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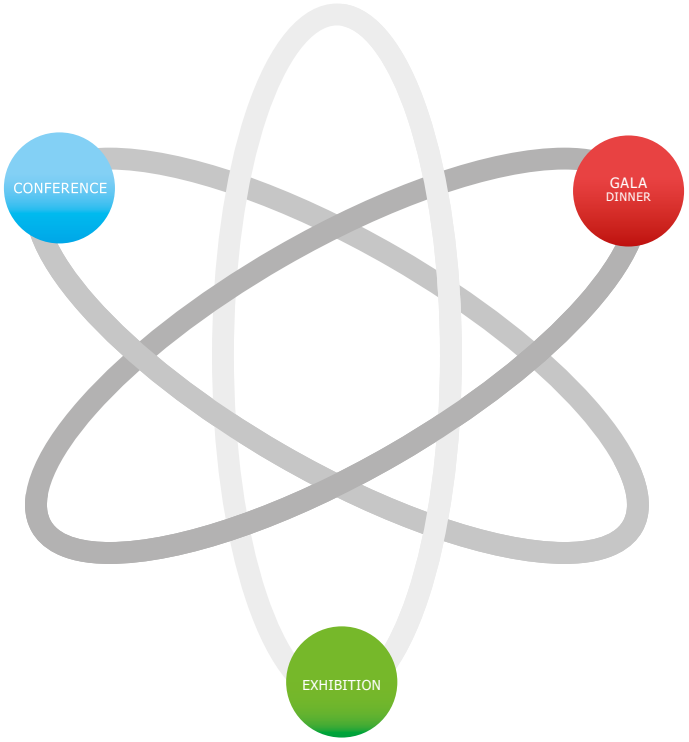
SCIENCE, INNOVATION AND TRANSLATION:

THE DESIGN AND OPERATION OF RESEARCH LABORATORIES, INCUBATORS AND SCIENCE PARK FACILITIES

YORK RACECOURSE, MAY 9-10 2017

CONFERENCE PROGRAMME AND EXHIBITION AT APRIL 9



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CONTENTS

ABOUT THE PROGRAMME

Sessions - There are 9 broadly thematic streams (named A-W) with 10 sessions in each (numbered 1-4 day 1 and 1-6 day 2). They are summarised in pages 6-10 of this document. All sessions are 40 minutes long. Speakers are asked to allow scope for questions and discussion, and to end promptly so that people can move between sessions.

IASP European Stream - IASP Delegates will have the opportunity of registering on Monday evening as well as between 09.00 and 09.30 on Tuesday. There will be an IASP Welcome Session on Tuesday 9 May (at 09.45am) from Josep Pique, Andre Domin and Luis Sanz.

Presentations - All except a few which are restricted because of sensitive information will be available in a Public Dropbox folder after the event. This can be accessed from the *www.effectivelab.org.uk* home page and the *www.ukspa.org.uk* home page, or a link in our post-conference survey email.

Drinks Reception - On Tuesday 9 May we will hold a drinks reception in the Exhibition Hall. Pimms will be served by our exhibitors at 1700-1815 hours. Please come along and visit our exhibitors. It is an excellent informal opportunity to find out more about their lastest products, services and innovations.

Awards Dinner - On Tuesday 9 May we will hold a gala dinner at York Racecourse where the winners of the S-Lab/UKSPA Awards will be announced. Dress code: smart evening wear (black tie acceptable). Tickets include a drinks reception, three course dinner and half a bottle of wine. Tickets can be booked online. See websites for further information.

AGENDA

DAY 1 - TUESDAY 9 MAY

09.30 – 10.30	**Registration (tea/coffee available)**	
09.45 – 10.30	**For IASP Delegates** **Welcome to IASP European Division/York Science Park (see page 2)**	
10.30 – 11.30	**Plenaries** **Strategic Leadership for Science-Based Innovation: Enabling Cross-Disciplinary and University/Industry Partnerships and Creating Effective Support** Dr. David Canter, Senior Associate Vice President, University of Michigan and Executive Director, North Campus Research Complex (NCRC) **How to Encourage More Innovation** Emma Jones, MBE, CEO, Enterprise Nation	
11.30 – 12.10	*Refreshments*	
12.10 – 12.55	**Breakout sessions**	**A1-J1**
12.55 – 14.00	*Lunch*	
14.00 – 14.45	**Breakout sessions**	**B2-J2**
14.45 – 15.30	**Breakout sessions**	**C3-J3**
15.30 – 16.00	*Refreshments*	
16.00 – 16.45	**Breakout sessions**	**D4-J4**
18.30 – 00.30	**Drinks Reception and Awards Dinner**	

DAY 2 - WEDNESDAY 10 MAY

09.30 – 10.15	**Breakout sessions**	**L1-U1**
10.15 – 11.00	**Breakout sessions**	**L2-U2**
11.00 – 11.30	*Refreshments*	
11.30 – 12.15	**Breakout sessions**	**L3-U3**
12.15 – 13.00	**Breakout sessions**	**L4-U4**
13.00 – 14.00	*Lunch*	
14.00 – 14.45	**Breakout sessions**	**L5-T5 V1**
14.45 – 15.30	**Breakout sessions**	**L6-T6 V2**
15.30	*End Conference Refreshments*	

KEYNOTE SPEAKERS AND FOLLOW-ON SESSIONS

Strategic Leadership for Science-Based Innovation: Enabling Cross-Disciplinary and University/Industry Partnerships and Creating Effective Support

DR. DAVID CANTER **Senior Associate Vice President, University of Michigan, and Executive Director, North Campus Research Complex (NCRC)**

David is a physician, scientist and leader who has the responsibility for mapping, developing and implementing the University of Michigan's strategy for the 2m gross square feet and 28 buildings of a former pharmaceutical research campus which now forms the NCRC. By bringing together researchers and partners from different disciplines and industries, the Complex fosters a collaborative environment that encourages discovery, innovation and creativity, and helps catalyse the transformation of the regional economy.

David's keynote and follow-on sessions will describe how the NCRC achieves strategic collaboration in academic science contexts (both internally between different disciplines and units, and externally between universities and industry); adopts creative approaches to building use and reuse; and costs and manages science space.

A native of England, Dr. Canter has degrees from the University of Cambridge, and the Liverpool University Medical School. After graduation he had several years in the NHS and is a Fellow of the Royal College of Surgeons. He then had nearly 25 years of experience in pharmaceutical research in France, the UK and USA at Warner Lambert/Parke-Davis and Pfizer, latterly as a senior vice president and head of its Ann Arbor site.

He has served on the boards of many local and regional organisations, from the Michigan Life Sciences Corridor Committee to the University Musical Society. These connections are vital to his executive role at NCRC, which has many stakeholders in the university, city, region and state.

How to Encourage More Innovation

EMMA JONES MBE **CEO, Enterprise Nation**

Following a degree in Law and Japanese, Emma joined international accounting firm Arthur Andersen, where she worked in the London, Leeds and Manchester offices and set up the firm's Inward Investment practice. In 2000, bitten by the dot.com bug, Emma left the firm to start her first business, Techlocate. This was successfully sold to Tenon aftee 15 months.

The experience of starting, growing and selling a business from a home base gave Emma the idea for Enterprise Nation. Since its 2006 launch the company has become a small business community of over 75,000 people who benefit from business books, events and funding: online, in print and in person. Enterprise Nation also presents a campaigning voice to government and the media on behalf of its members.

In March 2011 Emma was a co-founder of StartUp Britain, the national campaign to encourage more people to start a business and support existing businesses to grow. In June 2012 she was awarded an MBE for Services to Enterprise and in August 2014 was appointed Chair of Plotr.co.uk a digital careers platform to help young people discover their future, including possible self-employment. In November 2015 Emma was appointed by the UK Prime Minister as a Business Ambassador with a focus on increasing international trade.

Emma is the best-selling author of the business books Spare Room StartUp, Working 5 to 9, Go Global, The StartUp Kit and Turn Your Talent Into a Business.

CONFERENCE CHAIR

Strategic Leadership for Science-Based Innovation: Enabling Cross-Disciplinary and University/Industry Partnerships and Creating Effective Support

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MAY 9 – SCIENCE FACILITIES DESIGN AND OPERATION SESSIONS SUMMARY

	A. High Performance Buildings & Services	B. Life Science/ Translational Cases	C. Digital Laboratories of the Future	D. Science Efficiency & Effectiveness	E. Science Efficiency & Effectiveness
12.10 - 12.55	**A1** Learning from Pharma: The GlaxoSmithKline Carbon-Neutral Laboratories for Sustainable Chemistry *Peter Licence, Professor of Chemistry, The University of Nottingham, and Mark Adey, Fairhurst Design Group*	**B1** Influencing Research Culture Through Building Design at the MRC/ University of Glasgow Centre for Virus Research *Eugene Sayers and Luke Thurman, Sheppard Robson*	**C1** Configuring Your LIMS Your Way: Novel Techniques to Match Laboratory Management Systems With the Way You Work *Tim Daniels, Autoscribe Informatics*	**D1** Refurbished Laboratories at the University of Sheffield Support Biomedical Skills Training *Melanie Hannah, University of Sheffield*	**E1** ReThinking Isolation: How Strategic Process Choices Can Optimise Energy, Quality, Speed and Reliability *Steve Tattershall, Banthrax Corporation*
14.00 - 14.45	**A2** An Evidence-Based Approach to Laboratory Ventilation: How Demand-Responsive Systems Can Improve Safety and Cut Energy by 50% *Gordon Sharp, Aircuity*	**B2** Rapid Prototyping and User Consultation Integrates Functionality, User Satisfaction and Biosecurity in The Pirbright Institute's Jenner Building *Dr Michael Johnson, The Pirbright Institute, and Ingo Braun, NBBJ*	**C2** Integrating Laboratory Chemicals, Equipment, Space and Other Management Systems for Efficiency, Safety and Sustainability *Eoin Mulvey, LabCup*	**D2** How to Convert Offices into World-Class Science Space: Creating Europe's Largest Pathology Laboratory in Central London *Paul Sharp, ISG*	**E2** Helping Science and Saving Resources by Better Understanding of Laboratory Water Requirements *Amanda Cove, Veolia Water Technologies*
14.45 - 15.30	**A3** High Performance Interdisciplinary Research at Cornell's Kimball Hall: A Rebirth Model for 1960s Facilities *Ian Adamson and Jeff DeGregorio, Payette*	**B3** A Fully Integrated and Cooperative Approach for a New Translational Research Facility in Melbourne Bridges Knowledge for Successful Outcomes *Harry Charalambous, WoodsBagot*	**C3** The Paperless Laboratory is Here - Science and Efficiency Benefits of Electronic Laboratory Notebook and Laboratory Information Management Systems *Peter Boogaard, Industrial Lab Automation*	**D3** Saving Energy and Water With User Buy-in in Chemistry and Other Laboratories at the University of Strathclyde *Alaine Martin and Rab-bat Oun*	**E3** Surprise-Free Costing of New and Refurblshed Space *Patric Vale, AECOM*
16.00 - 16.45	**A4** Effective, Efficient and Sustainable Laboratories at the Scottish Environment Protection Agency *Sarah Brown, Kirsten Gray, and Clare Anderson, SEPA*	**B4** Applying Home Office Guidelines to Optimise HVAC Use in In-Vivo Facilities *Dr. Lesley Penny, University of Edinburgh, and Ben Breaden, Buro Happold*	**C4** Cell and Gene Therapy Catapult's Technical Staff Use Web Design Planner to Optimise Facility Layouts and Design Their Manufacturing Centre *Daria Popova, Cell and Gene Therapy Catapult, and Matthieu Egloff, OUAT*	**D4** Equipment Innovation: New Products with Resource Efficiency and Other Benefits *David Rooks, VWR, and colleagues*	**E4** Improving Sample Quality and Tracking *Keith Huxford, CSols*

MAY 9 – INNOVATION, INCUBATION AND SCIENCE PARKS

	F. Innovation Places	G. Innovation & Commercialisation	H. Industry & Innovation	J. Innovation & Science Futures	K. Science Parks, Society & Stakeholders (IASP)
12.10 - 12.55	**F1** Strategic Leadership for Science-Based Innovation: Enabling Cross-Disciplinary and University/Industry Partnership Through Effective Buildings and Support Systems - Keynote Follow-on *Dr. David Canter, University of Michigan*	**G1** Future of the Workplace *Mike Guest, Essensys*	**H1** How to Market Successfully a Technology or Science Park? *René Buck, Buck Consultants International*	**J1** Entrepreneurship, Policy and Science Parks *Dr Malcolm Parry Surrey Research Park*	**K1** Science Parks, Stakeholders and Society: European Experiences *Jane Davies (UK)*
14.00 - 14.45	**F2** Science Space Management and Costing *Dr. David Canter, University of Michigan*	**G2** Innovation Ecosystems *Tim Hammond*, Durham University	**H2** Life Science Innovation H2A. What are Life Science companies looking for when choosing where to locate? *Nykki Rogers, Creative Places* H2B. Incubating Biotechnology: A Comparative Study *Daniel McDonald-Junor, Nottingham Trent University*	**J2** Future Trends for Science Parks: North America Case Studies *Jeff Williams, Perkins + Will, and Mitch Horowitz, TEconomy*	**K2** Science Parks, Stakeholders and Society: European Experiences *Steen Donner (Denmark) and Maria Do Ceu (Portugal)*
14.45 - 15.30	**F3** Fostering Interdisciplinary Academic and Industry Collaboration and Innovation at the Central Teaching Labs at the University of Liverpool *Dr Helen Vaughan, University of Liverpool, and Jon Roylance, ADP*	**G3** Incubators and Accelerators – a Major Distraction or a Perfect Tool for Technology Transfer? *Simon Bond, SETsquared*	**H3** Effective Scouting from Universities and Science Parks *Gerald Law, Innovation DB and Forum*	**J3** How do Science Parks and Innovation Centres contribute towards the Government's innovation and enterprise agendas and how should they adapt in the light of Brexit? *Charles Monck, Charles Monck and Associates*	**K3** Society Innovation Through Stakeholder Engagement - The "Educational Lab" in Austria's Lakeside Science and Technology Park *David Pitschnann, Lakeside Science & Technology Park*
16.00 - 16.45	**F4** Europe's Largest Biomedical Laboratory: Research and Innovation at London's Francis Crick Institute *Nick Carter, Francis Crick Institute, and Steven Berry, Richard Smith and Catherine Wells, Arup*	**G4** Driving Value from Discovery and Ideas - the Key Ingredients for a Sustainable Ecosystem: Environment, Capital, Networks and Talent *John Anderson, Imperial College and Imperial College ThinkSpace*	**H4** Connecting Knowledge Generators Through Infrastructure: Challenges and Opportunities *Fred Walker, JISCOM and Bob Cushing, BridgeFibre*	**J4** From Science Slums to the Edge of Space – 30 Years of Incubation *Jo Willett, Oxford Innovation*	**K4** Science Parks, Stakeholders and Society K4A How Science Parks Can Tackle the Big Societal Challenges *Catherine Johns (UK)* K4B Science and Technology Parks and the Connection with Ecosystems of Innovation *Josep Pique (Spain)*

MAY 10 AM – SCIENCE FACILITIES DESIGN AND OPERATION SESSIONS SUMMARY

	L. High Performance Buildings & Services	M. Life Science / Translational Cases	N. Science Efficiency & Effectiveness	O. Quality, Safety & Security	P. Core Facilities & Shared Eqt
09.30 - 10.15	**L1** Benchmarking for Improvement: Results from 121 Academic Laboratory Buildings at Harvard and Other Boston Institutions *Dr. Alison Farmer, kW Engineering*	**M1** Inspiring Transformative Design for Research: Seattle's Allen Institute *Kay Kornovich, Perkins+Will*	**N1** Safer Ventilation Control of Laboratory Containment Devices – In search of Vmin *Roy Allwood, Labway Services, and Mark Dawes, Halton UK*	**O1** Is Your Cleanroom and Laboratory Air Really as Healthy and Pure as it Could Be? *Jarmo Kesanto, and Neviille Spiers, KSG Health Ltd*	**P1** Supporting University-Industry Collaboration Through Shared Facilities: The University of York's Bioscience Technology Facility *Dr. Peter O'Toole, University of York*
10.15 - 11.00	**L2** Closing the Energy Loop: Ensuring that Metering and Monitoring Systems Support Continuous Improvement in Energy Use *Matthew Butler, AECOM*	**M2** The Discovery Centre for Translational and Interdisciplinary Research at the University of Dundee *Brian Thomson, University of Dundee, and Raj Deb, BMJ*	**N2** Contamination Control: from Lab to GMP *Martin Nicholas, Thermo Scientific Laboratory Products Group*	**O2** Breath Easy: How to Reduce the Risks Associated with the Use of Gas in Your Facility *Matt Lambert, Analox*	**P2** Open IRIS: A Free Platform to Enable Resource Sharing for Labs and Core Facilities *Dean Flanders, Friedrich Miescher Institute for Biomedical Research*
11.30 - 12.15	**L3** Fume Dispersal – Is that Giant Flue Really Doing its Job? *Richard Walder, BuroHappold, and Aimee Smith, RWDI*	**M3** From the Bench-side to the Bedside at the University of British Columbia's Djavad Mowafaghian Centre for Brain Health *David Martin, Stantec*	**N3** Drowning in Data - Lessons from Big Pharma in How to Take Control of Science Information *Peter Boogaard, Industrial Lab Automation*	**03** Heating, Stirring and Temperature Controlled Laboratory Experiments: Key Issues in Balancing Cost, Performance, Safety and Sustainability *Kevin Mann, IKA*	**P3** Creating and Running the Core Flow Cytometry Facility at the Francis Crick Institute *Derek Davies, Francis Crick Institute*
12.15 - 13.00	**L4** The University of Leicester's Centre for Medicine Building Has Driven Curriculum Change and Research Integration, and is Britain's Largest Passivhaus Structure *Presenter tbc*	**M4** Unique Capabilities at Cardiff University's Brain Research Imaging Centre (CUBRIC) *Prof. Derek Jones and Paul Yeoman, Cardiff University, and Richard Golledge, IBI Group*	**N4** Fume Cupboard Upgrades at the University of Reading Save £315,000 pa, with a 3 Year Payback *Dan Fernbank, University of Reading*	**04** Secrets of pH Measurement: Effective Calibration, Care and Maintenance of Equipment, and New Technical Options *Rowan Maulder, Camlab*	**P4** Creating a Showcase of Science: Shared Resources and Collaborative Science Neighbourhoods in Tampa's Moffitt Cancer Center *Christine O'Connell, Moffitt Cancer Center*

MAY 10 AM - INNOVATION, INCUBATION AND SCIENCE PARKS SESSIONS SUMMARY

	Q. Innovation Places	R. Innovation & Commercialisation	S. Industry & Innovation	T. Innovation & Science Futures	U.Science Parks, Society & Stakeholders (IASP)
09.30 - 10.15	**Q1** Bristol's First Science Incubator, Unit DX, Provides High Quality Lab Space, Support and Equipment Access to Science SMEs. *Dr. Harry Destecroix, Unit DX*	**R1** University Incubator Models: Cost Centres or Profit-making Enterprises? *Ian Carter, University of Sussex*	**S1** Open Session *Presenter tbc*	**T1** What Exactly is an Innovation Ecology? *Joanne Smart, Catalyst Inc.*	**U1** Heidelberg Technology Park - Focused on Innovation *André Domin (Germany)*
10.15 - 11.00	**Q2** Effective Design of Reconfigurable Space and Services for Incubation and Innovation: Lessons From Recent Developments *Roland Triance, Romero UK /Premier Laboratory Systems*	**R2** University-Business Collaboration: Mechanisms and Managing Expectations *Paul Fairburn, Coventry University, and Sue Sundstrom, University of Bristol*	**S2** Where is UK Science and Innovation Heading? *Martino Picardo, Stevenage Bioscience Catalyst*	**T2** Evolving Innovation Ecologies: Areas of Innovation, Knowledge Quarters, Science Cities, and Regional Powerhouses – How Do Science Parks Contribute? *David Hardman, Innovation Birmingham, and Chairman, UKSPA*	**U2** Cooperation for Growth: Communication is Key *Caroline Drabe (Sweden)*
11.30 - 12.15	**Q3** Innovation and Commerce at "The Core" of Newcastle Science Central *Toby Hyam, Creative Space Management*	**R3** Incubation and Start-up Support: Experience in Austria and France R3A Nurturing entrepreneurship in academia and corporate's intrapreneurship *Irene Fialke, INiTS, Vienna* R3B Eurasante Park and Lille Regional University Hospital - *Jon Sabeena Kalla, Eurasante*	**S3** What Support Do Early-Stage Bioscience Enterprises Really Need? Experience at the Babraham Research Campus *Derek Jones, Babraham Bioscience*	**T3** The Future UK Knowledge Economy: Implications for Regions and Science Parks *Ben Hall, GVA*	**U3** Technology Park of Andalucia: 25 Years of Haps and Mishaps *Lourdes Cruz (Spain)*
12.15 – 13.00	**Q4** Designing for Industry Innovation: The Technology and Innovation Centre at the University of Strathclyde *Christoph Ackermann, BDP*	**R4** The Policy Picture R4A Key Implications for University and Business Innovators *Kathryn Walsh, University of Loughborough* R4B The National Picture - Innovation, Incubation and Accelaration *Jonathan Bone, Nesta*	**S4** Driving the North's Bioeconomy: Collaboration Between FERA Science, The YNYER Local Enterprise Partnership and Other Stakeholders *Andrew Swift, FERA Science Ltd, with contributions from the Local Enterprise Partnership, and tenants of the National Agri-Food Innovation Campus*	**T4** The 'Research Hotel': What Equipment, Facilities and Support Can it Provide? *Panel discussion*	**U4** Science Parks, Stakeholders and Society: European Experiences *Luis Sanz (IASP)* Farewell from IASP/ York Science Park *IASP delegates are welcome to stay for afternoon Conference sessions*

MAY 10 PM – SCIENCE FACILITIES DESIGN AND OPERATION SESSIONS SUMMARY

	L. High Performance Buildings & Services	M. Life Science / Translational Cases	N. Science Efficiency & Effectiveness	O. Quality, Safety & Security	P. Core Fcilities & Shared Eqt
14.00 - 14.45	**L5** How to Win Over Researchers and Lessons from Grassroots Green Labs at the University of Chicago *Erin Fry, University of Chicago*	**M5** A Building for Transformative Medicine at Boston's Brigham and Women's Hospital *Rebecca Mortimore, NBBJ*	**N5** Session Details Pending *Presenter tbc*	**O5** Cryogenic Storage Best Practices: Sample Quality Solutions for Traceability, Security and Auditability *Paul Heath, Brooks Life Sciences*	**P5** Taking Single-Core Technology Provision Forward: What are the Needs and Can New Networks Help? *Discussion session, facilitated by Dr. Alex Sossick, Wellcome/ CRUK Gurdon Institute*
14.45 - 15.30	**L6** Laboratory Benchmarking *Discussion session*	**M6** Maximising Adaptability, Functionality and Sustainability at the Wellcome Wolfson Institute of Experimental Medicine, Queen's University of Belfast *Aaron Taylor, Stantec*	**N6** Equipment Innovation: New Products with Resource Efficiency and Other Benefits *David Rooks, VWR, and colleagues*	**O6** Are You On Top of ElectroMagnetic Risks and New Regulations in Your Laboratory? *John McAuley, CEI*	**P6** Taking Multi-Core Technology Provision Forward: What are the Needs and Can New Networks Help? *Facilitated discussion session*

MAY 10 PM - INNOVATION, INCUBATION AND SCIENCE PARKS SESSIONS SUMMARY

	Q. Innovation Places	R. Innovation & Commercialisation	S. Industry & Innovation	T. Innovation & Science Futures	V. Skills and Careers
14.00 - 14.45	**Q5** Designing for Innovation at Cambridge's Granta Park *Orestis Tzortzoglou, Bio-Med Realty, and Malcolm Tait, KJ Tait*	**R5** Science Parks and "Ions": Innovation, Commercialisation and Co-location – Does it Really Work? *Patrick Bonnett, National Innovation Centre for Ageing*	**S5** Innovation Future: Innovation Trends J4A Innovation Nodes - Concepts and Signif-icance *Tim Bacon, Innovation Centre and Science Park Services* J4B Ownership and Governance of Science Parks, Statistical Insights	**T5** Brexit, Innovation and UK Science *Speakers include UKSPA Companion Charles Monck with a Panel of speakers contributing perspectives on Research, Small Business and Property Implications of Brexit*	**V1** Future Skills: The Opportunities for Science & Innovation *Bill Williams, Centre for Engineering and Manufacturing Excellence (CEME)*
14.45 - 15.30	**Q6** The Innovation Machine - How New Ideas Can Become Repetitive *Andrew Kane, Faulkner Brown Architects, and Mike Dockery, Sui Generis*	**R6** The University Innovation Centre – Components for Business Success *Michael Wilson, 3M Buckley Innovation Centre, Huddersfield*	**S6** Successful Design for Innovation in China, Europe and North America *Paul Michael Pelken, P+ Studio, and Southeast University, Nanjing, China*	**T6** Science Technology Parks (STP's): What's in a Name?: The Brand and the Message *Claire Jonik, Future Fusion*	**V2** Technical Resources in Universities and Science Parks - A Toolkit to Map Needs and Skills, Build Capacity and Support Career Development *Dr Ian Tidmarsh, University of Birmingham and TDM Project*