

LUM-Press release

LUM as a valued partner of the filtration and separation industry at FILTECH

Berlin, 30 January 2023: FILTECH is the largest and most important filtration show world-wide. FILTECH 2023 will feature 440+ Exhibitors and a major international conference. The innovative power in the field of filtration and separation is strong. For solids separation and solid-liquid separation there are always new developments with the striving for maximum efficiency and higher qualities [1].

The LUM GmbH under the direction of the managing director Prof. Dr. Dr. Dietmar Lerche, appointed to the editorial board of F&S Filtrieren und Separieren in 2022, has been supporting research and industry since 1998 with innovative measuring devices for the characterization of solid-liquid and liquid-liquid separation. His focus is always on the scientific contribution to the further development of the subject areas. This year, Prof. Lerche was again appointed to the scientific committee of FILTECH to scientifically coordinate and accompany the further development of filtration and separation.

Prof. Lerche and other LUM experts share their knowledge, particularly in the field of filter centrifuges and hydrocyclones, *Numerical and experimental investigation of the particle segregation during centrifugal filtration*, F. Krull et al., L-07, and *Membrane characterization by analytical multisample photo-centrifugal filtration (ACF)*, P. Lösch et al., F03 / M03.

The appropriate measuring device LUMiSizer® for analytical centrifugal filtration (ACF) will be exhibited in hall 8 at booth A 52. The current further developments of the ACF method, which was presented for the first time in 2019, include in particular the applicability in industry. In biotechnology and nanotechnology, they enable an alternative method for the effective and rapid quantification of filter media and membranes, compared to the time-consuming and material-intensive, and therefore expensive, conventional nutsche filtration.

With the exhibited LUMiSpoc®, a highly developed single particle analysis system, similar to a flow cytometer, the particle size distribution and particle concentration of nano- and microparticles in suspensions and emulsions are determined with unprecedented resolution and a very large dynamic range in just a few minutes. The LUMiSpoc analyzes multimodal as well as very polydisperse real particle suspensions, determines the smallest size differences down to the nanometer range and thus also enables new standards in filter testing and particle characterization in aqueous media.

[1] www.filtech.de 10.1.2023 11:31

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