

# Understanding Powders for Additive Manufacturing

24<sup>th</sup> September 2019

Hilton Birmingham Metropole, UK

**freemantech** technology  
a  micromeritics<sup>®</sup> company



## AGENDA

9.30am - 9.45am	Registration (Tea & Coffee)
9.45am - 10.00am	Welcome & Introduction
10.00am - 10.30am	<b>Guest Speaker</b> Below the Surface - The Hidden World of Polymer AM <i>Dr Candice Majewski, Senior Lecturer in Mechanical Engineering, University of Sheffield</i>
10.30am - 11.15am	<b>Guest Speaker</b> Unlocking the Potential of Additive Manufacturing <i>Dr Jason Dawes, Technology Manager - Materials Engineering, Manufacturing Technology Centre (MTC)</i>
11.15am - 12.00pm	Evaluating Process-Relevant Powder Properties for Additive Manufacturing Applications <i>Jamie Clayton, Operations Director, Freeman Technology</i>
12.00pm - 12.30pm	Measuring and Optimising Powder Size and Shape for Additive Manufacturing <i>Dr Cathryn Langley, Product Manager, Malvern Panalytical</i>
12.30pm - 1.15pm	Lunch (complimentary)
1.15pm - 1.45pm	Using X-Rays to see Inside your Powdered Materials and Processes <i>Dr Paul O Meara, Applications Specialist, Malvern Panalytical</i>
1.45pm - 2.30pm	<b>Guest Speaker</b> The Importance of Powder Rheometry to Assess the Differences between Polymer Powders for Selective Laser Sintering <i>Enrico Gallino, Material Specialist, Ricoh</i>
2.30pm - 3.45pm	Instrument Demonstrations (coffee to be served) <b>FT4 Powder Rheometer<sup>®</sup> (Freeman Technology)</b> <b>Mastersizer 3000 (Malvern Panalytical)</b> <b>Morphologi 4 (Malvern Panalytical)</b>
3.45pm - 4.15pm	Closing Remarks & Panel Q&A

[CLICK HERE TO REGISTER](#)

# CONTRIBUTORS

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Freeman Technology, a Micromeritics company, specialises in systems for measuring the flow properties of powders and has over 15 years' experience in powder flow and powder characterisation.

The company invests significantly in R&D and applications development, and provides comprehensive support alongside its range of products. Expert teams guide and support users around the world in addressing their individual powder challenges, focusing on delivering the most relevant information for the process.

The result is world-leading solutions that underpin process and product understanding, accelerate R&D and formulation towards successful commercialisation, and support the long term optimisation of powder processes.

[www.powderflow.com](http://www.powderflow.com)



**Malvern  
Panalytical**

Malvern Panalytical technologies are used by scientists and engineers in a wide range of industries and organizations to solve the challenges associated with maximizing productivity, developing better quality products and getting them to market faster. Our focus is on creating innovative, customer-focused solutions and services to enhance efficiency and deliver tangible economic impact through chemical, physical and structural analysis of materials.

Underpinned by extensive industry knowledge and technical and applications expertise, Malvern Panalytical instruments are designed to help users better understand a wide variety of materials, ranging from proteins and polymers, particle and nanoparticle suspensions and emulsions, through to sprays and aerosols, industrial bulk powders, minerals and high concentration slurries, and solids, such as metals and building materials, plastics and polymers.

[www.malvernpanalytical.com](http://www.malvernpanalytical.com)



The Manufacturing Technology Centre (MTC) was established in 2010 as an independent Research & Technology Organisation (RTO) with the objective of bridging the gap between academia and industry – often referred to as 'the valley of death'. It represents one of the largest public sector investments in UK manufacturing and, after four years of planning and a 16 month build, the facility opened at Ansty Park in Coventry at the end of 2011.

In December 2011, there were 16 industrial members, 44 staff and just a few key pieces of equipment in the 'workshop'.

Over the following seven years the MTC's rapid growth has seen the expansion of our campus with the construction of three more facilities, including the opening of the Advanced Manufacturing Training Centre and the National Centre for Additive Manufacturing.

[www.the-mtc.org](http://www.the-mtc.org)

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## Seminar Location

Hilton Birmingham Metropole  
The NEC Birmingham  
Pendigo Way  
Marston Green  
Birmingham  
B40 1PP  
UK

Nearest train station - Birmingham International.

Delegates arriving at Birmingham Airport can take the mono rail to Birmingham International rail station, where they should use the free telephone (signposted with the Hilton logo, adjacent to Subway), the shuttle bus will be able to then collect passengers.

The seminar is free to attend.