



Munich, December 12, 2023

Press Release

analytica 2024: On the path to the zero-carbon lab

- **Energy-efficient devices for more sustainability in the laboratory**
- **Alternatives to scarce helium, and environmentally friendly consumables**
- **Less waste thanks to miniaturization and the like**

From analytics in mini format with reduced solvent requirements to energy-efficient laboratory technology: at analytica, the Green Lab becomes reality. Exhibitors from all over the world will be presenting their innovations and sustainability concepts in Munich from April 9 to 12, 2024. "With analytica, we want to help reduce energy and resource requirements as well as the amount of waste generated in the laboratory," says Armin Wittmann, Exhibition Director for analytica at Messe München. "analytica brings all the players together and points the way to the green laboratory."

Put an end to power-hungry appliances

Laboratories have significantly higher energy consumption than office and residential buildings. For example, a freezer that cools samples to minus 80 degrees Celsius consumes as much energy over the course of a year as a detached house. But that needn't be the case. At analytica, well-known manufacturers of refrigeration appliances, including Fryka, Huber, Lauda and Liebherr, will be providing information on the latest developments in refrigeration technology. Energy-efficient appliances with vacuum insulation, optimized sealing systems and natural refrigerants that contribute neither to the hole in the ozone layer nor to climate change ensure sustainable cooling in the laboratory. Other laboratory technology, from fume cupboards to centrifuges, also often leaves a lot to be desired in terms of energy efficiency. For laboratories wishing to identify potential savings, analytica exhibitor Waldner offers a Green Lab

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consultation. It recognizes the biggest power guzzlers and supports laboratories in the transition to “zero carbon”.

Green chemicals and laboratory utensils

However, sustainability in the laboratory starts not with the equipment, but with the chemicals and consumables. Anyone looking for an environmentally friendly alternative to questionable reagents and solvents will find competent advice at analytica at the stands of chemical suppliers such as AppliChem, Carlo Erba, Merck und Roth. It is also possible to clarify whether and how a particular analysis method can be converted to more sustainable chemicals in discussions with the application specialists at the equipment manufacturers.

In the case of helium, alternatives are needed, as the noble gas is becoming scarce and increasingly expensive. This is already a real issue for analytical laboratories that require high-purity helium as a carrier gas for gas chromatography, among other things. Special gas filters allow the use of less expensive helium with a lower degree of purity. Systems from analytica exhibitors such as Agilent and Shimadzu also already have helium-saving device settings or are able to be operated with alternative gases such as hydrogen. The enormous demand for consumer goods made from fossil plastic is also no longer in keeping with the times. Gloves and some other items may be reusable, but what alternative is there to laboratory utensils with direct sample contact? analytica exhibitor Eppendorf now offers pipette tips, tubes and PCR plates made from bio-based plastics to reduce the carbon footprint.

Less waste thanks to miniaturization and the like

The trend towards miniaturization also conserves valuable resources, as analytical devices that process samples in the microlitre range or below consume significantly fewer reagents and solvents. In some cases, non-contact analysis is even possible without the need for any chemicals, for example with the Raman spectrometers in the portfolio of analytica exhibitors such as analyticon, Anton Paar, Bruker, Horiba, Metrohm and Mettler Toledo. Whether Raman spectrometers or other analytical devices: Most manufacturers offer repair and maintenance services as well as options



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for the expansion or return of devices. “Users and manufacturers meet at analytica to coordinate their offerings and individual requirements. This is important for bringing about greater sustainability in the laboratory, because when everyone pulls together, it is easier to break away from established routines,” emphasizes Susanne Grödl, Deputy Exhibition Director of analytica.

analytica showcases the entire spectrum of analytical, bio and laboratory technology. With the combination of trade fair, analytica conference and extensive supporting program, it offers numerous tips and inspiration for increasing sustainability in the laboratory.

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

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. Since 1968, analytica has been held biannually in Munich. The next event will take place from April 9–12, 2024.

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, analytica Vietnam and analytica Lab Africa.

About Messe München

As one of the world’s leading trade fair organizers, Messe München presents the world of tomorrow at its more than 80 trade fairs worldwide. These include eleven of the world’s leading trade fairs such as bauma, BAU, IFAT, electronica, and ISPO. Messe München’s portfolio comprises trade fairs for capital and consumer goods, as well as for new technologies. Together with its subsidiaries, it organizes trade fairs in China, India, Brazil, South Africa, Turkey, Singapore, Vietnam, Hong Kong, Thailand, and the U.S. With a network of more than 15 affiliated companies and almost 70 representations worldwide, Messe München is active in more than 130 countries. The more than 150 events held annually attract around 50,000 exhibitors and around three million visitors in Germany and abroad.