

Aeronautics & Space Innovative Technology Summit Bremen

Draft Conference Programme

28th February 2023

09:00 – 09:05 **Chairman's Welcome and Conference Commencement**
Siegfried Monser, Space Co-ordinator, Bremen State

09:05 – 09:20 **Aerospace in Bremen: Partnerships, Collaboration, Innovation**

Climate and Industry Security: Future-Proofing the Space and Aeronautics Sector

09:20 – 09:50 **What are the Current Visible Green Technologies that will Define Sustainable Aerospace?**

09:50 – 10:05 **Digitalisation Technologies for Aerospace Industrial Sustainability**
Awadh Kapoor, Director - Digital Transformation, Microsoft

10:05 – 10:45 **Panel Discussion: How Can we Move Towards Net Zero in the Aeronautics and Space Manufacturing Supply Chain?**
- 'Sustainability', 'net zero', 'green': defining and selecting the terms we use when discussing decarbonisation and waste elimination
- Identifying the unique challenges facing aeronautics and space in the sustainability drive
- What is the role of advanced and additive manufacturing in saving energy and reducing inefficiencies?
Panelists:
Jenny Turvey, Strategic Space Policy Lead, Space Directorate, Department for Business, Energy & Industrial Strategy (UK)
Awadh Kapoor, Director - Digital Transformation, Microsoft

10:45 – 11:00 **Morning break**

11:00 – 11:20 **Space-Based Solar Power: Helping Europe's Net Zero Ambitions**
Manfred Hader, Senior Partner, Roland Berger

11:20 – 11:40 **Space Applications of Hydrogen and Fuel Cells**

11:40 – 12:00 **Electric Aircraft and Airframe Structures**
Dr. Miguel Ángel Castillo, VP Technology Development, Aernnova

12:00 – 12:40 **Panel Discussion: Protecting the New Frontier: Aerospace & Defence Cybersecurity Challenges, Trends, Opportunities**
- Understanding the risks of cyber disruption across the entire supply chain
- How can we effectively forge standards for cybersecurity in the aerospace sector?
- Building high resilience solutions from emerging technologies
- What cybersafe principles will ensure companies and governments can capitalise safely on the opportunities in space and defence?

12:40 – 14:00 **Lunch break**

14:00 – 14:40 **Panel Discussion: Challenges and Opportunities of Attracting and Retaining Talent in Aeronautics and Space**
- Developing a workforce fit for industry requirements today and tomorrow
- What are the advantages of increasing diversity in the workplace?
- The importance of continued professional development to match an evolving sector

14:40 – 15:00 **Case Study: Developing Industry-Academic Partnerships for Matching Jobseekers and Employers**

Advanced Manufacturing Developments in Aeronautics and Space

15:00 – 15:20 **#EcoMaT - The Centre of Gravity for Eco-Efficient #AeroSPACE material and technology developments**
Guido Schwartz, Senior Strategy and Business Development Lead #EcoMat, Airbus

15:20 – 15:40 **Unlocking the Potential of Future Flight Technologies with Advanced Materials and Manufacturing**
James Hunt, Future Propulsion Lead, Advanced Manufacturing Research Centre

15:40 – 16:10 **Afternoon break**

16:10 – 16:50 **Panel Discussion: Additive Manufacturing for Aerospace: What are the Opportunities Today?**
- Manufacturing for growth: recent developments in AM
- AM automation to streamline workflows and reduce costs
- Driving the use of new versatile composite materials
- What opportunities are offered to boost AM adoption?
- The road ahead - who should drive the development of industry standards for AM?
- Additive manufacturing in space