

Press release

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The new Empyrean - a revolution in the world of X-ray diffraction

Malvern Panalytical's new multipurpose X-ray diffraction platform

2 July 2018, Almelo, the Netherlands: This year's European Powder Diffraction Conference (EPDIC16) is the stage for Malvern Panalytical's new Empyrean platform – an instrument that redefines the concept of multipurpose X-ray diffraction. Users who want to maximize the utilization of their diffractometer or minimize time spent for training or wasted on faulty measurements will profit from this third generation of Malvern Panalytical's renowned system.

The new Empyrean is the first fully automated multipurpose X-ray diffractometer, allowing a wide variety of measurements without manual intervention. The newly developed MultiCore Optics, featuring iCore and dCore, are taking over and ensure easy automatic switching between configurations. There is no need for the instrument to pause during nights or weekends, waiting for an operator to switch optics. Instead, preprogrammed batches of samples can be measured without intervention.

The easy access to measuring routines considerably reduces the time needed for training of students or operators and reduces chances for errors even at more advanced applications. Expert users, however, will still be able to perform specialized advanced measurements by employing specific optics, which can be fine-tuned to obtain the best possible data. Malvern Panalytical's proprietary renowned pre-aligned fast interchangeable X-ray modules (PreFIX) allow an easy exchange of those optics without the need for re-alignment. As an additional benefit, all optics are now automatically recognized by the system, simplifying the exchange and eliminating errors due to wrong reporting of measurement conditions.

Fabio Masiello, Malvern Panalytical Product Manager Empyrean, is very clear about the new Empyrean's advantages: "The simplicity and accessibility delivered by the MultiCore Optics on our new Empyrean could increase utilization of diffractometers in the lab by around 35% and they help even unexperienced users to achieve good X-ray diffraction data. Anyone who thought that X-ray diffraction would only be for the experienced researcher can now perform advanced experiments with less chance for errors". Fabio will demonstrate the revolutionary features of the new Empyrean at EPDIC and answer the audience's questions.

Visit <http://www.malvernpanalytical.com/Empyrean> for more information.

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Caption: The 3rd generation of Empyrean - Malvern Panalytical's multipurpose X-ray diffraction platform

Note to the editor

Malvern Panalytical technologies are used by scientists and engineers in a wide range of industries and organizations to solve the challenges associated with maximizing productivity, developing better quality products and getting them to market faster. Our mission is to create superior, customer-focused solutions and services to deliver tangible economic impact through chemical, physical and structural analysis of materials.

Underpinned by extensive industry knowledge and technical and applications expertise, Malvern Panalytical instruments help users better understand a wide variety of materials, from proteins and polymers to metals and building materials. Our technologies enable the measurement of parameters such as particle size, shape and zeta potential, biomolecular interactions and stability, rheological properties, elemental concentrations and crystallographic structure. Highly reliable and robust characterization of these properties is fundamental to predicting how a product will behave during use, to optimizing its performance and achieving manufacturing excellence.

Malvern Panalytical was formed by the merger of the businesses Malvern Instruments and PANalytical, including the companies ASD and Claisse, on 1st January 2017, and employs over 2,000 people worldwide. With R&D and manufacturing sites in North America, Europe and China and a global sales and service presence, we provide unrivalled levels of customer support. Malvern Panalytical is a strong player and innovator in the materials characterization market, providing expert solutions for superior actionable insight.



Malvern Panalytical is part of Spectris plc, the productivity-enhancing instruments and controls company.

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