

ISHM 2026 CLASS SCHEDULE V: 5.0																	
Presentation Class Session																	
Tuesday, May 12th					Wednesday, May 13th					Thursday, May 14th							
Class Level	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	2.5	2.6	3.1	3.2	3.3	LEVEL	LEVEL	LEVEL	
Period	11:10 AM to 12:00 PM	1:20 PM to 2:10 PM	2:20 PM to 3:10 PM	4:10 PM to 5:00 PM	8:00 AM to 9:50 AM	9:00 AM to 9:50 AM	10:50 AM to 11:40 AM	1:20 PM to 2:10 PM	2:20 PM to 3:10 PM	4:10 PM to 5:00 PM	8:00 AM to 9:50 AM	9:00 AM to 9:50 AM	10:50 AM to 11:40 AM	LEVEL	LEVEL	LEVEL	
Room #	41102	85005	82003	41301	52117	51102	41103	93004	93005	42311	16304	84001	13304	LEVEL	LEVEL	LEVEL	
Classroom Lectures	103	Witnessing Orifice Meter Verification / Calibration	Water Vapor Effects on Natural Gas Quality and Natural Gas Measurement	Viscosity and Its Application in Liquid Hydrocarbon Measurement	Unveiling the Hidden Potential in Your Calibration Data	Utilizing Fidelity Plots for Online Chromatographs	Techniques of Gas Spot Sampling	Verification / Calibration of Devices Used in Liquid Measurement	LNG Measurement by Static and Dynamic Methodologies Panel (Hour 1 of 2)	LNG Measurement by Static and Dynamic Methodologies Panel (Hour 2 of 2)	Understanding Liquid Meter Proving and Proving Reports	Effects of Atmospheric Pressure on Gas Measurement	Understanding How to Apply GPA 2145, to Determine Gas to Liquid and Liquid to Gas Equivalents	Flare Measurement Using Advanced Ultrasonic Technology	LEVEL	LEVEL	LEVEL
	104	Design, Operation and Maintenance of LACT Units	Update on API, AGA, GPA and ASTM Standards - Measurement Activities (Hour 1 of 2)	Update on API, AGA, GPA and ASTM Standards - Measurement Activities (Hour 2 of 2)	Uncertainty Considerations of Tank Static Measurement System	Testing, Maintenance and Operation of Electronic Flow Computers for the Gas Industry	Uncertainties within Centrifuge Methods and Mitigations	Thermometry in Gas Measurement	Ultrasonic Meters and Measurement Accuracy in Leak Detection	Setting up Effective System Balances	Transmuting Gas Metering and Pipeline Monitoring through Digitalization: Process Cameras and Real-Time Visual Data for Intelligent Operations	Best Practices for the Design of Gas Metering Systems for Custody Transfer	The Uncertainty of a Waterdraw Calibration on Small Volume Provers	RF (Radio Frequency) Fundamentals of IoT	LEVEL	LEVEL	LEVEL
	105	Selection, Sizing and Operation of Control Valves for Gases and Liquids	Orifice Meters - Operation and Maintenance	Smart Transmitter Selection, Calibration and Installation	The Role of BLM in Oil and Gas Measurement	The Measurement Data Handling Process-Now and in the Future	The Evolution of Data Collection for Gas Measurement	The "Not So Small" Small Volume Prover	API MPMS Chapter 22.2 Testing Protocol for Differential Pressure Flow Measurement Devices	ESG and GHG Measurement and Impact of Federal and State Air Regulations on Measurement of Emissions and Flaring	Techniques of Gas Composite Sampling	Statistical Control of Meter Factors - A Simplified Approach	Sampling Challenges Associated With Unconventional Gas Sources	Simplifying Real-time and Historical (EFM) Data Collection for the Oil & Gas Industry	LEVEL	LEVEL	LEVEL
	106	Spread Spectrum Radio Technology for Gas Measurement	Basic Electronics for the Field Technician	Sampling and Conditioning of Natural Gas Containing Entrained Liquids	Measurement and Regulation Operation of a LDC	Sampling and Analysis for RNG	Sample System Field Certification Data Analysis and Troubleshooting	Measurement Methods for Liquid Storage Tanks	Solar Panel Design for Reliable Measurement in Remote Locations	Using Control Charts to Predict Failures of Measurement Devices	Refined Product Sampling Systems	Reducing the Uncertainty of Hydrocarbon Dewpoint Calculations Using a C9+ Analysis	Sample Conditioning & Contaminant Removal for Water Vapor Determination	Advanced Application of Liquid Flow Computers	LEVEL	LEVEL	LEVEL
	201	Measurement Economics	Mass Measurement of Natural Gas Liquid Mixtures	Gas Meter Selection	Pycnometer Installation, Operation and Calibration	Proving Liquid Ultrasonic Meters	Proving Liquid Meters with Microprocessor Based Pulse Outputs	Program for Training a Gas Measurement Technician	Proving Coriolis Flow Meters Panel (Hour 1 of 2)	Proving Coriolis Flow Meters Panel (Hour 2 of 2)	Preparing a Prover for Waterdraw Calibration	Overview of GPA 2172/API 14.5 Revision	Certification and Performance Testing of Automatic Samplers	Data Validation - Requirements of an EGM Editor	LEVEL	LEVEL	LEVEL
	202	Orifice Meter Tube Fabrication Shop Inspection Program	Over Pressure Protection Methods	Operational Experience with Liquid Coriolis Meters	Transient Lightning Protection for Electronic Measurement Devices	Operation and Problems Associated with Prover Detector Switches	Fundamentals of Gas Chromatography	Operational Experience with Small Volume Provers	Small Scale LNG Measurement	Review & Discussion of BLM Orders 3173, 3174, & 3175 (Hour 1 of 2)	Review & Discussion of BLM Orders 3173, 3174, & 3175 (Hour 2 of 2)	On-line Water Measurement Devices in Liquid Service	On-line Flow Computers for Liquid Custody Transfer	Understanding Hazardous Area Classifications	LEVEL	LEVEL	LEVEL
	203	Ultrasonic Meters for Liquid Measurement	Understanding the Volume Correction Factor Used in Measurement Systems	DOT Requirements for the Transportation of Sample Containers	New Technologies in S&W Measurement	Ethernet for SCADA Systems	Measurement Accuracy and Sources of Error in Tank Gauging	SCADA Systems	Multiphase Flow Measurement	Moisture Measurement Using Laser Spectroscopy	Methods for Certifying Measurement Equipment	No Class	Equipment and Techniques used in Real Time Component Volume Calculations for Natural Gas Liquid Measurement	Measurement Station Inspection Documentation Program and Guide	LEVEL	LEVEL	LEVEL
	204	Real-Time Electronic Gas Measurement	Measurement System Auditing Hour 1 of 2	Measurement System Auditing Hour 2 of 2	Measurement Policies and Procedures - Development and Implementation Considerations	24303 Coriolis Mass Flowmeter Pressure Effect Compensation - When is it needed. How to do it.	Measurement of Petroleum On Board Marine Vessels	Auditing Liquid Measurement	Measurement Management Systems	Mass Meters for Gas Measurement	Discipline of Sizing SVP for All Metering Technologies	Loading of Crude into Rail Tank Cars	Liquid Tank Level - Interface Measurement	Lies, Damned Lies, and Statistics of Flow Meter Linearization	LEVEL	LEVEL	LEVEL
	208A	Fundamentals of Gas Measurement I	Fundamentals of Gas Measurement II	Fundamentals of Gas Measurement III	Orifice Fittings and Meter Tubes	Fundamentals of Gas Measurement I	Fundamentals of Gas Measurement II	Fundamentals of Gas Measurement III	Measurement Data Analytics in the Age of Machine Learning	Measurement Analyst Training for a Liquid System	Measurement Analyst Training for a Gas System	Measurement Accounting Overview	Material Loss Control in Refineries and Petrochemical Plants	Master Meter Prover Certifications per API MPMS 4.9.3	LEVEL	LEVEL	LEVEL
	208B	Interface Detection in Liquid Pipelines	Troubleshooting Liquid Pipeline Losses and Gains (Hour 1 of 2)	Troubleshooting Liquid Pipeline Losses and Gains (Hour 2 of 2)	Mass Measurement by Differential Pressure	Marine Crude Oil Terminal Measurement Systems	Liquid Meter Proving Techniques	An Optical Hydrocarbon Analyzer for On-Line Hydrocarbon Gas Speciation and Measurement	Liquid Measurement Station Design	Liquid Flow Provers	Leveraging Meter Diagnostics to Understand Flow, Process, and Performance	Leak Detection on Petroleum Pipelines	Artificial Intelligence - Data Capture and Back-Office Measurement Applications	Installation Effects on Flow Measurement	LEVEL	LEVEL	LEVEL
	209A	Investigating LAUF	Introduction to Industry Standards	Fundamentals of Low Pressure Gas Rotary Metering	Advanced Diagnostic Measurements and Verification with Coriolis Flow Meters	Fundamentals of Liquid Measurement I - Physical Properties (Repeat Class)	Fundamentals of Liquid Measurement II - Static (Repeat Class)	Fundamentals of Liquid Measurement III - Dynamic (Repeat Class)	Basic Applications for Flow Computers and Telemetry Systems	Manufactured Meter Pulses - An Explanation	Calibration of Liquid Provers	In-Situ (On-Site) Gas Meter Proving	Improving Flow Measurements with Improved Calibration & Data Handling Procedures	Improvement of Historic Proving Practices through API MPMS Chapter 13 Statistical Methods	LEVEL	LEVEL	LEVEL
	209B	Fundamentals of Liquid Measurement I - Physical Properties	Fundamentals of Liquid Measurement II - Static	Fundamentals of Liquid Measurement III - Dynamic	Impact of Hydrogen Blending on Natural Gas Analysis	Hydrocarbon Dew Point Effects on Gas Flow Measurement	Data Averaging	Identifying and Eliminating Effects of Induced Signals on Measurement System Electronics	Guidelines for Pipeline Fill, Pack, and Determination Methodology	Orifice Meter Diagnostic Systems	Gas Ultrasonic Diagnostics	Large Scale LNG Measurement	Uncertainty Based Transmitter Verification	No Class	LEVEL	LEVEL	LEVEL
	301A	Mass Meters for Liquid Measurement	New Ideas in Measurement (Hour 1 of 3)	New Ideas in Measurement (Hour 2 of 3)	New Ideas in Measurement (Hour 3 of 3)	Flow Conditioning for Fluid Flow Measurement	Flow Conditioner for Orifice Measurement	Flow Calibrating Ultrasonic Gas Meters	Overview of Changes to API 2350 Tank Overfill Protection	Automated Truck Loading Systems	Fundamentals of Liquid Turbine Meters	PID Control Implementation in Electronic Flow Computers	PID Pressure Control Implementation and Tuning in Electronic Flow Computers	Flare Measurement Practices	LEVEL	LEVEL	LEVEL
	301B	Odorization in Natural Gas	Estimating Measurement Uncertainty for Gas Flow Meters	Effects of Abnormal Conditions on Accuracy of Orifice Measurement	Evaporation Loss Measurement from Storage Tanks	Engineering Ethics	Energy Measurement using Flow Computers and Chromatography	Energy Measurement Using Ultrasonic Meters and Gas Chromatography	Theory and Application of Pulse Interpolation to Prover Systems	Effects of Petroleum Properties on Pipeline Measurement	Establishing a Development Program for Hydrocarbon Measurement Staff	Dynamic Measurement and Proving in LNG Systems	Contaminant Accumulation Effect on Gas Ultrasonic Flow Meters	Roles and Responsibilities of Witnessing a Prover Calibration	LEVEL	LEVEL	LEVEL
	301C	Fundamentals of Ultrasonic Gas Measurement	Displacement Meters for Liquid Measurement	Determination of Water Vapor Content in Natural Gas	Effects of C6+ vs C9+ Analysis on Gas Measurement	Determination of Trace Oxygen in Natural Gas	Measurement Scene Investigations	Design Considerations for Analyzer Enclosure Systems	Determination of Hydrocarbon Dew Point in Natural Gas (Hour 1 of 2)	Determination of Hydrocarbon Dew Point in Natural Gas (Hour 2 of 2)	Determination of H2S and Total Sulfur in Natural Gas	Introduction to Uncertainty in Measurement	Reducing Measurement Uncertainty in Process Gas Quality Measurements	Guide to Troubleshooting Problems with Liquid Meters and Provers	LEVEL	LEVEL	LEVEL
	301D	Fluid Volume Calculations	Financial Models of Gas Systems	Fundamentals of Gas Turbine Meters	Communication Systems for Gas Measurement Data	Fundamentals of Sampling Natural Gas for BTU Determination	Coping with Changing Flow Requirements at Existing Meter Stations	Conventional Measurement in Unconventional Plays	Crude Oil Sampling for Custody Transfer Panel (Hour 1 of 2)	Crude Oil Sampling for Custody Transfer Panel (Hour 2 of 2)	OPC Fundamentals	Condition-Based Monitoring of Natural Gas Ultrasonic Measurement Facilities	Installation and Operation Errors in Gas Measurement	Determination of Lost and Unaccounted for Gas	LEVEL	LEVEL	LEVEL
	302A	Offshore Liquid FPSO Measurement Systems	Cyber Security	Compressibility of Natural Gas	Crude Quality - What is Involved and Why it's Important	Chromatographic Analysis of Natural Gas Liquids	Chromatograph Maintenance and Troubleshooting	Chromatograph Applications and Problems from the User's Standpoint	Challenges in Allocation Measurement Panel (Hour 1 of 2)	Challenges in Allocation Measurement Panel (Hour 2 of 2)	Causes and Cures of Regulator Instability	Carbon Dioxide Measurement Experience	Calibration Transferability for Coriolis Mass Flow Meters	Application of Turbine Meters in Liquid Measurement	LEVEL	LEVEL	LEVEL
	302B	Basics of High Pressure Measuring and Regulating Station Design	Allocation Measurement 101 - Fundamentals of Allocations	BTU Determination of Natural Gas Using a Portable Chromatograph	Calculation of Liquid Petroleum Quantities	BTU Analysis Using a Gas Chromatograph	Wet Gas Measurement	Best practices for gas measurement with manifold, stabilizers, and tubing installations.	Benefits around Timely Analysis of Measurement Data	SCADA and Field Data Capture in the Cloud	Production and Productivity Optimization Through Wireless Sensing	Auditing Gas Laboratories	Production Equipment Effects on Gas Measurement	Estimating Measurement Uncertainty for Gas Flow Meters (Repeat Class)	LEVEL	LEVEL	LEVEL
	302C	Field and Laboratory Testing of Sediment and Water in Crude Oil	Application in Liquid Measurement Using Clamp-On Ultrasonic Technology	Sampling and Analysis for RNG	Application of Flow Computers for Gas Measurement and Control	Auditing Electronic Gas Measurement per API Chapter 21.1	Allocations 201 - Principles of Allocations	Helical Turbine Meters for Liquid Measurement	Crude Oil Gathering - Gauging Testing and Truck Measurement Alternatives (Hour 1 of 2)	Crude Oil Gathering - Gauging Testing and Truck Measurement Alternatives (Hour 2 of 2)	Crude Oil Blending	Effects and Control of Pulsation in Gas Measurement	Installation and Operation of Densitometers	Resolving Liquid Measurement Differences	LEVEL	LEVEL	LEVEL
	Hands-On Class Session																
	Tuesday, May 12th					Wednesday, May 13th					Thursday, May 14th						
	Period	1.1	1.2	1.3	1.4	2.1	2.2	2.3	2.4	2.5	2.6	3.1	3.2	3.3			
	Room #	970.1	966.1	966.2	936.1	946.1	946.2	971.1	969.1	984.1	913.1	977.1	952.1	920.1			
	205A	Mustang Sampling - Mustang Sampling-OMA300 Process Analyzer	Emerson - Rosemount Tank Gauging (Hour 1 of 2)	Emerson - Rosemount Tank Gauging (Hour 2 of 2)	Brodie International - Positive Displacement Meters	Quorum Software - FLOWCAL Measurement Software (Hour 1 of 2)	Quorum Software - FLOWCAL Measurement Software (Hour 2 of 2)	ZEGAZ Instruments - ZEGAZ Instruments Automated Chilled-Mirrors	Mustang Sampling - Mustang Sampling-Pony Box and P-53 Units	KGM Inc. - Honeywell Mercury Instrument EC350 Electronic Volume Correlator	TMCO - SureShot Orifice Fitting Operation and Maintenance	Endress+Hauser - Endress + Hauser Coriolis Flowmeter Best Practices	Quorum Software - PROVEIT and PYCt Meter Proving Software	Micro Motion - Micro Motion Gas Coriolis Meters			
	205B	KGM Inc. - Dresser Rotary Meters	Micro Motion - Micro Motion Liquid Coriolis Meters (Hour 1 of 2)	Micro Motion - Micro Motion Liquid Coriolis Meters (Hour 2 of 2)	YZ Systems - YZ Odorization	KGM Inc. - Mooney-Pilot Operated Regulators (Hour 1 of 2)	KGM Inc. - Mooney-Pilot Operated Regulators (Hour 2 of 2)	Ametek - Ametek Dead Weight Tester	Schneider Electric - RealFlo Software For Scadaflow Flow Computers (Hour 1 of 2)	Schneider Electric - RealFlo Software For Scadaflow Flow Computers (Hour 2 of 2)	Endress+Hauser - Endress + Hauser Electromagnetic Flowmeter Best Practices	Axix - Manifold and Stabilizer Installation	Guidant - Guidant Liquid Positive Displacement Meters	Siemens - Siemens Clamp-On Ultrasonic Meter			
	206A	Temposonics - Automatic Tank Gauging Magnetostrictive Technology	Rosemount Analytical - Gas Chromatograph Configuration (Hour 1 of 2)	Rosemount Analytical - Gas Chromatograph Configuration (Hour 2 of 2)	Fisher Controls - Fisher Control High Pressure Regulators	ABB Totalflow - NGC/PCC 1000 Gas Chromatograph (Hour 1 of 2)	ABB Totalflow - NGC/PCC 1000 Gas Chromatograph (Hour 2 of 2)	Schneider Electric - Accutech Wireless Instrumentation	Thermo Scientific - AutoFLEX Flow Computer (Hour 1 of 2)	Thermo Scientific - AutoFLEX Flow Computer (Hour 2 of 2)	Quorum Software - TESTit Meter Calibration Software	ABB Totalflow - ABB Xseries Flow Computers (Hour 1 of 2)	ABB Totalflow - ABB Xseries Flow Computers (Hour 2 of 2)	TMCO - TrueShot TMcare Software Diagnostics			
	206B	Barracuda Measurement Solutions - ModuleX Liquid Flow Computer	Guidant - ACCULOAD Family Preset Controller (Hour 1 of 2)	Guidant - ACCULOAD Family Preset Controller (Hour 2 of 2)	Guidant - Invalco BS&W Monitor	Emerson - DeltaV FB3000 RTU Overview & Configuration (Hour 1 of 2)	Emerson - DeltaV FB3000 RTU Overview & Configuration (Hour 2 of 2)	Daniel - Daniel Senior Meter Fitting Operation and Maintenance	Omni - Omni Flow Computers (Hour 1 of 2)	Omni - Omni Flow Computers (Hour 2 of 2)	PGI - PGI Interceptor Composite Sampler O&M	Guidant - Invalco BS&W Monitor (Repeat Class)	YZ Systems - YZ Natural Gas Sampler O&M	Emerson - DeltaV FB3000 RTU Custom Display Builder			
	207A	A+ Corporation - ACES Sample System Design, Installation and Maintenance	Endress+Hauser - TDLAS H2O Analysis (Hour 1 of 2)	Endress+Hauser - TDLAS H2O Analysis (Hour 2 of 2)	Schneider-Electric - Foxboro Production Vortex Meters	CRT Services - Spirit IT Flow Computers (Hour 1 of 2)	CRT Services - Spirit IT Flow Computers (Hour 2 of 2)	Sensia Global - Sensia Crude Oil Sampling	Emerson - Rosemount Ultrasonic Meters (Hour 1 of 2)	Emerson - Rosemount Ultrasonic Meters (Hour 2 of 2)	Flexim - Flexim Clamp On Ultrasonic Meters	SICK, Inc. - FLOWSiC500 Ultrasonic Meter (Hour 1 of 2)	SICK, Inc. - FLOWSiC500 Ultrasonic Meter (Hour 2 of 2)				
	207B	Vinson Process - Fisher Control Valves	SICK, Inc. - SICK Gas Ultrasonic Meters (Hour 1 of 2)	SICK, Inc. - SICK Gas Ultrasonic Meters (Hour 2 of 2)	Guidant - Guidant Turbine Meter Diagnostic Tool	- VEGAFLEX for Interface Level Measurement (Hour 1 of 2)	VEGA - VEGAFLEX for Interface Level Measurement (Hour 2 of 2)	Rosemount - Rosemount Smart Transmitters	Emerson - Emerson FB Series Flow Computers Configurations & Troubleshooting (Hour 1 of 2)	Emerson - Emerson FB Series Flow Computers Configurations & Troubleshooting (Hour 2 of 2)	A+ Corporation - Genie Sample Probes and Membrane Separators	Flow MD - Flow MD Small Volume Provers (Hour 1 of 2)	Flow MD - Flow MD Small Volume Provers (Hour 2 of 2)	Flow MD - Witnessing Prover Calibrations (Gravimetric Method)			
	Ballroom A	Gas Fundamentals Track (Requires Additional Registration Fee)															