



Broadly and Boldly Moving into the Mainstream! Laboratory, Process, Offshore and Even Transportable Gas Chromatography

**4th Annual micro & Fast Gas Chromatography
Symposium**

10/21/2015





Broadly and Boldly Moving into the Mainstream! Laboratory, Process, Offshore and Even Transportable Gas Chromatography

Dr. Carl Rechsteiner
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Symposium Leader



Micro and Fast Gas Chromatography

- **Now very comfortably at home in**
 - **Laboratories deploying**
 - *ASTM methodologies like D7798 for ultrafast boiling range distribution*
 - *Sulfur and hydrocarbons in refinery fuel gas*
 - **Continuous and process batch analysis for**
 - *Blending optimization*
 - *Organic synthesis*
 - **Offshore where**
 - *High pressure sampling is the norm*
 - *Benchtop space is extremely limited*
 - **Transportable applications for**
 - *Product adulteration or*
 - *Environmental monitoring*



Modular Design Allows Flexible Usage

- **The distinctions**
 - **Lab**
 - **Process**
 - **Field**
 - **At-line**
 - **Transportable...**
- **are all obsolete!**
- **When a GC fits anywhere gas chromatographic analysis is needed, there is no need for an installation environment qualifier... even in the back of a truck.**

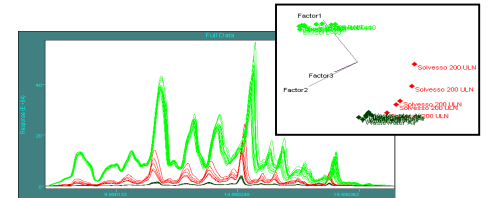
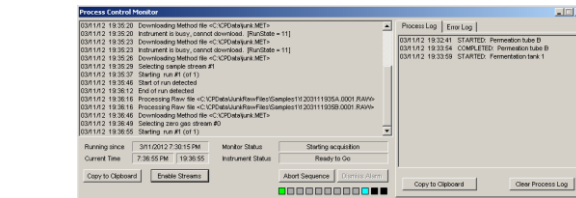


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The Total Gas Chromatography Solution

- Modules become Instruments
- Instruments become Analyzers
- Add Software
 - Control and Data Processing
 - Data Alignment and Interpretation
- The total system becomes the solution



Today's Agenda

- **Dr. Ed Overton - micro & Fast Gas Chromatography Yesterday, Today and Tomorrow**
- **Steve Bostic - Implementing ASTM D7798 and the Economic Impact of Superior Precision & Bias Performance and... Speed**
- **Dr. Robert Shellie - The Power of Heat and Multidimensional Separations in micro & Fast Gas Chromatography**
- **George Schreiner - Analyzer Controller Unit: The Expanding Role of Chromatography Data Systems Software for micro and Fast Gas Chromatography - Process**



Today's Agenda

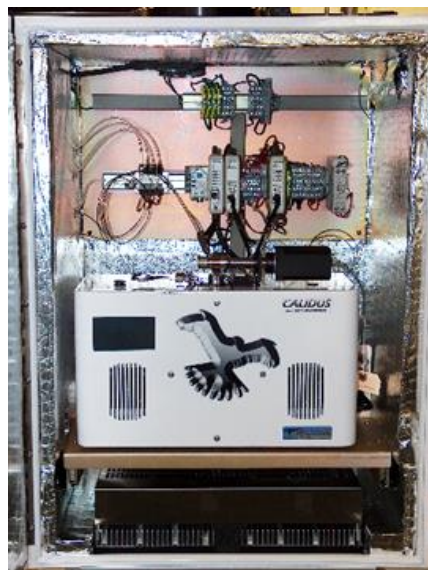
- **Dr. Brian Rohrback - [Fast GC for True Control of a Process](#)**
- **Dr. Carl Rechsteiner - [Fast Process Gas Chromatography Implementations in Refining and Petrochemical Plants](#)**
- **Jonathon Blackwell - Recent Advancements in Batch Process Throughput with Fast, Automated Food Grade Fatty Acid Endpoint Analysis**
- **Graham Mullings - [micro & Fast Process Gas Chromatography in the World of Upstream and Offshore Analyses](#)**



Today's Agenda

- **Dr. Bill Winniford - [A Transportable micro and Fast GC for Chemical Markers in Adulterated Fuels](#)**
- **George Schreiner - [Analyzer Controller Unit: The Expanding Role of Chromatography Data Systems Software for micro and Fast Gas Chromatography - Transportable](#)**
- **Dr. Carl Rechsteiner - *In the Mainstream Now: micro and Fast Chromatography, a Panel Discussion***





Micro & Fast Gas Chromatography... In the Mainstream at last!

