

Recent Advances in Macromolecular Characterisation: DLS and Multidetector SEC



FREE PRESENTATION

Date: 6th-10th May 2013

We are happy to invite you to participate in our Australian presentation "**Comprehensive Molecular Characterisation using Quadruple Detection Size Exclusion Chromatography**". This presentation will be held around the country from 6th-10th May 2013 and is an excellent opportunity to meet a specialist in the field of multi detection Size Exclusion Chromatography from Malvern Instruments.

Mon 6 May	Melbourne	10am-12pm	University of Melbourne, Trinity College Old Warden's Lodge OWL North seminar room
		2pm- 4pm	Australian Synchrotron, Clayton National Centre for Synchrotron Science (NCSS) seminar room
Tue 7 May	Adelaide	11.30am-1.30pm	University of South Australia, City West campus Barbara Hanrahan (BH) Building Room BH4-21, level 4
Wed 8 May	Canberra	11am-1pm	Australian National University, Canberra Craig Building (building 35a), Room E2 (ground floor)
Thu 9 May	Sydney	10am-12pm	University of Sydney, Camperdown campus School of Molecular Bioscience (SMB), Room 441
		1pm- 3pm	University of Sydney, Camperdown campus School of Chemistry, level 4, Room 418
Fri 10 May	Brisbane	11.30am-1.30pm	The University of Queensland, Australian Institute for Bioengineering and Nanotechnology (AIBN) Seminar Room, Level 1

Presentation content:

Size Exclusion Chromatography (SEC), also known as Gel Permeation Chromatography (GPC), is a very popular analytical tool for characterising synthetic and natural macromolecules. In its conventional and simplest form it only provides relative analysis. However with the addition of advanced detection technologies one can obtain a comprehensive array of molecular parameters including absolute molecular weights, molecular size, molecular density/intrinsic viscosity, and perform structural, conformational and compositional analyses.

In this presentation the concept of Quadruple Detector SEC method, a combination of Refractive Index, UV Photodiode Array, Light Scattering and Molecular Density/Solution Viscosity detectors, will be discussed and various cases of protein, bio-polymer and synthetic polymer characterisation will be explored.

Duration:

The presentation will be divided into two parts, with a break in the middle for tea/coffee and refreshments:

- The first section (45min) will focus on the expansion of measurement capabilities from conventional SEC to light scattering detection, multi-detection technologies and advantages of each approach.
- The second section (45min) will focus on specific application examples.



About the Speaker:

Ali Soleymannezhad received Bachelors and Masters in Chemical Engineering with special focus on Macromolecular Engineering from University of Western Ontario (London, Canada) under supervision of Prof. Judit Puskas. He holds many awards including the prestigious Plant Design Recognition presented by the Canadian Society for Chemical Engineers. Throughout his career he has been invited presenter/lecturer at various academic institutes and R&D centers across the world discussing molecular characterisation of both proteins and polymers by multi-detector GPC/SEC. Ali Soleymannezhad serves as the Global Separations Specialist at

Viscotek Corporation (a Malvern Company), the world's leading manufacturer of GPC/SEC systems.

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 2nd May 2013.**

These seminars are designed to be educational and 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).....□

Registration Form

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