2020.
- Make more from less – Compounding World, February 2021.
- Regranulator management for injection moulders – Injection World, June 2021.

THE ‘MANUFACTURING STRATEGY’ Series (All in Flat Glass International)

- Introduction: Manufacturing part of the strategy, February 1991.
- Part 1: Setting the strategy, March 1991.
- Part 2: Manufacturing Strategy – the Systems, April 1991.
- Part 3: Just-in-Time (Introduction), May 1991.
- Part 4: Just-in-Time (1), June 1991.
- Part 4: Just-in-Time (2), July 1991.
- Part 5: Optimised Production Technology, September 1991.
- Part 6: A Fundamental Quality..., October 1991.
- Part 7: Quality Management Techniques and Tools, November 1991.
- Part 8: There's no Accounting for Manufacturing Strategy, January 1992.
- Part 9: Measuring Performance, February 1992.
- Part 10: What do we do now?, March 1992.
- Part 11: The Pudding Proved, April 1992.

THE ‘TOOLKIT’ Series (All in Glass and Glazing Products)

- Introduction: Re-engineering the company, May 1994
- Part 1: Looking after your vitals, June 1994
- Part 2: Charting the progress, July 1994
- Part 3: Scattering the problem, September 1994
- Part 4: Go with the flow, October 1994
- Part 5: Plotting for success, November 1994
- Part 6: Studying capability, December 1994
- Part 7: Mapping the mind, February 1994

THE ‘INVESTING IN THE FUTURE’ Series (All in Window Fabricator and Installer)

- Part 1: Introduction, October 1996.
- Part 2: Machinery – Plant & Equipment, November 1996.
- Part 3: Materials – Products, October 1996.
- Part 4: Methods – Procedures and Processes, December/January 1996/97.
- Part 5: Manpower – People, February 1997.
- Part 6: Measures – Performance, March 1997.

THE ‘MANAGING QUALITY – YOU CAN DO IT’ Series (All in Window Industries)

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- Part 1: An introduction to ISO 9000, July 1998.
- Part 2: The requirements of ISO 9002, August 1998.
- Part 3: The procedures (Section 1), September 1998.
- Part 4: The procedures (Section 2), September 1998.
- Part 5: The procedures (Section 3), October 1998.
- Part 6: The procedures (Section 4), November 1998.
- Part 7: The procedures (Section 5), December 1998.

THE 'MATERIAL FUTURES' Series (All in Window Industries)

- Part 1: The Way Behind, March, 2000
- Part 2: The Way Ahead, April, 2000
- Part 3: The New Composites (1), May, 2000
- Part 4: The New Composites (2), June, 2000

The 'PLASTICS ENERGY EFFICIENCY' Series (All in British Plastics and Rubber)

- Part 1: Reducing energy costs, March 2001.
- Part 2: Surveying site energy use, April 2001.
- Part 3: Injection Moulding, May 2001.
- Part 4: Extrusion, June 2001.
- Part 5: Extrusion Blow moulding, July 2001.
- Part 6: Motors and Drives, August 2001.
- Part 7: Compressed Air, September 2001.
- Part 8: Buildings, October 2001.
- Part 9: Capital Equipment Selection, November 2005.
- Part 10: All-electric Injection Moulding Machines, January 2006.
- Part 11: Cooling Process Water, February 2006.
- Part 12: Drying, March 2006.

The 'PLASTICS WASTE MINIMISATION' Series (All in British Plastics and Rubber)

- Part 1: The business reasons, December 2001.
- Part 2: Waste walk around and action plan, January 2002.
- Part 3: Assessing Performance, February 2002.
- Part 4: Improving Performance, March 2002.
- Part 5: Waste Minimisation Tools, April 2002.

The 'ENVIRONMENTAL MANAGEMENT' Series (All in Polymer Engineering)

- Part 1: Clean business = good business, March 2002.
- Part 2: Starting Out, April 2002.
- Part 3: Interacting with the environment, May 2002.
- Part 4: The basic EMS, June 2002.
- Part 5: Operating the EMS, August 2002.

The 'GLASS WASTE MINIMISATION' Series (All in Glass Age)

- Part 1: The business reasons, April 2002.
- Part 2: A waste walk around and action plan, May 2002.
- Part 3: How good are you? June 2002.
- Part 4: Improving Performance, July 2002.
- Part 5: Tools of the trade, July 2002.

The 'PLASTICS RESOURCE EFFICIENCY' Series (All in Plastics and Rubber Weekly – PRW)

- Part 1: The second industrial revolution, 21 November 2003.
- Part 2: The impact of manufacturing, 5 December 2003.
- Part 3: Cutting the costs of usage, 19 December 2003.
- Part 4: Think end-of-life at the start, 16 January 2004.
- Part 5: Use less, make more profit, 30 January 2004.

The 'PRODUCTION MANAGEMENT' Series (All in Fenestra)

- Part 1: The essential part, January 2003.
- Part 2: The systems, February 2003.
- Part 3: Just-in-time, March 2003.
- Part 4: Optimised production technology, April 2003.
- Part 5: Work cells, May 2003.
- Part 6: Machines 1, June 2003.
- Part 7: Machines 2, September 2003.

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- Part 8: Scheduling and Kanban, October 2003.
- Part 9: Waste (Methods), November 2003.
- Part 10: Waste (Materials), January 2004.
- Part 11: Supply Chain, February 2004.
- Part 12: Measurement, March 2004.
- Part 13: Things to do NOW!, April 2004.
- Part 14: The Cost of Quality, May 2004.
- Part 15: The hidden cost of inventory, November 2004
- Part 16: Environmental management – January 2005
- Part 17: Continuous Improvement – May 2005

The 'REDUCING ENERGY COSTS' Series (All in Modern Plastics International)

- Part 1: The first steps, June 2006.
- Part 2: Changing the rules, July 2006.
- Part 3: Injection Moulding, August 2006.
- Part 4: Extrusion, September 2006.
- Part 5: Extrusion blow moulding, October 2006.
- Part 6: Compressed air, November 2006.

Monthly Column on 'ENERGY EFFICIENCY AND WINDOWS' (All in Fenestra)

- Month 1 – Energy and windows – This is your wakeup call
- Month 2 – Transforming markets – NOW PAY ATTENTION!
- Month 3 – Joined-up government
- Month 4 – Windows – An appliance approach
- Month 5 – Software is the key to lower costs
- Month 6 – The European scene
- Month 7 – The internationals
- Month 8 – Selling the benefits
- Month 9 – Is it all losses?
- Month 10 – Energy and utilities – demand side management
- Month 11 – Raising the standard
- Month 12 – The route map to Part L
- Month 13 – Older and WISA
- Month 14 – Myth selling
- Month 15 – Want to get accurate data?
- Month 16 – Designer windows
- Month 17 – Déjà Vue – This is your second wake-up call
- Month 18 – It is all low-E – The vital differences
- Month 19 – Free heating for life – Solar Heat Gain
- Month 20 – Approving simulators?
- Month 21 – Developing standards
- Month 22 – Getting the right answer, cock-up or conspiracy?
- Month 23 – Getting the right answer, using the right people?
- Month 24 – Where are the buccaneers?
- Month 25 – Why not stay with the U-value?
- Month 26 – Outside condensation
- Month 27 – The white paper
- Month 28 – The metal men
- Month 29 – On the border
- Month 30 – Labelling for energy efficiency and increased sales
- Month 31 – The wider scene
- Month 32 – Tracing the data
- Month 33 – A window of opportunity
- Month 34 – Setting the boundaries
- Month 35 – Looking forward
- Month 36 – Fiscal Incentives
- Month 37 – Window Energy Rating is here!
- Month 38 – How do you get a rating?
- Month 39 – Technology Toolkit
- Month 40 – The indicators
- Month 41 – The smaller company

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- Month 42 – Here we go again!
- Month 43 – Training for increased sales
- Month 44 – The better ruler
- Month 45 – Energy Efficiency Recommended?
- Month 46 – Energy: What can the Carbon Trust do for you?
- Month 47 – Seeing the results
- Month 48 – What a difference a year makes
- Month 49 – Guesstimates don't count
- Month 50 – Changing an Industry
- Month 51 – The Leading Edge
- Month 52 – The indicators (2005)
- Month 53 – Building Regulations – Here we go again
- Month 54 – First Past the Post
- Month 55 – Marketing 'push' or market 'pull'?
- Month 56 – Selling the benefits
- Month 57 – Joined up Government?

The 'ENERGY MISER' Series (All in Plastics Technology)

- Energy Miser 01 – Introduction to Energy Management, January 2009.
- Energy Miser 02 – Know your Plant's 'Energy Fingerprint', February 2009.
- Energy Miser 03 – What's Your Process Energy Fingerprint?, March 2009.
- Energy Miser 04 – Internal Benchmarking: Setting Targets, April 2009.
- Energy Miser 05 – External Benchmarking of Injection Molding Energy Efficiency, July 2009.
- Energy Miser 06 – Benchmarking energy use in extrusion, blow molding and thermoforming, November 2009.
- Energy Miser 07 – Where are you using energy, March 2010.
- Energy Miser 08 – Compressed air: It isn't free, October 2010.
- Energy Miser 09 – Plug costly compressed air leaks, November 2010.
- Energy Miser 10 – Reducing compressed air usage, July 2011
- Energy Miser 11 – Use less energy to generate compressed air, August 2011.
- Energy Miser 12 – Introduction to Cooling Water Management, March 2012.
- Energy Miser 13 – Compressed air: treatment & distribution, April 2012.
- Energy Miser 14 – Cooling water: Minimise demand by reducing heat gains, May 2012.
- Energy Miser 15 – Cooling water: Minimise demand by increasing temperatures, September 2012.
- Energy Miser 16 – Cooling water: Optimise supply to reduce costs, January 2013.
- Energy Miser 17 – Cooling water: Optimise distribution to reduce costs, October 2013.

The 'ENERGY SAVING TIP OF THE MONTH' Series (All in Plastics Engineering)

- 01 – Getting Started: Energy-Management Systems, May 2009.
- 02 – Integrating energy into the accounts, June 2009.
- 03 – Site surveys, July/August 2009.
- 04 – The electricity bill, September 2009.
- 05 – Assessing performance – electricity, October 2009.
- 06 – The gas bill, November/December 2009.
- 07 – Injection molding 1, January 2010.
- 08 – Injection molding 2, February 2010.
- 09 – Injection molding 3, March 2010.
- 10 – Extrusion 1, April 2010.
- 11 – Extrusion 2, May 2010.
- 12 – Extrusion blow molding (EBM), June 2010.
- 13 – Injection blow molding, July 2010.
- 14 – Thermoforming, August 2010.
- 15 – Rotational molding, September 2010.
- 16 – Start-up and shut-down, October 2010.
- 17 – Compressed air pressure, September 2011.
- 18 – Compressed air leakage, October 2011.
- 19 – Compressed air usage, November/December 2011.
- 20 – Compressed air generation, January 2012.
- 21 – Compressed air treatment and distribution, February 2012.
- 22 – Reduce parasitic heat gains for chilled water, March 2012.
- 23 – Increase cooling water temperatures, April 2012.

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- 24 – Reduce cooling costs, May 2012.
- 25 – Reduce cooling water distribution costs, June 2012.
- 26 – Motor management, July 2012.
- 27 – Turn off motors, September 2012.
- 28 – Reduce the load on motors, October 2012.
- 29 – Get the correct motor size, November/December 2012.
- 30 – Improve motor efficiency, January 2013.
- 31 – Slow the motor down, May 2013.
- 32 – Lighting, March 2013.
- 33 – Drying the right materials, April 2013.
- 34 – Storing materials for drying, June 2013.
- 35 – Dryer control systems and insulation, July/August 2013.
- 36 – Desiccant drying, September 2013.
- 37 – New drying methods, October 2013.
- 38 – Regranulation, November/December 2013.
- 39 – Vacuum systems, January 2014.
- 40 – Hydraulics systems, February 2014.
- 41 – Tool changeovers, March 2014.
- 42 – Employee training, April 2014.
- 43 – Small power equipment, May 2014.
- 44 – Process control, June 2014.
- 45 – Site heating, July 2014.
- 46 – Hot water, September 2014.
- 47 – Air conditioning Plastics Engineering, October 2014.
- 48 – Building fabric Plastics Engineering, November/December 2014.
- 49 – Carbon Footprinting: The Basics, January 2015.
- 50 – Carbon footprinting: Scope 1, February 2015.
- 51 – Carbon footprinting: Scope 2, March 2015.
- 52 – Carbon footprinting: Scope 3, April 2015.
- 53 – Internal site benchmarking, May 2015.
- 54 – Budgeting for the future, June 2015.
- 55 – Setting targets, July 2015.
- 56 – Reporting energy costs and use, September 2015.
- 57 – kWh/kg as a monthly measurement metric, October 2015
- 58 – External site benchmarking, November/December 2015.
- 59 – Machine monitoring, January 2016.
- 60 – Energy Mapping, February 2016.
- 61 – Interval Data, March 2016.
- 62 – Sub-metering, April 2016.
- 63 – Injection molding – base loads, May 2016.
- 64 – Injection molding – get the right machine, June 2016.
- 65 – Injection molding – get it set right, July/August 2016.
- 66 – Injection molding – get the right motor, September 2016.
- 67 – Injection molding – variable speed drives, October 2106.
- 68 – Injection molding – electric machines, November/December 2016.
- 69 – Injection Molding – heating and insulation, January 2017.
- 70 – Injection Molding – mold temperature control, February 2017.
- 71 – Injection Molding – mold design, March 2017.
- 72 – Extrusion – motors, May 2017.
- 73 – Extrusion – heating and insulation, June 2017.
- 74 – Extrusion – profile calibration and cooling, July/August 2017.
- 75 – Extrusion – vacuum, September 2017.
- 76 – Energy dashboards, October 2017.
- 77 – Project assessment, November/December 2017.
- 78 – Capital expenditure and energy, January 2018.
- 79 – Available capacity, February 2018.
- 80 – Maximum demand, March 2018.
- 81 – Power factor, April 2018.
- 82 – Power factor correction equipment, May 2018.
- 83 – Transformers, June 2018

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- 84 – Voltage management, July/August 2018.
- 85 – Protect the site against power failure, September 2018.
- 86 – Renewables, October 2018.
- 87 – Going Off–the–Grid, November/December 2018.
- 88 – Hydraulics – the lifeblood, February 2019.
- 89 – Hydraulics – getting the right fluid, March 2019.
- 90 – Extrusion blow molding – motors (all–electric), April 2019.
- 91 – Extrusion blow molding – insulation, May 2019.
- 92 – Extrusion blow molding – tops and tails, June 2019.
- 93 – Injection blow molding – molding step, July/August 2019.
- 94 – Injection blow molding – blowing step, September 2019.
- 95 – Injection stretch blow molding – molding step, October 2019.
- 96 – Injection stretch blow molding – blow step, November/December 2019.

The 'ENERGY MANAGEMENT SERIES' (All in Plastics in Packaging)

- Where do we start?, April 2015.
- Where does it all go?, May 2015.
- The site energy fingerprint, June 2015.
- The process energy fingerprint, July 2015.
- Setting targets: internal benchmarking, September 2015.
- External benchmarking for injection moulding, October 2015.
- External benchmarking for other processes, November 2015.
- Managing Motors, January 2016.
- Motors: Turn them off, February 2016.
- Motors: Minimise demand, March 2016.
- Motoring towards efficiency, April 2016.
- It's not free, May 2016.
- Compressed air: optimise supply, July 2016.
- Cooling water: the programme August 2016.
- Optimise supply and reduce costs, October 2016.
- Drying: A process essential November 2016.
- Drying: Minimise the demand, February 2017.
- Drying: Optimise the supply, March 2017.
- Drying: Reduce costs with desiccant drying, April 2017.
- Drying: Other drying methods, May 2017.
- The vacuum generation, October 2017.
- Hydraulics systems, October 2017.

BOOKS

- 'Energy efficient thermoplastics extrusion' – ETSU Publication GPG 239. EEBPP 1996.
- 'Plastics Profile Extrusion' – RAPRA 1998.
- 'Energy in Plastics Processing – A Practical Guide' – ETSU Publication GPG 292. EEBPP 1998.
- 'Operations Management Book of Readings' – Chapters 3, 4, 10 and 18, Icfaiian Centre for Management Research, Hyderabad, India – November 2001.
- 'Cost Management in Plastics Processing – Strategies, targets, techniques and tools' – First Edition RAPRA 2002.
- 'Cost Management in Plastics Processing – Strategies, targets, techniques and tools' – Second Edition Plastics Information Direct 2007.
- 'Resource Efficiency in Plastics Processing' – Envirowise Publication GG 377, Envirowise 2003.
- Contributor to 'Energy Best Practice – Plastics Industry Guidebook', Focus on Energy, U.S. Department of Energy, June 2006.
- 'Energy Management in Plastics Processing – Strategies, targets, techniques and tools' – Plastics Information Direct 2008.
- 'Controlling Energy Use in Plastics Processing – A Quick Start Guide', British Plastics Federation, April 2010.
- Contributor to 'Sustainable Manufacturing – A guide for the plastics industry', British Plastics Federation, October 2010.
- Contributor to 'Plastic Extrusion Troubleshooting & Process Improvement', Plastic Industry Academy, Thailand, August 2011.
- 'Energy Management in Plastics Processing – A Signposting Guide', British Plastics Federation, September 2011.

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- 'Controlling Energy Use in Plastics Processing – A Quick Start Guide' (Second Edition), British Plastics Federation, January 2012.
- 'Cost Management in Plastics Processing – Strategies, targets, techniques and tools' – Third Edition Plastics Information Direct 2012.
- 'Energy Management in Plastics Processing – Strategies, targets, techniques and tools' – Second Edition Plastics Information Direct 2013.
- 'Quality Management in Plastics Processing – Strategies, targets, techniques and tools' – First Edition, Elsevier 2016.
- 'Controlling Energy Use in Plastics Processing – A Quick Start Guide' (Third Edition), British Plastics Federation 2017.
- 'Cost Management in Plastics Processing – Strategies, targets, techniques and tools' – Fourth Edition Elsevier 2017.
- 'The Energy Saving Guide for Injection Moulding Companies' – First Edition (with ExxonMobil) 2017.
- 'Energy Management in Plastics Processing – Strategies, targets, techniques and tools' – Third Edition Elsevier 2018.
- 'Advancing Industry 4.0 in Plastics with Hydraulic Fluids' – First Edition (with ExxonMobil) 2018.
- 'Net Zero Briefing – Introduction to net zero for the plastics industry', British Plastics Federation, November 2021.
- 'Sustainability Management in Plastics Processing – Strategies, targets, techniques and tools' – First Edition, (in publication).

SEMINARS AND LECTURES

- 'Indentation Processes in Polymers' – Polymer Engineering Directorate Conference, Cranfield 1981.
- 'Achieving BBA Certification' – One day Seminar given at 8 different locations in the UK over 1989/1990.
- 'Manufacturing Strategy' – One day Seminar given at 6 different locations in the UK over 1990/1991.
- 'Security of Domestic Windows' – LAPFAG Seminar, Harrogate, 1991.
- 'Safe as Houses?' – Institute of Maintenance and Building Management Seminar – Blackpool, 1991.
- 'Implementing BS 5750' – British Plastics Federation Quality Seminars, Edinburgh/ Birmingham/ London/ Birmingham, 1991.
- 'Window Materials Conference' – HAMMAR, London, 1992.
- 'European Standards' – Institute of Maintenance and Building Management Seminar – Bournemouth, 1992.
- 'Window Replacement' – York City Council Conference, York, 1993.
- 'PVC-U: The Specifier's Choice' – Non-Traditional Housing Refurbishment Conference, Sandown 1994.
- 'PVC and the Built Environment' – BPF Vinyls Group Conference, London, 1994.
- 'How to specify PVC-U windows – The specifying challenge' – Social Housing, Maintenance and Repair Conference, Earls Court, 1995.
- 'The Appearance of Windows' – LAPFAG Conference, Manchester, May 1996.
- 'Möglichkeiten für Partnerschaft und Gewinn' – Plastechforum Conference, Stratford upon Avon, 1996.
- 'The Appearance of Windows' – LAPFAG Conference, London, October 1996.
- 'Project Management' – Plasticity '97 Conference, PERA, Melton Mowbray, October 1997.
- 'Energy Usage in the Plastics Processing Industry' – Plasticity '97 Conference, PERA, Melton Mowbray, October 1997.
- 'Project Management' – BLFA Conference, Hinckley Island, November 1998.
- 'PVC-U Windows – Past, Present and Future' – PAGEV Windows Conference, Istanbul, January 1999.
- 'Overhead management in the Plastics Processing Industry' – Plasticity '99 Conference, Warwick, March 1999.
- 'Manufacturing Components in Plastic' – SHAPE Conference, NAC, Warwick, April 1999.
- 'Plastic and Composite Windows – The Way Ahead' – BRE/RAPRA Conference 'Composites and Plastics in Construction', BRE, November 1999.
- 'Energy Management and Waste Minimisation in Plastics Processing' – ETSU/BPF seminars given throughout the UK during March 2000.
- 'Waste Minimisation in Plastics Processing' – Envirowise Seminar, BPF, March 2001.
- 'Energy Management in Plastics Processing' – '10 ways to boost your profits' Conference, Coventry, April 2001.
- 'Energy Rating Systems' – The Whole Life Performance of Facades – Centre for Window and Cladding Technology Conference, CWCT Bath, April 2001.
- 'Waste Management and Energy Efficiency in Plastics Processing' – Waste and Recycling Technology Course, University of Surrey, June 2001.
- 'The Future for Window Energy Management' – Chrysalis Conference, Coventry, July 2001.
- 'Fenestration Rating' – Glass and Glazing Federation Technical Forum – Warwick, September 2001.

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- 'Energy Management and Injection Moulding' – Institute of Materials Conference, Norwich, September 2001.
- 'Energy Rating – the future for thermal assessment of windows', Glassex Seminars, NEC Birmingham, March 2002.
- 'Waste Minimisation in Glass Processing', Glassex Seminars, NEC Birmingham, March 2002.
- 'Fenestration', RICS Building Surveying Faculty Briefing 2002, Hilton Dunblane Hydro, Perthshire. April 2002.
- 'Labour Costs Don't Matter Any More', Interplas Seminar, NEC, October 2002.
- 'EMS – An easy guide to saving money', Interplas Seminars, NEC, October 2002.
- 'Cost Management in Plastics Processing', Plenary Lecture, Equiplast Exhibition Symposia, Barcelona, Spain, November 2002.
- 'The Uncertain Future', Glassex Seminars, NEC Birmingham, March 2003.
- 'Would you buy a 'D' rated fridge?'. British Woodworking Federation Members Day, Leicester, March 2003.
- 'Three Times is Enemy Action – The Future for Wood–Plastic Composites', British Woodworking Federation Members Day, Leicester, March 2003.
- 'Cleaner Design in Facades – A Route Map for the Future', Keynote Lecture at 'Facade Design and Procurement' Conference, Centre for Window and Cladding Technology, University of Bath, April 2003.
- 'Energy Benchmarking in Plastics Processing', Scottish Plastics and Rubber Association, Livingstone, November 2003.
- 'Introduction to wood plastic composites', Wood Plastic Composites Conference, Scottish Forest Industries Cluster, Dundee, January 2004.
- 'Practical steps and assistance to improve energy efficiency'. British Plastics Federation 'Energy Solutions' Conference, London, March 2004.
- 'Window Energy Rating'. Glass and Glazing Federation Conference 04, Birmingham, June 2004.
- 'Introduction to wood plastic composites', Wood Plastic Composites Conference, Building Research Establishment, Garston, October 2004.
- 'Window Energy Rating: The future of Part L?', Glassex Seminar, NEC, March 2005.
- 'How to get your Windows Rated', Glassex Seminar, NEC, March 2005
- 'Window Energy Rating: How relevant is WER to social landlords and tenants?', Glassex Seminar, NEC, March 2005
- 'Achieving Energy Efficient Production', Plastics Design and Moulding Conference, Telford, April 2005.
- 'Energy Efficiency and Windows', Building Surveyors Day, Invicta CPD, University of Kent, April 2005.
- 'Practical Steps to Improve your Energy Efficiency', British Plastics Federation Energy Solutions Conference, IPTME Loughborough, April 2005.
- 'Financial Support for Energy Saving Investment', British Plastics Federation Energy Solutions Conference, IPTME Loughborough, April 2005.
- 'Wood Plastics Composites – A Case Study in Recycling' M.Sc. Environmental Engineering Course, University of Surrey, May 2005.
- 'Window Energy Rating', The Legislative Façade Conference, CIBSE, London, June 2005.
- 'Practical Steps to Improve your Energy Efficiency', Interplas 2005, NEC, September 2005.
- 'Labour Costs Don't Matter Any More', British Plastics Federation Environmental Management Conference, London, March 2006.
- 'BFRC Energy Rating – The Benefits for RSLs and their Tenants', Glassex Seminars, NEC, March 2006.
- 'Window Energy Rating – The Basics', Energy Efficiency in Focus Conference, Coventry, May 2006.
- '10 Low–Cost Actions to Reduce Energy Costs', Plastics Design and Moulding Conference, Telford, October 2006.
- 'Energy Management in Plastics Processing' Masterclass produced for the Carbon Trust in Wales, November 2006.
- 'Energy Management in Plastics Processing' Chinaplas 2007, Guangzhou, China, May 2007.
- 'Energy Management in Plastics Processing – A framework for measurement, assessment and prediction', Polymer Process Engineering '07, University of Bradford, Bradford, July 2007.
- 'Energy Management in Plastics Processing', Kunststoffe, Dusseldorf, October 2007.
- 'Cost Management in Plastics Processing', EasyFair Seminars, Dublin, February 2008.
- 'Energy Management in Plastics Processing', EasyFair Seminars, Dublin, February 2008.
- 'Energy Management in Plastics Processing', Plastics Design and Moulding Conference, Telford, April 2008.
- 'Energy Management in Plastics Processing' Masterclass presented for the Carbon Trust in Wales, October 2006.
- 'Energy Management in Plastics Processing' Workshop and paper presented at Sustain '08, Chicago, Illinois, November 2008.

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- 'Energy Management in Plastics Processing' Workshop and paper presented at Plastics News Executive Forum, Las Vegas, March 2009.
- 'Manufacturing Efficiency Energy Boot Camp', British Plastics Federation Manufacturing Efficiency Conference, London, June 2009.
- 'Energy Management in Plastics Processing', Masterclass for AMI Training, Coventry, June 2009.
- 'Manufacturing Efficiency Energy Boot Camp', British Plastics Federation Manufacturing Efficiency Conference, London, March 2010.
- 'Energy Management in Plastics Processing – A Practical Boot Camp for Molders', Keynote Lecture at Molding 2010 Conference, San Antonio, Texas, April 2010.
- 'Energy Management in Plastics Processing' Workshop, Molding 2010, San Antonio, Texas, April 2010.
- 'Energy Management for Plastic Processors', British Plastics Federation, London, April 2010.
- 'Energy Management in Plastics Processing', Masterclass for ResourceKraft, Dundalk, Ireland, May 2010.
- 'Energy Management in Plastics Processing', Masterclass for AMI Training, Coventry, June 2010.
- 'Energy Management for Plastic Processors', British Plastics Federation, Warrington, September 2010.
- 'Energy Management in Plastics Processing', Masterclass, Bangkok, January 2011.
- 'Energy Management in Plastics Processing', Masterclass, Kuala Lumpur, January 2011.
- 'Energy Management for Plastic Processors', British Plastics Federation, London, May 2011.
- 'Energy Management in Plastics Processing' Masterclass, Melbourne, May 2011.
- 'Energy Management for Rotational Molders', Association of Rotational Molders Conference 2011, Chicago, November 2011.
- 'Energy Management in Plastics Processing', Scottish Plastics and Rubber Association, Edinburgh, December 2011.
- 'Energy Management in Plastics Processing – Further explorations in measurement, assessment and prediction', Polymer Process Engineering '11, University of Bradford, Bradford, December 2011.
- 'Energy Management for Plastic Processors', British Plastics Federation, Stoke-on-Trent, December 2011.
- 'Energy Management in Plastics Processing' Masterclass, Jakarta, March 2012.
- 'Energy Management in Plastics Processing' Masterclass, Bangkok, March 2012.
- 'Energy Management for Plastic Processors', British Plastics Federation, London, London May 2012.
- 'Energy Management for Plastic Processors', APIP (The Portuguese Plastic Industry Association), Figueira da Foz, Portugal, November 2012.
- 'Cost Management in Plastics Processing', Bangkok, July 2013.
- 'Energy management experiences from the world plastics industry' – InnEEPlas Launch Event, Brugge, Belgium, September 2013.
- 'Energy management experiences from the world plastics industry' – InnEEPlas Launch Event, Diepenbeek, Belgium, September 2013.
- 'Cost Management in Plastics Processing', Nashville, October 2013.
- 'Carbon footprints in Plastics Processing', Polymer Process Engineering '13, University of Bradford, Bradford, November 2013.
- 'Plastik İşlemede Enerji Yönetimi', PAGDER Seminar, Istanbul, 24 September 2014.
- 'Energy Management for Plastic Processors', British Plastics Federation, Birmingham, October 2014.
- 'Energy Management in Metal Injection Molding', Keynote Speech and Workshop, MIM '15 Conference, Tampa, February 2015.
- 'Energy Management in Plastics Processing', KOENST Conference, Zwolle, March 2015.
- 'Energy Management in Plastics Processing', Flanders Plastic Vision, Antwerp, April 2015.
- 'Energy management – New technologies for plastics processing', Polymer Process Engineering '15, University of Bradford, Bradford, September 2015.
- 'Energy Management for Rotational Moulders', Association of Rotational Moulders Conference, Nottingham, September 2015.
- 'Energy Management for Plastic Processors', British Plastics Federation, Birmingham, November 2015.
- 'Plastik Sanayinde Maliyet Yönetimi', PAGDER Seminar, Istanbul, 21 April 2016.
- 'Energy Management for Plastic Processors', British Plastics Federation, Stoke on Trent, 5 July 2016.
- 'Plastics Save: A roadmap for the future', Plastics Industry Association of Sri Lanka, Colombo, 10 August 2016.
- 'Energy Management for Plastic Processors', Plastics Industry Association of Sri Lanka, Colombo, 13 August 2016.
- 'Energy Management for Plastic Processors', British Plastics Federation, Edinburgh, 15 November 2016.
- 'Introduction to Energy Management for Masterbatch and Compounding', EuMBC, Brussels, 24 November 2016.
- 'Energy Management in PVC Processing', PVC 2017, IoMMM, Brighton, 26 April 2017.

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- 'Energy Management for Plastic Processors', British Plastics Federation, London, 3 October 2017.
- 'Energy Management for Plastic Processors', British Plastics Federation, London, 18 September 2018.
- 'Energy Management for Plastic Processors', EAFIT University, Medellin, Colombia, March 2019.
- 'How to manage energy consumption and costs in polymer processing', Institute ICIPC Seminar: Eficiencia Energética y Competitividad en la Industria de Plásticos: cómo lograrlo, EAFIT University, Medellin, Colombia, April 2019.
- 'Energy use in polymer processing – a framework for measurement, assessment and prediction', Institute ICIPC Seminar: Eficiencia Energética y Competitividad en la Industria de Plásticos: cómo lograrlo, EAFIT University, Medellin, Colombia, April 2019.
- 'Energy use in polymer processing – making measurements and reducing energy use', Institute ICIPC Seminar: Eficiencia Energética y Competitividad en la Industria de Plásticos: cómo lograrlo, EAFIT University, Medellin, Colombia, April 2019.
- 'Energy Management for Plastic Processors', British Plastics Federation, London, November 2019.
- 'Sustainability – It is not what you think it is', Interplas Lecture, Interplas, September 2021.
- 'Energy Management for Plastic Processors', British Plastics Federation, London, December 2021.

WEBINARS/VIDEOS

- Energy Management Series for SpecialChem, April, 2008.
- Energy Management Series for Plastics News: 1. The manager's role – how to ask the right questions and write an action plan, July, 2010.
- Energy Management Series for Plastics News: 2. Maximizing savings from power supplies, motors, water cooling & drying polymers, July, 2010.
- Energy Management Series for Plastics News: 3. Finding energy savings during processing, September 2010.
- Energy Management Series for Plastics News: 4. Energy-efficient operations and plants, September 2010.
- Energy Management – Top Tips, Unitherm, May 2011.
- Energy Management for Services: British Plastics Federation Training Video, March 2013.
- Energy Management for Injection Moulding: British Plastics Federation Training Video, March 2013.
- Energy Management in Compounding Extrusion, Century Extrusion, July 2015.
- Energy Management for Plastics Processors, Exxon Mobil, September 2017.
- Energy Management for Plastics Processors (US edition), Exxon Mobil, April 2018.
- Advancing Industry 4.0 in Plastics with Hydraulic Fluids, Exxon Mobil, November 2018.
- Advancing Industry 4.0 in Plastics with Hydraulic Fluids (US edition), Exxon Mobil, April 2019.
- Reducing production and saving energy, British Plastics Federation, April 2020.
- Eficiencia energética 1: Webinar given for ICIPC, Colombia, July 2020.
- Eficiencia energética 2: Webinar given for ICIPC, Colombia, July 2020.
- 'Energy Management for Plastic Processors', British Plastics Federation, Zoom, 17/18 November 2020.
- 'Carbon Footprinting for Plastics Processors', British Plastics Federation, Zoom, December 2020.
- 'Carbon Footprinting for Plastics Processors', British Plastics Federation/Plastics Consultancy Network, 'Lunch and Learn Series', Zoom, January 2021.
- 'Carbon Footprinting for Plastics Processors', British Plastics Federation, Zoom, January 2021.
- 'Energy Management for Plastics Processors', British Plastics Federation/Plastics Consultancy Network, 'Lunch and Learn Series', Zoom, January 2021.
- 'Water Management for Plastics Processors', British Plastics Federation/Plastics Consultancy Network, 'Lunch and Learn Series', Zoom, January 2021.
- 'Energy Management for Plastic Processors', British Plastics Federation, Zoom, 23/24 March 2021.
- 'Routes to Net Zero for Plastics Processors', British Plastics Federation 'Achieving Net Zero' conference, July 2021.
- 'Sustainability Management for Plastics Processors', British Plastics Federation, Zoom, 7/8 October 2021.
- 'Sustainability – It is not what you think it is', British Plastics Federation/Plastics Consultancy Network, 'Lunch and Learn Series', Zoom, February 2022.
- 'Energy Management for Plastic Processors', British Plastics Federation, Zoom, 29/30 March 2022.

CHAIRMAN OF DRAFTING COMMITTEES / CONFERENCES

- Quality Management – A Window Fabricators Guide, British Plastics Federation Windows Group, Publication 322/1.
- A Guide to the Survey and Installation of Conservatories (Part 1), British Plastics Federation Windows Group, Publication 337/1.
- A Guide to Commercial and Light Industrial Applications of PVC-U Screening, British Plastics Federation Windows Group, Publication 351/1.

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- A Guide to the Survey and Installation of Conservatories (Part 2), British Plastics Federation Windows Group, Publication 337/2.
- The Survey and Installation of Conservatories (Theoretical Derivations), British Plastics Federation Windows Group, Publication 346/1.
- Window Replacement and Planning Law, British Plastics Federation Windows Group, Publication 357/1.
- Chairman of 'Plasticology 98' Seminar Series – The Belfry, Sutton Coldfield, 1998.

INDUSTRY REPRESENTATION

- 1990 – 1992: Vice Chairman of Technical Committee: British Plastics Federation Windows Group.
- 1992 – 1994: Chairman of Technical Committee: British Plastics Federation Windows Group.
- 1994 – 1996: Vice Chairman of Group Management Committee: British Plastics Federation Windows Group.
- 1993 – 2011: Member of Centre of Window and Cladding Technology (CWCT) Research and Technical Committees.
- 1995 – 1996: Member of Drafting Committee for 'Energy Consumption Guide' on Extrusion of Thermoplastic Pipes and Profiles, produced for the Energy Efficiency Office under Energy Technology Support Unit (ETSU) contract.
- Judge for 1996 Glassex Glass and Glazing Industry Awards.
- Judge for 1997 Window Industries 'Fabricator of the Year Awards'.
- Judge for 1997 Glassex Glass and Glazing Industry Awards.
- 1997 – 1998: Member of Project Advisory Panel for 'Good Practice Guide 239' on 'Energy efficient thermoplastics extrusion' produced for the Energy Efficiency Enquiries Bureau under Energy Technology Support Unit (ETSU) contract.
- Judge for 1998 Window Industries 'Fabricator of the Year Awards'.
- Judge for 1998 Glassex Glass and Glazing Industry Awards.
- Judge for 1999 Window Industries 'Fabricator of the Year Awards'.
- Judge for 1999 Glassex Glass and Glazing Industry Awards.
- Judge for 2000 Window Industries Fabricator of the Year Awards.
- Judge for 2000 Glassex Glass and Glazing Industry Awards.
- 2002 – 2008: Chairman of Plastics Consultancy Network International.
- Judge for G'04 Glass and Glazing Industry Awards.
- Judge for G'05 Glass and Glazing Industry Awards.
- Judge for G'06 Glass and Glazing Industry Awards.
- Judge for 2006 Plastics Industry Awards.
- Voted 13th in the Window Industries top 30 Most Influential People in the UK window industry (2006).
- Judge for G'07 Glass and Glazing Industry Awards.
- Judge for 2007 Plastics Industry Awards.
- Judge for 2008 Plastics Industry Awards.
- Judge for 2009 Design Innovation in Plastics Awards.
- 2009 – 2013: Member of Editorial Advisory Panel of 'Proceedings of ICE– Construction Materials'.
- Judge for 2010 Plastics Industry Awards.
- Judge for 2010 Design Innovation in Plastics Awards.
- 2010 'Personal Contribution' award at the UK Plastics Industry Awards.
- 2011 – 2018: Contributing Editor to Plastics Engineering (Journal of Society of Plastics Engineers).
- Judge for 2011 Design Innovation in Plastics Award.
- Judge for 2011 Plastics Industry Awards.
- Judge for 2012 Design Innovation in Plastics Award.
- Judge for 2012 Plastics Industry Awards.
- Judge for G'12 Glass and Glazing Industry Awards.
- Judge for 2013 Design Innovation in Plastics Award.
- Judge for 2013 Plastics Industry Awards.
- Judge for G'13 Glass and Glazing Industry Awards.
- Judge for 2014 Design Innovation in Plastics Award.
- Judge for 2014 Plastics Industry Awards.
- Judge for G'14 Glass and Glazing Industry Awards.
- Judge for 2015 Design Innovation in Plastics Award.
- Judge for 2015 Plastics Industry Awards.
- Judge for 2016 Design Innovation in Plastics Award.
- Judge for 2016 Plastics Industry Awards.
- 2016 – Present: Assessor for C.Eng. and other grades for Energy Institute.
- Judge for 2017 Design Innovation in Plastics Award.

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- Judge for 2017 Plastics Industry Awards.
- Judge for 2018 Design Innovation in Plastics Award.
- Judge for 2018 Plastics Industry Awards.
- Judge for 2019 Design Innovation in Plastics Award.
- Judge for 2020 Design Innovation in Plastics Award.
- Judge for 2021 Design Innovation in Plastics Award.
- Judge for 2022 Design Innovation in Plastics Award.
- 2022-Present: Project Leader for Science Gateways Project for Worshipful Company of Horners.

PATENTS

- UK Patent GB 2 279 684 A – Sliding Panels.
- UK Patent Application 97 19646.3 – Locking Mechanism for Windows.