

Improving Measurement for Smokestack Emissions

NIST, Gaithersburg, MD

Building 101, West Square Conference Room

June 28 - 29, 2017

June 28, 2017

Time	Title / Item	Name / Organization
8:15 AM	Registration	
8:30 AM	Welcome	Rodney Bryant / Aaron Johnson, NIST
8:45 AM	Overview of Greenhouse Gas Measurements Program	John Wright, NIST
Session 1 - Air Emissions Testing Bodies (AETB)		
9:00 AM	Accreditation of Air Emission Testing Bodies for GHG Measurements and Data collection	Scott Swiggard, Golden Specialty, Inc.
9:15 AM	2016 Updates to ASTM D7036 - A Quality Management Standard for Emission Testing	David Elam, TRC Environmental Corp.
9:30 AM	Evaluation of Uncertainties in Reference Method Velocity Probe Calibration Procedures	Tom Martz, EPRI
9:45 AM	Breakout for AETB Discussions Instructions for Breakout Session	Rodney Bryant / Aaron Johnson / John Wright, NIST
Session 2 - Flow Measurements		
10:15 AM	Flow Measurement Using Chemical Tracers	Eric Harman, CEESI
10:30 AM	Utility Stacks are Not Designed for Accurate Flow Measurement	David Nuckols, Dominion Energy
10:45 AM	Progress of NIM's Smoke Stack Simulator and Field Measurements in Power Plants	Liang Zhang, NIM China
11:00 AM	Experimental Investigation on Geometric Parameters of S-type Pitot tube for Greenhouse Gas Emission Monitoring	Wong Kang, KRISS
11:15 AM	Breakout for Flow Measurement Discussions	
11:45 AM	Lunch	
Session 3 - Presentations and Tours of NIST Research Facilities		
1:00 PM	Stationary Source Emissions Research at NIST	John Wright, NIST
1:15 PM	Transportation to tour sites	
1:30 PM	National Fire Research Laboratory	Rodney Bryant, NIST
2:30 PM	Scale Model Smokestack Simulator	Aaron Johnson, NIST

3:15 PM	Air Speed Calibration Facility	Iosif Shinder, NIST
4:00 PM	Long-Wavelength Acoustic Flowmeter	Keith Gillis, NIST
4:30 PM	<i>Breakout for NIST Research Facilities Discussions (Bldg. 101/West Square)</i>	
5:30 PM	<i>Adjourn</i>	

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Time	Title / Item	Name / Organization
<i>Session 4 - Ultrasonic Flow Meters</i>		
8:30 AM	Plan for the Day	
8:45 AM	Multipath Ultrasonic Configurations and When to Use Them	Salvator Vigil, Teledyne
9:00 AM	NIST Experiences with Multipath Ultrasonic Flow Measurements in Scale-Model Smokestack Simulator	Aaron Johnson, NIST
<i>Session 5 – Close Out Discussion</i>		
9:30 AM	Discuss and Recap	
11:00 AM	Net-Zero Energy Residential Test Facility Tour	
12:00 PM	<i>Adjourn</i>	