

Research Visibility: Chemical Engineering and Advanced Materials

Plenary addresses and keynote papers

Galip Akay

1. G. Akay, Rotating double-disk reactors for process intensification, The 3rd International Workshop on High Gravity Technology and Process Intensification, 3-4 November, 2005, Beijing University of Chemical Technology, China.
2. G. Akay, Bioprocess and Chemical Process Intensification and Miniaturization: Applications in biomass based green energy technology. International Workshop on Micro/Nano Scale Thermal /Fluids Engineering for Biotechnology and Energy Conversion Applications, The 21 Century Centre of Excellence Programme, The University of Tokyo, Japan, 22 April 2005.
3. G. Akay, Size dependent transport phenomena in micro-porous media and its application to the preparation of nano-structured metals with arterial micro-pores, 6Th World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics, 17-21 April, 2005, Matsushima, Japan.
4. M. Dogru, G. Akay, A. Midilli, O.F. Calkan and C.R. Howarth, Gasification of biomass as a source of hydrogen rich syngas production, International Hydrogen Energy Congress and Exhibition, 13-15 July 2005, Istanbul, Turkey.
5. G. Akay, Development of nano-structured micro-porous materials and their application in bioprocess and chemical process intensification. Symposium on: New Trends in Chemical Engineering, University of Salamanca, Spain, 21-25 February 2004.
6. G. Akay, Z.Z. Noor and M. Dogru, Intensification of water-in-crude oil emulsions by simultaneous application of electric field and novel polymeric demulsifiers, 1st International Symposium on Process Intensification and Miniaturization, 18-21 August 2003, Newcastle University, UK.
7. G. Akay, Integrated-intensified biomass based energy technology, International Workshop on New and Renewable Energy, Newcastle University, 18 August 2003, Newcastle upon Tyne, UK.
8. G. Akay, M. Dogru, B. Calkan and O.F. Calkan, Flow induced Phase Inversion phenomenon in process intensification and microreactor technology. 226th American Chemical Society National Meeting, 7-11 September 2003, New York, USA.
9. G. Akay, Z.Z. Noor and M. Dogru, Process intensification in separation processes, 4th European Congress of Chemical Engineering, 21-25 September 2003, Granada, Spain.
10. M. Bokhari, M.A. Birch and G. Akay, Polyhipe polymer: A novel scaffold for in vitro bone tissue engineering. Biomed International Conference, 20-24 September 2002, Antalya, Turkey.
11. G. Akay, Development of microcellular polymers as support for tissue engineering. Nano Bio Tech Conference, 30 September – 2 October 2002, Munster, Germany.

12. G. Akay, M. Dogru, T. Pekdemir and J. Vickers, Process Intensification in oil-water emulsion separation. The 13th International Symposium on Transport Phenomena, University of Victoria, 14-18 July 2002, Victoria BC, Canada.
13. G. Akay, Development of nano-structured micro-porous functional materials for tissue engineering and biotechnology, BioNE2 Workshop on Advanced Materials for Tissue Engineering, 19 May 2005, Durham University, UK.
14. G. Akay, Development of novel technologies based on flow induced phase inversion phenomenon, The 5th AkzoNobel Chemicals Mini Symposium on Emulsification Technology, 12-13 May 2005, AkzoNobel Felling, UK.
15. G. Akay, M. Dogru, O.F. Calkan and B. Calkan, Enhancement of product gas calorific value and quality through integrated – intensified gasifier system for biomass. EU Summer School on: Closing Water and Resources Cycles via Gas Treatment. 26 June, 1st July 2005, Wageningen, The Netherlands.
16. G. Akay, Z.Z. Noor, M. Dogru and S. R. Larter, Intensification of highly stable water-in-crude oil emulsion under electric field in the presence of micro-cellular demulsifiers, 10th Meeting of the Process Intensification Network (PIN), 3 June, 2004, Heriot-Watt University, Edinburgh, UK.
17. G. Akay and M. Dogru, Intensified integrated biomass based sustainable energy technology and the role of gasification, Renewable Energy from Land Workshop, 1 July 2004, Newcastle University, UK
18. L.Liu, MJ Hounslow, G Akay, M van Sint Annaland, JMMM Kuipers, Coupling of population balances and computational fluid dynamics in dense phase systems, *AIChE Annual Meeting*, San Francisco, USA, November 2003.
19. G. Akay, Microporous catalyst support with nano-microstructure, International Workshop on Nanotechnology, Newcastle University, Newcastle upon Tyne, 18 – 21 August 2003. Plenary presentation.
20. G. Akay, Process intensification and miniaturization research at Newcastle University, Seminar at the School of Chemical Engineering and Analytical Sciences, Manchester University, 29 October 2003.
21. G. Akay, O.F. Calkan*, M. Dogru* , Intensified integrated biorefinery for biomass based sustainable energy and feedstock generation, International Conference on Environment: Survival and Sustainability, 19-24 February 2007, Nicosia - Northern Cyprus
22. G.Akay, Combating Global Warming: Establishment of Biomass Based Intensified Energy and Chemical Feedstock Technologies, School of Engineering, Durham University, 24 April 2007.
23. G Akay, Development of Intensified Integrated Biorefinery Technology, Workshop on Renewable Chemicals, 12-13 Sep 2007, Marriott Hotel, Leeds.
24. G. Akay, Intensified gasification technology, Continuing Professional Development Event: Gasification, IChemE in Scotland, Heriot-Watt University, 29 October 2007.
25. G. Akay, Intensified gasification technology, Continuing Professional Development Event: Gasification, IChemE in Scotland, Heriot-Watt University, 29 October 2007.
26. G. Akay, Mimicking of Nature's Nano/Micro Architecture in Micro-Reactors for (Bio)Process Intensification and Tissue Engineering, The 2nd UK-Japan Symposium on Promotion of Regional Partnership on Nanotechnology Development, Newcastle University, March 20th -23rd 2006

27. G. Akay Z.Z. Noor, O.F. Calkan, T. M. Ndlovu and D. Burke, Intensification of chemical reactions in micro-porous media: Preparation of functional nano-structured micro-porous polymeric monoliths for micro-bioreactors, 232th ACS National Meeting, September 10-14, 2006, San Francisco, USA
28. G. Akay Process Intensification in Particle Technology: Preparation of Nano-structured Micro-porous Functional Materials, International Workshop on Process Intensification in Fluid and Particle Engineering, October 15-18, 2006, Kobe University, Japan.
29. G. Akay, Mimicking of Nature's Micro-architecture for Process Intensification: Applications in Tissue Engineering, Bioprocess, Agroprocess and Chemical Process Intensifications; The 45th Annual Meeting of the Japan Oil Chemists' Society, Tokyo Science University, 8-10 September 2006, Tokyo, Japan.
30. G. Akay, Process Intensification and Miniaturization Biological, Chemical, Environmental and Energy Conversion Technologies, Seminar at Chemical Engineering Department of Hacettepe University, Ankara, 2 May 2006.
31. G. Akay, Preparation of functional nan-structured micro-porous polymers for bioprocess/chemical process intensification and tissue engineering based on size dependent confinement phenomena, 6th Advanced Polymers via Macromolecular Engineering, APME 2005, 15-19 August 2005, Istanbul Technical University, Istanbul, Turkey.
32. G Akay, B. Calkan, OF Calkan, R Mohamed and ZZ Noor, Intensification and Tissue Engineering Fabrication of Nano-structured Micro-porous Materials for Bioprocess – Chemical Process, Nanoscience and Nanotechnology 2006, 3-5 May 2006, Middle East Technical University, Ankara, Turkey.

Kamelia Boodhoo

33. Invited seminar at School of Engineering, Cranfield University (August 2006)
34. Invited seminar at School of Engineering, University of Surrey (November 2006)

Steve Bull

35. The relationship between successful preparation and characterisation of surfaces and coatings, S.J. Bull, Plenary lecture at the 7th European Vacuum Conference, (Madrid, September 2001)
36. Application of Nanoindentation to industrial problems: capabilities, advantages and cautionary tales, S.J. Bull, invited lecture at indentation and scratch science meeting, (Mol, Belgium, November 2001).
37. Modelling the mechanical and tribological properties of coatings and surface treatments, S.J. Bull, MRS Fall Meeting, Boston, December 1-5, 2002.
38. Nanoindentation of ceramics, S.J. Bull at IOP one day meeting on Ceramics (February 2003)
39. Mapping the nanoindentation of multilayered coatings, S.J. Bull at IOP meeting on Mapping Tribology (March 2004)
40. Why do coatings work? Or Why they don't?, S.J. Bull, at Gordon Research Conference in Tribology (Holderness School, Rhode Island, June 2004)
41. Nanostructured Materials and Surfaces; Properties, Performance and Potential Applications, S.J. Bull, at Nanofair, St Gallen (14-16 September 2004)

42. Using indentation to investigate erosion damage in bulk materials and coatings, S.J. Bull, at ASTM special meeting on Tribology (April 2005)
43. Surface Engineering on the Edge: Making and Breaking Tribological Coatings and Surface Treatments, Steve Bull, Invited Plenary at Wear of Materials (April 2005)
44. Application of Nanoindentation to industrial problems: capabilities, advantages and cautionary tales, S.J. Bull, at Nanomex, Ensenada, Mexico (April 2005)
45. Analysis of Aluminium Weld Unzipping, S.J. Bull at Aljoin Plus Crashworthiness conference (York, September 2005)
46. Nanostructured Materials and Surfaces; Properties, Performance and Potential Applications, S.J. Bull, at UK/Japan meeting on Nanotechnology, Hokkaido University (October 2005)
47. Indentation fracture and toughness assessment for thin optical coatings on glass, S.J. Bull and J. Chen, 25th Anniversary of the Tribology Group, IOP, London (December 2005).
48. Mechanical Properties From Indentation Measurements at High Resolution: Thin Coatings, Glue Lines and Fine-Grained Phase Mixtures, S.J. Bull, Indentation testing, IOP Tribology group one day meeting, NPL, Teddington, May 2006.
49. Modelling the mechanical properties of thin film, S.J. Bull, IOP Plasmas and thin films annual meeting, IOP, London (June 2006)
50. Measurement of mechanical properties of thin films and nanostructured materials at high spatial resolution, S. J. Bull at Thermec 2006 (Vancouver, July 2006)
51. Adhesion of ceramic coatings, S.J. Bull and J. Chen, at CIMTEC 2006 (Sicily, June 2006)
52. Loading rate effects on the fracture behaviour of solar control coatings during nanoindentation, S.J. Bull and J. Chen, at ICMCTF, San Diego (April 2007)
53. Mechanical properties of very thin films and nanostructured materials at high spatial resolution, S.J. Bull, at Nanohard 2007 (Velingrad, Bulgaria, May 2007)
54. Surface Optimisation Using Nanoindentation and Surface Analysis Techniques, S.J. Bull, at IMechE meeting, Surface Analysis for Engineers (20 June 2007)
55. Small is Beautiful: meeting the nanoengineering challenge, S.J. Bull, invited lecture at Beijing University of Chemical Technology, 13th September 2007.
56. Modelling the limits of coating toughness, J. Chen and S.J. Bull, at MP3 meeting on fracture of coatings (Beijing, September 2007)
57. Indentation fracture, acoustic emission and modelling of the fracture response of thin ceramic coatings, S.J. Bull, and J. Chen, at Hysitron users meeting (Munich, October 2007)
58. Tribology of very thin coatings, S.J. Bull, TSSEA meeting on Surface Engineering Solutions, Loughborough, 31 October 2007.

Paul Christensen

59. Invited Keynote: Photoelectrocatalytic oxidation/disinfection, 55th Annual meeting of ISE, Thessaloniki, Greece, 2004
60. Invited Keynote: 38th Heyrovsky Discussion on Electrocatalysis in Nanoscale", Castle Trest, Czech Republic, June 12-16, 2005.

61. Invited lecture: 17th Int. Symp. On Fine Chemistry and Functional Polymers & 3rd IUPAC Symposium on Novel materials and their Synthesis, Shanghai, October 2007
62. Invited keynote: Colloquium Spectroscopium Internationale XXXV, Xiamen, China, September 2007

Terry Egerton

63. 16th International Conference on Photochemical Conversion and Storage of Solar Energy (IPS-16), Uppsala, Sweden, July 2-7, 2006.
64. Invited contribution to EU COST 54 meeting, EPFL, Lausanne, Switzerland, October 2006
65. Water Treatment by Photo-Electro Catalysis. International Conference on Advanced Oxidation Processes for Wastewater Treatment 3rd April 2002 Cranfield UK
66. Photocatalysis by Titanium dioxide – the Bad and the Good Staff Seminar. Dept of Chemical Engineering, Loughborough University, 2nd April 2003.

Daniel Frankel

67. Invited Lecture - Weizmann Institute of Science 2006.
68. Invited Lecture - Tel Aviv University 2006.

Jarka Glassey

69. International conference on Trends in Monitoring and Control of Life Science Applications, Helsingor, Denmark, Oct. 2002
70. SCI meeting 2001, Biochemical Engineering Research network (BERN) meetings (co-organising the meeting in 2002)
71. Bioproduction, Dublin Oct, 2006.
72. Bioproduction, Berlin, 2007

Adam Harvey

73. Invited lecture: IChemE CPD event Grangemouth April 2007 "Applications of Oscillatory Baffled Reactors"

Elaine Martin

74. Plenary Presentation, B-ENBIS, "Multivariate Statistical Process Control – What is its Real Role in Industry", June 2007
75. Keynote Presentation, BioPat Symposium, September 18/19 2007 (E.B. Martin)
76. Keynote Presentation, CIKTN Associates Stakeholders, Benefits of University Research with Industry Backing, 17/18 September 2007 (E.B. Martin)
77. Plenary Presentation, 15th Anniversary Colloquium, Leuven, Belgium, 7th September 2007 (Martin).
78. Keynote Presentation, International Chemometrics Research Meeting (ICRM), Dutch Chemometric Society, May 28 2006 to June 1 2006.
79. Keynote Presentation, "The Future of Process Analytics and Control Technologies - The Role of Data Fusion", FACSS 2005, Quebec City, Oct. 9-13, 2005, Chemometrics in Process Analytical Technologies Session
80. Keynote Presentation, "Sensor Data Fusion – The Sum of Two Halves is Greater than the Whole", 9th Chemometrics in Analytical Chemistry Conference, Lisbon, September 2004.

81. Keynote Presentation, "The Conjunction of Process and Spectral Data for Enhanced Fault Detection", NCAF Summer Meeting, University of Sunderland, June 2004.
82. Plenary Presentation, "Monitoring Performance in Flexible Process Manufacturing", IFAC ADCHEM'2003, Hong Kong, January 2004.
83. Invited Presentation, "Multivariate Statistical Process Control for Event Detection", Abnormal Situation Management, IChemE, Hull, October 2003.
84. Invited Presentation, "The Secrets to Assured Batch Process Performance Monitoring", Process Analytical Techniques, Brussels, Belgium, June 2003.
85. Invited Presentation, "Collaboration between Academia, Industry, Government – Heavenly Trinity or Bermuda Triangle?", Seventeenth International Forum Process Analytical Chemistry (Process Analysis and Control), Phoenix, USA, January 2003.
86. Invited Presentation, "Challenges in Performance Monitoring of Batch Processes", Seventeenth International Forum Process Analytical Chemistry (Process Analysis and Control), Phoenix, USA, January 2003.
87. Invited Presentation, "Multivariate Statistical Process Performance Modelling and Monitoring – Its Role on Variability Reduction", System Identification and Data Analysis, Advanced Control Technology, Glasgow, July 2003
88. Invited Presentation, "Process Performance Monitoring – Its Application in Process Chemometrics", FACSS, Florida, USA, October 2003.
89. Plenary Presentation, "Needle in a Haystack - A Challenge to Chemometricians", Eighth Chemometrics in Analytical Chemistry Conference, Seattle, USA, September 2002.
90. Invited Presentation, "Advanced Data Reduction Techniques for Increased Energy Efficiency", Energy Efficiency through Process Management and Control, Grimsby, October 2002.
91. Invited Presentation, "The Application of Non-linear Partial Least Squares in the Process Industries", Data Mining, Natural Computing Applications Forum (NCAF), Durham, England, September 2002.
92. Invited Presentation, "An Introduction to Monitoring Process Performance using Six Sigma and Multivariate Statistical Process Control" New Analysis Tools for Optimising Process Performance, IChemE, London, March 2002. (E.B. Martin)
93. Invited Presentation, "Case Study on Applying Multivariate Statistical Process Control for Efficient Use of Energy", Achieving Energy Efficiency in Industry through Control Technology, Energy Efficiency Best Practice Programme, Birmingham, February 2002.
94. Keynote Presentation, "The Application of Partial Least Squares to Non-linear Systems in the Process Industries", Emerging Chemometricians, Royal Society of Chemistry, Glasgow, January 2002.
95. Keynote Presentation, "Challenges for SPC Monitoring" IChemE Conference APC 6, York, UK, September 2001.
96. Keynote Presentation, "Impurity Detection in Batch Pharmaceutical Production", CAB-8, Quebec Canada, June 2001.

Ian Metcalfe

97. Metcalfe, I.S., "Fuel cells, advanced reactors and smart catalysis: the exploitation of ceramic ion-conducting membranes", Keynote Address, 4th

- European Congress of Chemical Engineering, Granada, Spain, September, 2003.
98. Metcalfe, I.S., "Pilas de combustible de óxido sólido: Consideraciones de materiales y combustibles", Keynote Address, IX Jornadas Ambientales, Salamanca, Spain, March, 2004.
 99. Metcalfe, I.S., "Solid oxide fuel cells for a hydrogen economy", Keynote Address, 10th Asian Pacific Confederation of Chemical Engineering Congress, Kitakyushu, Japan, October 2004.
 100. Metcalfe, I.S., "Electrochemical promotion of catalysis at metal surfaces", Keynote Address, 26th Risø International Symposium on Materials Science, Risø National Laboratory, Roskilde, Denmark, September 2005.
 101. Metcalfe, I.S., 'Solid oxide fuel cells and related technologies', 'Perovskite materials for fuel cells, catalysis and ceramic membranes', The Royal Institution, London, November 2001.
 102. Metcalfe, I.S., 'Electrochemical promotion of supported-metal catalysts', 14th Rideal Conference, Manchester, March 2002.
 103. Metcalfe, I.S., 'Alternative materials and fuel options for solid oxide fuel cells', Electrochem '03, Southampton, September 2003.
 104. Poulidi, D., Metcalfe, I.S., 'Electrochemical promotion of a metal catalyst supported on a mixed-ionic conductor', 15th International Conference on Solid State Ionics, Baden Baden, July 2005.
 105. Cresswell, D., Metcalfe, I.S., 'Energy integration strategies for solid oxide fuel cell systems', 15th International Conference on Solid State Ionics, Baden Baden, July 2005.
 106. Metcalfe, I.S., 'UK activities in solid oxide fuel cells (SOFCs) and related technologies', Workshop on UK-China Cleaner Energy Policy and Technology, Xiamen, China, June 2006.
 107. Metcalfe, I.S., 'Solid oxide fuel cells and related technologies', Tokyo Institute of Technology, June 2001.
 108. Metcalfe, I.S., 'Solid oxide fuel cell technology for energy and chemical production', Department of Chemical Engineering, University of Cambridge, October 2001.
 109. Metcalfe, I.S., 'The application of solid-state ion-conducting materials in heterogeneous catalytic and electrocatalytic processes', Department of Chemical Engineering, University College London, March 2003.
 110. Metcalfe, I.S., 'Ceramic ion-conducting membranes for advanced reactor operation', Department of Chemical Engineering, Loughborough University, May 2003.
 111. Metcalfe, I.S., 'The simultaneous generation of chemicals and power using solid oxide fuel cells', Department of Mechanical and Chemical Engineering, Heriot-Watt University, May 2003.
 112. Metcalfe, I.S., 'An integrated hydrogen storage and fuel cells system for vehicular use', Tokyo Institute of Technology, October 2004.
 113. Metcalfe, I.S., 'The role of spillover processes in catalytic modification', Department of Chemical Engineering, University of Washington, Seattle, Washington, USA, October 2005.
 114. Metcalfe, I.S., 'Applications of ceramic ion-conducting membranes in chemical reactors', Departamento de Engenharia Cerâmica e do Vidro, Universidade de Aveiro, Portugal, USA, March 2006.

115. Metcalfe, I.S., 'The application of solid-state ion-conducting membranes in advanced chemical reactors', Multidisciplinary Seminar Program of Graduate Studies in Chemical and Process Engineering, Universitat Rovira i Virgili, Tarragona, Spain, February 2007.
116. Metcalfe, I.S., 'The application of solid-state ion-conducting membranes in advanced chemical reactors', Department of Chemistry, University of York, February 2007.

Gary Montague

117. Invited to the prestigious invitation only Recovery of bioproducts Recovery XII (2006) in Phoenix to present a keynote review of knowledge extraction techniques from data.
118. Joint plenary paper with Prof Martin at 4th International Chemometrics Research meeting in June 2006.
119. Plenary paper at the World Drug Manufacturing Summit in Berlin in November 2006. In addition, Invited to chair the whole conference and was the only academic present at what is an extremely prestigious industrial meeting, catering for VP level attendees.

Julian Morris

120. Keynote Presentation, "Monitoring Manufacturing Performance", Chemical Engineering World Congress, Melbourne Australia, 2001.
121. Keynote Presentation, "Monitoring Multi-recipe Batch Manufacturing Performance", World Batch Forum, Belgium, 2004.
122. Keynote Presentation, "Towards Improved Product and Process Know-how", 9th Chemometrics in Analytical Chemistry Conference, Portugal. September 2004
123. Keynote Presentation, "Multivariate Statistical Process Control in Biological Process Supervision", 10th European Congress in Biotechnology, Madrid, Spain, July 2001.
124. Plenary Presentation, "Feature Extraction and Performance Monitoring for Improved Bioprocess Understanding and Supervision", Cambridge Healthtech Institute's Conference, Bio-contaminants and Biological Production Issues, Virginia, USA, September 2001. S2007
125. Invited Keynote Speaker, International Federation of Automatic Control(IFAC) Computer Applications in Biotechnology CAB10 Conference, Mexico, June 2007
126. Invited presentation 'Towards Model Based Process Performance Monitoring', International Workshop on Nonlinear Model Based Control - Software and Applications (NMPC-SOFAP, 2007), Loughborough, April 2007
127. Invited presentation at the Enterprise Ireland 'i2p innovate to profit project' for Irish Pharma industries, Cork, November 2006
128. Invited seminar UMIST, 2006
129. Invited Seminar Surrey University 2006
130. Invited seminar Loughborough University 2007
131. Invited PAT Workshop (½ day Workshop) PharmaIQ Conference, Effectively Implementing PAT Quality by Design, London, March 2007
132. Invited (2 ½ Day Workshops on Process Analytical Technologies), Institute of Validation Technology International Symposium on Mastering the art of Process Validation, Dublin, November 2006

133. Invited 2-1/2 day Workshops "Improving manufacturing Performance using Monitoring and Control of Pharmaceutical Processes" and 'PAT Tools and their Applications to Pharmaceutical Manufacturing', IVT Conference, Dublin, June 2006
134. Invited Presentation "The Extraction of Chemical Information from Messy Spectroscopic Data", Institute of Validation Technology International Conference on Process Analytical Technology (PAT), Dublin, June 2006
135. Invited Presentation to the Irish Government sponsored meeting of Irish Pharma Sector Companies, Cork November 2006
136. Invited ½ day Seminar Presentations BASF Ludwigshafen Germany, March 2006
137. Invited Prestigious Presentation "Process Analytical Technologies: Contributions from CPACT – an Overview of Methodologies and Applications", the Computer Aided Product and Process Centre (CAPEC) Annual Industrial Consortium Meeting, DTU Denmark, June 2006

Peter Norman

138. RAEng - invited presenter at workshop for teaching design for sustainability held at Edinburgh University, July 2004

Trevor Page

139. Institute of Materials (UK) Annual Ceramics Convention - invited lecture, "NanoIndentation of Ceramics and Hard-Coated Systems" Cirencester April 2001
140. DTI/NPL UK coatings Forum -invited lecture "Probing Ceramics" London 3/2001
141. National Science Foundation (NSF) Workshop on High Pressure Phase Transformations (HTTP) - (University of Tennessee Oak Ridge National Laboratory, USA, August 2005) Distinguished Guest Speaker (invited) – High pressure Phase Transformations in Silicon Related Materials - the Role of Instrumented Indentation
142. Engineering Conferences International meeting on Instrumented Indentation Testing in Materials Research Development (Crete, October 2005) - invited speaker – Instrumented Indentation Characterisation of Coated Systems
143. University of Surrey Annual Materials lecture (October 2005) MATERIALS ENGINEERING MAY SUCCEED - BUT SCIENCE MAY FAIL!

Sudipta Roy

144. New Challenges for HighTech: High Aspect Ratio Gold Devices" - invited lecture at SCI Annual General Meeting, London, May 2001.
145. "Chemistry and Magnetism at Interfaces" Journee de Landolt, Swiss Federal Institute of Technology, 14th February, 2003.
146. Keynote: "Analysis of Electrodisolution from Electrodeposited Nanostructures" paper 421, Coatings Symposium, EUROCORR'2003.
147. Invited speaker: "Bi-Layer Interfaces in Metal Multilayers" Characterisation, Mechanistic Models and Transport Aspects of Cathodic and Anodic Processes in Honor of Dieter Landolt Symposium, 204th Meeting of the Electrochemical Society, Orlando, Florida, Oct 2003.

148. Keynote: "Microfabrication without Photolithography" International Symposium on Electrochemical Micro and Nano Technologies", Tokyo Japan, Sept 29 - Oct 1, 2004.
149. Keynote: "Direct Writing Processes" 1st International Conference of the Direct Writing Association, Durham, April 16, 2007
150. Invited Lecture on "Electrodeposition of Nanostructured Metal Multilayers", 60th Anniversary, Annual Meeting of the Indian Institute of Metals, Mumbai, Oct 14th-16th 2007.

Keith Scott

151. Plenary Lecture 3rd Guangzhou Fuel Cell Conference; China; June 20-23 2006.
152. Polymer Electrolyte Fuel Cells. Will higher temperatures and alternative fuels accelerate technology take up. Keynote Lecture. World Renewable Energy Congress, Aberdeen, UK, May 2005. (WREC)
153. High Temperature Polymer Electrolyte Fuel Cells- Facing the Limitations of Current Technology Keynote lecture Electrochem 2005.
154. Application of corrugated membranes in ion exchange separation processes. Keynote Lecture. 53rd ISE, Dusseldorf, Sept 2002.
155. Polymer electrolyte fuel cell research in the UK. Presentation to the British High Commission; Bangkok. 29th March 2007

Lidija Siller

156. Invited Seminar, Gold nitride, Chalmers University, Sweden; 2003
157. Invited Seminar, Gold Nitride, Institute for Physics, Zagreb, Croatia; 2003
158. Invited seminar, Gold Nitride, NCESS, Daresbury, U.K., 2003
159. Invited Seminar, Carbon nanotubes, Leicester University, UK 2002
160. Invited Seminar, Analysis of ice, MAXLab, Sweden, 2003
161. Invited Seminar, Analysis of ice, The University of Sussex, 2002
162. Invited seminar, Analysis of ice, The Open University, UK, 2003.
163. Invited Seminar, Birmingham University, UK, 2002.
164. Invited talk, UKASF '07 conference, Newcastle, January 2007
165. Invited talk, Nanotec '07, International Conference on carbon nanoscience and nanotechnology, 29th August - 1st September 2007, University of Sussex, Brighton, UK

Suresh Thennadil

166. Invited Lecture (February 21, 2006): Department of Medical Physics and Bioengineering, University College London. "Information Extraction from Spectroscopic Measurements of Particulate Systems: Combining Physics with Chemometrics".

Derek Thompson

167. The future for multicomponent SiAlON ceramics, keynote address given at the International Symposium on SiAlONs, Chiba, Japan, December 2001.
168. Euphoria and heartbreak: the two sides of the coin in the development of structural ceramics - presented as the 46th Mellor Memorial Lecture, University of Keele, April 2002.

169. Sialons: alpha-, beta-, gamma- and beyond, keynote address presented at Euromat 2003, Lausanne, September 2003.
170. Sialons: alpha-, beta-, gamma- and beyond, keynote address presented at the 4th International Symposium on Nitrides (ISN'T IT 4), Mons, November 2003.
171. Oxynitride research in the nano era, keynote address at 5th International Symposium on Nitrides (ISN'T IT 5, Eskisehir, Turkey, April 2006).
172. Innovation in SiAlON ceramics, keynote talk given at the ISAC-3 (International Symposium on Advanced Ceramics) meeting in Singapore, December 2006.
173. Innovation in SiAlON ceramics, invited talk at Dept Inorganic Chemistry, Stockholm University, January 2007
174. The role of crystal structure in the development of new multifunctional oxynitrides – invited talk at the tenth Symposium of the European Ceramic Society, Berlin 17-21 June 2007.

Jim White

175. Invited Speaker on "Weathering of Polymers" at the Technical Session at the All India Rubber Industries Association Seminar on Global Opportunities, Calcutta (January 2001).
176. Keynote Lecture on "Photo-mechanical degradation of thermoplastic elastomers", 19th Polymer Processing Society Conference (PPS-19) Melbourne, July 2003 (Abstract Book p.6)
177. Keynote Lecture on "Polymer Ageing: Physics, Chemistry or Engineering? Time to Reflect", 3rd International Conference on Polymer Modification, Degradation and Stabilisation, Lyon, August 2004
178. Keynote Lecture on "A critical assessment of techniques for monitoring polymer photodegradation", 4th International Symposium on Service Life Prediction, Key Largo, Florida, December 2006.
179. Keynote Lecture: Annual Technical Meeting of the Society of Plastics Engineers (ANTEC2007), Cincinnati, May 2007
180. Plenary Lecture: 9th Brazilian Polymer Congress, Campina Grande, PB, Brazil, October 2007

Mark Willis

181. Keynote paper 17th International Congress of Chemical and Process Engineering, CHISA 2006, Prague, Czech Republic.
182. Invited Seminar, Carleton University, USA, November 2006
183. Invited Seminar, Brandeis University, USA, February 2007
184. Invited Seminar, Texas Tech. University, USA, May 2007
185. Invited Seminar, The Dow Chemical Company, Freeport USA, May 2007

Allen Wright

186. High Throughput Technologies – A Chemical Engineering Perspective Wright A.R. (Plenary Lecture) Advances in Process Analytics and Control Technology York, April 2003
187. Allen Wright, Turning Virtual Development Methods into a Reality, Plenary Lecture, Symposium on Knowledge Driven Batch Processes (BatchPro), Poros, Greece, June 6-9, 2004
188. Beyond the Molecular Frontier: the chemistry/chemical engineering interface in the UK, December 2004, Nutfield Priory, Redhill, Surrey.

Jie Zhang

189. Invited speaker at the Workshop on Corrosion Modeling to Enable Corrosion Informed Material Selection to Life Prediction, July 28-31, 2006, Hotel Regina Olga, Cernobbio, Lake Como, Italy. (<http://users.unimi.it/trasatti/CMLP/CMLP2006.html>).
190. Invited speaker at the Mastering the Science of Process Validation Symposium, November 29 –December 1, 2006, Dublin, Ireland. (http://www.ivtconferences.com/pdf/pv1106_dublin.pdf)

Prize winning publications

Galip Akay

Award winning lecture ‘Mimicking of Nature’s Micro-architecture for Process Intensification: Applications in Tissue Engineering, Bioprocess, Agroprocess and Chemical Process Intensifications’, The 45th Annual Meeting of the Japan Oil Chemists’ Society (JOCS), Tokyo Science University, 8-10 September 2006, Tokyo, Japan, presented by the President of JOCS, Dr Kazuo Tajima.

Steve Bull

Prize for best paper at conference “Test chip for the development and evaluation of test structures for measuring stress in metal interconnects, J.G. Terry, A.J. Walton, A.M. Gundlach, J.T.M. Stevenson, A.B. Horsfall, K. Wang, J.M.M. dos Santos, S.M. Soare, N.G. Wright, A.G. O’Neill and S.J. Bull, Int. Conf. Microelectronics Test Structures, Awaji Yumebutai, Hyogo, Japan, March 23-25, 2004”

Paul Christensen

See Jim White

Terry Egerton

See Jim White

Jarka Glassey

ICHEME BESG Best poster prize at the Bioprocess UK Annual Forum, 2004.

Adam Harvey

ICHEME's Junior Moulton Medal 2001, "A Mixing Based Design Methodology for Continuous Oscillatory Flow Reactors"

Gary Montague

Best poster award at inaugural Bioprocess UK Annual Forum.

Peter Norman

RAEng prize for best paper: 1st Int Conf on Design Manufacture for Sustainability, Liverpool, June 2002

Jim White

Winner of Netzsch Instruments Frank Giblin Memorial Award in Polymer Analysis for best paper presented at SPE Polymer Analysis Division Annual Technical

Meeting: Changqing Jin, T A Egerton J R White, P A Christensen N MacDonald,
Rapid method to assess effect of pigments on photo-degradability of polymers, SPE
ANTEC2003, Nashville, 49 (2003) 1976-1980.

Honours, prizes and awards

Adam Harvey

AspenTech Innovative Business Practice Award, Second prize, IChemE Awards 2002

Trevor Page

2004 Gordon Research Conference on Tribology: Elected Chair (first non-US Chair
of this particular Gordon Conference)

Sudipta Roy

Winning Presentation, "Enface Technology : Medical Applications" Angels Den,
NANOMED, 28-29th June 2006

Derek Thompson

Chairman of the Institute of Materials Ceramics Industry Division (2006-8)

President of the European Ceramic Society (2005-7)

Mellor award (Institute of Materials, Minerals Mining), April 2002.

Verulam medal (Institute of Materials, Minerals Mining), July 2006.

Eileen Yu

First Prize on the competition of Creativity and Connection in Challenging
Engineering event organised by EPSRC, May 2006

External fellowships

Daniel Frankel

RCUK Fellowship (2005-)

Julian Morris

Fellow of the Royal Academy of Engineering (2003-)

Trevor Page

Fellow of the Royal Academy of Engineering (2007-)

Sudipta Roy

Royal Academy of Engineering Industrial Secondment Fellowship, At Integrated
Optical Components (IOC) and JDS-Uniphase (July 2001-June 2002). This is a very
prestigious secondment (only 6-8 awarded each year).

Lidija Siller

EPSRC Advanced Research Fellowship, UK (1999-2004)

Suresh Thennadil

EPSRC Advanced Research Fellowship, UK (2003-2008)

Eileen Yu

EPSRC Overseas Postdoctoral Fellowship in Life Science Interface, from January 2006 to January 2009

Patents and licenses**Galip Akay**

1. G. Akay, Stable oil in water emulsions, EP 649 867 (2001).
2. G. Akay, GN Irving, AJ Kowalski, D. Machin, Process for the production of liquid compositions, European Patent, EP 799303 (2001)
3. G Akay, Stabile oel – in – wasser emulsionen und verfahren zu deren herstellung, DE69330954C (2001).
4. G. Akay et al, Verfahren zur herstellung von fluessigen zusammensetzungen, DE69523623T2, (2002).
5. G. Akay and N. Irving, Dynamic mixing apparatus for the production of liquid compositions, US 63445907 (2002).
6. G. Akay et al., Procedimiento para la produccion de composicion liquida, ES 2166839T3, (2002)
7. G. Akay, S. Dawnes, VJ Price, Microcellular polymers as cell growth media and novel polymers, EP 1183328 A2 (2002); US 09, 856,182 (2002).
8. G. Akay and J. Vickers, Method for separating oil in water emulsions, EP13074202A2 (2003).
9. G. Akay, Method and apparatus for processing flowable material, WO 2004/004880 (2004).
10. G. Akay, Microporous polymers, WO 2004/005355 (2004).
11. Gasification, US2006265954 (2006)
12. G. Akay, Microporous polymers, WO 2004/005355 (2004).
13. M. Dogru and G Akay, Gasification, US2006265954 (2006)
14. M. Dogru and G Akay, Gaseificacao, BR0416197 (2006)
15. M. Dogru and G Akay, Catalytic gasification, EP1687390 (2006)
16. M. Dogru and G Akay, Catalytic gasification, WO05047435 (2005)
17. M. Dogru and G Akay, Gasification, AU4288845 (2006)
18. G. Akay and J. Vickers, Improved methods for separating oil in water AU01764472 (2002).
19. G. Akay, Method and apparatus for processing flowable material and polyhipe polymers, AU04004880 (2004)
20. G. Akay, Microporous polymers, AU3255713 (2004)

Paul Christensen

21. Fuel cell patent, WO2007010207, Publication date: 2007-01-25

Colin Ramshaw

22. Spinning disc reactor, WO0160511 (2001)

Sudipta Roy

23. Manufacturing of micro and nano-devices, EP1778895 (2007)

Keith Scott

24. Fuel Cell Electrode AW UK Provi 28/08/2002 GB0219955.2

25. Fuel Cell Electrode AW PCT 27/08/2003 PCT/GB03/00371 28/08/2002
WO04021486
26. Fuel Cell Electrode AW Regional USA 25/02/2005 00000000000 28/08/2002
27. Fuel Cell Electrode AW Regional Japan 25/02/2005 2004-532293 28/08/2002
28. Fuel Cell Electrode AW Regional Canada 25/02/2005 CA2497105 28/08/2002
29. Fuel Cell Electrode AW Regional EUROPE 26/02/2005 03791028.8
28/08/2002 1537617
30. Fuel Cell Electrode AW Regional South Korea 26/02/2005 10-2005-7003387
28/02/2002

Lidija Siller

31. Deposition of gold nitride, EP1756327 (2007)

Election to fellowships of professional institutions

Steve Bull

Elected Fellow IOM³ (2005)

Invited to become a Fellow of the Institute of Physics (2006)

Alasdair Charles

Elected Fellow Institute of Corrosion

Elaine Martin

Elected Fellow of the Institution of Chemical Engineers (2004)

Ian Metcalfe

Elected Fellow of the Institution of Chemical Engineers (2004)

Trevor Page

Invited to become a Fellow of the Institute of Physics (2003)

Editorships and editorial board membership

Galip Akay

1. Co-editor of book series: 'Process Intensification' Wiley-VCH.
2. Regional Editor of: International Journal of Transport Phenomena
3. Editorial board membership of: International Journal Green Energy
4. Editorial board membership of: Chemical Engineering and Processing
5. Member of the Editorial Board of the Open Biotechnology

Steve Bull

6. Surface and Coatings Technology editorial board (1993-date)
7. J. Phys. D: Applied Physics editorial board (Jan 2005- date)
8. Industrial Lubrication and Tribology editorial board (2004-date)
9. MRS fall meeting 2006 - Symposium Y (Surface Engineering), Proceedings
Co-Editor
10. Research Letters in Materials Science (2007-date)

Terry Egerton

11. Editorial Board: International Journal of Photoenergy (CODEN:IJPNBU)

Jarka Glassey

12. Editor Journal of Applied Microbiology
13. Editor Letters in Applied Microbiology

Elaine Martin

14. Honorary Editor in Chief Transactions of the Institution of Chemical Engineers (Food and Bioproducts Processing) 2002 -2004
15. Member of Editorial Advisory Board of Chemometrics and Intelligent Laboratory Systems 2002 –
16. Member of the Editorial Board of the Open Analytical Chemistry Journal 2007 -

Ian Metcalfe

17. Executive Editor for Chemical Engineering Science (2001-)
18. Subject Editor (Reaction Engineering) for the Transactions of the Institute of Chemical Engineers (1998-02)

Julian Morris

19. Editor Process Systems Engineering, ChERD (Transactions IChemE)

Trevor Page

20. Editorial Board Journal of Materials Science (Springer)
21. Editorial Board Scanning (Elsevier)

Sudipta Roy

22. Lead Editor: ECS Transactions Volume I2 "Green Electrodeposition"
Published by The Electrochemical Society (2006)

Keith Scott

23. Editorial/Advisory Board Member: Fuel Cell Fundamentals
24. Editorial/Advisory Board Member; Hydrogen Energy.
25. Editorial/Advisory Board Member; J. App. Electrochem.
26. Editorial/Advisory Board Member; Bull. Electrochem.

Derek Thompson

27. Member of the Editorial Board of Journal of the European Ceramic Society

Jim White

28. Editorial Board (and Editor): Journal of Materials Science. (1998-present).
29. Editorial Advisory Board: Polymers Polymer Composites. (1996-present)

Jie Zhang

30. Editorial Board Member for the journal Neurocomputing published by Elsevier

Advisory, review, funding or standard setting bodies

Kamelia Boodhoo

Member of EPSRC Peer Review College (2003-2005)

Member Management Committee for Young Academics Network in Chemical Engineering (YANCE)

Invited by the Working Party on Process Intensification of the European Federation of Chemical Engineering to contribute to the European Roadmap of Process Intensification

Steve Bull

Member of EPSRC Peer Review College (2003-)

ISO CEN 14577-6 Nanoindentation of coatings advisory committee

Board member, Advanced Surface Engineering Division, American Vacuum Society (2007-)

Terry Egerton

Management Committee ACORN Project of the IMPACT Faraday Partnership. (£4.5M over 3 years; 6 universities: ~12 companies).

Jarka Glassey

M3C Working Group of ESBES, EFB on Monitoring, measuring, modelling and control of bioprocesses

Facilitator of the regional BioNET Working Group on Bioprocessing

Adam Harvey

Member of Steering Committee of the "Process Intensification Network", and host of last meeting (November 2006)

Elaine Martin

Chairman of the EPSRC Technical Opportunities Panel 2006 -2007

Member of EPSRC Council 2006 - 2007

Member of the EPSRC Technical Opportunities Panel 2004 - 2006

Member of the EPSRC/BBSRC Bioprocessing Research Industry Club 2005 - 2008

Member of the Academic Board of the Chemical Innovations Knowledge Transfer Network 2006 -

Member of the RAE Sub-Panel (Mechanical, Aeronautical and Manufacturing Engineering) 2005

Member of the EPSRC Strategic Advisory Team (SAT) for General Engineering 2002 - 2004

Member of the EPSRC Engineering Peer Review College 1998 -

Chairman EPSRC – Discipline hopping Awards 2005

Member of the EPSRC Collaborating for Success Through People Panel 2007

Member of the EPSRC Systems Biology Panel 2007

Member of the EPSRC Panel for the Faraday Review

Member of the EPSRC Challenging Engineering Panel

Member of the EPSRC Panel for the Process Engineering and Life Sciences Interface 2006

Member of the BBSRC Review Panel for Engineering and Biological Sciences 2007

Member of BBSRC Working Group on Synthetic Biology 2006

Member of the EPSRC Portfolio Partnership Awards Panel 2004, 2005
Chairman EPSRC Advanced Fellowships Panel (Mathematics) 2005
Member of the EPSRC Advanced Fellowship Panel 2004
Chairman EPSRC Large Multi-Disciplinary Mathematics Panel 2003, 2005
Chairman EPSRC Responsive Mode Panel – Systems Panel 2003
Member of the EPSRC Novel Computation Initiative - Six Month Cluster Panel 2004
Member of the EPSRC Engineering Evaluation Panel. 2002
Member of the EPSRC Large Multi-Disciplinary Mathematics Panel (twice)2002
Chairman (twice) and Member (three) of EPSRC Responsive Mode Panel 1999 -
Member of the EPSRC Engineering International Collaboration Panel - 2002
Member of the EPSRC Panel visit to the USA to assess status of Chemical Engineering 1999
Member of Scientific Steering Committee Isaac Newton Institute for Mathematical Sciences, University of Cambridge (2004 -
Member of the Advisory Board of the Research Information Network (2005 -
Chairman of the RIN Physical Sciences consultative group (2005 -
Director of Neural Computing Applications Forum 2003 – 2006
Member of BBSRC Working Group on Synthetic Biology 2006 -
Member of the European Science Foundation Standing Group for Physical and Engineering Sciences 2006 -
Member of the European Science Foundation Core Group for Physical and Engineering Sciences 2006 -
PESC liaison to the COST DC BMBS (Biomedicine and Molecular Biosciences) 2007
Member of the Academic Board of the Chemical Innovations Knowledge Transfer Network 2006-
Chair of the Research Information Network Physical Sciences consultative group 2005 -
Member of the Expert Panel on Researchers Use of Academic Libraries and their Services 2006

Ian Metcalfe

Member of the CPI Technical Advisory Committee (2005-)
Member of EPSRC Process Engineering College (1997-02)
Member of EPSRC Peer Review College (2003-)
UMIST representative for the Petroleum Environmental Research Forum (PERF) (2002-04)
Member of IChemE Technology Team (2002-)
UK delegate to the European Federation of Chemical Engineering (EFCE) Working Party on Chemical Engineering Applications in Catalysis

Gary Montague

EPSRC Peer Review College
DEFRA Food Link panel member
DTI Technology Programme review team
BRITEST Innovation committee

Julian Morris

United Kingdom Automatic Control Council (UKACC) Representative on three International

Federation of Automatic Control (IFAC) Technical Panels:

- o TC 6.1 Chemical Process Control
- o TC 8.4 Biosystems and Bioprocesses
- o TC6.4 Safeprocess

UK representative to the (EU) OST COST Action E36 Management Committee.
Member of the Bioinnovel (Cambridge Babraham Research Campus) Scientific Advisory Board

Member of the World Batch Forum (WBF) Education Committee

Invited International Review Panel member for Chemical Engineering research carried out in the Greek Research Institutes, 2005

Member of the EPSRC Peer College, 1995 - present

Member of the DEFRA Food LINK Programme Management Panel (2002 – 2005)

Trevor Page

Elected to the Structural Materials College of EPSRC 2003-date.

Sudipta Roy

College and panel Member in the EPSRC cross disciplinary college

Assessor and panel member in the DTI-Technology Programme

Member of the SCI-ECTG Committee

Keith Scott

Chairman, Advisory/Evaluation Board, Max-Planck Institute for Complex Dynamic Systems

Research Council of Norway expert panel evaluation member

Co-ordinating member of ESF network in Biomass Usage in Fuel Cells

Manager of European Training Site, Electrochemical Energy and Environmental Systems.

Member of the EPSRC Engineering college.

Member of the British Standards Committee for Fuel Cells.

Member of the EPSRC ENERGY SAC board

Lidija Siller

EPSRC peer review college

Member of the Steering committee for the Portfolio partnership award in Nanophotonics - (EPSRC).

Suresh Thennadil

EPSRC peer review college

Derek Thompson

Member of the Steering Committee of SCERN (UK structural ceramics network) 2005-8

Member of Structural Materials College - EPSRC (2005-8)

European representative on the council of the International Ceramic Federation (2005-7)

Chairman of the International Ceramic Federation sub-committee set up to establish new International Technical Committees.

Jim White

Commonwealth Universities Scholarships and Fellowships Advisory Panel member (2003-2006).

EPSRC Peer College member. (2000-present).

Member of Industrial Advisory Group for the National Physical Laboratory DTI-Funded Research Programmes on Environmental degradation of polymeric materials. (2 programmes, completed 2001).

Government committee contributions**Steve Bull**

Defence Science Advisory Committee independent member (2003-2007)

Julian Morris

Member Technical Advisory Committee ONE NorthEast Centre for Process Innovation

Trevor Page

The Royal Society Working Party on Detection and Decontamination of Terrorist Activities (2003). One of 14 authors of Making the UK safer : detecting and decontaminating chemical and biological agents Royal Society Policy Document, 06/04, April 2004 [ISBN 0 85403598 2]

Ministry of Defence Working Party on Materials Lessons Learned in Service (Fixed Wing Platforms) (2002-2003) -Chairman Dr Richard Dolby. Report published as Materials Lessons Learned From Operations (D/DSAC/50/25 – October 2003)

Defence Scientific Advisory Council's new Precision Attack Systems Board (2003) and to be the 'materials liaison' member of the Basic Technologies Board-note: has served on similar MoD Boards and Committees since 1987 including being the first chair of the Materials Technology Board (1994-98)

Significant collaborative research**Galip Akay**

Coordinator of Intensified integrated biorefinery project funded by EPSRC with Bristol, Newcastle, Oxford, Queen's Belfast and Warwick universities.

Steve Bull

Newcastle PI for a large European Integrated Project (FOREMOST)

Julian Morris

Newcastle PI for a large European Integrated Project (Bioprocessing)

Trevor Page

Invited to spend research periods (2006-) at Oak Ridge national laboratory (USA – fourth visit as Visiting Scientist), Sandia National Laboratory (USA), University of Minneapolis (USA) and the Angstrom Laboratory (Uppsala, Sweden)

Keith Scott

PI for large energy project (Supergen)

Allen Wright

PI for large e-science project (GOLD)

Consultancies/company directorships**Galip Akay**

Research and Development executive director of ITI Energy
Consultancy to AkzoNobel and Exxon Mobil (USA)

Steve Bull

Director and Board Member BRITEST (2005-)

Alasdair Charles

Member of the environmentally assisted cracking group, a consultancy forum for Rolls Royce.

Paul Christensen

Consultancy with ACAL Energy was key to company securing £1.6M in venture capital funding.

Founding Director and the Company Secretary of NewChem Technologies 2002 - 5

Director of Clarizon

Director of GenX Energy Ltd

Terry Egerton

Consultancy with Huntsman Tioxide and Uniqema

Occasional Consultancy with ICI Paints, Micore.

Jarka Glassey

Scientific Advisory Board member, Aegis Analytical Corp., Colorado, USA

Bioprocess control and KBS Consultant, Eli Lilly, Indianapolis, USA

Gary Montague

For several years, acted as an academic advisor to Eli Lilly, Indianapolis in the area of bioprocessing. As a consequence presented a number of technology status seminars in the USA. As a result of this linkage, a text book with Eli Lilly entitled "Pharmaceutical and Biotechnology - Manufacturing Lifecycle Analysis" (Montague, Glassey, Mohan) was published in August 2005 by McGraw Hill.

Serves on the Advisory Board of Aegis Analytical, Colorado, a company specialising in knowledge extraction from data.

Julian Morris

Director and Board Member BRITEST (2002 – 2005)

Associate Directorship with AJM Consulting commercialising the CPACT Newcastle MSPC and data mining ideas

Sudipta Roy

Managing Director of Concordia Diagnostic Sensors (CDS) 2003 onwards.

Keith Scott

Played an important role in the due diligence process during the flotation of AFC energy.

Mark Willis

Consultancy 2004-2005 Biochemie (Austria) Developing model based control strategies for a biochemical process.

Research exploitation by industry**Galip Akay**

Several patents (some of which are listed in this document) are currently utilized by Unilever, BNFL and ITI Energy.

Allen Wright

1986-2001 BatchCAD Ltd. Co founder and Managing Director, Technical Director of BatchCAD Ltd a software company specialising in process simulation for the batch chemical industry. Licensed to 170 companies in Europe, the US and Japan, customers ranged from small chemical companies with fewer than 40 staff to the majority of major chemical and pharmaceutical corporations such as Shell, Glaxo, Pfizer, Mitsubishi, Dow and Dupont. The software has now been acquired by AspenTec 2001- 2003 Avantium Technologies. Executive Vice President Advanced Technology, Avantium Technologies was founded by Shell, Pfizer, GlaxoSmithKline, WR Grace, Eastman and Akzo Nobel with three leading Dutch universities with the specific aim of creating a facility to implement HTT. Avantium is the largest provider of high throughput experimentation and simulation in Europe, employing over 100 research staff.