

# Integrating high resolution particle size & shape with chemical ID using Morphologically-Directed Raman spectroscopy

13th - 24th May 2019



## You are invited to attend our free seminar

Careful control of particle size and shape is extremely important in the development of complex, high value products. Manual microscopy methods are limited to imaging and can be subjective and time consuming.

The new Morphologi® 4 automated particle characterisation system provides you with the unique capability to accurately measure particles (1 to 1000 µm). When equipped with a Raman microprobe, the Morphologi 4-ID gains the additional ability to chemically identify particles enabling the differentiation between different chemical components within a blend and identification of foreign contaminants.

This seminar event will provide live demonstrations of two key instruments for particle characterisation:

- **Morphologi 4-ID** (image analysis for particle size, shape and chemical ID) and
- **Mastersizer 3000** (latest generation Laser Diffraction particle sizer plus Hydrosight imaging accessory)

## DATES AND VENUES

Adelaide	<b>Mon 13 May 2019</b>	1-4pm	<b>University of South Australia</b>
	<b>Tue 14 May 2019</b>	9am-12pm	
Melbourne	<b>Thu 16 May 2019</b>	9am-12pm	<b>The University of Melbourne</b>
		1-4pm	
Sydney	<b>Mon 20 May 2019</b>	1-4pm	<b>Woolcock Institute of Medical Research</b>
	<b>Tue 21 May 2019</b>	1-4pm	<b>University of New South Wales</b>
Brisbane	<b>Thu 23 May 2019</b>	1-4pm	<b>Queensland University of Technology</b>
	<b>Fri 24 May 2019</b>	9am-12pm	



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## GUEST SPEAKER



Dr Anne Virden is a Product Technical Specialist for Laser Diffraction and Analytical Imaging. Anne joined Malvern in 2007 with a PhD in Physics from the University of York. She has since been supporting Malvern Panalytical's Mastersizer and Spraytec customers and has built-up wide-ranging experience of particle sizing in industries including paints and pigments, pharmaceuticals, mining and minerals, and is an expert in the measurement of spray systems. Anne has also supported customers in their measurement of particle shape and chemical identity using the Morphologi and Morphologi ID systems.

## KEY LEARNING OBJECTIVES

Understanding the relative strengths of both Laser diffraction and MDRS technologies is the key to using them appropriately and productively. Laser diffraction (ie, Mastersizer) provides fast, reliable measurement of particle size for a very wide range of sample types. Image analysis (ie, Morphologi 4) provides high resolution particle size and shape information. With the option of adding Raman spectroscopy the Morphologi system is a very powerful tool that can not only give size and shape information but also chemical identification of unknown particulates.

Key learning objectives include:

- New developments in particle shape analysis
- Combining Laser diffraction with Morphologically Directed Raman Spectroscopy (MDRS) to determine chemical composition
- Application examples plus demonstration

***Register and attend our free seminar***

## REGISTRATION

Participation is free of charge however **it is essential to register.**

You can register by completing the [registration form](#) on our web site or by sending us an email with your details to [enquiries@atascientific.com.au](mailto:enquiries@atascientific.com.au)

**RSVP by 10th May 2019.**

