

Advanced Process Analyzer 2019 Training



April 22th-26th, 2019 (Monday-Friday)
9.00 am – 5.00 pm



Royale Chulan Damansara Hotel
2 Jalan PJU 7/3, Mutiara Damansara
Petaling Jaya, Selangor, 47810, Malaysia



12.30 pm-2.00 pm
Lunch



Steve H. Smith
Smith Analytical LLC USA

Interesting Subjects:
Analyzer Chemistry & Sample System ▪
Analyzer Key Fundamental Technologies ▪
Gas Chromatography System ▪
Gas Chromatography Simulation Lab ▪

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Advanced Process Analyzer Training 2019



About us

IPSA

IPSA is the premier sales & service provider for process & laboratory analytical - measurement instrumentation.

Representing PAC USA , Hoffer Turbine Flowmeter, Tannas-King Refrigerant, Orthodyne GC, Gasmeter FTIR Analyzer, Pilodist & Smith Analytical manufacturers specializing in physical properties petroleum analysis and gas analysis.

Established since 1994 and an ISO9001:2015 certified company.

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SMITH ANALYTICAL LLC USA

Since 2012, Smith Analytical has focused on providing training services at our Clients sites all over the world. In the 3rd Quarter of 2017, Smith Analytical opened their office and training facility located at:
5318 FM 517, Alvin, Texas 77511, USA

Smith Analytical continues to offer training classes at Clients site, they will also be offering a set schedule for these same programs at Smith's office.

In addition to our new office and training facility, Smith Analytical is now offering analyzer engineering, process analyzer sample systems, analytical products, field service support and systems integration services for selected projects.

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Never Miss This Opportunity!



- In this Advanced Process Analyzer Training, you can explore the true understanding of analyzer fundamentals chemistry, technologies, sample system and GC systems for effective troubleshooting.
- Help you to achieve the cost optimization initiatives to ensure your analyzer reach its highest reliability.
- This 5-day training workshop takes attendees through the investigation, analysis, selection, document development and implementation of good troubleshooting, preventive and corrective maintenance for analyzer and GC maintenance initiatives.
- GC Simulation Lab for Inter-Active GC Method Setup, Applications and Problem Solving practice sessions presented throughout the course.

Who Need to Attend?

Industry Professionals
Analyzer Project Engineers
Analyzer Maintenance
Engineers
Analyzer Technicians
Analyzer Technical Engineers

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Instructor Resume

Steve H. Smith
Smith Analytical LLC, USA

Steve has more than 35 years of experience with process gas chromatographs and other analyzers. He has founded two companies to provide specialized analyzer services to the process industries and is an expert in the application of process analyzers in refineries and petrochemical plants.

Steve developed these training courses from his extensive experience in the field. His presentations are impressive, and have equal appeal with engineers and maintenance technicians. He conducted training in USA, South America, Malaysia and in Middle East. In the gas chromatography class, Steve shall demonstrate his start of the art of GC simulator for the user to quickly understand the GC operations by interactive lab learning technique. He has extensive sample systems expertise comes from designing hundreds of process analyzer sample systems.

Steve developed 5 US patents on the analyzer measurement technologies and also sample system component. He is also serve as an adjunct Professor at San Jacinto College, Pasadena Texas in Analytical Instrumentation

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Agenda



Date	Training Agenda
April 22, 2019 Monday	Registration: 8.30am Class 9am-5pm Develop or expand participant's capacity in understanding the basic chemistry related to process analyzers and sample system overview
April 23, 2019 Tuesday	Class: 9am-5pm Overview of Process Analyzers Key Fundamental by explaining the theory of analyzer technologies
April 24, 2019 Wednesday	Class: 9am-5pm Gas Chromatography fundamentals to capture good knowledge of GC
April 25, 2019 Thursday	Class: 9am-5pm Gas Chromatography Simulation Lab #1 – Hands On and Inter-Active Learning
April 26, 2019 Friday	Class: 9am-5pm Gas Chromatography Simulation Lab #2 – Hands On and Inter-Active Learning



Lunch
12.30-2.00 pm

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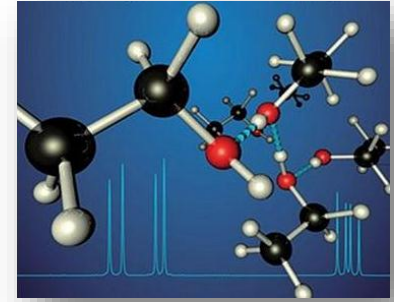


Syllabus

Day 1 – Monday • April 22th, 2019

Develop or expand participant's capacity in understanding the basic chemistry related to process analyzers and sample system overview

- Basic Chemistry Overview and How This Applies to Process Analyzers
- Analyzer Sample System Overview
- The Effect of Take-Off Probe
- Transport Time Calculation
- Calibration System Optimization
- Understanding Stream Switching Technique



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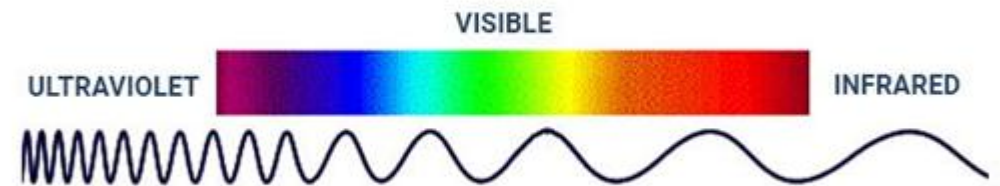
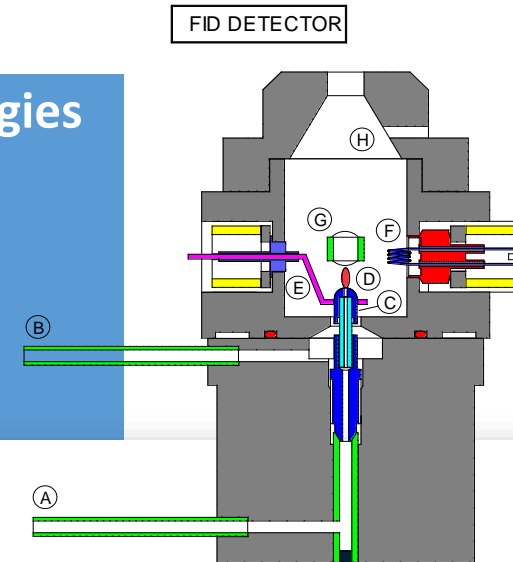


Day 2 – Tuesday • April 23th, 2019

Syllabus

Overview of Process Analyzers Key Fundamental Technologies by explaining the theory of analyzer technologies, thus enabling effective troubleshooting & maintenance.

- Method of Oxygen Gas Measurement Technology
- Flame Ionization Detector Technology
- Thermal Conductivity
- Detector Technology
- Infrared Measurement Technology
- UV Measurement Technology



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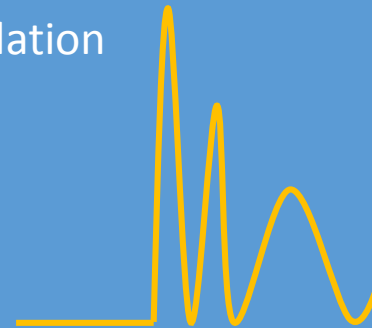


Syllabus

Day 3 – Wednesday • April 24th, 2019

Gas Chromatography fundamentals to capture good knowledge of GC

- GC Overview – Hardware & Software System
- Sample Injection Valve, Column and Detector Overview
- Understanding of Mobile & Stationary Fluid Phase
- Peak Integration, Retention Time & Calculation
- Baseline Correction Methods



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Syllabus

Day 4 – Thursday • April 25th, 2019

Gas Chromatography Simulation Lab #1 - Hands On and Interactive Learning

- Setting up a Method based on measurement
- Calibration Lab 1 - Simulation Practice
- Calibration Lab 2 – Simulation Practice
- Detail Explanation of Backflush Application
- Intensive Back Flush Application Lab Practices



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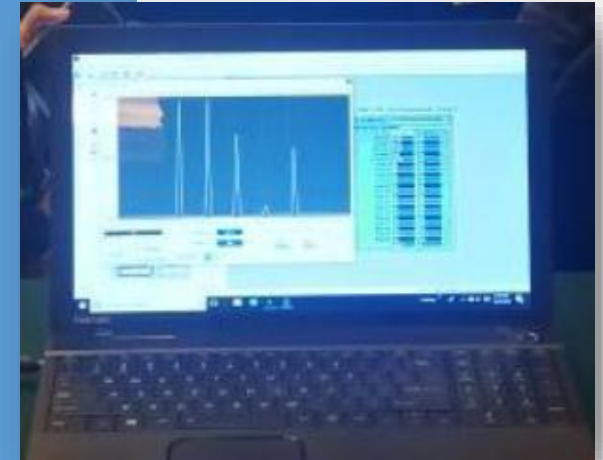


Syllabus

Day 5 – Friday • April 26th, 2019

Gas Chromatography Simulation Lab #2 – Hands On and Interactive Learning

- Detailed Explanation of Heart-Cut Application
- Heart Cut / Back Flush Application Lab Practices
- Troubleshooting & Best Maintenance Practice Discussion



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Terms & Conditions

Fees: RM7900 net per attendee

Tuition fees are payable in advance of attendance, and include all instructional materials, student workbooks, lunch & refreshments each day.

Registration:

Early registration is recommended as class sizes are limited. Phone, fax & email registrations are accepted on a first-come basis. Send payment by cheque or by formal company purchase order to:

Instrumentation & Petroleum Services Asia Sdn. Bhd. (285745-V GST No. 001477009408)
#03A-02, 8trium Tower 1, Jalan Cempaka SD12/5, Sri Damansara,
52200 Kuala Lumpur, Malaysia
T: +60 (3) 62799980 F: +60 (3) 62799970 E: sales@ipsa.com.my
Contact Person: Noorbeyana

Closing date: Friday - March 22th, 2019

Cancellation:

Fees will be refunded only for cancellations received two weeks prior to the seminar start date. A processing fee of RM 500 will be charged. Substitute attendees will be accepted at any time without charge. We reserve the right to cancel any class with low enrolment. If so, your fees will be refunded in full. Thank you.

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Registration Form

Company:	
Address:	
Tel:	Fax:
Contact Person:	E-mail:
Participant (s) Name	Contact No/E-mail:
1.	
2.	
3.	
4.	

COURSE FEE
Price: RM7900 nett per attendee
General Course Information:
Instrumentation & Petroleum Services Asia Sdn Bhd (IPSA) will provide all course materials and daily lunch/beverages during the course. Attendees keep the comprehensive course workbook. Additional information will be sent with your confirmation and prior to course start.
Training Date: April 22-26, 2019
Venue: Royale Chulan Damansara Hotel, Mutiara Damansara, Petaling Jaya, Selangor, MALAYSIA

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