



Show Preview

by Gwyneth Astles



The venue is the award winning Manchester Central Convention Complex.

The 15th European Microscopy Congress • 16th – 21st September 2012 • Manchester Central, Manchester, UK

Europe's largest ever event dedicated to microscopy and analysis opens Sunday 16th September with plenary talks by Professor Tony Wilson and Professor Peter Dobson. The conference opens at 8.30am on Monday 17th September with a plenary talk, followed by eight parallel science sessions covering the life and physical sciences, and light and electron microscopy. The conference sessions listing is available at: www.emc2012.org.uk/programme/programme_overview.html



emc2012 will be home to the largest ever exhibition dedicated to microscopy and imaging with over 100 companies present

Over 1,200 abstracts have been submitted, which is more than any previous European Microscopy Congress.

The list of plenary speakers can be found at: www.emc2012.org.uk/programme/plenary_speakers.html

For the first time ever, the congress will present a scientific programme that is balanced between the life and physical sciences. Registration for the full week of the conference entitles you to purchase a ticket to attend the conference banquet at the world famous Manchester United's football ground, Old Trafford. Your conference banquet ticket includes a drinks reception and tour of the Manchester United Museum, dinner and entertainment as well as transportation to and from the venue.

The exhibition will open at 9.30am on Monday 17th September with over 100 companies who have taken more than 1700m² of stand space, which is larger than any previous European Microscopy Congress exhibition.

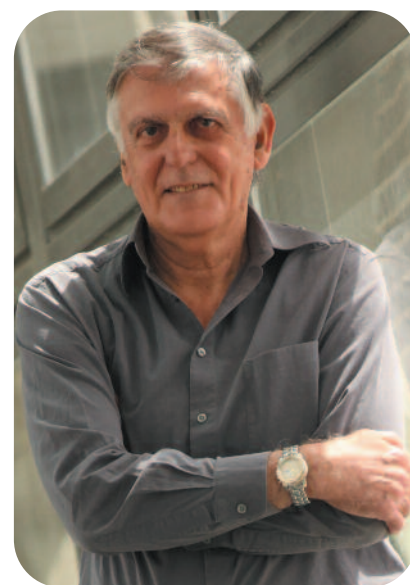
The exhibitor list available at www.emc2012.org.uk/exhibition/exhibitor_listingam.html

Entry to the exhibition is free of charge. The conference and exhibition run from Monday morning and end at lunchtime on Friday 21st September. emc2012 will conclude with a plenary talk by 2012 Nobel Prize Winner, Professor Daniel Shechtman, and two FEI EM Awards Lectures. Throughout the week there will be a programme of free company workshops for delegates and day visitors.

The RMS Learning Zone will be in operation throughout the event. This is a fully equipped teaching and learning area with fully functioning light, confocal and electron microscopes. The Learning Zone is manned by impartial experts and is free to delegates and visitors.

Details can be found at: www.emc2012.org.uk/exhibition/learning_zone.html

The RMS International Micrograph Competition will conclude at emc2012 with shortlisted entries on display during the week, and winners being announced. Details of the competition are at: www.emc2012.org.uk/features/international_micrograph_competition.html



The scientific programme has an impressive line-up of speakers that includes 2012 Nobel Laureate, Professor Dan Shechtman.

ASI /APPLIED SCIENTIFIC INSTRUMENTATION

High quality hardware for sub-micron micropositioning.

Manufactures hardware for laboratory and microscope automation including:

extremely precise closed-loop DC servo motor X Y Stages & Z drives, PZ-2000 piezo stages for ultra-precise & fast Z-axis focusing, laser based feedback systems for maintaining submicron level focusing, the FTP-2000 series focusing platforms for fixed stage microscopes, complete video microscope systems, high-speed filter wheels, microinjectors & micromanipulators, and a wide range of other devices including complete imaging and photometric systems.

ASI work directly with end users, as well as a wide range of OEM's and imaging partners, to provide anything from individual components to fully automated turnkey systems.

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STAND 315

“*The conference includes an extensive ‘poster village’ with over 730 posters being presented over the course of five days*”



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Circle no. 520

CARL ZEISS MICROSCOPY

The Microscopy business group at Carl Zeiss is the world's only manufacturer of both light and electron microscopes. The company's extensive portfolio enables research and routine applications in the life and materials sciences. The product range includes light and laser scanning microscopes, electron and ion microscopes and spectrometer modules. Users are supported by software for system control, image capture and editing. Application and service specialists support customers around the globe. The business group is headquartered in Jena (Germany). Further production and development sites can be found in Oberkochen, Göttingen and Munich, as well as in the UK and the USA. The company has around 2,500 employees and generates revenue of €620 million.

Email: microscopy@zeiss.com

Web: www.zeiss.com/microscopy

STAND 507

DELMIC

DELMIC is a start-up company, focused on the integration of light and electron optics.

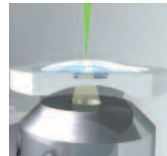
The SECOM platform integrates a fluorescence microscope with a scanning electron microscope (SEM), making it possible to do high-throughput correlative microscopy with high overlay precision. The system is easy to use and makes correlation as simple as drag-and-drop. The platform is sold as a retrofit can be installed on most types of SEMs.

The SPARC is a high-end cathodoluminescence detection system with a precision stage and custom mirror for unprecedented photon yield. This enables novel nanophotonics research with high reproducibility.

Email: hoedt@delmic.com

Web: www.delmic.com

delmic



STAND 605

FIANIUM LTD

Fianium introduces their new WhiteLase UV, the world's first UV-enhanced



supercontinuum fibre laser. The unique WhiteLase UV provides a spectrum from below 390nm to beyond 2400nm enabling an even wider range of applications from a single laser source.

Offering up to 3W total power, at MHz repetition rates with picosecond pulses, the source is equally suitable for steady-state or lifetime measurements. With the optional internal pulse-picker, the repetition rate can also be adjusted from 40MHz down to 100kHz giving even greater flexibility.

The laser is turn-key, requires no user maintenance and is compatible with all WhiteLase tunable filters and accessories.

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STAND 808

COOLED LTD

CoolLED Ltd is a design and manufacturing company specialising in high-performance LED technology, where demands for intensity and stability are high.



CoolLED will be launching the next generation of LEDs for fluorescence microscopy at EMC 2012.

The Company's LEDs offer many benefits to the life scientist, from instant On/Off to long lifetime, stability and precise control.

With the widest choice of 20 different wavelength options, CoolLED's LED solutions are designed to make excitation simple and easy.

CoolLED can provide LED excitation matched to your fluorescent stains and microscope filter set(s), and can fit to most microscope types.

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STAND 616

EDAX, INC

Edax is a leading provider of innovative materials characterisation systems encompassing Energy Dispersive Spectrometry (EDS), Wavelength Dispersive Spectrometry (WDS), Electron Backscatter Diffraction (EBSD) and Micro X-ray Fluorescence (XRF).



Edax products include standalone tools for EDS, EBSD and WDS, integrated tools for EDS/EBSD, EDS/WDS, and EDS/EBSD/WDS, and a free-standing micro-XRF bench-top elemental analyser providing small and micro-spot x-ray analysis and mapping.

Edax develops the best solutions for micro- and nano-characterisation, where elemental and/or structural information is required, making analysis easier and more accurate.

Edax designs, manufactures, distributes and services products for a broad range of industries, educational institutions and research organisations.

Email: info.edax@ametek.com

Web: www.edax.com

STAND 409

“*emc2012 will be the largest exhibition in the world dedicated to microscopy, analysis and imaging*”

HAMAMATSU PHOTONICS UK LTD

Hamamatsu Photonics introduces at the European Microscopy Congress 2012 the new ORCA-Flash4.0 sCMOS camera with high sensitivity, high resolution and fast readout. Engineered around a new second-generation sCMOS detector, the ORCA-Flash4.0 is the first camera that challenges the performance of all EM-CCD, CCD and first-generation sCMOS cameras for every fluorescence application.



The ORCA-Flash4.0 delivers better signal-to-noise than EM-CCDs, cooled CCDs and first-generation sCMOS cameras for low-level, fast, fluorescence imaging. This unique camera covers a wide range of imaging needs, including super resolution microscopy, TIRF microscopy, live cell GFP, high-speed calcium ion imaging, FRET, real-time confocal microscopy and many more.

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Email: info@hamamatsu.co.uk
Web: www.hamamatsu.co.uk

STAND 517

INTERNATIONAL LABMATE LTD

For over 38 years, International Labmate has been providing manufacturers of



scientific equipment with ideal platforms to market their products. Various markets are covered by each publication title: International Labmate, Labmate UK & Ireland, Lab Asia, Chromatography Today, International Environmental Technology, Asian Environmental Technology, Petro Industry News, Measurement Analysis China and Pollution Solutions.

The Company also provides a variety of other successful platforms for reaching the scientific community including the exhibitions WWEM (Water, Wastewater and Environmental Monitoring), Mercury 2013, CEM (Continuous Emissions Monitoring) and the AQE (Air Quality and Emissions) show and online platforms such as E-Bulletins, banner advertising and Electronic Direct Marketing.

Email: info@intlabbmate.com
or sales@intlabbmate.com
Web: www.labmate-online.com

STAND 118

As always, there will be stunning prizes on offer, and the companies that donate them can be very imaginative

IXRF SYSTEMS, INC

For over two decades, IXRF Systems has proved itself as a leader in x-ray microanalysis. Using innovative design & technology, IXRF remains the only EDS company capable of adding XRF to the scanning electron microscope. IXRF's EDS platform, Iridium Ultra™, boasts an all-inclusive suite of premium analytical tools coupled with the highest quality LN-Free SDD detectors. IXRF also remains the only company to provide free software upgrades for the life of every system.



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STAND 502

JACKSON IMMUNORESEARCH EUROPE LTD

First Class Secondary Antibodies From Jackson ImmunoResearch Labs



Inc. Jackson ImmunoResearch Europe Ltd based in Newmarket, UK, serves European customers.

Their efficient customer services and technical support team are ready to handle any enquiry from European customers. Details can be found on their website.

The Company's products, considered by scientists to be the Gold Standard in secondary antibodies are suitable for many techniques, including: immunofluorescence microscopy, in situ Hybridisation, electron microscopy, enzyme immunohistochemistry, 2-Photon microscopy and STED-microscopy.

Find out about Jackson's '3 for the price of 2' offer on Alexa Fluor® dye conjugates by visiting their stand.

Alexa Fluor® a registered trade mark of Life Technologies corporation

Email: cuserv@jireurope.com
or tech@jireurope.com
Web: www.jireurope.com/home.asp

STAND 1010

LINKAM SCIENTIFIC INSTRUMENTS

Linkam Scientific Instruments is pleased to be celebrating its 30th anniversary this year.



Linkam stages are found in thousands of laboratories worldwide with the most successful heating/cooling stage, the THMS600, selling over 4000 units.

Linkam develops and manufactures a broad range of heating/cooling stages for both OEM and end users, to visualise and explore materials properties. The instruments can be used in conjunction with light microscopes, Raman, IR, other forms of spectroscopy and X-ray.

Linkam Scientific Instrument's product range now includes stages designed specifically for optical rheology, liquid crystal, fluid inclusion, cryobiology, tensile, freeze drying, catalysis and high pressure research.

Email: info@linkam.co.uk
Web: www.linkam.co.uk

STAND 911

The Scientific Programme for the 15th European Microscopy Congress includes six plenary talks, 123 invited speakers, and 330 contributed oral presentations spread across 64 sessions that embrace light and electron microscopy

LUMEN DYNAMICS GROUP INC

X-Cite® offers innovative illumination and measurement solutions that provide researchers with unsurpassed reliability and control essential for fluorescence cellular imaging. Recognised as the industry standard, X-Cite® combines maximum optical performance and stability with ease of use that enable researchers to focus on advancing their research.



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Web: www.ldgi.com

STAND 706

NIKON METROLOGY UK LTD

Nikon Metrology in partnership with Jeol have chosen EMC2012 to launch the new JCM6000 NeoScope SEM. This latest version of this popular desktop



SEM, has inherited the existing features of the previous version, such as fully featured secondary electron and backscatter electron detector. In addition it offers 60000X magnification, an EDX spectrometer and motorised tilt and rotate.

Nikon Metrology are also showing the powerful ShuttlePix digital microscope, featuring a 20:1 optical zoom range, and 400x magnification. ShuttlePix is a portable microscope and can be used on a motorised stand creating stunning extended depth of focus images.

Email: becky.lee@nikonmetrology.com
Web: www.nikonmetrology.com

STAND 711

OLYMPUS EUROPA HOLDING GMBH

With its European headquarters in Hamburg, Olympus is one of the world's leading manufacturers of professional opto-digital products for science, medicine and industry.

Driven by the customer quest for highly specialised solutions, exploration and enthusiasm for research and technology, Olympus offers innovative and ground breaking solutions which help the users to focus on what really matters: The fascination of discovery.

Adding to its ever-evolving line of innovative products, Olympus will unveil major new microscopes for live cell imaging at this year's EMC in Manchester, at what is sure to be an exciting European launch.

Email: microscopy@olympus-europa.com
Web: www.olympus-europa.com

STAND 101

PRIOR SCIENTIFIC LTD

Established in 1919 and based in Cambridge, UK, Prior Scientific develops and manufactures automation solutions for a wide range of microscopes.



Prior offers a unique blend of skills in electronics, mechanical engineering and optical design. With local offices in Europe, North America and South East Asia, Prior offers a worldwide service and support network.

Email: uksales@prior.com
Web: www.prior.com

STAND 114

QUORUM TECHNOLOGIES

Quorum Technologies will be showing an extensive range of electron microscopy (EM) preparation equipment, including the industry



standard 'Q' series vacuum coaters. The instruments are fully automatic with touch screen control and are suitable for many specimen types, with applications in SEM, TEM and thin film technologies.

Quorum will also be presenting 'live' cryo-SEM using their latest market leading cryo preparation technology. Cryo-SEM allows a range of biological, wet or beam sensitive specimens to be rapidly processed and then observed in their frozen hydrated state.

Other instruments include critical point and freeze dryers and the K1050X RF plasma etcher/cleaner.

Email: mike.wombwell@quorumtech.com
Web: www.quorumtech.com

STAND 903

OXFORD UNIVERSITY PRESS

Oxford University Press publishes books and journals from the leading



scientists in the field of physical sciences, including The Journal of Electron Microscopy (soon to be Microscopy).

Visit their stand and receive a 20% discount on their displayed titles, including Atomic Force Microscopy by Peter Eaton and Paul West, and, the recently published second edition of Principles of Electron Tunneling Spectroscopy by E. L. Wolf.

Email: science.books.uk@oup.com
Web: www.oup.com/uk

STAND 902 d

Exhibiting companies are hosting workshops Monday-Thursday between 11-16.15 each day. These are each 45 minutes long and will provide an opportunity to gain insight into new ideas, techniques and products that the companies are offering

THORLABS THORLABS

Thorlabs designs, develops and manufactures high quality products for microscopy and life science applications, from modular microscopes and microscopy essentials to complete optical coherence tomography and laser scanning microscopy systems. Founded in 1989, Thorlabs is headquartered in New Jersey, with over 700 employees at manufacturing sites and sales offices throughout the United States, United Kingdom, Germany, France, Sweden, Japan, China and Brazil.

The Company's products are available for immediate delivery, and their Technical Support team is available by phone or email to advise you regarding product choices, customised options and demonstration potential.

Email: sales.uk@thorlabs.com
Web: www.thorlabs.com

STAND 518

INTERNATIONAL LABMATE WELCOME YOU TO EMC 2012

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www.labmate-online.com



Prior Scientific to Preview the HLW20 Well Plate Loader at EMC

Prior Scientific is excited to preview the new HLW20 Well Plate Loading System at the EMC meeting in Manchester UK in September. Designed for inverted microscopes and compatible with the Prior ProScan™ series controller, the HLW20 features a 20 well plate capacity and stainless steel racks for easy cleaning. Compatible with covered and uncovered well plates, the system fits all standard microtitre plates up to 19mm thick. Multiple sensors ensure a safe and accurate transfer between racks and microscope stage.

An optional barcode reader is also available to further enhance well plate tracking. The system is supplied with a Software Development Kit (SDK) which allows the user full control of the loading and unloading processes. Prior Scientific is proud to add the HLW20 Well Plate Loader to its growing product line of robotic sample loaders and will begin shipping the systems beginning in the 2nd quarter of 2012.



Circle no. 521

Motorised Z-Deck – Preview At EMC Manchester UK

Prior Scientific is excited to preview the new Z-Deck quick adjust platform for the Olympus BX51WI/BX61WI and Nikon FN1 microscopes at the EMC meeting in Manchester UK in September. The Z-Deck quick adjust platform enables users to increase their productivity by allowing them to image multiple areas of interest with speed and precision.

Easy loading and unloading of samples is accomplished via the use of pneumatic piston towers which makes the raising and lowering of the Z-Deck virtually effortless. No tools are required to adjust the height, which enables the user to change between thin sample and large sample imaging in seconds. Precision or customised stage provides sub micron repeatability and smooth movement while the ProScan™ III controller and PS3J100 joystick provides ultra fine XY stage control via dual digipots.



Circle no. 522

Prior Scientific releases the Brightfield LED Illuminator



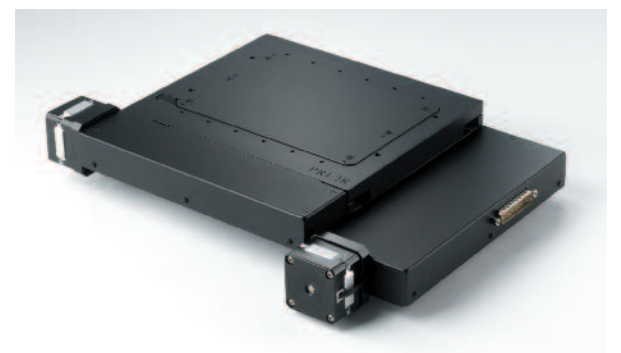
Prior Scientific is proud to announce the latest addition to their wide range of illumination products for microscopy - the new Brightfield LED Illuminator. The Brightfield LED illuminator provides all the advantages of LED illumination in a flexible package that can be fitted to most modern upright and inverted microscope systems. With 10,000+ hours of operating lifetime, the LED simply replaces the standard lamphouse and is easily fitted to the microscope. Control of the unit is a choice of manual intensity control, TTL control or ON/OFF, eliminating the need for shutter mechanisms. The intensity can be regulated manually via a small controller, to give precise control of the illumination.

The intensity is sufficient even for contrast techniques such as phase contrast or DIC imaging. Illumination is even across the field of view and a constant colour temperature is assured at all intensities. The LED can be powered directly from the Prior ProScan™ and OptiScan™ controllers via the shutter connections or as a stand alone light source with a separate power cable. Adapters are available for most of the microscopes from all the major microscope manufacturers.

Circle no. 523

Prior Scientific Unveils the HT1111LC Stage for Upright Microscopes

Prior Scientific proudly introduces the HT1111LC stage for upright microscopes. Ideal for high load and other demanding industrial applications, the HT1111LC can handle up to 100KG point loads and offers 108mm x 108mm travel and 1.5 micron repeatability. The stage has an impressive 20 nanometer resolution when used in conjunction with Prior's ProScan™ line of controllers. The HT1111LC is designed with externally adjustable limit switches for use with a variety of microscopes and testing stands. The stage is also compatible with Prior's full line of standard sample holder inserts and related accessories.



Circle no. 524

Lumen 200S Fluorescence Illumination Systems & Brightfield LED Illuminators are now Compatible with Leading Software Packages



Prior Scientific's new Lumen 200S Fluorescence Illumination Systems with high speed shutter control and Brightfield LED Illuminator are now compatible with many leading software packages including:

- MediaCybernetics Image Pro Plus
- Molecular Devices Metamorph
- Nikon Instrument Systems Elements
- Olympus CellSens
- uManager Micro Manager

If you have any questions regarding the software compatibility of any Prior Scientific product please contact us and we will gladly answer any questions you may have.

Circle no. 525