

2009/2010 Free\*  
GC eSeminar Series

# GC Consumables eSeminar Series



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## Updated Live Events!

This GC e-seminar series will cover several topics for the beginner to the advanced chromatographer. A range of topics will be covered including capillary GC theory, selection, method development, GC column installation and maintenance of your GC. The Fast GC seminar demonstrates the use of Agilent's free GC method translation software, which makes developing new methods or tweaking older methods a breeze. Agilent will also address ways to make your existing method more robust and show you some tricks-of-the-trade for troubleshooting your GC system. Whether you are a seasoned GC veteran or a beginner, this GC e-seminar series will help to make you a better chromatographer so you get the reproducible results you need to make your lab more productive. **Sign up today!**

- Series 1 • **Introduction to Capillary GC**  
**November 10, 2009 • 2:00pm EST**
- Series 2 • **Carrier Gases in Capillary GC**  
**December 3, 2009 • 2:00pm EST**
- Series 3 • **Selection of Capillary GC Columns**  
**January 14, 2010 • 2:00pm EST**
- Series 4 • **Installation, Care and Maintenance of Capillary GC Columns**  
**February 11, 2010 • 2:00pm EST**
- Series 5 • **Secrets of GC Column Dimensions**  
**March 12, 2010 • 2:00pm EST**
- Series 6 • **GC Method Development**  
**April 13, 2010 • 2:00pm EDT**
- Series 7 • **Techniques for Making Your GC Analysis More Repeatable and Robust**  
**May 11, 2010 • 2:00pm EDT**
- Series 8 • **Techniques, Tips and Tricks of Troubleshooting Capillary GC Systems**  
**June 22, 2010 • 2:00pm EDT**

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# ADVANCED GC Consumables eSeminar Series



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### Tips and Tricks of Injector Maintenance January 28, 2010 • 1:00pm EST

Let's face it, there are more things that don't go through a GC than do. Of course, that means that "stuff" builds up on the injector and head of the column. So it isn't any wonder that 99% of the maintenance performed on the GC involves the injector and injector parts. This talk will explore all the areas of the injector that need maintaining as well as typical maintenance plans and schedules. A few hints on forgotten areas such as the split vent trap will be discussed as well as the routine aspects.

### Trace level Analysis for Active Compounds Made Routine with Agilent J&W Ultra Inert Capillary GC Columns March 23, 2010 • 1:00pm EDT

Whether you are identifying semivolatiles, quantifying amine pharmaceuticals, detecting narcotics and other drugs of abuse, or screening for unknown samples, you are likely under pressure to analyze active compounds that are present in extremely small quantities. If your GC column lacks column inertness, active compounds such as acids and bases will exhibit severe peak tailing, leading to inaccurate quantification. In addition, the column might "eat up" the very compounds you are trying to analyze. This presentation provides an overview on a new QC testing procedure for column inertness performance with practical examples on how trace level analysis be routinely carried out for applications in the environmental, forensics, foods/flavors/fragrances, pharmaceutical, and specialty chemical industries.

### Practical Faster GC Applications with Capillary GC Columns June 10, 2010 • 1:00pm EDT

Numerous advances have been made in instrumentation and separation technologies that enable faster analysis for a wide range of applications. Faster analysis without loss of resolution can be achieved with high-efficiency capillary GC columns without modification of existing GC or GC/MS systems. This presentation provides basic considerations for high speed analysis and procedures of translating existing methods to faster analysis with the Method Translation Software. Practical examples illustrating the increased sample throughput include the separation of semivolatiles, CLP pesticides, PCBs, PAHs, fragrances, and aromatic solvents.

### Tips and Tricks of Faster GC Analysis July 28, 2010 • 1:00pm EDT

Faster analysis isn't only for those with long run times. Trimming a couple of minutes off a single analysis can add up to major time savings in the course of a day, week or month leading to overall cost savings and increased productivity. This talk looks at the various tools available to the analyst for reducing GC run times and the trade-offs involved. High Efficiency GC columns is one of the new added tools that will be discussed, along with considerations for carrier gas type and velocities, temperature ramp rates, and column dimensions. Free Method Translation software will be shown to simplify the process of making these changes.

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