



PITTCON™ 2015

CONFERENCE & EXPO

SPECIAL
PREVIEW BY
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LABMATE

SHOW PREVIEW

by Gwyneth Astles

New Orleans will play host to the 66th Pittcon, which will be held at the Ernest N. Morial Convention Center, on 8-12 March 2015

As the world's largest annual premier conference and exposition on laboratory science, Pittcon 2015 is expected to attract more than 16,000 attendees from industry, academia and government from 90 countries worldwide. Pittcon provides a showcase for scientific innovations on laboratory equipment, technology and supplies, unique networking opportunities and educational programmes. Experience cutting-edge technology from over 900 exhibitors, a diverse Technical Program of over 2000 presentations as well as short courses and networking sessions that provide the chance to exchange innovative ideas with scientists from around the world.

The 2015 Wallace H. Coulter Lecture, 'Plasmonics: Shedding Light on Cross-cutting Science and Technologies', will be presented by Naomi J. Halas, Stanley C. Moore, Rice University, Professor of Electrical and Computer Engineering. The lecture will take place during the Pittcon Opening Session on Sunday 8 March at 4.30 pm.

Dr Halas is a Professor at Rice University and the founding director of the Rice Laboratory for Nanophotonics. She is a pioneering researcher in the field of plasmonics, creating the concept of the 'tunable plasmon' and inventing a family of nanoparticles with resonances spanning the visible and infrared regions of the spectrum. Halas pursues fundamental studies of coupled plasmonic systems, and applications of plasmonics in biomedicine, optoelectronics, chemical sensing, photocatalysis, and solar energy, with 'solar steam' technology. She is a member of the National Academy of Sciences, the National Academy of Engineering, and the American Academy of Arts and Sciences.



When asked to summarise her research, Dr Halas commented: "My research is centred around the creation of new nanoscale objects that perform a function... understanding the physical properties of those objects at a predictive and quantitative level... and incorporating them into unique applications of societal and technological impact."

Halas' lecture will focus on the new types of metal-based nanoparticles and nanostructures of various shapes and compositions that have given rise to new strategies to harvest, control, and manipulate light based on these structures and their properties. By assembling metallic nanoparticles into useful building blocks, a striking parallel between the plasmons of these structures and wave functions of simple quantum systems is universally observed. These unique light-controlling properties can be put to use in a multitude of ways: for detecting single molecules and following chemical reactions, for generation of hot electrons for colour-specific photodetection and photocatalysis, and most recently, for high-efficiency solar steam generation poised to tackle our planet's energy and sustainability challenges.

The 2015 James L. Waters Annual Symposium topic is Thermal Analysis Instrumentation. The symposium will include three speakers who will cover thermal analysis from its early development through commercialisation and application and highlight its rich history, as well as, its future. The speakers are Roger Lee Blaine (TA Instruments), Robert Danley (TA Instruments) and Kevin P. Menard (PerkinElmer).

When asked about trends in thermal analysis, Dr Menard replied: "Thermal analysis is a relatively mature collection of techniques: the last major innovation was fast-scanning DSC. What has changed is the need for more precise information and hyphenated techniques answer this need." He added, "For example, TGA or STA on their own require a fair amount of assumptions to correlate weight losses with what is actually occurring. Checking the off-gas by using FTIR, MS, or GCMS allows us to be sure of what actually came off."

This session will take place during Pittcon on Monday, 9 March at 1:30 pm.

The 2015 Short Courses will run from 7-12 March. With over 100 from which to choose, there are a wide variety of classes covering relevant topics in food science, water/wastewater, environmental, life science, pharmaceutical, nanotechnology, fuels and analytical chemistry. In addition to specific disciplines, lab management courses are a significant part of the program focusing on communications, time management, technical writing, statistics, lab safety, compliance and best practices.

This year, over 40 new courses have been added, in subjects such as forensics, statistics, separations, LIMS, LC/GC, mass spectrometry, nanotechnology and lab management—to name a few.

The topics for Conferee Networking during Pittcon 2015 have recently been announced. Conferee Networking sessions provide an informal venue for a small group of participants to openly discuss topics of mutual interest or solve problems specific to certain instrumentation or procedures.

There will be 35 facilitated sessions during Conference week, covering topics in nanotechnology, pharmaceutical science, education, specialty analysis, method development, environmental science, laboratory information/data analysis, chemical industry and more. These unique networking opportunities begin on Sunday and run through Wednesday afternoon and are open to all registered conferees at no extra cost. Visit www.pittcon.org/conferee-networking to get the complete list and schedule.



Over the following pages we take a look at a selection of the exhibitors and products that will be on display this year. For further information on the show and a full list of exhibitors go to www.pittcon.org

International Labmate look forward to welcoming you to booth 3737 at Pittcon 2015.

Direct contact is always better and what better place than Pittcon

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Adam Equipment is a leading designer and manufacturer of analytical and precision balances and scales for the lab, education, industrial, food, health/fitness, animal/veterinary and jewellery markets worldwide. Designed with intuitive features, products are built with the perfect balance of dependability and performance, facilitating everyday lab work and simplifying complex applications.



Founded in 1972 and headquartered in the United Kingdom, Adam's offices in the United States, South Africa, Australia and China form a global network to expeditiously deliver affordable products. Visit Adam Equipment during Pittcon, booth 3916. For more information about the company and its products, go to www.adamequipment.com

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Booth 3916

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Advantest's family of bench-top spectroscopy/imaging systems for the pharmaceutical R&D market use proprietary terahertz wave technology to acquire characteristic spectra based on crystalline structure and 3D images yielding tablet coating thickness and uniformity and the non-destructive detection of cracks and voids in the tablet core. The THz spectra are used to measure solid phase transitions and crystalline/amorphous composition, while the imaging experiments provide information on the strength properties of coatings and multilayer interfaces in tablets. The systems offer low operating costs and higher efficiencies in method development, lab research and product manufacturing.

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Air Science, LLC

Air Science, LLC will exhibit a selection of the company's extensive line of controlled air filtration and containment cabinets. On display will be the Purair Basic P5-36-XT, a high-efficiency 36" wide ductless fume hood designed to protect the user and the environment from hazardous vapours generated on the work surface. Exclusive Multiplex® filtration technology and a constant, globally compliant 100FPM face velocity airflow combine to maintain a safe environment over a range of chemical families without the need for external ducting. Additional products include Total Exhaust and Laminar Flow Hoods, Ductless Classroom Demonstration Workstations and Filtered/Vented Storage Cabinets.



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Booth 916-918

Analytical Flow Products

Analytical Flow Products was formed as a privately owned company involved in applied research,



manufacturing of high performance analytical hardware and development of innovative analytical methods. Founded in response to the need of OEMs and End Users for better quality products that come with a higher level of applications and technical support, providing a viable alternative to existing suppliers. The well-proven technology portfolio, driven by customer demands and needs for innovation (19 patents and patents pending in 7 years), shows a commitment for continuous improvement. Come see Analytical Flow Products at Booth 2853 for their new product release.

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Booth 2853

Argos Technologies, Inc

Argos is a manufacturer of consumable plasticware, liquid handling products, cryogenic storage solutions, and benchtop equipment for research laboratories.



The product range includes PolarSafe™ 2D Cryogenic Vials featuring O-ring free bi-material caps which provide a safe and secure seal for precious samples.

Lots of new products for 2015 including cardboard cryogenic boxes in 5 fun colours, and 2 absolutely innovative boxes to store PCR tubes. Come see their new PolarSafe™ Ice Buckets/Pans and Aluminium Cooling Blocks.

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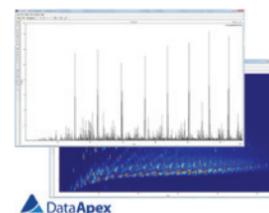
Chemical Abstracts Service (CAS), a division of the American Chemical Society, is the world's authority for chemical information. CAS is the only organisation in the world whose objective is to find, collect and organise all publicly disclosed substance information. A team of scientists worldwide curates and controls the quality of our databases, which are recognised as the most comprehensive and authoritative by chemical and pharmaceutical companies, universities, government organisations and patent offices around the world. By combining these databases with advanced search and analysis technologies (SciFinder® and STN®), CAS delivers the most current, complete, secure and interlinked digital information environment for scientific discovery.

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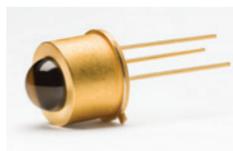
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Crystal IS
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Daylight Solutions, Inc

DAYLIGHT
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Pittcon continues to expand into food science and offers a significant amount of innovations and technical sessions relevant to methodologies used in this industry

LABMATE

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EquipNet is the world's most comprehensive surplus asset management company. The company are appraisers, brokers, and auctioneers of laboratory instrumentation and manufacturing equipment.

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ESS developed CapSure™ in the popular 'oblong' style with a wide mouth opening. CapSure also incorporates graduation in mL and ounces. For years, the environmental/analytical industry has had only two choices for inorganic sampling containers (that require chemical preservation); premium (expensive) leak-proof storage polys or low cost, low quality polys that would often leak preservative chemicals, such as nitric or sulphuric acid.

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For over 40 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, PEFTec, CEM and the AQE show and online platforms such as E-Bulletins, banner advertising and Electronic Direct Marketing.

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Mantech Inc manufactures solutions for water analysis laboratories and process facilities around the world; systems are designed to cater to the unique needs of the user, whether it is a simple pH system or a complex BOD and multi-parameter titration unit. Mantech strives to improve the water analysis sector and is constantly innovating.

Whether Mantech are developing new systems, such as the PeCOD® 15-minute COD analyser, or improving upon current methods of analysis, you can always count on them to provide robust hardware, easy to use software, and results that stand the test of time.

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LI-COR Biosciences

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Markes International's range of thermal desorption products, led by the flagship UNITY™ and TD-100™ thermal desorbers, have for well over a decade set the benchmark in the field for quality and reliability. The company's comprehensive portfolio of thermal desorption products also includes the widest range of consumables and sampling accessories on the market. Markes also manufactures the BenchTOF™ range of time-of-flight mass spectrometers for GC. Featuring award-winning Select-eV® variable-energy ion-source technology and TOF-DST™ software, the BenchTOF range exemplifies Markes' approach to its entire business – developing solutions from the ground up that allows its customers to meet analytical challenges with confidence.

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26% of attendees at Pittcon 2014 were from outside the United States

Memmert GmbH + Co. KG

Already in its third generation, Memmert has been developing and producing in Germany ovens, sterilisers, vacuum ovens, incubators, Peltier cooled incubators, compressor-cooled incubators, storage cooled incubators, CO₂ incubators, constant climate chambers, humidity chambers, climate chambers, environmental test chambers, waterbaths and oilbaths.



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Navas Instruments

Navas Instruments was formed in 1994. The company's goal is to design and provide the highest quality laboratory instruments



available at reasonable prices. With the combination of vast experience and technological knowledge, Navas Instruments can offer you instruments that automate the processes in research and development and quality control laboratories, thus reducing your operating time and cost.

Instruments comply with all ASTM standards. As a leader in macro thermogravimetric analysis technology, Navas Instruments bring a new standard in the analysis of moisture, volatile, ash and LOI and have eliminated time wasted waiting for traditional TGA technology to cool, reload, and reheat a small number of samples.

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NETZSCH

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Netzsch manufactures machinery for particle-size reduction, mixing, dispersing, kneading, de-aeration, classifying and laboratory technology. This includes the s-JET® 25 Laboratory-scale Steam Jet Mill, the ZETA® RS Nano Mill, the MINIMASTER Laboratory Disperser, and the MINICER® Laboratory Agitated Bead Mill.

Netzsch also provides parts, service, and upgrades on existing installations.

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BOD Bottles

Glassco introduces its new BOD bottles. These BOD bottles are for incubating diluted samples of clean water, waster water, effluent water and polluted water during the 5-day biochemical oxygen demand (BOD) test. These BOD bottles feature a flared mouth to form a water seal to prevent the ingress of air during incubation. The interchangeable stoppers have a tapered bot tom that also prevents air entrapment.

The stopper joint with BOD bottles is compatible with the probes of leading BOD and DO meters. Bottles have large, permanent marking squares. Featuring the best quality of glass on the market, BOD bottles are manufactured from high-quality Borosilicate tubing; this type of glass makes them much less susceptible to etching when compared to traditional BOD bottles.

Bottles meet ASTM E-438 Type 1, Class A Borosilicate Glass specifications. These bottles come in numbered and un-numbered version and also in penny head or robotic stopper.

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We are pleased to introduce our 2015 edition of glassware catalogue. This catalogue covers more than 2400 different kind of glassware. In this new catalogue we have introduced the whole range of ASTM STANDARD GLASSWARE and are the only company in the world offering DIN, ISO and ASTM standard glassware from one production facility.

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We invite you to visit us at Pittcon booth number 1305 from 9th to 12th March in New Orleans.

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- Measuring Cylinders come in two forms (TC) "TO CONTAIN " and (TD) "TO DELIVERY".
- Graduated pipettes comes in two forms Mohr and Serological.
- All information printed on the product such as Volume, Accuracy, ASTM STANDARD in High Quality White Ceramic Print.



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4117

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