1ST ANNUAL SYMPOSIUM
Clinical & Pharmaceutical Solutions through Analysis

February 7–8, 2018
Cambridge Belfry Hotel
Cambourne, Cambridge U.K.

MEETING PROGRAMME
Where scientific discovery meets new hope, that’s where you’ll find Waters. Continuing to create innovative tools to enable breakthrough discoveries in the understanding of complex diseases such as cancer. And, working with partners across the health sciences spectrum to bring our technologies and systems closer to the patient – combining research, diagnostics and real-time analyses for the benefit of all of us. To learn more about our science in the service of humanity, visit waters.com/healthsciences

In the hands of leading researchers and clinicians, scientific technologies from Waters are making a true difference in the fight against cancer.
February 7, 2018

Dear Colleagues:

On behalf of the organizing committee and our sponsors, it is our pleasure to welcome you to the 1st Annual European Symposium on Clinical and Pharmaceutical Solutions through Analysis (CPSA Europe 2018). The meeting, along with related events, promises to be both exciting and timely as well as feature lively discussions, memorable interactions, and the sharing of real-world experiences.

The goal of CPSA Europe is to provide in-depth review of innovative technology and industry practices through open discussion of industry-related issues and needs. This annual event is specifically geared to the needs of professionals attempting to keep pace with faster development times and technology marketing managers attempting to benchmark emerging trends.

We are extremely delighted to feature a most distinguished plenary speaker, Axel Pähler of Roche. His lecture on “Small Molecules and Big Data: Next Generation Analytical Tools in Drug Development” reflects an emerging theme in tool development for data analysis. The combination of such diverse interests, issues, and needs will provide unique perspectives, and certainly, continue to inspire significant advances.

The symposium sessions provide a wonderful opportunity to interact with industry leaders as well as openly share experiences – from the laboratory to the patient. Specific issues and needs from previous CPSA annual meetings in the USA, China and Brazil will help drive the agenda at CPSA Europe with a focus on sharing and collaboration to develop next generation tools and services to further human healthcare.

Our hope is that you will actively participate, interact, and share ideas during the event. Creativity and imagination have been key ingredients to make CPSA meetings a memorable experience all over the world. In this way, a genuine passion for the analytical sciences can lead to personal growth as well as opportunities to significantly impact the field through participation, leadership, and global citizenship.

The hallmark of CPSA Europe is identical to other CPSA events – belief in a notion that simple actions, simple gestures, along with relationships can bring people together to cooperate in a most transparent and inclusive manner – which when sustained in a coordinated fashion can result in spectacular dreams that are destined to come true. And so, at CPSA Europe, we dare to attempt to do something great. Together.

Special thanks go to the sponsors of CPSA Europe. In particular, we wish to thank Waters, Merck, and PerkinElmer together with Alturas Analytics, Interlo Life Sciences, McKinley Scientific, Molecular Discovery, Neoteryx, New Objective, PRA Health Sciences, SCIEX, Shimadzu, Spooner Bioanalytical Solutions, Thermo Fisher, and Trajan for giving this meeting life. Thank you! All CPSA sponsors share the passion and commitment for both innovative technologies and the advancement of personalized healthcare.

Enjoy the inaugural meeting – where technology and solutions meet!

Sincerely,

Mike S. Lee, Ph.D.  
CPSA Founder

Neil Spooner, Ph.D.  
CPSA Europe Programme Co-Chair

Ismael Zamora, Ph.D.  
CPSA Europe Programme Co-Chair
# ORGANISING COMMITTEE

## PROGRAMME CO-CHAIRS

<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Neil Spooner</td>
<td>Spooner Bioanalytical Solutions</td>
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<td>Ismael Zamora</td>
<td>Molecular Discovery</td>
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## SYMPOSIA & SESSIONS

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<td>Marie Alqvist</td>
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<td>Rafael Barrientos</td>
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<td>Natália Bellan</td>
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<td>Amanda Berg</td>
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<td>Tim Garrett</td>
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<td>Ute Gerhard</td>
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<td>Sarah Mayes</td>
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<td>Axel Pähler</td>
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<td>Jaap Wieling</td>
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<td>Amanda Wilson</td>
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<td>Eric Yang</td>
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## LOGISTICS & MANAGEMENT

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<td>Carla Marshall-Waggett</td>
<td>New Objective</td>
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<td>Martin Steel</td>
<td>McKinley Scientific</td>
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<td>Mike Lee</td>
<td>Milestone Development Services</td>
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Where Technology and Solutions Meet
The CPSA Europe Symposium is made possible by the broad-based support of industry sponsors. The passion for the analytical sciences and the accelerated discovery and development of technology and services is shared by each sponsor. As a result, the event is dedicated to promoting awareness and understanding of the issues and needs associated with research and development in the hopes of inspiring significant advances in the field.
PROGRAMME

Tuesday  FEBRUARY 6

12:00 PM – 6:00 PM  REGISTRATION
Hotel Lobby

1:00 PM - 4:30 PM  WORKSHOP
King’s Room
What’s Your Biggest Challenge?
Sponsored by Waters Corporation
If it has anything to do with LC-MS, you won’t want to miss this! In its many forms, LC-MS has become a go-to technology in many industries for routine quantitative analysis. As the industry trends toward bringing this technology closer to the patient and we prepare to work together over the next two days to explore ideas for improving the ways disease is detected, we invite you to join us for an initial discussion that focuses on specific needs for quantitative LC-MS.

In this unique forum, we openly encourage you to talk about your biggest challenges with one of the most popular routine analysis tools in the world. You will collaborate with your peers and discuss common challenges such as Sample Collection & Preparation, Method Development, Data Acquisition & Analysis, as well as Repair & Maintenance, but ideas around Future Business Models, Design & Form Factor, as well as Automated Workflow Integration and others are all on the table.

1:00 PM - 4:30 PM  WORKSHOP
Queen’s Room
Sponsored by New Objective

6:00 PM - 9:00 PM  OPENING RECEPTION
College Suite  Sponsored by New Objective
Say hello to old friends and introduce yourself to new!

4th ANNUAL SYMPOSIUM
Clinical & Pharmaceutical Solutions through Analysis
March 19-21, 2018  •  Gainesville, FL

Programme Chair  Timothy Garrett  University of Florida
Plenary Speaker  Alla Kloss  Sanofi
Hosted by the University of Florida
www.cpsa-metabolomics.com
Where Technology and Solutions Meet. Where Discovery Meets the Clinic.
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<th>Time</th>
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<td>7:00 AM – 8:30 AM</td>
<td><strong>REGISTRATION &amp; BREAKFAST</strong></td>
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<td>Breakfast - Bridge Restaurant</td>
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<td>Registration - Lobby</td>
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<td>8:30 AM - 8:45 AM</td>
<td><strong>WELCOME &amp; OPENING REMARKS</strong></td>
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<tr>
<td>The Peterhouse Room</td>
<td>Welcome</td>
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<td>Mike Lee, Milestone Development Services</td>
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<td>Objectives, Format, and Opening Remarks</td>
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<td>Neil Spooner, Spooner Bioanalytical Solutions</td>
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<td>Ismael Zamora, Molecular Discovery</td>
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<td>8:45 AM – 9:30 AM</td>
<td><strong>PLENARY LECTURE</strong></td>
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<td>The Peterhouse Room</td>
<td>Small Molecules and Big Data: Next Generation Analytical Tools in Drug Development</td>
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<td>Axel Pähler, Roche</td>
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<td>9:45 AM - 11:30 AM</td>
<td><strong>SYMPOSIUM SESSION  SESSION 1</strong></td>
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<td>Is Home Sampling or even Home Measurement a Reality or a Future Dream?</td>
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<td>Discussion Leader: Matt Barfield, GlaxoSmithKline</td>
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<td></td>
<td>► Remote Sampling – Impact for Innovative Clinical Trials</td>
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<td>John Farrell, GlaxoSmithKline</td>
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<td></td>
<td>► The Home Sampling/Measurement Landscape: Location, Location, Location</td>
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<td>Farjana Mahammed, University of Strathclyde and GlaxoSmithKline</td>
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<td></td>
<td>► Strategies and Perspectives on the Impact that Microsampling Techniques have on Patient Value</td>
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<td>John Smeraglia, UCB</td>
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<td>► Smart Trials: Bringing the Trial to the Patient</td>
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<td>Kevin Bateman, Merck</td>
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<td>11:45 AM - 12:30 PM</td>
<td><strong>LUNCH &amp; ROUNDTABLE</strong></td>
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<td>The Peterhouse Room</td>
<td>An Integrated Workflow for Personalized Healthcare: Precision Pumping, Sample Collection and Preparation, Separations and Detection</td>
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<td>Sponsored by New Objective</td>
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PROGRAMME

Wednesday FEBRUARY 7

12:45 PM - 2:15 PM SYMPOSIUM SESSION  SESSION 2
The Peterhouse Room

How Can DMPK and Biotransformation Influence Future Drug Discovery and Development?
Discussion Leaders: Marie Ahlqvist, AstraZeneca and Britta Bonn, AstraZeneca

► Impact of Biotransformation on “Intelligent” Design of Drugs
   Emre Isin, UCB

► Use of Legacy Data and How to Convert It into Knowledge
   Britta Bonn, AstraZeneca

► Changing the Drug Development Paradigm by Applying New Technologies Like Automated Combustion AMS
   Markus Walles, Novartis

2:30 PM - 3:30 PM WORKSHOP
The Peterhouse Room

An Integrated Workflow for Personalized Healthcare: Precision Pumping, Sample Collection and Preparation, Separations and Detection
Sponsored by New Objective

We invite you to participate in a discussion where we will work together to identify the challenges around developing integrated solutions for personalized healthcare. In a structured workshop setting, leaders in fields of Precision Pumping, Sample Collection & Preparation, Separations, and Detection, will come together and ask strategic questions. Integral to the discussion will be the role of standardization and an assessment of whether or not it is the key to unlocking the code to integration. As we lay down the track for a journey into the future of high performance nanospray and its integral role in personalized healthcare, we will fuel this engine with inspiration, innovation, consensus and collaboration.

3:45 PM - 5:15 PM SYMPOSIUM SESSION  SESSION 3
The Peterhouse Room

Cancer and Me: Understanding the Science to Help Find a Cure
Discussion Leader: Anthony Edge, Agilent Technologies

► Understanding How Cancer Affects Me
   Nikesh Patel, Agilent Technologies

► Anticancer Treatments Bioanalytics - 2 Decades of New Technologies and Concepts
   Jaap Wieling, Antaeus Biopharma BV

► Breaking the Barrier between LC-MS and the Clinical Lab
   Sarah Robinson, Thermo Fisher Scientific
Feel good about your Pharma QC management?

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If you seek absolute assurance about the rightness of your method development work, if you need to ensure regulatory compliance in quality control, if you require expertise as well as state-of-the-art tools and services during the drug discovery process, just visit www.sial.com/feel-better and feel better.
Confident Quantitation for All Molecule Types

The world of Pharma and Biopharma has evolved significantly in the recent past, and the domain of therapeutics is wider than ever before. The demand to achieve quality results faster while reducing cost continues to grow.

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CHANGES EVERYTHING

Shimadzu’s New Triple Quad LCMS-8060 Expands the Limits of LC-MS/MS Quantitation for Applications Requiring the Highest Sensitivity

The newest model in the Ultra-Fast Mass Spectrometry (UFMS) series, the LCMS-8060 offers an incomparable fusion of LC-MS/MS speed and sensitivity to achieve new levels of data quality.

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The LCMS-8060 incorporates Shimadzu’s proprietary ultrafast technologies (UF Technologies) to enable:

- polarity switching time of 5 msec
- data acquisition scan speed of 30,000 u/sec
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**Highest Sensitivity**
A redesigned UF-Qarray ion optical system increases ion transmission and signal intensity while reducing background noise for the utmost in quantitative detection.

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A robust design and easy maintenance allow highly reliable data even for high-throughput analysis of samples in challenging matrices.

Time for a change? Discover the LCMS-8060, the ideal solution for better data quality and higher throughput for a wide array of challenging and routine applications.

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- Confident identification of unknown metabolites and catabolites using comprehensive and unbiased SWATH® acquisition

Visit us at CPSA to find out more!
SPONSOR’S RECEPTION & DINNER

The College Suite

6:00 PM - 8:00 PM

Common Challenges, Big Ideas, and Crazy Solutions that Just Might Work

Sponsored by Waters Corporation

Waters invites you to join your colleagues for a lively evening discussion regarding important scientific problems that could potentially be solved by the application of technology. In this facilitated workshop setting, you will collaborate with your peers and discuss common challenges with Sample Collection & Preparation, Separations, Detection, as well as Data Management & Analysis. Together, we’ll prioritize the challenges and brainstorm some solutions, developing a single-voice for the needs of our industry.

After the conference, a comprehensive report will be made openly available to all attendees. Identified challenges will form the basis of next year’s CPSA Europe technical programme, and hopefully, some workgroups will form around high-priority challenges.

Don’t miss the chance to shape the future of this meeting and tell our commercial partners exactly what challenges you face and the tools you need to address them!

Hosted bar and heavy appetizers will be served.
PROGRAMME

Thursday  FEBRUARY 8

7:00 AM – 8:30 AM  REGISTRATION & BREAKFAST
Registration - Hotel Lobby
Breakfast - Bridge Restaurant

8:30 AM - 10:15 AM  SYMPOSIUM SESSION  SESSION 4
The Peterhouse Room
Novel Strategies for the Quantitative Analysis of Small Biological Specimens
Discussion Leader: Neil Spooner, Spooner Bioanalytical Solutions

► Consider the Alternative: From Alternative Sampling Strategies Towards Alternative Detection Strategies
Christophe Stove, University of Ghent

► Microsampling or Microanalysis: Considering the User in Biological Analyses
Darragh Murnane, University of Hertfordshire

► Molecularly Imprinted Polymers and Sensors: Clever Technologies for Point-of-Care Diagnostics
Ute Gerhard, University of Hertfordshire

► Ion Mobility: An Additional Dimension for the Analysis of Low Molecular Weight Compounds by LC-MS
Gérard Hopfgartner, University of Geneva

10:15 AM - 12:00 PM  SYMPOSIUM SESSION  SESSION 5
The Peterhouse Room
What is the Point of Good Science If No One Knows You’re Doing It?
Discussion Leader: Sarah Mayes, Future Science

► Publishing Now and in the Future
  - How is it likely to change and what impact might this have on us?
  - How can we possibly manage this change?
Sarah Mayes, Future Science

► The Messy Nightmare: Taming the Beast of Disconnected Data in the Bioanalytical Lab
  - How tech can help this
  - What else could/should be done and how this may affect the way we work together?
Shane Needham, Alturas Analytics

► Sourcing and Sharing –Challenges in Target and Disease Information
  - Ability to share this knowledge with the wider community
  - Pressure vs time to publish
Laura Rapley, GlaxoSmithKline

► Journal Publication and Beyond: How Can we Make Sure the Right People See the Right Articles?
  - Open access vs subs model
  - How is social media changing the way we publish?
Laura Dormer, Future Science Group
12:00 PM - 1:00 PM  
**SPONSORED LUNCH & ROUNDTABLE**
*The Peterhouse Room*
**Generic and Pragmatic Solutions – How Good is Good Enough?**
*Sponsored by Merck (MilliporeSigma in USA/Canada)*

1:00 PM - 2:30 PM  
**SYMPOSIUM SESSION  SESSION 6**
*The Peterhouse Room*
**Embracing Technological Change... When Does Disruptive Move Towards Sustaining?**
*Discussion Leader: Amanda Wilson, AstraZeneca*

- Acoustic-mist Ionisation MS: From Concept to a Game-Changer in Early Drug Discovery  
  *Martin Bachman, AstraZeneca*

- Mass Cytometry (CyTOF)  
  *Francesca Barone, University of Birmingham*

- Fluidics and Cell Culture: Applications of Flow Open Up New Possibilities for in vitro Experimentation  
  *David Hughes, CN Bio*

2:30 PM - 3:30 PM  
**WORKSHOP**
*The Peterhouse Room*
**Generic and Pragmatic Solutions – How Good is Good Enough?**
*Sponsored by Merck (MilliporeSigma in USA/Canada)*

Join us for a frank and open discussion to work together to solve the toughest challenges in analytical chemistry. The aim is to deliver a consensus on understanding the key challenges, priorities and drivers to create and provide a solution which is fit for purpose. As a group we will discuss the specific challenges regarding affinity depletion and digestion protocols.

Following the CPSA Europe meeting we will then commit to further investigate platform agnostic solutions based on your feedback.
PROGRAMME

Thursday FEBRUARY 8

3:30 PM - 5:00 PM SYMPOSIUM SESSION  SESSION 7
The Peterhouse Room
Lipidomics for Clinical and Pharmaceutical Applications: Challenges and Innovations
Discussion Leader: Gabriele Cruciani, Molecular Discovery

➤ From the Screen to the Stage: Computational and Bioinformatics Challenges to bring Lipidomics into Routine Applications
Sara Tortorella, Molecular Horizon

➤ Imaging MS Based Molecular Histology and Spatial Lipidomics to Assess PK/PD in Drug Development
Reid Groseclose, GlaxoSmithKline

➤ The Cellular Receptor of the Glycerophosphoinositolts and Its Involvement in the Control of Inflammation and Tumor Invasion
Daniela Corda, CNR

5:00 PM CLOSING REMARKS
The Peterhouse Room
Neil Spooner, Spooner Bioanalytical Solutions
Ismael Zamora, Molecular Discovery
Mike Lee, Milestone Development Services
PICTURE YOURSELF AT CPSA

Want to see yourself at CPSA? Here’s how - Send your photos to CPSA Selfies!
- Take photos... lots of photos on your phone, tablet, or camera
- Email your photos to CPSAselfies@gmail.com
- Be sure to include a caption and/or the names of everyone in the photos

Visit the Image Gallery at www.cpsa-europe.com to see and share your photos with friends, family and colleagues
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With more than two decades of supplying products that offer real solutions for our community, New Objective continues to redefine simplicity, robustness, reproducibility, quality, and performance.

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