A LIDEN ISOCHEMA NEWSLETTER SOCHEMA NEWSLETTER

"Hiden has been an excellent company to work with and offers outstanding equipment and technical service. My students are accurately measuring gas and vapor solubility in advanced materials such as ionic liquids, zeolites and carbons using Hiden's instruments which are leading to new discoveries."



CELEBRATING 15 YEARS OF SUCCESSFUL COLLABORATION

Professor Mark Shiflett, Foundation Distinguished Professor in the Department of Chemical and Petroleum Engineering at the University of Kansas, recently visited the head office of Hiden Isochema, to mark 15 years of successful collaboration.

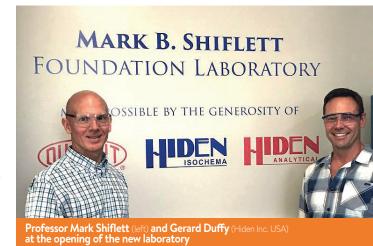
In early September, Prof. Shiflett attended the 21st European Conference on Thermophysical Properties in Graz, Austria, to give an invited talk on 'lonic Liquids – Phase

Behavior to Applications.' We were very pleased that Prof. Shiflett then chose to extend his stay in Europe to visit us here in Warrington to discuss our continued collaboration that has so far lasted 15 years.

During his visit, we gave Prof. Shiflett a tour of our facilities, which allowed a detailed discussion of how we could further develop the strong links between the new

Shiflett Foundation Laboratory at the University of Kansas and Hiden Isochema. We were honoured to be able to help Prof. Shiflett establish his new laboratory, which is based within the Center for Environmentally Beneficial Catalysis (CEBC).

The CEBC focuses on green chemistry and the application of



green engineering principles. Its aims are to develop cost-effective processes to produce chemicals needed by a variety of industries, whilst striving to reduce waste and



Dr Mark Roper (Hiden Isochema) demonstrates the IMI analyzer to Professor Mark Shiflett

conserve natural resources. Hiden Isochema gravimetric sorption analyzers aid these efforts by allowing the thermodynamic and kinetic characterization of gas and vapor interactions with ionic liquids and solid sorbents, such as zeolites and porous carbons.

Prof. Shiflett was appointed to his current position at the University of Kansas last year, following 28 extremely successful years at DuPont. He holds 44 US patents and is author of over 75 academic publications, 30 of which report data measured using Hiden Isochema gravimetric sorption analyzers. He has received a





number of awards, including the 2016 AIChE Industrial Research and Development Award for developing non-ozone depleting refrigerants, which have led to the healing of the earth's ozone layer, and he is also a Fellow of the AIChE. We feel privileged to be able to support Prof. Shiflett in his continued efforts to develop new technologies that will have real world impact.

To find out more about how our instruments could help you achieve your own research goals, please do not hesitate to contact us at info@hidenisochema.com.

"We are delighted to have the opportunity to continue working with Professor Shiflett and to help establish the Shiflett Foundation Laboratory at The University of Kansas. Our ongoing collaboration will help further develop our business and raise the profile of Hiden sorption analyzers both in the U.S. and internationally."



PUBLICATION ROUND-UP

Wood

Short hold times in dynamic vapor sorption measurements mischaracterize the equilibrium moisture content of wood

MOFs

Porous Metal-Organic Polyhedral Frameworks with Optimal

Molecular Dynamics and Pore Geometry for Methane Storage