BioSpectrum the business of Bio & Health Sciences

Waters addresses increasing demands for higher performing materials

22 March 2019 | News

Waters spotlights biopharmaceutical solutions with Pittcon debut of the BioAccord System

Waters Corporation has announced the availability of a range of new TA Instruments™ innovations headlined by the Discovery™ Thermomechanical Analyzer (TMA) 450, a Rheo-Raman™ capability for the Discovery Hybrid Rheometer, and a High Sensitivity Pressure Cell for the ARES-G2 Rheometer at the 2019 Pittcon Conference and Expo.

The Discovery Thermomechanical Analyzer TMA 450 precisely measures dimensional changes of materials from -150 to 1000°C with unparalleled sensitivity and reproducibility. Outfitted with a wide range of fixtures, the TMA 450 handles virtually all sample configurations for testing in expansion, compression, flexure and tension modes. Operation is simplified with ease-of-use features such as the new app-style touch screen interface with One-Touch-Away™ functionality and powerful TRIOS™ software.

The new Rheo-Raman™ Accessory for the Discovery Hybrid Rheometer (DHR) product line combines a Raman spectrometer with the DHR to enable simultaneous collection of rheology and Raman spectroscopy data. This combination allows for direct correlation between flow characteristics and the unique spectroscopic fingerprints of each material including information about its chemical and morphological structure.

The DHR Rheo-Raman Accessory integrates with an iXRTM Raman Spectrometer from Thermo Fisher ScientificTM to provide a turnkey system for spectroscopic investigation of materials.

The new High Sensitivity Pressure Cell for their ARES-G2 Rheometer enables scientists to perform sensitive viscoelastic

measurements under controlled atmospheric pressure and temperature and for the first time, gain detailed understanding of complex fluid behavior in complex environments.

Also making its Pittcon debut is the recently introduced BioAccord™ System, a purposefully designed liquid chromatography-mass spectrometry solution that will expand access to high-resolution time-of-flight mass spectrometry capabilities to more scientists.