

1 –day free short course sponsored by the *IMS Associates Program*

Practical Gel Permeation Chromatography

Instructor – Dr. Mark Jordi, President of Jordi Labs

Monday May 11th 2009, 10am to ~4pm

IMS Annex, Room 159

Registration is required as Seating is limited

Molecular weight is one of the most important parameters of any polymer system. Nearly all of the important properties of a polymer system are strongly affected by molecular weight. One of the most widely used tools for the determination of molecular weight is gel permeation chromatography. This technique is preferred due to its wide applicability, ease of use and the wealth of information it provides. The advantages of GPC are many but the practice of GPC is neither simple nor is its method development well understood. It is all too common for poorly developed methods to be implemented resulting in inaccurate or irreproducible results.

In this short course, we will focus on the method development process and how to determine when a purely sized-based separation has been achieved. In-depth examples of real separations will be used to demonstrate the principles involved. We will also provide many “best practices” gained over nearly 30 years of GPC experience and discuss the latest developments in this exciting technique.

Who should attend – This course will be useful to graduate students and other researchers who are already using GPC in their research. Basic knowledge of the technique and some previous hands-on experience will be assumed.

Course Location – The course will be offered in the IMS Annex, Room 159. Lunch (Subway) and course notes will be provided.

Cost & Registration – Attendance is free but registration is limited to the first 30 people so please register early with Mark Dudley in person (GPC lab), by phone (486-2256) or by email (mark.dudley@uconn.edu).

Instructor - Mark Jordi is an alumnus of UCONN graduating with his Ph. D. in Polymer chemistry in 2003. Following graduation he served as the director of analytical services for Jordi Labs, a company focused on providing polymeric chromatography products and services. Jordi has grown to be one of the largest providers of contract GPC services in the country and the third largest provider of GPC columns. He has developed two patented column technologies and supervised the development of upwards of 50 GPC methods and five hundred GPC analyses per year. He was promoted to president of Jordi Labs in 2008.