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Press Release

analytica 2022: Analytics that benefit consumer and environmental protection

- **Focus on nanoplastics and perfluorinated contaminants**
- **Fingerprinting methods in the food laboratory**
- **Trend topic of foodomics at the analytica conference**

Is that asparagus really local? Has the honey been diluted with cheap sugar? Does your mineral water contain nanoplastics or other pollutants? “analytica provides food inspectors with all the tools they need to answer these questions quickly and reliably,” says Armin Wittmann, analytica Exhibition director at Messe München. At the world's leading trade fair for laboratory technology, analytics and biotechnology, which will be held in Munich from June 21 to 24, more than 50 exhibitors will showcase innovations in the field of food analytics and safety. With nearly 70 exhibitors, environmental analytics will be another focal point. Because contaminants often enter our food from polluted waters and soils, food and environmental analytics are closely linked.

New contaminants: nanoplastics and PFAS

Environmental laboratories were initially the only ones investigating micro and nanoplastics, but food analysts are now involved, too. Recently, the tiny particles have even been detected in our blood. In addition to their composition, the size and shape of the particles also play a role in their impact. FT-IR and Raman microscopes combine chemical analytics and imaging to simultaneously determine all parameters. The latest on these and other methods will be presented at the analytica's Nanoplastics session (June 22 from 9:30 to 11:30 a.m. in ICM/Hall 4b). analytica exhibitors such as Thermo Fisher, Bruker, Agilent, Horiba, Renishaw and Keyence will present the relevant equipment.

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Perfluorinated alkyl substances (PFAS) are also gaining more attention. The extremely long-lasting chemicals, found in products ranging from parchment paper to outdoor clothing, have already been found in a variety of foods. At analytica, Gerstel will present an automated analysis system that can detect as little as a few nanograms of PFAS in a liter of water. Many other analytica exhibitors, including Agilent, Analytik Jena, Merck, Waters and Shimadzu, have customized instruments for PFAS analytics in their portfolios. The analytica conference will address PFAS in two presentations (June 22 at 1:30 p.m. in ICM/Hall 3 and June 23 at 1:30 p.m. in ICM/Hall 5).

Fingerprinting for food

In a globalized food market, now also impacted by shortages and price increases, there is an increased risk of false claims. The systems from analytica exhibitor Elementar use isotope ratio mass spectrometry to detect food falsifications such as added water in natural juices and the origin of items such as olive oil and asparagus. The isotopic signature of common elements such as hydrogen, carbon and oxygen serves as a fingerprint that exposes the place of origin, additives and cultivation methods – organic or not. DNA analysis is also helpful in exposing falsifications such as the presence of horsemeat in prepared foods. With refined DNA fingerprinting from analytica exhibitor Eurofins, commodity inspectors can even distinguish basmati rice from other rice varieties.

The importance of bioanalytics in the food industry is also reflected in the emerging field of foodomics, which combines genomics, proteomics and all other omics technologies. The analytica conference will address this trend topic in two sessions (June 21 from 12:30 to 2:30 p.m. in ICM/Hall 4b and June 22 from 9:30 to 11:30 a.m. in ICM/Hall 2). Among other things, the agenda will include using NMR spectroscopy to verify the authenticity of honey.

In close cooperation with researchers and users, instrument manufacturers are continuously refining their systems for food and environmental analytics. Armin Wittmann points out: “Our goal with analytica is to make it easier for all involved to exchange ideas and initiate further collaboration so that laboratories can continue to meet the increasing demands in the future.”



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Further information: analytica.de/en

You can find this press release for download including press pictures at analytica.de/en/press/newsroom

Please note: For the first time ever, analytica 2022 will take place at the same time as automatica, the leading trade fair for intelligent automation and robotics, and ceramitec, the international meeting place for the ceramics industry. All exhibitor and visitor tickets for analytica allow entry to the two other trade fairs taking place at the same time.

About analytica

analytica is the world's leading trade fair for the laboratory technology, analysis and biotechnology industries and their users in research and business. The trade fair will be complemented by the analytica conference, where the international scientific elite meet for discussion of current topics in chemistry, biochemistry and laboratory medicine. At the analytica 2018, there were 35,626 visitors and 1,168 exhibitors. Since 1968, analytica has been held biannually in Munich. After being held very successfully in a digital-only format in 2020, the next live event will run from June 21–24, 2022.

analytica worldwide

Messe München is the world's leading trade fair organizer for laboratory technology, analysis and biotechnology: The analytica network comprises – in addition to the world's leading trade fair analytica – analytica China, analytica Anacon India with India Lab Expo and analytica Vietnam.

About 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, the Conference Center Nord and the MOC Veranstaltungszentrum München as well as abroad. Together with its subsidiary companies, Messe München organizes trade shows in China, India, Brazil, South Africa and Turkey. 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.