

ChromSoc

The Chromatographic Society - founded 1956

'Grass Roots 3' Educational Event

The Waterhead Hotel, Ambleside, Cumbria

Friday 5th-Monday 8th October 2018



In October 2016, as part of the Society's Diamond anniversary celebrations, The Chromatographic Society held its first Grass Roots event in Grasmere in the Lake District. The course focussed on teaching the fundamentals of liquid chromatography to graduate students and novice chromatographers from industry. The event hosted over twenty attendees (many of the students sponsored by the Society and vendor partners - YMC and Shimadzu). The event was such a success that the Society repeated the course in Church Stretton in October 2017, with over twenty-five delegates from academia and industry (see www.chromscoshrewsbury.com for more details).

The Grass Roots 3 event will look to build on the fundamentals taught on the previous Grass Roots courses. The course will focus on reversed-phase method development for small molecules. This will be of particular relevance for attendees working with pharmaceutical compounds, but the concepts and approaches will be equally relevant to those working in the food, environmental and other

industries. The event will be delivered by a number of chromatographers with extensive training and industrial experience (Prof. Mel Euerby (Shimadzu), Tony Taylor (Crawford Scientific), Prof. Roman Szucs (Pfizer) and Dr Paul Ferguson (AstraZeneca)). While the meeting will be primarily educational, there will also be extensive opportunities for networking (primarily on walks included in the schedule) and socialising.

The event will be held in Ambleside at the Waterhead Hotel which is accessible by car, or by train to Windermere and a short bus or taxi journey from the train station.

We are delighted that we have vendor companies and learned bodies sponsoring the event by providing full funding for a limited number of UK based post-graduate researchers (PhD/D.Phil) to attend (value £550). Additionally, The Chromatographic Society will provide a number of post graduate student bursaries (£400) for PhD students, and industrial bursaries for post-doctoral researchers, lecturers and chromatographers working in small and medium sized companies through our PASG industrial fund (£250).

Full course details and registration may be found on our website: <http://chromsoc.com/grass-roots-2018/>

For sponsorship and other queries, please contact us on paul.ferguson@chromsoc.com.

Programme

The lecture programme will include approximately 20 hours of lectures alongside a social walking programme and evening events. The lecture programme will be 'fixed' content, but there is significant scope to include additional topics as requested by attendees and informal discussion during walks. We would also be happy to discuss any specific chromatographic queries or issues which you bring from your workplace. Attendees who wish to bring chromatography posters to the event are welcome and these will be discussed at appropriate times linked to the programme.

Friday

Time	What?
15:00-17:30	<i>Registration</i>
18:00	<i>Dinner</i>
19:00	Introduction to course and presenters
19:20	Molecule physical chemistry and importance to method development
20:15	Sample selection and preparation aspects
21:45	<i>Social event</i>

Saturday

Time	What?
8:00	<i>Breakfast</i>
9:00	Revisiting the resolution (Purnell) equation The impact and modification of efficiency and selectivity on resolution
11:00	<i>Tea break</i>
11:15	Isocratic and gradient retention

12:30	<i>Lunch</i>
13:30	<i>Walk (3.5 hours)</i>
17:30	<i>Dinner</i>
18:30	Understanding what your method needs to do Selecting an appropriate separation technique or chromatographic mode for your analytes Quantification approaches
20:00	Understanding high throughput versus high efficiency methods
21:00	<i>Social event</i>

Sunday

Time	What?
8:00	<i>Breakfast</i>
9:00	Understanding stationary phase selectivity
10:00	Understanding mobile phase selectivity
10.45	<i>Tea break</i>
11:00	Introduction to in-silico retention modelling Pre-requisites for accurate retention modelling
13:00	<i>Lunch</i>
14:00	<i>Walk (3.5 hours)</i>
18:00	<i>Dinner</i>
19:00	Hands-on in-silico retention modelling
21:30	<i>Social event</i>

Monday

Time	What?
8:00	<i>Breakfast</i>
9:00	Choosing the right detection approach
10:30	<i>Tea break</i>
10.45	Method robustness, validation and transfer
12:15	Method assessment Common method issues
13:30	<i>Lunch</i>

Note: The programme may be subject to slight change depending on the latest technical developments in the field or regulatory considerations.

Presenter biographies



Mel Euerby is the Principal of Shimadzu's Centre of Excellence in Liquid Chromatography where he is responsible for inspiring and training young chromatographers for the future. He also holds visiting Professorships at the University of Strathclyde and the Open University and has been lecturing for over 30 years! Previously, he held the position of Head of R & D and Training at Hichrom Ltd. Prior to that, he worked for twenty years in the pharmaceutical industry where he had global responsibilities for separation science at Astra Zeneca. In 2007 he was awarded the Jubilee Silver Medal for chromatography by the Chromatographic Society. Mel is the Educational Officer of The Chromatographic Society with special responsibilities for "*chromatographic up-skilling*".

Mel's current areas of interest include stationary phase characterizations, supercritical fluid chromatography, 2-dimensional LC, hydrophilic interaction chromatography, computerised method development, ultra-fast / high resolution LC and fundamental research into retention mechanisms in chromatography.



Tony Taylor has been a practicing chromatographer for 30 years. He hopes to get it right soon.

He has worked in pharmaceutical and industrial chemical labs with a wide variety of chromatography techniques, matrices and problems.

He is currently the Technical Director at Crawford Scientific, a chromatography columns, consumables and services provider. He has responsibility for the Analytical Services laboratory which specialises in chromatography with mass spectrometric detection to help solve client problems from a wide variety of application areas. Tony also leads the training, technical support and consulting business units of the Crawford business – which means he sees a lot of problems with equipment and separations, and how to solve them.

He currently advises the business on HPLC-MS and GC-MS application development as well as developing training materials for classroom and online delivery. He has been a trainer in analytical science for almost 20 years and is currently the Honorary Secretary of the Chromatographic Society.



Roman Szucs has worked at Pfizer Global Research & Development (Sandwich, UK) since 1997. He obtained his PhD under the supervision of Professor Pat Sandra at the University of Ghent (Belgium) investigating the separation and quantification of hop bitter acids in beer. This was followed by a post-doctoral position at Unilever Research Laboratory in Vlaardingen (The Netherlands) where the focus of his research was on polymer characterisation. He is a Senior Research Fellow focussing on the development of separation science throughout the organisation. He was instrumental in founding the Pfizer Analytical Research Centre with the Universities of Ghent and Tasmania (Australia). This programme has played an important role in progressing Pfizer's understanding of the application of cutting-edge analytical science across the organisation's portfolio. He is widely published and his recent publications focus on the development of chromatographic retention prediction based on molecular structure. He was awarded the Chromatographic Society Jubilee Medal in 2010 for his achievements in the field.



Paul Ferguson is a separation science specialist at AstraZeneca in the UK and leads the separation science strategy for the Product Development department working on both small and medium size (small peptides and oligonucleotides) novel therapies. He has worked in the pharmaceutical industry since 1999 (previously at Pfizer) following a post-doc at Imperial College London on capillary electrochromatography (CEC) with Dr Norman Smith. Paul has particular interests in UHPLC, SFC, CE, chiral separations, formulated drug sample preparation, green analytical chemistry and method development. He is a past winner of the Desty Memorial lecture prize (2002), a Fellow and Chartered Chemist in the RSC and is a visiting lecturer at Kings College London where he has lectured on the MSc Analytical Science for Industry course since its inception in 2009.

Paul is the Immediate Past-President of The Chromatographic Society. Additionally, Paul served as Vice-President for the Society from 2009 to 2014 and in this role was Chair of the Medals Committee conferring a number of Martin Gold and Jubilee medals. He has also organised or co-organised several successful symposia for the Society since 2007 including the inaugural Grass Roots event held in 2016.

Registration fees

Attendee type	Cost
Industrial	£670
Industrial who have previously attended Grass Roots 1 or 2 (will be checked on registration)	£620
Academic (including post-doctoral researchers and lecturers)	£550

Course fees include

- 3 night's accommodation (Friday, Saturday and Sunday evenings)
- All meals and course refreshments (breakfast, lunch and dinner)
- Course notes
- Certificate of attendance
- 3 months ChromSoc membership

Bursary applications

We have some limited full bursaries for the event provided by YMC. The Society are also providing bursaries (5) of £400 value to academic applicants (PhD students). Finally, industrial bursaries of £250 are available to industrial chromatographers working in small and medium sized companies, post-doctoral researchers and lecturers. These bursaries will be discounted from the course cost and any residual will be provided for accommodation at, or travel to the event.

To apply for bursaries please contact paul.ferguson@chromsoc.com or see <http://chromsoc.com/grass-roots/> for further details.

Travel to Ambleside

The easiest way to reach Ambleside is to drive and there is ample parking at the Waterhead Hotel for participants.

If travelling by air, the most convenient airport is Manchester Airport or Leeds Bradford. From here, it is possible to take the train directly from the airport to Windermere train station. The journey time is approximately 2 hours and there are direct trains every 2 hours throughout the day. Alternatively, it is possible to take other trains from the airport but you may have to change at Manchester Piccadilly, Preston or Oxenholme (Lake District) and the journey time will be up to 3 hours. There are some direct services from Manchester Airport to Windermere.

If travelling by train from the north or south (or from airports other than Manchester), it is necessary to travel to Windermere by changing trains at Preston or Oxenholme (Lake District).

For the 6 mile journey from Windermere train station to Ambleside, there are regular buses (555, 571 – bus stops outside Waterhead hotel) with a journey time of approx. 20 minutes. Alternatively, it is possible to travel by taxi although this will obviously be more expensive.

Accommodation



The event will be held at the Waterhead hotel which sits close to the entrance to Ambleside (approaching from Windermere) and next to the jetty for steam boats travelling along the lake. The hotel is ideally located to access the village (approx. 15-20 mins walk to town centre) and the planned walks - while being far enough away to avoid the bustle of the town centre. The hotel has a newly created gin bar for those who enjoy such a tippie!

For those who do not wish to join us for the walks, there are numerous other activities which may be of interest instead including Lake Windermere boat cruises, shopping, crazy golf or taking a short bus journey to Grasmere where the famous poet William Wordsworth lived. Additionally, guests at the hotel can use the nearby Low Wood Bay hotel spa facilities which are a mile away from the Waterhead hotel on the main A591 road to Windermere.



Sponsorship packages

The Chromatographic Society welcome interest from companies wishing to sponsor post-graduate students (MSc and doctoral) to attend this event. This is an opportunity to help develop the chromatographers of the future, influence buyers and make industrial contacts.

In return for sponsoring a student to attend this event, the Society will provide:-

- A £200 reduction for the sponsor company to exhibit at one of our ChromSoc 2019 meetings
- A half-page advert in the next edition of Society magazine ChromCom

- Advertising in course literature and advertising material (Grass Roots and ChromSoc websites, social media and print promotional material)
- Input into course content

Sponsoring organisations may also be interested in sending colleagues from their organisation on the event and we offer a £50 fee reduction for each colleague from a sponsor company on registration (or e.g. a nominated customer or student).

Please contact paul.ferguson@chromsoc.com to express your interest in sponsoring this event.