

ISA Analysis Division Program

25-29 April 2010

Astor Crowne Plaza - New Orleans - French Quarter

The 55th Annual Symposium of the Analysis Division

"Analytical Solutions in a Not So 'Big Easy' Economic Environment"

Date/Time	Session /Topic	Title / Developer	Location
SUNDAY, 25 APRIL 2010			
7:30 - 4:00	Registration	Symposium and Short Course Registration -Introductions for Training - Don Nettles, Educational Chair -Safety Moment -Introduction: Instructors and ISA Analysis Division, AD, Chair -Class attendee introductions: Name, Company, Analyzer Role	St Charles Foyer
8:00 - 8:15	Welcome	-Agenda Review & Class Protocol	St Charles B
9:00 - 5:00	Spouse Program	Spouses' Lounge - Tours, Shopping, Sightseeing, and Recreation. Check in at Registration.	Chartres
8:15 - 10:00	Track 1	Fundamentals of Process Analysis	St Charles B
	Session 1	Gas Chromatography - Topics: Basic Chromatography, Carrier, Columns, Injection Valves, Separation, Retention Time, Detectors, Process GC techniques, Applications, Analyzer Readout <i>Jerry Clemons - Instructor</i>	
10:00 - 10:15	Break		St Charles A
10:15 - 11:30	Track 1	Fundamentals of Process Analysis	St Charles B
	Session 2	Spectroscopy - Topics: Basic Spectroscopy, Beer's Law, Infrared Analyzers [dispersive, non-dispersive & FTNIR], Ultraviolet and Visible Analyzers, Raman, NMR, TDLs <i>Phil Harris - Instructor</i>	
11:30 - 12:15	Lunch		St Charles A
12:15 - 1:00	Track 1	Fundamentals of Process Analysis	St Charles B
	Session 3	Gas Analysis - Topics: Thermal Conductivity, Moisture, Density/Specific Gravity, Refractive Index, pH and Conductivity, Flame Ionization <i>Robert Sherman - Instructor</i>	
1:00 - 1:15	Break		St Charles A
1:15 - 2:15	Track 1	Fundamentals of Process Analysis	St Charles B
	Session 4	System Design - Topics: Project management [PFID's, P&ID's, tag numbers, budget & schedule tracking], Scope development for grass roots projects, Field design [area electrical classification, environmental protection, plot plan location], Shelter design [construction types, layout, HVAC & venting, alarm systems, communication systems] <i>David Lewko - Instructor</i>	
2:15 - 2:30	Break		St Charles A
2:30 - 3:30	Track 1	Fundamentals of Process Analysis	St Charles B
	Session 5	Sample Conditioning System - Topics: Function of the sample conditioning system, design issues [temperature, pressure, flow rate, dew point, bubble point], sample probe, sample transport, sample lines, sample conditioning components [filters, rotameters, valves, switches], calibration & validation <i>Roy Muston - Instructor</i>	
3:30 - 3:45	Break		St Charles A
3:45 - 4:30	Track 1	Fundamentals of Process Analysis	St Charles B
	Session 6	Networking - Topics: Analyzer communication network configurations, connection options, network devices, protocols, architecture & system issues <i>TBD - Instructor</i>	
4:30 - 4:45	Track 1	Q&A and Review of Fundamentals Training	St Charles B
	Summary	<i>Don Nettles - Educational Chair</i>	
1:00 - 6:30	Meetings	BUSINESS AND COMMITTEES	St Ann
1:00 - 4:00	SP76 Standards	Committee Meeting <i>Bac Vu (SP76 Committee Chair)</i>	
4:45 - 6:30	Analysis Division	Analysis Division Business Meeting <i>AD Director David Lewko (Chair) and AD Director-elect Randy Hauer (Recording Secretary)</i>	St Louis
6:00 - Close	Hospitality Suites	Vendor Suites <i>Vendors and Suite Numbers Posted at Registration</i>	3rd Floor - 301 to 327

MONDAY, 26 APRIL 2010

7:00 - 7:45	Speakers	Speakers Breakfast	Toulouse Room A
7:00 - 7:45	Attendee	Attendee Breakfast	Toulouse Room B
7:30 - 5:30	Registration	Symposium Registration	St Charles Foyer
7:30 - 4:00	Speakers	Speakers Practice Room	Conti
7:30 - 4:30	Spouses Program	Spouses' Lounge - Tours, Shopping, Sightseeing, and Recreation. (Check in at Registration)	Chartres

Session			Location
Date/Time/Topic	Title/Developer - Author - Presenter		

8:00 - 8:30	General Session	Welcome Introduction - David Lewko (AD Director)	St Charles Ballroom
8:30 - 10:00	General Session	Session 1 - Gas Chromatography - Jerry Clemons, Session Moderator	St Charles Ballroom
	AD.10.01.01	Comparative Fast GC and Physical Distillation Analysis Methods for Biodiesel Blends Susan Harris PAC	
	AD.10.01.02	Does Size Matter? A Practical Guide to Process GC Column Diameters. Shirley Meyer Cameron - PAAI Process Analytics	
	AD.10.01.03	GC Detector Bill Tolley Seacoast Science	

10:00 - 10:30	Break	Sponsoring Vendor Exhibit Tables by	St Charles A
---------------	-------	-------------------------------------	--------------

10:30 - 12:00	General Session	Session 2 Chemical Properties - Roy Muston, Session Moderator	St Charles Ballroom
	AD.10.02.01	Improved Solid-State Hydrogen Specific Analyzing Systems with %CO and H2S Tolerance Prabhu Soundarrajan H2scan	
	AD.10.02.02	Online TOC Analysis by Two Stage Advanced Oxidation Process for Applications Containing High Levels of Salts Dr. Ali Dogan Demir BioTector Analytical Systems Ltd.	
	AD.10.02.03	On-line Analysis of Fuel Products for Particulate, Color, Water, and Haze Tod Canty Canty, Inc	

12:00 - 1:00	Lunch	Sponsoring Vendor Exhibit Tables by	Toulouse A&B
--------------	-------	-------------------------------------	--------------

1:00 - 1:15	General Session	Announcements - Information - David Lewko, (AD Director)	St Charles Ballroom
-------------	-----------------	--	---------------------

1:15 - 2:45		Session 3 Environmental I - Robert Sherman, Session Moderator	St Charles Ballroom
	AD.10.03.01	Increase the Yields of Products with Higher Economic Value Using a Cloud Point Analyzer and a Freezing Point Analyzer Hong Jun Kim SK Energy	
	AD.10.03.02	In Situ NOx Measurements on SCR Units Peter DeBarber, Harold Henry, and Donna Dearmon Horiba	
	AD.10.03.03	Acid Dewpoint Temperature Measurement Derek Stuart Ametek	

2:45 - 3:15	Break	Sponsoring Vendor Exhibit Tables by	St Charles A
-------------	-------	-------------------------------------	--------------

3:15 - 5:15	General Session	Session 4 Emerging Technology I - Cindy Cauthen, Session Moderator	St Charles Ballroom
	AD.10.04.01	Air Saturation: The Missing Link in Process Reid Vapor Measurements Gary Brewer ABB Process Analytics	
	AD.10.04.02	Real Time Monitoring of Solvent Composition during Batch Distillations Using On-line Mass Spectrometry Greg Gervasio and Tony Slapikas GlaxoSmithKline	
	AD.10.04.03	Process Analyzer Marketplace Update Stephen Walton, Terry McMahon, and Jim Tatera PAI Partners	

5:15 - Close	Hospitality	Vendor Suites	3rd Floor 301 to 327
	Suites	Vendors & Suite Numbers Posted at Registration	

TUESDAY, 27 APRIL 2010

7:00 - 7:45	Speakers	Speakers Breakfast	Toulouse Room A
7:00 - 7:45	Attendee	Attendee Breakfast	Toulouse Room B
7:30 - 5:30	Registration	Symposium Registration	St Charles Foyer
7:30 - 4:00	Speakers	Speakers Practice Room	Conti
7:30 - 4:30	Spouses Program	Spouses Lounge - Tours, Shopping, Site-seeing, and Recreation. (Check in at Registration)	Chartres

Session			
Date/Time/Topic	Title/Developer - Author - Presenter		Location

8:00 - 8:30	General Session	Welcome Introduction - David Lewko (AD Director)		St Charles Ballroom
8:30 - 10:00	General Session	Session 5 Emerging Technology II - Bob Farmer, Session Moderator		St. Charles Ballroom
	AD.10.05.01	Review of Existing and Developing Methodologies for Oxygen Measurement Sam Langridge Ametek		
	AD.10.05.02	Securing the Analyzer Network Joel Langill ENGlobal		
	AD.10.05.03	Improvements in Accuracy of Analysis of Complex Gases by Mass Spectrometry Peter Traynor, Robert Wright, and Graham Josland Thermo Scientific		

10:00 - 10:30	Break	Sponsoring Vendor Exhibit Tables by	St Charles A
---------------	-------	-------------------------------------	--------------

10:30 - 12:00	General Session	Session 6 Analyzer Performance Management - James Tatera, Session Moderator		St Charles Ballroom
	AD.10.06.01	Process Analytical Software to Accelerate Development and Deployment Mike Doyle Symbion Systems		
	AD.10.06.02	Analyzer Management Systems Hans van Nuinen, Bart van der Stap Krohne		
	AD.10.06.03	OPC Unified Architecture (UA) Analyzer Device Integration (ADI) and Applications to NeSSI Systems Damian Huff ABB Process Analytics		

12:00 - 1:00	Lunch	Sponsoring Vendor Exhibit Tables by	Toulouse A&B
--------------	-------	-------------------------------------	--------------

1:00 - 1:15	General Session	Announcements - Information - David Lewko, (AD Director)		St Charles Ballroom
1:15 - 2:45	General Session	Session 7 Analyzer Performance and Certification - Dale Merriman, Session Moderator		St. Charles Ballroom
	AD.10.07.01	A method for performance testing of Natural Gas sampling conditioning systems Shannon Bromley / Donald Mayeux A+ Corporation, LLC		
	AD.10.07.02	The Development of an Automated Calibration System for Tunable Laser Based Moisture Analyzers Ken Soley and Narge Sparages GE Sensing		
	AD.10.07.03	Determination of Bias Between Laboratory And On-Line Analytical Results Steve Smith Cameron - PAAI Process Analytics		

2:45 - 3:15	Break	Sponsoring Vendor Exhibit Tables by	St Charles A
-------------	-------	-------------------------------------	--------------

3:15 - 4:45	General Session	Session 8 Emerging Technology III - Steve Smith, Session Moderator		St Charles Ballroom
	AD.10.08.01	Using In-line Gas O2 Measurements for Improved Process Control John Groetsch Mettler - Toledo		
	AD.10.08.02	Calibration & Validation Philosophy and Procedures for TDL Analyzers in Process Applications Janardhan Madabushi Servomex		
	AD.10.08.03	Interstage Measurement of SO ₂ in a Sulfuric Acid Plant and Mitigation of Acid Contamination in the Sample System During Start Up Conditions John Achord, Wade Miller, Dominic DiMarino, Phil Harris Ametek		

5:30 - 6:30	Reception		Astor Gallery
-------------	-----------	--	---------------

6:30 - 8:00	Banquet		Astor Ballroom III
-------------	---------	--	--------------------

8:00 - Close	Hospitality	Vendor Suites	3rd Floor 301 to 327
	Suites	Vendors & Suite Numbers Posted at Registration	

WEDNESDAY, 28 APRIL 2010

7:00 - 7:45	Speakers	Speakers Breakfast	Toulouse Room A
7:00 - 7:45	Attendee	Attendee Breakfast	Toulouse Room B
7:30 - 5:30	Registration	Symposium Registration	St Charles Foyer
7:30 - 4:00	Speakers	Speakers Practice Room	Conti
7:30 - 4:30	Spouses Program	Spouses Lounge - Tours, Shopping, Site-seeing, and Recreation. (Check in at Registration)	Chartres
Session			
Date/Time/Topic	Title/Developer - Author - Presenter		Location
8:00 - 8:30	General Session	Welcome Introduction - David Lewko (AD Director)	St. Charles Ballroom
8:30 - 10:00	General Session	Session 9 Energy Optimization - Phil Harris, Session Moderator	St. Charles Ballroom
	AD.10.09.01	TDL Analyzers for Measurement of PPB and Percentage Level Analytes in Process Applications Sherry Liu, Alfred Feitisch, and Wenhai Ji SpectraSensors	
	AD.10.09.02	Optimized CDU Operations with Advanced Process Control Michael Kester ABB Process Analytics	
	AD.10.09.03	Impurity Monitoring in an Ethylene Plant using a Quantum Cascade Gas Sensor Yann Hamanou [Exxon] Cascade	
10:00 - 10:30	Break	Sponsoring Vendor Exhibit Tables by	St Charles A
10:30 - 12:00	General Session	Session 10 Safety and Environmental Compliance - Annie Crabtree-Smith, Session Moderator	St. Charles Ballroom
	AD.10.10.01	Recent Environmental Regulations for the Petroleum and Petrochemical Industries Jerry Combs Siemens Process Analytics	
	AD.10.10.02	Matching NeSSI System Solutions to Process Criticality: Realizing the Value Proposition Tracy Dye ABB Process Analytics	
	AD.10.10.03	How to Avoid CEMS RATA Testing Pitfalls John Sablatura Xenon Inc.	
12:00 - 1:00	Lunch	Sponsoring Vendor Exhibit Tables by	Toulouse A&B
1:00 - 1:15	General Session	Announcements - Information - David Lewko, (AD Director)	St Charles Ballroom
1:15 - 2:45		Session 11 Advanced Analytics - John Sablatura, Session Moderator	St. Charles Ballroom
	AD.10.11.01	Development of a Next Generation Open Path Laser Detection Platform Chris Parker, John Tulip, Hamish Adam Boreal laser	
	AD.10.11.02	Development of TDL Analyzer Applications with Optically Interfering Hydrocarbons Sherry Liu, Wenhai Ji, Alfred Feitisch SpectraSensors	
	AD.10.11.03	Combining Spectroscopy and Separation Science in Process and Emissions Monitoring Phil Harris M.Sc., Kevin Harris M.Sc., Dan Potter B.Admin. Ametek	
2:45 - 3:15	Break	Sponsoring Vendor Exhibit Tables by	St Charles A
3:15 - 4:45	General Session	Session 12 Sample System Technology - Randy Hauer, Session Moderator	St. Charles Ballroom
	AD.10.12.01	Designing A Sample System Conditioning System For Dirty Liquid Hydrocarbon Streams Kurt Trefiak Total Analytical Consulting Inc.	
	AD.10.12.02	Sample Conditioning Techniques for Spectroscopic Analysis of Opaque Processes Andy Burgess Applied Analytics	
	AD.10.12.03	Analyzer Technician Opportunities Project (ATOP) Discussion Panel Forum Presentation John Purdin Lee College	
	General Session	Closing Remarks- David Lewko (AD Director) GTFK Award - Session Moderator Paul Barnard	
4:45 - 5:00			St. Charles Ballroom

THURSDAY, APRIL 29, 2010

Date/Time	Session /Topic	ISA Training Class - SP05PC Advances in Continuous Emission Monitoring (CEM) Techniques	Location
7:30 - 8:00	Registration	Instructor - ISA	St Charles Foyer
8:00 - 4:30	Training	Professional Development Training Class -This course is specially designed to assist industrial environmental personnel with understanding the new regulatory initiatives associated with application of mandated CEMs in different EPA programs. You will be able to identify the various CEM monitoring techniques associated with real-time monitoring for HCl/Cl2, particulate matter (PM), multi-metals, acid gases, total hydrocarbons (THCs), dioxin/furans, and gaseous mercury.	St Louis