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www.analytica.de



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Press Release

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Trends in Analytics: Digitization, detecting novel pollutants and more

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From material testing to environmental monitoring: At the analytica, companies and research institutions from all over the world present their latest developments. A glance at the key aspects of the international leading trade fair for laboratory technology, analysis and biotechnology shows: Here, trade fair visitors experience technological innovations as well as the latest devices and industry trends.

Susanne Grödl, Exhibition Director of the analytica, on these trends: “The innovative power of the industry is unbroken. And that is a good thing too, because sophisticated analytical methods form the basis for technological progress, in in pharmaceutical research and many other areas. Nowhere are the manufacturers of analytical, bio and laboratory technology demonstrating more clearly than at the analytica that they meet these requirements.”

Whether new tools for evaluating Big Data, or networked devices that can be controlled via app: The digital transformation is inspiring all analytical disciplines from industrial process monitoring to food and environmental monitoring. The analytica 2018 therefore picks up on the megatrend of digitization in a variety of ways. In addition to the successful forums Biotech and Laboratory & Analysis, there is now the Forum Digital Transformation with application-related expert lectures and discussion panels. The handling of rising throughput volumes and the ever-increasing flood of data are likewise unifying themes in the program of the analytica conference.

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Material and process analytics: Imaging on the upswing

The trend towards devices that combine various measurement methods is also continuing. Raman imaging in particular is still on the rise. Exhibitors such as WITec and Jasco combine chemical analysis by Raman spectroscopy with optical information from microscopy. Leica Microsystems, on the other hand, provides light microscopy with a module for laser-induced plasma spectroscopy. This also enables imaging and chemical characterization in one step – handy, for example, in particle analysis.

In any case, Raman analyzers are playing an increasingly important role in industrial material and quality control, as they work non-destructively. A Raman spectrometer by B&W Tek analyzes materials even through packaging materials. Renishaw, in turn, has developed a device specifically for the pharmaceutical industry: It combines surface texture analysis with chemical analysis to reveal the distribution of active ingredients and other particles within a tablet. The method is suitable for quality control as well as for development of the optimal formulation of medicines.

For non-contact industrial process and quality control, there is also the relatively young terahertz technique available, which uses radiation in the frequency range between microwaves and infrared light. Terahertz radiation is much lower in energy than X-rays are, and therefore not harmful to health. Nevertheless, it penetrates many non-metallic packaging materials. At the analytica, TOPTICA Photonics will present a terahertz system that rays objects on fast-moving conveyor belts. Among other things, absence of information leaflets in drug packages can thus be recognized.

Detecting novel pollutants

Detecting unknown pollutants instead of just measuring already regulated substances: Food and environmental analysts are increasingly pursuing this goal. At the analytica, they will find the complete equipment for so-called non-target analytics and suspect screening – starting with accessories and devices for bioassays, with which adverse effects on the environment and health can be estimated, up to high-resolution mass spectrometers for identification of unknown substances.



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An example of chemicals that are currently attracting much attention in both food and environmental analysis are poly- and perfluorinated compounds. They are found in disposable coffee mugs as well as in fire-extinguishing agents and many other products. Measuring them is a challenge, as there are still no reference standards for most members of this large class of substances. The exhibitor a1-environsciences therefore couples high-temperature digestion to ion chromatography and determines organic fluorine compounds as sum parameters. The analytica conference informs about further methods for the analysis of fluorinated substances in a separate session.

Cannabis analytics, neutron imaging, and more

The above novelties show only a small part of the analytica's wide spectrum. As you walk through the halls, you encounter solutions for all kinds of analytical challenges. For drug analysts, Shimadzu has developed a cannabis analyzer; for life scientists, Thermo Fisher Scientific will present an orbitrap GC-MS system with associated metabolomics library, and for material scientists and archaeologists, the neutron imager at the Photonis booth will be of interest.

About analytica

analytica is the international trade fair for laboratory technology, analysis and biotechnology and their users in research and industry. The trade fair is accompanied by the analytica conference, where the international scientific elite meets to discuss the latest topics that pertain to chemistry, biochemistry and laboratory medicine. A total of 35,002 visitors and 1,244 exhibitors took part in analytica in 2016. analytica has been held in Munich every two years since 1968. The next analytica takes place from April 10 to 13, 2018.

analytica worldwide

Messe München is the world's leading trade fair organizer for laboratory technology, analysis and biotechnology: Part of the analytica network are also the trade fairs analytica China, analytica Anacon India and India Lab Expo, analytica Vietnam and analytica Lab Africa.

Messe München

Messe München is one of the leading exhibition organizers worldwide with more than 50 of its own trade shows for capital goods, consumer goods and new technologies. Every year, a total of over 50,000 exhibitors and around three million visitors take part in more than 200 events at the exhibition center in Munich, at the ICM – Internationales Congress Center München and the MOC Veranstaltungszentrum München as well as abroad. Together with its subsidiary companies, Messe München organizes trade shows in China, India, Brazil, Russia, Turkey, South Africa, Nigeria, Vietnam and Iran. With a network of associated companies in Europe, Asia, Africa and South America as well as around 70 representations abroad for over 100 countries, Messe München has a global presence.