

Monday - May 4, 2015

1:00-5:00	Exhibit Setup
1:00-7:00	Event Registration (Lower Level 1 Lobby) - Note: No Hands-On registration, registration will be available on day of events
5:00-7:00	Exhibit Area - View Exhibits - Refreshments

Tuesday - May 5, 2015

7:00-8:00	Hands-On Registration (Lower Level 2 Lobby) - Tuesday's classes only
7:00-4:00	Event Registration (Lower Level 1 Lobby)
7:00-7:45	Continental Breakfast (Salon E-F)
7:00-7:45	Exhibit Area - View Exhibits
8:00-8:10	Opening Remarks & Welcome (Salon E-F)
8:10-9:00	Host Speaker - Grant M. Yoshihara, Vice President, Utility Operations, Northwest Natural (Salon E-F)
9:00-10:00	"What's New?" - Vendor Presentations, Part 1 (Salon E-F)
10:00-10:50	Exhibit Area - View Exhibits - Refreshments

Workshops	Basic					Advanced										Hands On (15 student limit)	Roundtable
Room	Salon I	Pearl	Hawthorne	Belmont	Laurelhurst	Salon A	Salon B	Salon C	Salon D	Salon G	Eugene	Portland	Salem	Medford	Salon H		
11:00-11:50	Introduction to Over-pressure Protection	Introduction to Gas Quality	Coriolis Meters	Trouble-shooting Control Valves	Odorization Systems	Emerson/ Daniel Ultrasonic Meter Setup and Repair	CGI (Combustible Gas Indicators)		Elster/ American Meter RPM/RABO Rotary Meters	Mooney Flowgrid Operations & Maintenance	GE/Dresser Rotary Meter Repair	Eagle Research Electronic Volume Correctors		Elster/ Instromet Ultrasonic Meter Setup and Repair	Wireless Communication and Data Collection		
12:00-1:00	Lunch (Salon E-F)																
12:00-1:00	Exhibit Area - View Exhibits - Prizes (must be present to win)																
1:10-2:00	Introduction to Basic Gas Laws	Plug Valve Maintenance	Hazardous Area Classification	Pulsation Mitigation and its Effect on Metering	Regulator and Industrial Meter Station Design	Emerson/ Rosemount Smart Transmitters Operation & Calibration	YZ Odorant Pumps	BPE Control Valve & Positioners (Pneumatic & Electronic)	Elster/ American Meter Turbine Meters	Mooney Flowmax Operations & Maintenance	GE/Dresser Model 5 Prover		Spectra Sensors H2O Analyzer and Sample System		AMR/AMI Selection, Deployment and Operations		
2:10-3:00	(cont)	(cont)	(cont)	(cont)	(cont)	(cont)		(cont)			(cont)	Honeywell/ Mercury TCI Installation and Maintenance			Control Room Management Rules		
3:00-3:20	Break - Refreshments (Lower Level 1 Lobby)																
3:30-4:20	Introduction to Gas Turbine Meters	Measuring Hydrocarbon Dewpoint	Gas Chromatograph Maintenance	Power Plant Pressure Control	Odorant Transfer Systems and Deliveries		YZ Odorant Pumps		Elster/ American Meter Regulators		GE/Dresser Electronic Volume Correctors		Heath "Odorator" Odorant Testers	Romet Rotary Meter Install, Maint & Service	Fixed Factor vs. EVC Measurement		
4:30-6:00	Exhibit Area - Refreshments - Vendor Booth Demonstrations - Prizes (must be present to win)																

Wednesday - May 6, 2015

7:00-8:00	Hands-On Registration (Lower Level 2 Lobby) - Wednesday's classes only														
7:00-4:00	Event Registration (Lower Level 1 Lobby)														
7:00-7:45	Continental Breakfast (Salon E-F)														
7:00-7:45	Exhibit Area - View Exhibits														
8:00-8:05	"Miscellaneous Comments & Announcements" (Salon E-F)														
8:05-9:15	"What's New?" - Vendor Presentations, Part 2 (Salon E-F)														
9:15-10:00	Exhibit Area - View Exhibits - Refreshments - Prizes (must be present to win)														
Workshops	Basic	Advanced				Hands On (15 student limit)									Roundtable
Room	Salon I	Pearl	Hawthorne	Belmont	Laurelhurst	Salon A	Salon B	Salon C	Salon D	Salon G	Eugene	Portland	Salem	Medford	Salon H
10:00-10:50	Introduction to Gas Regulation	Flexible Element Regulators	Three-Mode Control (PID) Design and Tuning	Trouble-shooting Regulators	Regulator and Industrial Meter Station Design	Emerson/ Rosemount Smart Transmitters Operation & Calibration	Emerson/ Fisher Regulators	ABB Chromato-graph	Becker Control Valve VRP Pilots	Mooney Flowgrid Operations & Maintenance	GE/Dresser D800 Meter		Itron Regulators		Automatic and Remote Control Valves, Application and System Isolation
11:00-11:50	(cont)	(cont)	(cont)	Distribution Gas Meter Proving	(cont)	(cont)	(cont)	(cont)	(cont)	Mooney Flowmax Operations & Maintenance	GE/Dresser Rotary Meter	Honeywell/ Mercury TCI Installation and Maintenance		Gas Quality Management and Interchange-ability	
12:00-1:00	Lunch (Salon E-F)														
12:00-1:00	Exhibit Area - View Exhibits - Prizes (must be present to win)														
1:10-2:00	Introduction to Gas Metering	Regulator Freeze Protection	Power Plant Pressure Control	Electronic Volume Controller Basics & Installation	Differential Pressure Testing of Rotary Meters	Emerson/ Daniel Ultrasonic Meter Setup and Repair		ABB Chromato-graph	Elster/ American Meter Regulators	Emerson/ Daniel Gas Chromato-graph	GE/Dresser DP Testing on Rotary Meter		Swagelok Tube Fitting and Bending	Sensus Turbine Meter Repair	Meter Sampling Programs
2:10-3:00	(cont)	Measurement Standards Update		Fundamentals of Flow Computers	Noise Mitigation in Regulator Stations			(cont)		(cont)	GE/Dresser Electronic Temp Correcting Index (ES3/ETC)		(cont)	Operational Improve- ment, All equipment types	
3:00-3:20	Break - Refreshments (Lower Level 1 Lobby)														
3:30-4:20	Introduction to Ultrasonic Meters	Gas Odorants: Safe Handling, Health and Environment	Clamp-On Ultrasonic Meters	Pipeline Alarm Management	Meter Run Switching	YZ DTEX Odorant Detection			Elster/ American Meter Snap Provers		GE/Dreser Electronic Volume Corrector				Multipath Ultrasonic Meters
5:00-6:30	Exhibit Area - Refreshments - Vendor Booth Demonstrations - Prizes (must be present to win)														
6:30-11:00	Vendor's Night - Casino Night at the Marriott (Salon E-F)														

Thursday - May 7, 2015

7:00-8:00	Hands-On Registration (Lower Level 2 Lobby) - Thursday's classes only																									
7:00-7:50	Continental Breakfast (Salon E-F)																									
7:00-7:50	Exhibit Area - View Exhibits																									
Workshops	Basic					Advanced										Hands On (15 student limit)										Roundtable
Room	Salon I	Pearl	Hawthorne	Belmont	Laurelhurst	Salon A	Salon B	Salon C	Salon D	Salon G	Eugene	Portland	Salem	Medford	Salon H											
8:00-8:50	Introduction to Regulator and Relief Valve Sizing	LNG and CNG to Support Customers and Other Utility Operations	Coriolis Meters	Distribution Gas Meter Proving	M2M Hybrid Networking	Emerson/Rosemount Smart Transmitters Operation & Calibration	Emerson/ Fisher Regulators	ABB TotalFlow	Becker Control Valve VRP Pilots	Emerson/ROC PID Control	Sick Inc. Ultrasonic Meter Setup & Repair	Hy-Loc Tube Fitting and Bending	Flow-Cal Test-It Application	Itron Regulators	Pipeline Conditioning and Pickling											
9:00-9:50	(cont)	(cont)	Trouble-shooting Regulators	Gas Odorants: Safe Handling, Health and Environment	Ultrasonic Meter Diagnostics	(cont)	(cont)	(cont)	(cont)	(cont)	(cont)	(cont)	(cont)	(cont)	Alternative Supply Sources (Bio) and Issues											
10:00-10:50	Exhibit Area - View Exhibits - Refreshments - Prizes (must be present to win)																									
11:00-3:00	Exhibit Tear Down																									
11:00-11:50	Introduction to Over-Pressure Protection	Combined Accuracy	Trouble-shooting Control Valves	Poly Ethylene Pipe Standards and Updates	Odorization Systems										Field Meter Testing/ Proving											
12:00-1:00	Lunch - Awards - Prizes - Grand Prize Drawing (you must be present to win) (Salon E-F)																									