# High Performance

## How to get the most out of your GC or LC instrument

**Seminar Tour Presented by Agilent Technologies • www.agilent.com/chem/Optimize**

## Seminar Topics and Descriptions

### Hi Res Fast LC – Easier Than You Imagine

Whether you develop HPLC methods, run QC samples or run LC samples for a fee, longer analysis time costs you more in lab resources. FAST LC columns allows you to cut costs and make more money running these samples. We will present easy-to-follow steps for fast conversion of existing methods and easy-to-adopt steps for developing faster methods on your existing equipment. Pressure requirements, flow rates and gradient modifications are key parts of the discussion of how this technology is used for the real LC world. When you leave this presentation you will have reviewed the column choices, the technology that makes each choice work and be able to decide which fits your lab best. Whether you want to reduce a one-hour method to 10 minutes or a 10 minute method to 2 minutes there will be useful information to take back and implement in your lab right now.

### Hi Res Fast LC – Great Idea, But What Will I have to Change?

Hi Res LC columns are the tools you need for your lab. The BIG question is, "What do you need to do and how much do you need to spend to make this work in your lab?" Surprisingly little needs to be done for many methods. The column technology offers choices that often only require a column change to cut time by a factor of 2 or 3. These Hi Res Fast columns do generate sharper peaks that require an optimized LC system. We will go through a logical look at your goals, the system improvements needed to get the performance you require and show you where, how and when to adjust flow path connections, detector data acquisition rates and system volumes to get the best performance with your existing systems. For those of you that want the fastest run times (<2 minutes injection to injection) there will be a discussion of when and why to consider enhanced UHPLC systems for ultimate performance.

### Sample Preparation – What You Don't See . . . CAN Hurt You!

State-of-the-art instrumentation has rendered the need for thorough sample prep all but obsolete...or has it? We will discuss the impact dirty samples have on all of your analytical system components and easy strategies to eliminate the worst offenders. Both GC and LC issues will be addressed. Bring us your sample prep challenge for our panel discussion! We will also provide you with method optimization tools to improve your solid phase extraction methods and tips to select the right sample prep technique for your application.

### Ask The Experts Q&A Sessions:

This is your opportunity to ask our Agilent GC, LC and Sample Prep experts questions about the best use of GC and LC in your lab. We strongly encourage you to bring to us your issues that are challenging you in the lab. Whether you have a contamination you can't seem to identify, a challenging chromatogram, or perhaps tips on how to speed up an analysis that is taking too long, our Agilent Application Scientists will do their best to help you. Either submit questions at registration or bring with you to the seminar.

### Time Is Money – Learn How To Speed Up Your GC Analysis

Speeding up your overall analysis time doesn't only involve the actual run time but includes sample introduction and instrument equilibration between analyses. Learn not only what you can do to speed up the chromatographic run but what can be done in these other areas of concern. This talk will focus on the dimensions of the GC column, carrier gas choice and settings, as well as some of the new devices available for speeding up analyses like Low Thermal Mass GC and Capillary Flow Technology for backflushing.

### GC Resolution: Do You See What I See?

Better resolution can be the key for some analysts. That may mean getting higher efficiency, better separation or maybe two-dimensional chromatography or perhaps just optimizing the existing chromatographic settings. Our GC expert will walk you through the different decisions to be made and the choices that will most likely yield success for better resolution and the tools and equipment available to assist in those decisions.