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ELRIG LIQUID HANDLING & LABEL-FREE DETECTION TECHNOLOGIES

Meeting

Whittlebury Hall, nr. Silverstone, UK

4th March 2010



□ Welcome Words from the ELRIG Chairman

Dear European LRIG Members,

Welcome to the first ELRIG meeting of 2010, a year in which we will be hosting more meetings than ever before covering more subjects with the same focus and quality of presentations on which we have built our reputation. Please ensure you have enlisted as a member and are receiving the ELRIG Newsletters to make sure you keep up to date.

Today we are covering two key subjects for today's research laboratories. Firstly one of the most basic, yet demanding, needs within the laboratory: the need to handle even the most troublesome liquids with precision and accuracy. Secondly, we are covering perhaps the most rapidly developing and promising forms of assays: those based on label free detection. Negating the need to label the targets not only provides for a more physiological assay but, as we will hear today, also enables novel assays providing information on biology we have not previously been able to study.

Our speakers in both sessions have been drawn from some of the top laboratories across the world, academic and industrial alike, and their presentations relay the latest developments and practices which underpin the best science. There are also **Posters** concerning further scientific developments which could not be accommodated in the main programme of presentations.

□ Awards Committee

As a not-for-profit organisation, it is part of the ELRIG's mission to 'give something back' to the industry to help promote its development.

We have set up a **Technology Award Fund**, allowing us to offer some financial support to researchers and developers for innovative ideas that would advance the use of automation within the life science laboratories.

We require applicants to come forward with innovative ideas that would be of special scientific interest, have lab automation as a focus, be educative or applied to the lab community [but the idea should not be vendor specific].

The project should cover new technology or devise an innovative use of current technology/ lab automation.

The award will be either a 'cash award' or 'sponsorship' to a given person or group.

Individual awards will be between £500 and £5,000 and open to any relevant projects in the UK or Europe.

Each application will be considered on individual merit by the review team from the ELRIG committee.

Announcement of Awards will take place at the ELRIG conference TODAY and September 2010, with subsequent information on our Website and Newsletters.

**Contact us for an Application Form at :
awards@elrig.org**

Free registration and attendance for delegates is fundamental to the ELRIG philosophy. This is only possible today because of the support of our sponsors Corning, Hamilton and all the other exhibitors. The exhibition itself perfectly compliments the scientific sessions providing an opportunity to learn about and access the latest technological hardware, labware, reagents and software essential to cutting edge research. I urge you to make the most of today's opportunity to explore the exhibition in detail.

I would like to thank our Scientific Committees, who have developed our programmes for today and the ELRIG board members, whose significant voluntary efforts makes ELRIG what it is. I also need to extend sincere thanks to our staff, Jackie Howard and Dermot Boylan, for their exceptional and tireless work which makes today's event a reality.

With best regards,

Adrian Kinkaid - Chairman, ELRIG

□ Exhibitors

| | |
|--|--------------|
| Agilent Technologies | A1 |
| Anachem Instruments Ltd | D4 |
| Artel | A5 |
| Beckman Coulter UK Ltd | F8 |
| BigNeat | C6 |
| BIOCIUS Life Sciences | B1 |
| BIONAS GmbH | D6 |
| BioTek Instruments, Inc. | D6 |
| Caliper Life Sciences | D5 |
| Caltag Medsystems Ltd | F3 |
| Cisbio Bioassays | E2 |
| Corning | F6/F7 |
| CyBio Northern Europe Ltd | E7 |
| Digilab UK Ltd | C1/C2 |
| Eppendorf | C5 |
| FluidX Ltd. | G2 |
| ForteBio, Inc. | D2 |
| Hamilton | D1/E2 |
| Highresbiosolutions | C7/B7 |
| HPA Culture Collections | B3 |
| Labcyte Inc | C3 |
| Labman Automation | F5 |
| Molecular Devices | E5 |
| Michael Smith Engineers Ltd | G4 |
| Perkin Elmer | B5/B6 |
| PharmaDiagnostics NV | D3 |
| Porvair Sciences Ltd | G3 |
| Process Analysis and Automation Ltd | A4 |
| Roche Diagnostics Limited | F9 |
| RTS Life Science | A2 |
| Scienion AG | E6 |
| SciMed (Scientific & Medical Products Ltd) | G1 |
| Seyonic SA | A3 |
| SRU Biosystems | E3 |
| TCS Cellworks | D7 |
| Tecan UK Ltd | B4/C4 |
| The Automation Partnership | B2 |
| Thermo Scientific | F2 |
| TTP LabTech | F4 |
| Ziath | E4 |

Liquid Handling Programme

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|---------------|---|--|---|
| 9.15 – 9.30 | Registration | | |
| 8.50 – 9.00 | Session Chairs | Introductions | Kevin Moore Wendy Lauber |
| 9.00 – 9.30 | Speaker Talk 1 | Production of Accurate Serialisation Plates from Small Volume inputs and the issues faced. | Toby Winchester, Pfizer |
| 9.30 – 10.00 | Speaker Talk 2 | Development of a Frozen Sample Aliquotter to avoid Freeze-Thaw Cycling of Serum and Plasma samples | Dale Larson, Draper Laboratory |
| 10.00 – 10.45 | COFFEE BREAK – EXHIBITION | | |
| 10.45 – 11.15 | Speaker Talk 3 | Automated Liquid and Nanoparticle Slurry Handling Combinatorial Nanoceramics Synthesis Robot | Josie Goodall, London University |
| 11.15 – 11.45 | Speaker Talk 4 | High Frequency Focused Acoustic Technology: Implementation in Compound Management | Darren Rimmer, GSK |
| 11.45 – 12.30 | Snapshot Presentations | <i>Bellbrook, Caliper, Cybio, Hamilton, Labcyte, TTP, Tecan, Thermo</i> | |
| 12.30 – 2.00 | LUNCH + EXHIBITION VIEWING + POSTER VIEWING | | |
| 2.00 – 2.30 | Speaker Talk 5 | Non-contact Picoliter Dispense Technology to Eliminate Serial Dilution | Daniel Thomas, GSK |
| 2.30 – 3.00 | Speaker Talk 6 | Is Your Automated Liquid Handler Working For Your Assays – Understanding Device Behavior | John Bradshaw, Artel |
| 3.00 – 3.30 | COFFEE BREAK - EXHIBITION | | |
| 3.30 – 4.00 | Speaker Talk 7 | High throughput process development and the implication for Liquid Handling | Jorg Kittelmann, Karlsruhe Institute of Tech, Germany |
| 4.00 – 4.30 | Speaker Talk 8 | Liquid Handling and Automated Liquid Class Optimisation of Complex Fluids | Neil Campbell, Liverpool University |
| 4.30 – 4.45 | CLOSE - PRIZE DRAW | | |

Label-free Detection Technologies Programme

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|---------------|---|--|--|
| 9.15 – 9.30 | Registration | | |
| 8.50 – 9.00 | Session Chairs | Introductions | Adrian Kinkaid Jo Woodward |
| 9.00 – 9.30 | Speaker Talk 1 | Label free and fluorescence detection in molecular recognition science - why we need both | Manfred Auer, Edinburgh University |
| 9.30 – 10.00 | Speaker Talk 2 | An Overview of Label-Free Technologies: Stairway to Heaven or The Song Remains the Same? | Phil Rawlins, AstraZeneca |
| 10.00 – 10.45 | COFFEE BREAK – EXHIBITION | | |
| 10.45 – 11.15 | Speaker Talk 3 | Probing for 7TMR native signalling | Jeff Jerman, GSK |
| 11.15 – 11.45 | Speaker Talk 4 | The use of label-free methodology to measure collagen receptor activity in live activity in live cells. | Richard Farndale, Cambridge University |
| 11.45 – 12.00 | Speaker Talk 5 | Label Free real time assessment of cell adhesion and proliferation using impedance based technology | Keith Abayasiriwardana, Pfizer |
| 12.00 – 12.30 | Snapshot Presentations | <i>PharmaDiagnostics, Fortebio, Corning, Bionas</i> | |
| 12.30 – 2.00 | LUNCH + EXHIBITION VIEWING + POSTER VIEWING | | |
| 2.00 – 2.30 | Speaker Talk 6 | Dynamic mass redistribution: fascinating insight into cellular signaling or black box? | Evi Kostenis, Bonn University |
| 2.30 – 3.00 | Speaker Talk 7 | Industrial biophysics in the search for new leads | Stephan Geschwinder, AstraZeneca |
| 3.00 – 3.30 | COFFEE BREAK - EXHIBITION | | |
| 3.30 – 4.00 | Speaker Talk 8 | Bio-inspired sensors based on the assembly of receptors and ion channels for label-free receptor characterization and drug screening | Michel Vivaudou, Grenoble |
| 4.00 – 4.30 | Speaker Talk 9 | Impedance spectroscopy | Prof. Hywel Morgan, Southampton University |
| 4.30 – 4.45 | CLOSE - PRIZE DRAW | | |

Meetings in 2010

ELRIG 2010 Meetings



23RD JUNE '10

Microfluidics / Nanotechnology

AstraZeneca, Alderley Park, Manchester



1ST + 2ND SEPTEMBER '10 Drug Discovery 2010

Ricoh Arena, Coventry



13TH + 14TH OCTOBER '10 Flow Cytometry & Imaging

GSK, Ware



23RD NOVEMBER '10

Genotyping / Biomarkers

Hinxton Hall, Cambridge



Details on our website ...www.elrig.org

For enquiries, please contact:
dermot.boylan@lab-robotics.org or jackie.howard@lab-robotics.org

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