



## Foreword

The 35th International Symposium on High Performance Liquid Phase Separations and Related Techniques (the HPLC Symposium series) was held in Boston, Massachusetts, USA, from June 19 to 23, 2010. This conference is the premier event for separation science, and serves as the foremost showcase for companies that produce HPLC instruments and columns. The total number of attendees was 1221 scientists, who originated from 38 different countries. This is indicative of the international appeal of the conference and of the current stature of separation science. With a location in the center of Boston's Back Bay district, the conference was situated to encourage attendees to take advantage of this most European of American cities. Facilities also included the exhibition hall in the Hynes Convention Center that provided ample space for over 80 sponsors, exhibitors and media partners.

The scope of the HPLC Symposium covered the entire spectrum of liquid phase separation science, from theoretical aspects to new developments in separation media and instrumentation, advances in multidimensional separations and sample preparation, and microfluidic and miniaturized separation systems. Applications spanned the spectrum of analytical science including analyses for life sciences, systems biology (e.g. proteomics, glycomics, and metabolomics) and biomarker discovery, pharmaceuticals and biopharmaceuticals, environmental, food safety analysis, and polymers. In addition to HPLC, there were sessions on capillary electrophoresis and supercritical fluid chromatography.

A total of 116 lectures were presented, including eight plenary lectures, plus 540 poster presentations organized into 30 categories. The oral program was divided into 30 sessions with three sessions running concurrently in separate tracks focusing on chromatographic fundamentals and column technology, life sciences and pharmaceutical analysis, and electrophoretic, microscale and other miscellaneous applications. There were nine short courses held on Saturday and Sunday prior to the opening of the symposium and during the meeting, nine tutorial sessions were held that focused on presenting a more introductory level of information to young scientists and those new to a particular aspect of liquid chromatography.

The opening plenary session featured the presentation of the Martin Gold Medal, sponsored by the Chromatographic Society, to Professor Peter Carr from the University of Minnesota. Professor Carr's role in advancing separation science is immense; some of his best known contributions include mapping principles of multi-dimensional separations for optimal peak capacity, the influence of extreme temperatures of chromatographic analyses, and the development of high temperature stationary phases based on zirconia. Professor Carr's opening plenary lecture addressed his most

recent research on multidimensional and high temperature separations.

Professor George Whiteside, one of most well-known analytical and materials scientists today, presented the other lecture in the opening session. He discussed the development of extremely low cost diagnostics targeted at the world's developing nations that cannot afford expensive diagnostic kits from established vendors.

Six lectures were presented in two additional plenary sessions during the conference week: Professors Gary Siuzdak from Scripps Institute on metabolomics, Pauline Rudd from NIBRT in Dublin on glycan analysis, Takehiko Kitamori, University of Tokyo, on microfluidic separations, Frantisek Svec, University of California Berkeley, on polymer monolith column developments, Robert Kennedy, University of Michigan, on high sensitivity life science analysis and Attila Felinger, University of Pecs (Hungary) on new theoretical insights.

Two prize contests played prominent roles in the scientific program. For scientists younger than 35 years old, the Csaba Horvath Young Scientists Award, named after the pioneering founder of modern HPLC, was sponsored by HPLC Inc., the US contingent of the Symposium Permanent Scientific Committee. From a list of over 40 applicants, nine scientists were chosen to present lectures that were judged by a panel of chromatography experts. From a group of outstanding lectures, the winner was Jesse Omamogho, from University College Cork whose presentation was entitled "Structural Variation of Solid Core and Thickness of 1.7  $\mu\text{m}$  Core-Shell Particles on Chromatographic Performance". He won an invitation and travel award to the HPLC Symposium in Budapest, and had his name engraved on a trophy. Also there were several poster prizes sponsored by Agilent Technologies. A team of 40 scientists was assembled to judge the posters. The top prize winner was Iva Urbanova (Lawrence Berkeley National Laboratory) for her poster "Monolithic Polymer Layers for Separation of Peptides and Oligonucleotides Using Pressurized Planar Electrophoresis and Electrochromatography".

As is customary, the symposium featured a number of social events that fostered interaction amongst the attendees. Music was a prominent feature of the conference including a free jazz concert on Wednesday evening sponsored by a group of biotechnology conference partners. One of the highlight events was the conference dinner held at the recently renovated Museum of Fine Arts, one of Boston's outstanding museums and architectural gems, just a short walk from the conference hotel. In addition to the opportunity to mingle with colleagues, a flute ensemble added to the ambience of the evening. During the week the city of Boston also provided an enjoyable backdrop for the attendees, with its

many fine restaurants, excellent shopping and numerous historical sites.

I want to take this opportunity to thank the many people without whose enthusiastic assistance the task of chair would have been impossible. The conference was ably managed by the non-profit CASSS organization, and both the scientific and the organizing com-

mittees' efforts were essential to the success of HPLC 2010. We look forward to seeing you in Budapest in June 2011!

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