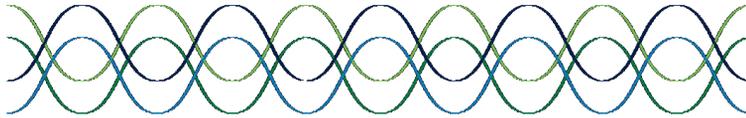




United Kingdom and Ireland Section  
Systemic Innovation SIG, Systems Chapter

# Systematic Innovation



Industry; Business & Commerce  
Research; Engineering, Management  
Education; Schools, colleges, Training  
Government; Policies

**Mon 23<sup>rd</sup> September  
2019, Bracknell**

Systemic and Systematic Innovation Special Interest group (SISIG) is pleased to announce its second meeting in 2019, as part of a continued programme of developing and promotion of understanding systematic approach to innovation. This event is specially special as it has been sponsored by the 3M in the UK, with a proven and enviable track record in systematically developing new innovative solutions and its introduction to the market.

An impressive line up of speakers are presenting their take on various aspects of innovation, highlighting different approaches adopted by them and their respective organisation.

At the end of the meeting, delegates are treated to the "3M innovation tour" giving a further insight to practice of innovation in a leading innovation business.

## Speakers

- **Dr. Ben Watson,**  
3M UK
- **Prof. Darrell Mann,**  
University of Buckingham
- **Mr. Tim Witcher,** WSP UK
- **Mr. Jon Brookes,**  
Accrosoft Group
- **Mr. Kevin Farquharson,**  
Smartran UK
- **Mr. Paul Frobisher,**  
Strategic Innovation UK

**Venue:** 3M UK PLC, 3M Centre, Cain Road, Bracknell, RG12 8HT

**Tickets:** <https://www.eventbrite.com/e/systematic-innovation-tickets-69398666279>

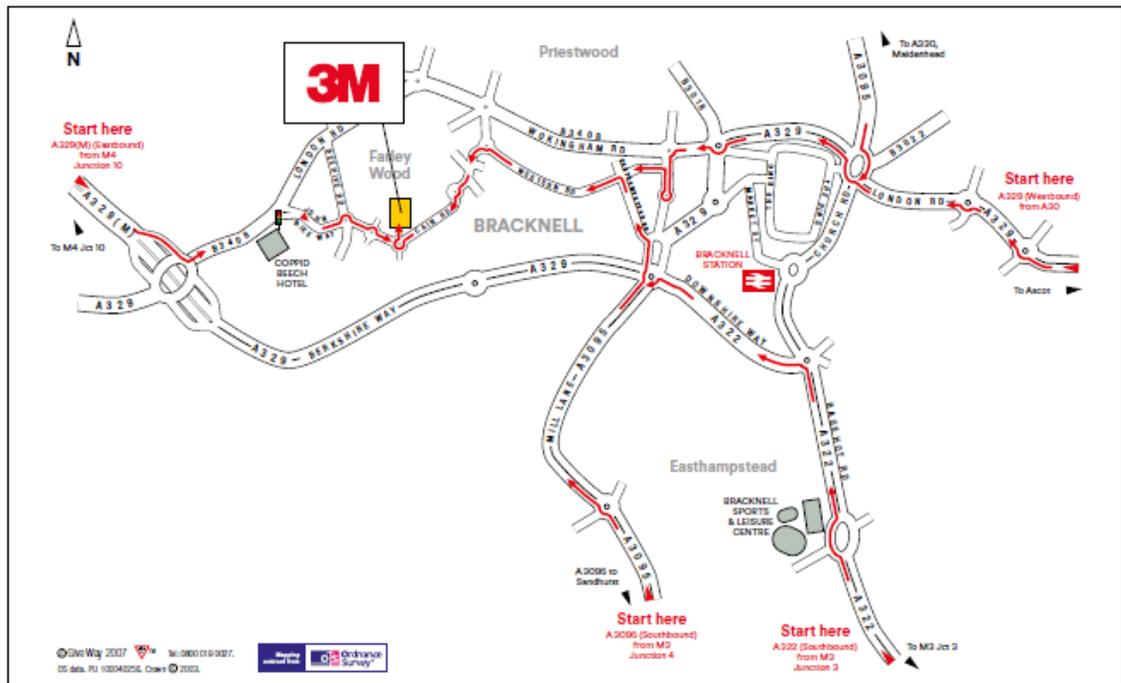
sponsored by



# Programme : Monday 23<sup>rd</sup> September 2019

- 09:30 ; Registration
- 10:00 ; “Introduction and Welcome from 3M ”; Dr Ben Watson
- 10:10 ; “ Welcome from IEEE SISIG; Dr Farhad Fassihi, GEP TEC Ltd.
- 10:20 ; “First Principles Innovation: Compass, Contradiction, Complexity ”,  
Prof. Darrelle Mann, University of Buckingham & Systematic Innovation Ltd.
- 11:00 ; “The School that DOESN’T Kill Creativity: Turning Innovation on its Head” ,  
Mr Tim Witcher, WSP UK.
- 11:40 ; “Systematic Innovation in SMEs, a unique perspective and Approach” ,  
Mr Jon Brookes, Accrosoft group.
- 12:20 ; Break & Refreshments
- 13:30 ; “Systematic Innovation in Smart mobility; Application of Blockchain in Smart  
Ticketing”, Mr Kevin Farquharson, Smartran Ltd.
- 14:10 ; “A Strategic Model of Innovation”, Mr Paul Frobisher, Strategic Innovation UK.
- 14:50 ; 3M Innovation Tour
- 16:00 ; Close

## Location Map:



## Speakers



**Dr. Ben Watson**, representing our host with the responsibility to lead international interdisciplinary teams within 3M, to anticipate and shape the future. He has more than 20 years global design experience and leadership in building and managing multi-disciplinary creative teams, driving innovation. Ben’s PhD is in applied systems thinking for design, from Loughborough University, addressing technology transfer concerns from ideation to innovation. He is on the Advisory Board of the Materials and Design Exchange, Trustee and Councillor for the Institution of Engineering Designers, international expert on Innovation Management Systems with the International Standards Organisation (ISO) and fellow of the Institution of Innovation and Knowledge Exchange.



**Professor Darrel L Mann**, Darrell is Visiting Professor at the Universities of Warwick and Buckingham in the UK, and Taylor's University in Malaysia. He has spent fifteen years as a Systems Engineer in the military aerospace industry, before becoming Chief Engineer responsible for the company's R&D strategy. Darrel has helped set up a high technology company spin-out from Imperial College, London, before entering a programme of systematic innovation research at the University of Bath. He started using Systematic Innovation in 1992, and by the time he left Rolls-Royce had generated over a dozen patents and patent applications. For the past 18 years he has helped many of the world's top companies to create stronger IP, participating in the creation of over 500 inventions. He is also the CEO of the Systematic innovation company in the UK.



**Tim Whitcher** is working for WSP in the UK as Solution Lead for Digital Railway and the head of Future Ready Railway. He is looking to address the responses to the megatrends that are sweeping society from aging population and loneliness, to climate change. Tim brings a decade of professional engineering within safety critical industries; from assistant tester to technical authority. His focus is on delivering fully integrated, holistic solutions which delivers not only the right answer now but bed-rock for the future. Tim is a chartered engineer and holds a bachelor's degree in electromechanical engineering and a master's degree in business.



**Jon Brookes** is the CTO of the Accrosoft group since 2007, and a Chartered Fellow of The British Computer Society. He has been working with the Accrosoft group since 2007. Prior to his current appointment he was consulting for a number of tier1 service providers, systems integrators and venture capitalists as a TOGAF certified Enterprise Architect working on some of the largest big ticket IT programmes in Europe. Jon has a deep technical and commercial understanding of cloud, SaaS, IaaS and PaaS with a wealth of experience of bringing new, innovative technologies to market.



**Kevin Farquharson** is a highly experienced programme manager and solution consultant in the uses and applications of smart media. He is an expert in payment applications, account based ticketing, transport ticketing, mobile technology, contactless media, smart ticketing, wearables. He has over 30 years wide-ranging experience successfully implementing and managing multi-million pound IT programmes and projects. Kevin studied engineering at Trinity Hall, Cambridge where he gained a Master's degree. He is a chartered engineer and member of the IET. Kevin is managing director of Smartran Ltd which he founded in 2003. He is currently preparing a new ticketing proposition based on "Blockchain" to lower costs of ticketing and improve customer experience.



**Paul Frobisher** is director of Strategic Innovation Ltd, part of the Systematic Innovation network, serving a broad spectrum of industries. His focus is on technology and bringing in multiple disciplines and business perspectives with a passion for sustainability. Paul has experience in automotive, nuclear, chemical, power and tractions industries. He has been an enthusiastic manufacturing engineer with six sigma black belt. Paul discovered TRIZ which was the catalyst of second half of his career where he formed a TRIZ inspired start-up venture involved in consultancy. Paul lectures part time in TRIZ and creativity at the University of Bath, where he received his Mphil in approaches to modelling and measuring Innovation.