Supporting the Future of Northern Semiconductor Industries
1-Day Conference – 6th June 2024

Next generation electronics, using advanced materials, are opening vast new horizons that impact on every facet of society. North East England is at the vanguard of many of these and home to over 30 companies and organisations driving multiple revolutions. Already over 1800 people are employed locally in the sector with growth forecasts expected to generate a further 2700 jobs by 2027.

This conference aims to raise the profile of our regions semiconductor industry, highlight the industrial and academic work being undertaken by the sector in the North East, and to support the skills required for it to develop further by showcasing the work of local PhD students and giving an opportunity for students to network with industry. This conference includes speakers from academia, DSIT and members from both the North East Advanced Material Electronics cluster as well as other invited speakers. The conference sessions and a selection of speakers are below.

Session 1 (Overview of the NEAME Cluster)
An opportunity to hear about the latest manufacturing and design work being undertaken by companies in the North East. An ideal opportunity for students and early career engineers to meet with industry.

Session 2 (Regional and UK Semiconductor Policy)
An overview of future directions for supporting the semiconductor industry in the North East as well as opportunities for investing in the sector.

Session 3 (Future Directions for Semiconductors and Skills)
A session on how to support start ups and recruitment into the industry, as well as training opportunities on offer for developing skills for cleanroom operation and semiconductor fabrication.

Session 4 (Future Directions for NE Semiconductors)
Talks covering the current academic research being undertaken in North East Universities.

Registration Fees:
NEIMME Members: £65
Non-Members: £70
Students: £35

Conference Website
Conference Registration Page

To support any aspect of our event, or to support our Institute in general. Please contact **office@mininginstitute.org.uk** to express an interest to our Treasurer.

Programme:

09:00 – Registration
09:00-12:00 - Session 1 (Overview of the NEAME Cluster)
Conference Opening – NEIMME President
Elaine Scott - Space North East England Introduction to NEAME Cluster
Keynote Semiconductor Presentation Scott White – Executive Director, Strategic Initiatives – Pragmatic Revolutionising Semiconductor Technology & Manufacturing
Andrew Stokes - Projects and Systems Manager – INEX Overview of INEX
Dr Tudor Williams - Director of Technology – Filtronic Overview of Filtronic
Jim Mayock - Director - VIPER RF Overview of Viper RF
10:30 – 11.00 Break
11.00-12:00 - Session 2 (Regional and UK Semiconductor Policy)
Nicky Athanassopoulou – Institute for Manufacturing (IfM) – Cambridge University Overview of the UK Semiconductor Infrastructure Initiative
Simon Johnson - Chief Technologist - Photonics & Electronics Technology Centre - Centre for Process Innovation Future Technologies for Semiconductor Integration
Guy Currey – Director - Invest North East England Investing in the North East
Andy Kerr - Head of Economic Development at Durham County Council Strategic Growth for Semiconductors in County Durham (TBA)
Andy Sellars – South Wales Semiconductor Cluster Refreshing the North East Advanced Material Electronics (NEAME) economic study
Richard Duffy - Senior Policy Advisor, Semiconductors - Department for Science, Innovation and Technology UK Semiconductor Strategy
12:30-13:30 - Lunch (Wood Hall)
13:30-15:00 – Session 3 (Future Directions for Semiconductors and Skills)
Neil Dickens – IC Resources Sensational Semiconductor Skills and Start-Ups
Nacent Semiconductor TBA - Engineering Quantum Technologies
Oxford Instruments Future of semiconductor Processing Equipment and Techniques
Derrick Holliday - DER-IC North East Driving the Electric Revolution – Racing Ahead
Rob Farr – University of Leeds Research Technical Professional (RTP) Upskilling for Semiconductor Fabrication
Steve Reynolds - NPL Future needs in standard testing and specifications for emerging materials and technology
15:00 – 15:30 Break
15:30-17:00 – Session 4 (*Future Directions for NE Semiconductors*)
Northumbria University Semiconductors for Space Applications
Emilia Russell - Durham University Designing Location Sensitive Photodetectors Based on Strained 2D materials
Rui Fang – Durham University 2D Metasurface Structural Colour
17:00-17:30 - Tea/Coffee, Networking, and Wrap-Up