

TWIIN 2019 Annual Convention



Day One – Tuesday 2 July - NSIRC 2019 Annual Conference
Lecture Rooms 1 & 2

- 9:00 Registration and Refreshments
- 9:30 Introduction and Welcome – **Tat-Hean Gan**, Director of Innovation and Skills, TWI Ltd
- 10:00 Keynote Speaker – **David Holmes**, Manufacturing Director, BAE Systems' Air Sector

| | Lecture Room 1 | Lecture Room 2 |
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| | Theme: Additive Manufacturing / Advancing Crack Arrest | Theme: Composites and Polymers |
| 10:30 | Madie Allen Predicting the microstructure of metal additively manufactured parts | Dimitrios Fakis Electromagnetic surface waves on fibre-reinforced composite substrates |
| 10:50 | Emre Akgun Effect of porosity on fatigue strength of SLM Ti6Al4V | Changi Yu Effect of insufficient homogenisation during the extrusion of polyethylene pipes on butt fusion joint integrity |

11:10 *Break*

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| 11:25 | Xu Liu Effect of mean stress in variable amplitude fatigue loading on welds | Athanasios Pouchias Flow monitoring system for the resin transfer moulding process |
| 11:50 | Jessica Taylor What is the correlation between crack initiation and arrest behaviour? | Faranak Bahrami Thermally assisted piercing; manufacture and properties of multiply-pierced composite |

12:15 *Lunch*

13:00 Keynote Speaker – **Elizabeth Donnelly**, Chief Executive Officer, Women's Engineering Society

| | Lecture Room 1 | Lecture Room 2 |
|-------|---|--|
| | Theme: Inspection Technologies and Monitoring | Theme: Standards and Maintenance Methodologies |
| 13:30 | Houman Nakhli Mahal Detection of defects in guided-wave inspection of pipelines | Habiba Lais Optimisation of the non-invasive ultrasonic fouling removal technique for submerged structures |
| 13:55 | Harendra Kumar On the Development of an Ultrasonic Technique Enabling Detection of Type IV Creep at Early Stage | Fernando Galvan Wave decomposition in a mooring chain to monitor cracks |

14:20 *Break*

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| 14:35 | Zhiyao Li Advanced shearography for wind turbine blade inspection | Konstantinos Kouzoumis Effects of biaxiality on engineering critical assessments |
| 14:55 | Hadi Khalili Updating the distribution of uncertain parameters involved in the fatigue analysis | Domenic di Francesco Quantification of the value of inspecting for fatigue cracks |

15:15 Poster Session

18:30 TWIIN Annual Convention Dinner

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Day Two – Wednesday 3 July
Abington Room



9:30 Registration and Refreshments

10:00 Welcome and Introduction – **Simone Gubbins**, Head of Public Funding, TWI Ltd

10:10 TWIIN Updates – **Tat-Hean Gan**, Director of Innovation and Skills, TWI Ltd

10:35 Innovation Accelerators / Technology Acceleration Programme (TAP) – **Cem Selcuk**, Manager - Innovation Accelerators, TWI

10:50 Tapping into the innovation for technology - bridging countries - **John Stephenson**, Integrity NDT

11:15 *Break*

11:35 Future technology landscape and applications – **Ruth Bumphrey**, Director of Research, Lloyd's Register Foundation (LRF)

12:00 Flanders investment and trade activities – **Ben De Smit**, Economic & Commercial Counsellor, Embassy of Belgium

12:20 *Lunch*

13:30 The export landscape and inward investment into the U.K. – **John Brook**, Department for International Trade

13:50 An investor's perspective on spinning out and scaling a revolutionary industrial technology – **Marc Jacobs**, MPG, Luxembourg

14:15 Research and Development (R&D) Tax Relief for UK Companies – **Rich Grimster**, Price Bailey Chartered Accountants, Cambridge, UK

14:40 *Coffee, networking and exhibition stands*

15:00 Non-metallic Innovation Centre (NIC) – **Mihalis Kazilas**, Director of NIC, TWI

15:15 Closing Words – **Simone Gubbins**, Head of Public Funding, TWI

15:30 Clinic with TWI's Technology Innovation Management Team – For companies interested in obtaining public funding to support technology developments | **By appointment only** – Maximum of 10 slots available

Impacting Business by Design Programme drop-in stand – **Ian Ferris**, Brunel University London
