NOTTINGHAM BUSINESS SCHOOL
NOTTINGHAM TRENT UNIVERSITY

IEEE
United Kingdom and Ireland Section
Systemic Innovation SIG, Systems Chapter

Systematic Innovation

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

Wed. 23rd January 2019, Nottingham

Innovation is universally regarded as a key route to prosperity and societal development. Businesses and individuals spend considerable time, effort and money to develop new innovative products, services or solutions to maintain and improve their prospects. Although organisational innovators are relatively more successful in achieving their objectives, the success rate for turning new ideas into innovative solutions is generally considered to be lower than expectations. Experts have been pursuing different routes to develop systematic approaches to simplify and increase the success rates of turning ideas into innovation. This seminar is an opportunity to share and discuss different perspectives, ideas, opinion, expertise and experience by innovation professionals from academia / research, industry / commerce, education and the government. It is anticipated that such exchanges in this forum would lead to the development of a comprehensive Systematic Innovation approach that can be adopted by all stakeholders interested in innovation. Furthermore, development of effective systematic approaches could lead to higher rates of success for practicing innovators and promote innovation by attracting new innovators through development of efficient training programs. This seminar is the inaugural meeting of the Systematic Innovation Special interest group (SISIG) of the IEEE UK & Ireland and is jointly sponsored by Nottingham Business School.

Speakers

- **Prof. B. Yazdani,** Dean, Nottingham Business School
- **Prof. A .G. Hessami,** Vega Systems & chair, IEEE UK&I Systems Council Chapter
- **Prof. M.J. Henshaw,** Loughborough University, Director; MSc Advanced Systems Engineering
- **Dr. Ben Watson,** 3M Corp.
- **Dr. R. Ghaffari**
- **Mrs. D. Kaur,** Head of STEM, Lboro. Grammar School
- **Mr K. Cilliers,** Editor, TRIZ Journal
- **Dr. F. Fassihi,** GEP TEC Ltd. & Chair of IEEE UK&I SISIG.

Venue:

Nottingham Business School, Burton Street, Nottingham, NG1 4BU.

For further information and registration to attend: https://www.eventbrite.com/e/systematic-innovation-seminar-tickets-52933908746

Programme

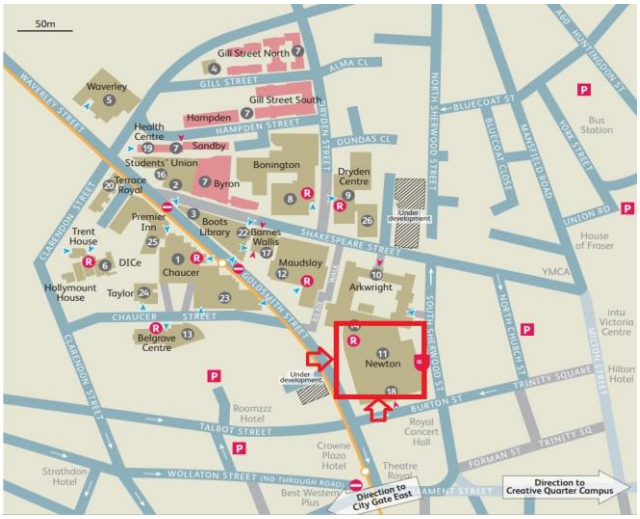
11:30 ; Registration
12:00 ; "Introduction and Welcome"; Prof. B. Yazdani
12:10 ; "Evolution of human problem solving from hunter gatherers to modern day innovation", Dr. R. Ghaffari
12:50 ; "Innovation and Ethics", Prof. A G. Hessami
13:30 ; "Innovation and its role in education and potential impact on students' future", Mrs. D. Kaur
14:10 ; Break & Refreshments
14:40 ; "The role of Systems Engineering in Innovation", Prof. M. J. Henshaw
15:10 ; "Innovation management systems and the enabling conditions for serial innovation success", Dr. B. Watson
15:50 ; "Systematic Innovation, complex systems & capability maturity: not getting so far ahead of the parade no-one knows you're in the parade anymore", Mr. K. Cilliers,
16:30 ; "Interdisciplinary vision of Systemic Innovation, its application and the potential role of the IEEE SISIG in 'democratising' innovation", Dr. F. Fassihi
17:10 ; Discussions
18:00 ; Close

Date

Wednesday 23rd January 2019

Venue

Lecture Theatre 7, Zero Floor,
Nottingham Business School,
Nottingham Trent University,
Burton Street, Nottingham,
NG1 4BU.



Speakers

Prof. Baback Yazdani is a Professor of Product Development and Dean of Nottingham Business School, UK's top business school for personalisation and experiential learning, integrating research, teaching and industrial collaboration in business and management education. He has a wealth of experience from senior academic roles as well as senior leadership roles in industry and international business (US and Europe). Baback is a Board member of the EFMD, ABIS Trustees and Chartered Management Institute (CMI) and also Treasurer of the Chartered ABS. He is a Fellow of IET, Companion of the CMI, Principal Fellow of HEA and member of the Fédération Européenne d'Associations Nationales d'Ingénieurs, American Society of Mechanical Engineers and British Academy of Management.

Professor Ali Hessami is Director of R&D and Innovation at Vega Systems. He is an expert in systems assurance and safety, security and sustainability, and has a background in design and development of advanced control systems for business and safety critical industrial applications. He represents the UK on CENELEC and IEC safety systems, hardware and software standards committees and is a group leader for a pan European Cyber Security Standard. He is also the Technical Editor for the IEEE P7000 process standards on addressing ethical concerns during system design.

Professor Michael Henshaw, leads the Engineering Systems of Systems research group at Loughborough university and is programme director of the Systems Engineering MSc. He leads the Loughborough University research challenge in Secure and Resilient Societies, which integrates technical, societal, and humanities disciplines to create solutions to natural and manmade threats to society. He is a co-chair of the IEEE SMC Society Technical Committee on Systems of Systems and member of RAeS, INCOSE, IEHF and a member of the NATO Technical panel in Systems Concepts and Integration. Much of his work concerns the integration of complex networked systems with contributions in Systems of Systems (SoS) and Cyber-Physical Systems (CPS) research.

Mrs. Daljit Kaur is Head of STEM innovation at Loughborough Grammar School. Her background is in Computer Science and she works within the Loughborough Schools Foundation to help deliver and co-ordinate STEM and Innovation across the curriculum and helps to nurture innovation. She has had much success with her students to date, including winning the '2017 UK Young Engineers of the Year Award' and the 'TeenTech Awards' annually since 2013

Dr. Ben Watson, is leading 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.

Mr. Kobus Cilliers is a globally renowned inventor whose innovations have been developed by companies across the globe including NASA, TATA, Titan, JLR and the NHS. A winner of internationally acclaimed awards, he is in demand as a mentor to leaders in global organisations. As editor of the TRIZ Journal, he is propagating progress within innovation and is keen to educate the world about the emancipatory results of innovation. To this end, he has developed and launched the world's first Masters degree in Structured Innovation.

Dr. Reza Ghaffari is a systems expert and data scientist. He has received his PhD in Intelligent Systems from the University of Warwick. He has over a decade of experience in software engineering and system design. He is working for a major international consultancy and technology development corporation. His expertise and focus is delivering value to customers through optimised system architecture, data science and innovation. His paper relates to his personal research and special interest on minimalism and human behaviour.

Dr. Farhad Fassihi is managing director of GEP TEC Ltd., a specialist ICT company. He is responsible for innovation and new technology developments and has initiated and developed numerous innovative solutions. His innovations have received recognition in the form of awards from national and International bodies. Farhad is the author of the "Innovactive" methodology, a systematic innovation approach and has received European support for the development of an online innovation incubation and development tool. He is also the lead of the IEEE UK & Ireland's Systematic Innovation Special Interest Group (SISIG).