



Proven Products, Technical Experts, *Trusted Advisors*

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Mead O'Brien Steam University Agenda for Attendees

- 8:00AM Introduction of attendees
Who is Mead O'Brien?
Steam System System-Wide Objective
- 101 Basics of steam
Steam energy facts
Thermodynamic relationships
Steam table uses
Video: What is Steam?
Steam system-wide components
- 9:00 AM- 9:15 AM (approx.) Break
- 102 Steam Traps
What it is, where it fits, how it works
Function and Operation of generic Steam Trap types
How they operate against typical characteristics
Testing techniques
Troubleshooting and Video
Functional problems associated with Steam traps
Tools to maintain an efficient steam system
Surveys and assessments
Continuous monitoring
SteamStar™
- Q&A
- 11:30 AM – 12:00 PM (approx.) Lunch (delivered)
- 103 Distribution systems
Functional problems associated with Distribution Systems
Effects of not removing condensate formed in the system
Water Hammer and Corrosion
Differential Shock water hammer demonstration
Piping for effectively removing the condensate
PRVs: Use and effect on the steam distribution system
Video: Guidelines for Steam System efficiency

104 Steam usage systems (heat transfer)
Different heat transfer devices
Functional problems associated with heat transfer systems
Process control considerations & challenges
Pressure zone and partial load example
What the control people usually don't consider
Stall and how to overcome it
Vacuum Breakers and TAVs (thermostatic air vents)
Control modes and unintended consequences
Leaving the pressure zone

2:00 PM – 2:30 PM (approx.) Break

105 Condensate return systems
System efficiencies
Electric condensate pumps: operation and advantages
Mechanical condensate pumps; operation and advantages
Open and closed systems: advantages & disadvantages
Stall review and solutions
Flash systems and heat recovery options
Back to the boiler house: Deaerators and their function

Closing questions, comments, or demonstrations