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**CHROMalytic TECHNOLOGY PTY LTD - Australian Distributors, Importers & Manufacturers**

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Chromalytic Website 2009+ : specialising in  
**Chromatography Products**

New Website 2012  


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## Registration Required ???

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To REGISTER... go to [www.chromalyc.net.au](http://www.chromalyc.net.au) our NEW 2012+ Site

RegisterPlus is reserved for Individuals actually given a password by Chromalytic - & may be time limited for security purposes \*

- our Suppliers
  - for information considered sensitive or would offer competitors catch-up info on new product releases
- Operating Manuals for Instruments ... after purchase

**Register** : for any user requiring more detailed info but NOT necessarily of a sensitive nature but for our customer tracking purposes  
 We believe All potential customers have far more to gain by actually contacting us ... rather than just just collecting maybe comparative data ... even ... at worst those intent on "brain-picking" for whatever reason

**We offer to target information specific to you needs but ONLY if you request us to ... a request Form will be sent to you ... if you ask**  
 We WILL NOT cold call or send you unsolicited information

**We certainly seek your direct involvement with us and the opportunity of doing business with You AND your organisation**

\* **Why Security ?**

only some pages on our website require Registration and a UserName / Password to be entered

we also believe in absolutely full disclosure of relevant info to potential customer irrespective even of making users aware of limitations as well as obvious advantages in our products irrespective of some Suppliers who tend to fudge or obscure  
 Given the "facts" then customers should be able to make their considered purchasing decisions ... as to cost / benefits

**The common "scams" and " conning" of customers or misleading advertising / marketing ... IS just NOT ON !**  
 - we avoid ALL connotations associated with factors that might be used by car salesman ... for example

- these pages / files are more detailed or are not for general public access ... at least not initially
    - reserved specifically for our customers
 they might include
    - ... archive technical data that our Suppliers might find difficult to keep track of but at the same time has been in the public domain
    - ... but still relevant for those using past use by date equipment for example
  - we provide this as a service for loyal customer
  - Presentation (PPT) and seminar material
  - edited of course so material is now currently public but obviously not including sensitive marketing material
  - certainly helps focus
- but let's face it we want to leave something up to you to do ... even if it is to only make you more inclined to browse our website further rather than take the "twitter and tweet" "in-your-face" superficial "crap" that they present*

- PPT Presentations, Seminar details/programs
  - pre-release Product data - issued only to verified Chromtech customers
- Particular where they might be subject to abuse or siphoning by unauthorised distributors ie our competitors ... and it does happen !

If these "secured" files are accidentally accessed then No real Drama ! but please DELETE from your local system  
**Many files and info from our Suppliers are Copyright by our respective OEMs and Suppliers and NO authorisation is given by us for copying or printing for general use beyond that of the registered person and for personal use ONLY**  
**Publication ANYWHERE is PROHIBITED unless given in writing by the respective supplier or original Author**

Chromalytic uses any information on our website with permission from our Suppliers and we respect ALL Trademark, copyright and patents - we expects our potential customers and users of this info to do likewise

*your comments on our policy is always welcome ! ... e-mail*

Current Level : Suppliers OEMs

- Chromtech 2012 PRODUCTS ▶
- Intranet ▶
- RegistrationRequired
- "FlipPage" catalogs ...
- ... Chromtech2011

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**September 11, 2012**  
**Abstracts of Micro and Fast Chromatography Sessions at Gulf Coast Conference 2012**  
**October 16 – 17, 2012 in Galveston, Texas U.S.A.**

**1: Micro and Fast vs. Traditional Gas Chromatography: End User Perspectives**

Discussion Leaders

Dr. Carl Rechsteiner, Chevron Corporation

Mr. Wayne Kriel, SGS North America, Inc.

About 30,000 gas chromatographs are sold annually whether in labs, processing plants or transportable environments. Estimates vary but only about 1/30<sup>th</sup> of the units sold are of the micro and fast variety even though the technology was introduced in the early 1980s. Recent collaboration between users and suppliers has advanced the capability to the point of rivaling the big GCs in many production analytical environments: plant support laboratories, online and at line process control, field environmental and exploration & production platforms. The discussion leaders will share their perspectives on the technology and what drives them to use micro and fast gas chromatography.

**2: Not Just Simulated Distillation - Not Just a Transportable: Diverse Applications for Fast Gas Chromatography**

Ned Roques, Chief Chromatography Engineer Falcon Analytical  
John Crandall, President Falcon Analytical

Micro and Fast GC are often put into a box: limited applications, delicate hardware, too special to be of real use. By throwing out traditional design constraints, novel Fast GC systems can be deployed for a broad range of measurements whether in the oil & gas patch, refinery, petrochemical and even biofuels markets. This paper will briefly describe the Fast GC design but focus on three applications for diverse markets and installation environments. Modular design enables plug and play columns and detectors (FID, TCD & DID) to deliver results 10 to 50 times faster than traditional gas chromatographic technique.

**3: Recent Advancements in Upstream Hydrocarbon Characterizations Using Novel Fast Gas Chromatography Systems**

Wayne Kriel, Director SGS Upstream Services  
Graham Mullings, Chemist SGS Upstream Services

Fast and micro gas chromatography has developed into an enabling technology for rather sophisticated hydrocarbon characterizations whether in the gas patch or the oilfield. Boiling range distributions and heating values help drillers and producers alike understand the condition of wells and therefore tailor field operations for maximum efficiency and profit. Quickly obtaining geochemical parameters like gas to oil ratios, carbon number distribution and viscosity is important not only for production but also transportation and distribution.

This paper will show examples of implementations including sampling, analysis, data handling and packaging of light weight, low power fast GC systems for deployment upstream.

**4: Establishing an ASTM Standard for Ultra Fast Gas Chromatography (UF GC) Focused on Boiling Range Distribution of Petroleum Distillates with Final Boiling Points up to 535°C**

Steven Bostic, Marketing Consultant Falcon Analytical  
Ned Roques, Chief Chromatography Engineer Falcon Analytical

Faster standard methods are needed to improve throughput and reduce costs all without compromising critical data quality. In plant support laboratories faster process diagnostics and product certifications are required. In the process itself, faster high-precision results are required especially regarding fuels and fuel blending components to enable narrowing the control limits and thus improving profitability.

This paper will discuss the new ASTM standard method and show the reference gas oil results (up to 535°C) delivered by a 5-minute cycle gas chromatography run compared to the current D-2887 procedure.

## **5: Use of Fast Gas Chromatographic and Chemometric Technologies for Hydrocarbon Characterizations from Exploration Activities to the Refinery Floor and Beyond**

Dr. Carl Rechsteiner, Research Scientist Chevron Corporation  
Dr. Brian Rohrback, President Infometrix, Inc.

Use of chemometrics by spectroscopists is well established. However traditional gas chromatography and chemometrics are not well associated in most practitioners' minds. Recent developments in Fast GC make cycle times nearly as fast as spectral analysis forcing the chromatographer to think about better ways to process and interpret the high data throughput. Chemometrics & automation provide an excellent solution to the problem.

This paper will discuss alignment, classification and modeling technologies that enable mining several kinds of databases to deliver real-time results for oil exploration and production, crude refining and fuels characterization using the data from Fast GC.

## **6: Recent Advances in Transportable Fast Gas Chromatography: Three Related Applications in Industrial Environmental Field Monitoring**

David Picard, Principal, Clearstone Engineering  
Yan Liu, Senior Project Engineer, Clearstone Engineering  
Adam Coderre, Project Engineer, Clearstone Engineering

The demand for energy has driven exploration and production activities to increasingly remote locations. Everyone demands that the energy delivery process is safe and friendly to the environment. The need and demand for rapid, onsite spill & leak detection is very high. Advances in fast, transportable gas chromatography enables near realtime monitoring whether for boiler performance monitoring, field separation plants or exploration & production platforms. Three related applications will be described: extended natural gas composition, hydrocarbon liquids characterization and halogen tracer doping and monitoring. A short description of the impact they have in service of our clients will be given.

## **7: Useful Applications of Smart micro Gas Chromatography with the NeSSI Platform**

Mike Cost, Parker Hannifin Corporation  
John Crandall, Falcon Analytical

Micro gas chromatography, chemometrics and NeSSI systems are striving to reach their fullest potential in industry. Early adopters are eager to implement the latest advancements. However, it often happens that production colleagues take a "wait and see" approach. Thought leaders and early adopters alike must constantly remind themselves: "show doubters the usefulness and prove reliability."

We will discuss one batch and one continuous process application for these technologies. Intelligent use of hardware and software... both traditional and non-traditional, can prove the utility, value and reliability of faster, smarter, smaller, easier and greener process analytical systems based on the NeSSI platform.

## **8: Instrument Maintenance in the Fast Chromatography World**

Dr. Brian Rohrback, President Infometrix

Chromatography is used in two ways. One is to provide a means of accurately quantitating a small number of compounds. The second is to evaluate a pattern of components to determine if the mixture is within specifications. As chromatography is brought into the sub-five-minute realm, we saw that we needed to rethink the software that is used to collect, store and interpret the chromatographic traces. What is less clear is that the same techniques used to automate the interpretation can be commissioned to simplify analyzer or instrument maintenance. Adding the maintenance queries comes essentially for free.

**9: Resistance to Change – Is It Really Safer or Just an Impediment to Improvement?  
A Round Table Discussion**

Discussion Leaders – Dr. Carl Rechsteiner & Mr. Wayne Kriel

Regardless of the industry, regardless of the role (customer or supplier) change occurs at glacial speeds. While all companies have early adopters, commercial roll out of anything new to their corporate masses takes too long. Why? Is it really safer to do the same old thing at the expense of improvements in operational profitability?

The leader will propose some provocative questions for attendee comments in the context of moving recent advancements in gas chromatography and advanced statistical analysis towards large scale commercial implementation in the modern hydrocarbon processing environment.

**Networking and refreshments will follow the discussion in the meeting room.**

Link to GCC 2012 Program: [http://www.gulfcoastconference.com/conf\\_program.cfm](http://www.gulfcoastconference.com/conf_program.cfm)

Link back to [www.falconfast.net](http://www.falconfast.net)