



4th Annual Minnesota Electric Meter School
Minneapolis/St. Paul Metro, MN
September 19 - 21, 2011

Monday, September 19

Time	Track 1	Track 2	Track 3
9:00 AM - 12:00 PM	Registration and Check-In		
12:00 PM - 12:20 PM	Welcome		
12:20 PM - 1:00 PM	Host Utility (Topic TBD) [Stephen Foss, Director of Business Operations - Xcel Energy]		
1:00 PM - 2:30 PM	Joint Safety Session [Rick Hawthorne - Carhartt]		
2:30 PM - 2:45 PM	Break		
2:45 PM - 3:45 PM	Meter to Cash Process - Panel Session [Luann LaValley - Minnesota Power, Robert Pillsbury - Xcel Energy, Todd Blom - Ecologic Analytics]		
3:45 PM - 3:50 PM	Transition		
3:50 PM - 5:00 PM	Meter Forms and Applications (1.1)	Service Entrance Equipment, Grounding, and Code Requirements (2.1)	Transformer Loss Compensation in Metering (3.1)
5:00 PM - 7:00 PM	Vendor Hospitality Reception / Exhibits		

Tuesday, September 20

Time	Track 1	Track 2	Track 3
7:00 AM - 8:00 AM	Hot Breakfast		
8:00 AM - 9:00 AM	Handling Customers with Care		
9:00 AM - 10:00 AM	History of Electric Metering (1.2)	Polyphase Metering Review (2.2)	Field Testing Primary Distribution Level Customer Installations (3.2)
10:00 AM - 10:15 AM	Break		
10:15 AM - 11:00 AM	Math for Metering Review (1.3)	Reactive, Demand, and Load Profile Metering (2.3)	Introduction to One and Three-Line Diagrams in Metering Schematics (3.3)
11:00 AM - 11:05 AM	Transition		
11:05 AM - 12:00 PM	Electricity Basics (1.4)	Pulse Metering (2.4)	Troubleshooting Communications (3.4)
12:00 PM - 1:00 AM	Lunch		
1:00 PM - 2:00 PM	Introduction to Single Phase Metering (1.5)	Introduction to Advanced Electric Rates (2.5)	Traceability in Meter Testing Programs (3.5)
2:00 PM - 2:05 PM	Transition		
2:05 PM - 3:00 PM	Shop & Field Testing Single Phase Meters - Hands On Session (1.6)	Instrument Transformer Theory and Applications Hands On Session (2.6)	Power Quality and Metering - Hands On Session (3.6)
3:00 PM - 3:15 PM	Break		
3:15 PM - 5:00 PM	Shop & Field Testing Single Phase Meters - Hands On Session (1.7)	Applications and Wiring of Instrument Transformers - Hands On Session (2.7)	Troubleshooting Lab - Hands On Session (3.7)
5:45 PM - 7:00 PM	Dinner Reception		

Wednesday, September 21

Time	Track 1	Track 2	Track 3
7:00 AM - 8:00 AM	Continental Breakfast		
8:00 AM - 9:00 AM	Tampering and Energy Theft [Rich Brennen - Inner-Tite]		
9:00 AM - 10:15 AM	Metering Utility Rates (1.8)	Net Metering Applications (2.8)	Meter Telemetry Configuration and Scaling (3.8)
10:15 AM - 10:30 AM	Break		
10:30 AM - 12:00 AM	Round Table - Topics in Metering, Q & A [Robert Pillsbury - Moderator]		
12:00 PM - 1:00 AM	Lunch		