

Static Light Scattering Technologies Explained for Multidetector SEC/GPC



FREE PRESENTATION

Date: 13th-18th February 2014

We are happy to invite you to participate in our Australian presentation "**Static Light Scattering Technologies Explained for Multidetector SEC/GPC**". This presentation will be held from 13th-18th February 2014 and is an excellent opportunity to meet a specialist in the field of multi detection Size Exclusion Chromatography from Malvern Instruments.

Thurs 13 Feb	Melbourne	1-3pm	Australian Synchrotron, Clayton National Centre for Synchrotron Science (NCSS) seminar room
Fri 14 Feb	Melbourne	10am-12pm	University of Melbourne, Trinity College Old Warden's Lodge OWL North seminar room
Mon 17 Feb	Brisbane	12-2pm	The University of Queensland, Australian Institute for Bioengineering and Nanotechnology (AIBN) Seminar Room, Level 1
Tues 18 Feb	Sydney	10am-12pm	University of Western Sydney, Parramatta campus School of Science and Health, Building LZ. Room LZ.G.14

Presentation content:

Size exclusion chromatography (SEC) also known as Gel Permeation Chromatography (GPC), is a chromatographic technique for the characterisation of proteins and biopharmaceuticals, as well as natural and synthetic polymers. Traditional systems comprised a single concentration detector, which relies upon standards for the calculation of molecular weight. Modern systems combine light scattering, using either the single angle (RALS/LALS) or the multi-angle (MALS) approach to determine absolute molecular weight, size, intrinsic viscosity, molecular structure, conformation, aggregation and branching, without the need for column calibration.

This presentation will discuss how the combination of light scattering technologies when applied together with other detection methods, can generate information that is far greater than the sum of the parts. We will compare SEC-MALS with other light scattering methods for protein and polymer molecular characterisation and give insight into the most suitable choice of light scattering detector for particular types of sample and application. Molecular weight, size and structural data acquired from the new SEC-MALS 20 and other Malvern instruments will be shown.



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Key Learning Objectives

- New developments in both dynamic and static light scattering technology
- Comparison of light scattering methodologies for the determination of molecular weight and Rg.
- Latest methods in protein and biopharmaceutical characterisation
- Latest methods in polymer characterisation

Duration:

The presentation will be divided into two 45min sessions, with a break in the middle for tea/coffee and refreshments.

About the Speaker:



Dr Michael Caves is the Product Technical Specialist for Biophysical Analysis at Malvern instruments based in the UK. He has spent over ten years working in various academic and commercial bioscience laboratories. His PhD research project involved collaborating with a Cambridge-based formulation-development company (Arecor Limited) in order to study the process of protein inactivation. Following this, he worked for SGS M-Scan, a contract research organisation based in Wokingham, developing the company's biopharmaceutical biophysical analysis and formulation development services.

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. **RSVP by 10th February 2014.**

Registration Form

NAME:
ORGANISATION:
DEPARTMENT:
EMAIL:
PHONE:
SESSION DATE PREFERRED:

These seminars will be tailored to the interests of the audience. For this reason, we will require all attendees to list application interests during the registration process in the comments section to ensure the content is relevant to you.

Please select from the following application areas, which is of interest to you:

- Protein characterisation Bio-Polymer characterisation
- Synthetic polymer characterisation Other (please list).....



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