

26. Internationale Leitmesse für Labortechnik, Analytik,  
Biotechnologie und analytica conference  
10.–13. April 2018, Messe München

26th International Trade Fair for Laboratory Technology, Analysis,  
Biotechnology and analytica conference  
April 10–13, 2018, Messe München, Germany

[www.analytica.de](http://www.analytica.de)



analytica

Munich, February 22, 2018

## Press Release

### **New approaches to microplastics analysis at the analytica conference 2018**

Current issues and approaches to solving problems in analytics will be the focus of the analytica conference in Munich from April 10 to 12, 2018. In 45 sessions, experts report on application-related findings from their research – such as new, more reliable approaches to the analysis of microplastics in water. The scientific program of the analytica conference is organized by Forum Analytik, consisting of the Association of German Chemists (Gesellschaft Deutscher Chemiker, GDCh), the Society for Biochemistry and Molecular Biology (Gesellschaft für Biochemie und Molekularbiologie, GBM) and the German Society for Clinical Chemistry and Laboratory Medicine (Deutsche Gesellschaft für Klinische Chemie und Laboratoriumsmedizin, DGKL). The analytica conference takes place in the context of the analytica, the leading international trade fair for analytics, laboratory technology and biotechnology, on the grounds of Messe München.

Modern analytical methods reveal problems that our industrialized world brings about: Plastics, made up of polymers, are becoming ever more popular. Due to low production costs, there are increasing numbers of disposable items made of plastics, which then – if the recycling systems or the waste disposal fail – enter the environment. There, the polymer particles are subject to physical and chemical weathering. Smaller and smaller particles are formed, which are finally only a few micrometers in size. Many such particles, known as microplastics, end up in aquatic systems and eventually in the oceans.

The analysis of microplastics poses some challenges. After sampling, the microplastics particles must first be separated from the much more abundant natural particles. The remaining particles must be correctly analyzed for polymer

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type, number of particles, size and even shape. Initial approaches that evaluated the particles produced highly distorted results. Therefore, three alternative approaches have been developed further to better meet the requirements of microplastics analysis in water: FTIR, Raman and pyrolysis–GC-MS methods. All three approaches will be presented by experts during the session, and their advantages and weaknesses will be discussed.

The analytica conference accompanies the 26<sup>th</sup> analytica, the leading international trade fair for laboratory technology, analytics and biotechnology, from April 10 to 13, 2018, in Munich. The conference will take place at the ICM – International Congress Center Munich, on the fairgrounds of Messe München. Other sessions will focus, among other things, on the use of analytical methods in food chemistry and toxicology, as well as on the handling of big data. Admission is free for visitors of analytica. The joint booth of Forum Analytik will be located in Hall B2, № 504.

**The current program for the analytica conference is available at**

[www.gdch.de/analyticaconf2018](http://www.gdch.de/analyticaconf2018) or in the event database at

[www.analytica.de/conference](http://www.analytica.de/conference).

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**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.



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**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.