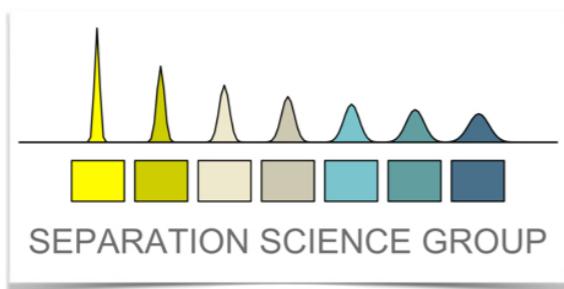


2018
KNOX
SYMPOSIUM

AGENDA

29 June
Burlington House



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- 9:00 Registration
- 9:45 Welcome
- 10:00 **MASTERCLASS: PLATE THEORY**
Prof Deirdre Cabooter [KU LEUVEN](#)
- 10:30 **MASTERCLASS: ELECTROPHORESIS**
Prof David Perrett [QMUL](#)
- 11:00 **THE ROAD TO ULTRA PERFORMANCE LIQUID CHROMATOGRAPHY**
Dr Isabelle Francois [WATERS](#)
- 11:30 **CE, CEC AND UHPLC: THE QUEST TO ULTRAHIGH SEPARATION EFFICIENCY**
Dr Monika Dittmann [AGILENT](#)
- 12:00 Lunch
- 13:30 **APPLICATIONS OF SUPERFAST LCMS**
Dr Lewis Couchman [ANALYTICAL SERVICES INTL. LTD.](#)
- 14:00 **STATE OF THE ART IN MULTIDIMENSIONAL CHROMATOGRAPHY**
Prof Peter Schoenmakers [UNIVERSITY OF AMSTERDAM](#)
- 14:45 **THE FUTURE OF SEPARATION SCIENCE**
Prof Apryll Stalcup [DUBLIN CITY UNIVERSITY](#)
- 15:30 Coffee
- 15:50 Presentation of Knox Medal
- 16:00 **KNOX MEDAL LECTURE: PROF JAMES JORGENSON**
[UNIVERSITY OF NORTH CAROLINA](#)
- 17:00 Close & Wine Reception

PROF JAMES JORGENSON

UNIVERSITY OF NORTH CAROLINA

Prof Jorgenson received his undergraduate education at Northern Illinois University where he received a B.S. in Chemistry in 1974. He earned his PhD at Indiana University in the research group of Professor Milos Novotny in 1979. He joined the faculty of the University of North Carolina in 1979 where he is currently a William Rand Kenan Distinguished Professor. He served as Chair of the Chemistry Department from 2000 to 2005. Professor Jorgenson is one of the originators of capillary electrophoresis, with his first publications on this topic appearing in 1981. His research interests over the years have included single cell analysis, multidimensional separations, microscale separations coupled to mass spectrometry, design of detectors for chromatography and capillary electrophoresis and ultra-high pressure liquid chromatography. Among the honours he has received are the American Chemical Society Award in Chemical Instrumentation (1992), the Martin Medal of the Chromatographic Society (1992), Fellow of the American Association for the Advancement of Science (1992), the American Chemical Society Award in Chromatography (1993), the Golay Medal (1994), the Torben Bergman Medal of the Swedish Chemical Society (1996), Anachem Award (1996), the Dal Nogare Award (1998), the Esselen Award for Chemistry in the Public Interest (2004), the Pittsburgh Conference Analytical Chemistry Award (2005), the American Chemical Society Award in Analytical Chemistry (2007), American Academy of Arts and Sciences (2007), and the Ralph N. Adams Award in Bioanalytical Chemistry (2011).

PROF DEIRDRE CABOOTER

KU LEUVEN

Prof Cabooter is an associate professor at the Department of Pharmaceutical and Pharmacological Sciences at the University of Leuven (Belgium). She has a Masters in Bio-engineering and a PhD in Chemical Engineering. Her current research is directed towards a deeper understanding of the fundamentals of chromatography, the evaluation of novel supports in chromatography, the analysis of complex samples in pharmaceutical, bio-analytical and environmental applications, retention modeling and solutions for automated method development. She has published over 75 peer-reviewed papers and book chapters, and received the LCGC Emerging Leader in Chromatography Award in 2017. Since this year, she is an editor of Journal of Chromatography A.

PROF DAVID PERRETT

QUEEN MARY UNIVERSITY OF LONDON

Prof Perrett graduated in Chemistry from Exeter University and joined the Medical Professorial Unit at Barts Medical College, University of London. His research interests have focused on the application of separation sciences, LC, LC-MS and CE to diagnosis and treatment of human disease. Although now Emeritus Professor of Bioanalytical Science, he still researches the decontamination of surgical instruments against prion diseases for the Dept of Health. His patented devices for use in residual protein detection are marketed worldwide. To date he has authored or co-authored 180 papers in peer-reviewed scientific journals, 30 books and chapters, plus over 50 contributions in the Proceedings of Conferences, Academic Societies, etc. Most recent book "Gout at your fingertips" was shortlisted for the BMA best popular medical book. He lectures widely both nationally and internationally.

DR ISABELLE FRANÇOIS

WATERS

Dr François conducted her PhD research in the lab of Prof. Pat Sandra at Ghent University in Belgium. During her research, she developed two-dimensional comprehensive fluid-based chromatography approaches (LCxLC and SFCxLC), focusing on the improvement of instrumental hardware. In 2009, she started working at ExxonMobil Chemical, managing the global chromatography lab in the Advanced Characterization Department. Since 2011, she works for Waters in demolab and marketing roles, and is currently in the European Applications Consultancy team, with a predominant focus on 2D technologies, covering Europe and India. Her areas of expertise are UHPLC, SFC, SFE, comprehensive and heart-cutting 2D chromatography (LC-LC, SFC-LC) with optical detectors and MS. In 2014, she was recognised by the magazine *The Analytical Scientist* as one of the most influential scientists under the age of 40 in their Powerlist, and more recently, she was part of the 2016 Powerlist as one of the most influential female scientists in the world.

DR MONIKA DITTMANN

AGILENT

Dr Dittmann currently holds the position of an R&D Principal Scientist in the Life Sciences and Applied Markets Group of Agilent Technologies in Waldbronn, Germany. After obtaining her PhD from the University of Paderborn she spent two years as a post-doc in the department of Chemical Engineering at UC Berkeley working on theoretical aspects of aqueous phase-equilibria. In 1988, she joined HP (now Agilent Technologies) where she since has been involved in the design and development of instruments and technologies in the fields of HPLC and UHPLC, Capillary Electrophoresis, Capillary Electro-Chromatography and Lab-on-a-chip separations as a research scientist and project manager. Her current work is focused on applied and fundamental aspects of (U)HPLC and the design and development of next generation (U)HPLC systems. In 2012, she received the Silver Jubilee Medal of the Chromatographic Society of the UK.

DR LEWIS COUCHMAN

ANALYTICAL SCIENCES LTD

Dr Couchman joined Analytical Sciences International (ASI) as Facility Director in 2017, and leads a team of scientists with a passion for developing novel analytical techniques, in particular those involving chromatography, mass spectrometry, and automated and high throughput sample preparation. Prior to joining ASI, Lewis worked at the Medical Toxicology Unit at Guy's Hospital (London), completing his formal clinical scientist training in analytical toxicology in 2009, during which he obtained an MSc in Analytical Toxicology from Queen Mary University of London. He went on to work as a clinical scientist in the Departments of Toxicology and Clinical Biochemistry at King's College Hospital, London, becoming R&D Lead Scientist in 2015, and completing his PhD the following year. He is on the Young Scientist Committee of the International Association of Therapeutic Drug Monitoring and Clinical Toxicology. He is also a committee member of the Royal Society of Chemistry Separation Science Group, a member of the International Association of Forensic Toxicology and the Association of Clinical Biochemistry, and a committee member of the London Toxicology Group.

PROF PETER SCHOENMAKERS

UNIVERSITY OF AMSTERDAM

Prof Schoenmakers is professor of Analytical Chemistry at the University of Amsterdam. He studied in Delft, The Netherlands (with Professor Leo de Galan) and in Boston, MA (with Professor Barry Karger). Thereafter, he worked for Philips in Eindhoven (The Netherlands) and for Shell in Amsterdam and in Houston, TX. He was awarded the AJP Martin Medal in 2011, the John Knox medal in 2014, and the Csaba Horváth Award and the CASSS award in 2015. The Analytical Scientist magazine has ranked him seventh on its 'Power List' of most influential analytical chemists worldwide. Prof Schoenmakers leads several large national and European research projects, and has played a major role in the establishment of national public-private cooperation in analytical chemistry (TI-COAST), now one of the main funding bodies in Dutch research. He also leads the cooperation of the two Amsterdam universities in the Center for Analytical Science Amsterdam (CASA) which has received substantial national funding.

PROF APRYLL STALCUP

DUBLIN CITY UNIVERSITY

Prof Stalcup is a Professor and Head of the School of Chemical Sciences at Dublin City University. She received a BSc in Chemistry from California State University-Sacramento and PhD from Georgetown University in Washington, DC. After a Postdoctoral Fellowship at the University of Missouri-Rolla, she moved to the University of Hawaii-Manoa in 1990. In 1996, she moved to the University of Cincinnati and promoted to Full Professor in 2001. She relocated to Dublin City University in 2012. Professor Stalcup is the author of over 120 publications, reviews, book chapters and one patent. Her group pioneered the use of sulfated- β -cyclodextrin, heparin and quinine as chiral additives in capillary electrophoresis. More recent work has demonstrated the application of surface-confined ionic liquids (SCIL) across a wide application range (e.g., reversed phase, normal phase, ion exchange and ion exclusion) and linear solvation energy modelling. Her contributions to separation science was recognised with the 2015 American Microchemical Society A. A. Benedetti-Pichler Award. She is a Fellow of the Institute of Chemistry of Ireland, the Royal Society of Chemistry, a member of the American Chemical Society, the American Association of the Advancement of Science and Sigma Xi. She currently serves on the Royal Society of Chemistry Analytical Division Council, is a Contributing Editor for Trends in Analytical Chemistry and serves on the Editorial Board for Journal of Liquid Chromatography and Related Techniques.

2018

UPCOMING MEETINGS

FIRST LOOK

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FIRST ANNOUNCEMENT

ADVANCES IN CLINICAL ANALYSIS

27th NOVEMBER 2018

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AGENDA TBD



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