

American Council of Independent Laboratories

# Industry Insights

Industry Information Provided for ACIL Members from ACIL Members

# ACIL

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**Waters**  
THE SCIENCE OF  
WHAT'S POSSIBLE.™

## What's Hot?

# SAVE THE DATE!

# ACIL F<sup>2</sup> CONFERENCE

## ACIL's 2013 Policies and Practices (F<sup>2</sup>) Conference March 20 - 21, 2013

**Doubletree Hotel - Crystal City**  
300 Army Navy Drive  
Arlington, VA 22202  
(703) 416-4100

**Registration Fee:**  
\$395 (Members)  
\$495 (Non-Members)  
**Room Rate: \$219/night**

Join us for this annual event in our Nation's capital, combining government relations and business practices educational sessions to give you double the bang for your buck! Starting at noon on Wednesday, March 20<sup>th</sup> with a public affairs luncheon speaker, we follow with section meetings

and section-specific programming. On Thursday, we provide business practices education, including another member-driven roundtable due to its popularity at the annual meeting. We reserve Thursday afternoon for visits to Capitol Hill or the regulatory agencies as requested and arranged by ACIL staff. Hope to see you there!

1875 I Street NW, Suite 500 - Washington DC, 20006  
www.acil.org • 202.887.5872

ACIL 2013 Annual Meeting • October 6-9  
Scottsdale, AZ

## Centurion WS Purge and Trap Autosampler

The Centurion WS Purge and Trap Autosampler is the number one selling water/soil system available today due to its reliability and features to improve productivity. Designed to work with any purge and trap concentrator, the system provides reduced carryover, programmable Internal Standard, fast rinsing, dilutions up to 400:1 (optional) and a robust XYZ platform that is designed to take a beating, the Centurion WS is the workhorse of any laboratory. For more information, please contact us at est@estanalytical.com or visit our website at www.estanalytical.com.



## What's New?

### New GC Column Separates all EFSA PAH4 Priority Compounds

Restek has developed a GC column specifically for the analysis of polycyclic aromatic hydrocarbons (PAH) in food safety and environmental samples.

# RESTEK

The new Rxi®-PAH column features a higher phenyl-content stationary phase that provides a unique selectivity to separate important PAHs that cannot be distinguished by mass spectrometry. Even difficult priority compounds, such as the European Food Safety Authority (EFSA) PAH4, are easily separated and accurately quantified, results that cannot be achieved on typical GC columns. The selectivity and efficiency of the

Rxi®-PAH column make it ideal for EFSA PAH4 analysis; chrysene triphenylene separation and resolution of all benzofluoranthenes are easily achieved. Excellent column efficiency means critical PAH separations can be maintained when the column is trimmed. In addition, the rugged,

arylene-modified stationary phase is stable up to 360 °C, which ensures that relatively nonvolatile, higher molecular weight PAHs, such as dibenzo pyrenes, can be analyzed routinely without interference from column bleed.

Separation of benz[a]anthracene, chrysene, benzo[b]fluoranthene, benzo[a]pyrene, and other PAH compounds make Rxi®-PAH columns ideal for EFSA PAH4 analysis, as well as other environmental and food safety testing.

Visit [www.restek.com/rxi-pah](http://www.restek.com/rxi-pah) for product details.

## Tech/White Papers

### RSK-175 Standard Operating Procedure (SOP)

The RSK-175 Standard Operating Procedure (SOP) was developed in order to determine the amount of dissolved gas in water. Due to the expansion of natural gas drilling through horizontal drilling and hydraulic fracturing, there has been increased interest in this procedure. The RSK-175 SOP involves some manual preparation of the water samples before the water can be analyzed. Since the manual preparation is very time consuming, there has been increased interest in automating sample preparation for this analysis. This article will evaluate an automated sample preparation technique of dissolved gases in water using EST Analytical's LGX50



[Read More](#)

### Improving the Efficiency and Accuracy when Extracting Semi-Volatile Organics in Drinking Water by Method 525.2

EPA Method 525 was first promulgated in 1988 and, has since come to be the de-facto standard to measure a wide range of semi-volatile organic compounds in drinking water. In 1995, the EPA issued Revision 2 of the 525



method. With the advances in both chemical knowledge and instrumentation since this time, it has now become possible to improve the recovery of the compounds given in the 525.2 method.

[Read More](#)

## Product Showcase

### SPEX CertiPrep LC/MS Standards

SPEX CertiPrep proudly offers accurate, high quality and reliable LC/MS Standards. The Standards are accredited by A2LA to ISO Guide 34:2009 and ISO 17025:2005 and certified by UL-DQS to ISO 9001:2008. Available Standards include stock Check Standards such as reserpine, caffeine and 4-nitrophenol or hundreds of Single Component Catalog LC/MS Standards. In addition, Custom Standards can be manufactured to meet specific customer needs.



NEW! LC/MS Single and Custom Standards  
[www.spexcprep.com/customorganics](http://www.spexcprep.com/customorganics) SPEXorganic

LC/MS expands the analytical range of compounds significantly. The LC/MS ability to analyze thermal labile and higher molecular weight compounds makes LC/MS a versatile tool for both the chemical and life sciences fields. Routine LC/MS analysis quantitates compounds in the low parts per million range to the parts per billion range, while some technologically advanced LC/MS systems quantitate select compounds to the parts per trillion range. SPEX CertiPrep provides the quality Standards needed to calibrate and verify systems to ensure accurate analytical results.

[www.spexcprep.com](http://www.spexcprep.com)

### The FREESTYLE system, it couldn't be more flexible



The new FREESTYLE system is the most adaptable robotic equipment for sample preparation currently available on the market. Freestyle is a workstation platform for many automated sample clean-up tasks. Available automated features are Solid Phase Extraction (SPE), Gel Permeation Chromatography (GPC), Evaporations and Concentrations (EVA), and liquid handling routines. The basic workstation begins with a liquid handling robot, software and rack space to add components to build the configuration to handle your sample clean-up needs. Add modules to add the functionality you need to simplify sample clean-up and/or concentration. Automating your sample clean-up eliminates inconsistencies and errors that require expensive rework. Laboratory productivity is significantly higher as the higher value work can be performed while the system works unattended. Your team is made safer with reduced exposure to health and safety issues inherent to repetitive motion or chemical exposures.



For more information, please check out: [www.freestyle-robotic.com](http://www.freestyle-robotic.com).

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