



**PRESTON
PHIPPS**

Since // depuis 1933

AGENDA

STEAM SPECIALTIES SEMINAR

Day 1

- 7:30** Breakfast at Hotel
- 8:00** Coffee, muffins and juice at Preston Phipps
- 8:30** **Introduction from President (Mark Paulin)**
- 8:35** **Fundamentals of Steam (Rino Forgiione)**
- » Sensible and latent heat (BTU's)
 - » Flash steam
 - » Sat. vs superheated steam
 - » Specific volume
 - » Vacuum & Stall
 - » Water Hammer
- 10:30** **Break**
- 11:15** **General Characteristics of Steam Traps**
- » Orifice Selection
 - » Safety Factors
 - » Steam trap operation
 - Thermodynamic
 - F & T
 - Inverted bucket
 - Thermostatic
- 12:30** **Lunch**
- 13:15** **General Characteristics of Steam Traps (continued)**
- » Demonstration on PP Pyrex Steam Circuit
- 13:45** **Proper Piping Practices**
- » Piping Best Practices
 - » Protecting a control valve
 - » Air vent and vacuum breaker installation
 - » Security Drain
 - » Electric pump reservoir
 - » Air Vent installation
 - » Preventing freezing, corrosion and vacuum breakers
 - » Optimizing Heat Transfer
 - » Typical Drawings on AutoCad
 - » Pre-Assembled Manifold for condensate return
- 17:00** **Question Period**

DINNER IN TOWN

Day 2

- 7:30** Breakfast at Hotel
- 8:00** Coffee, muffins and juice at Preston Phipps
- 8:30** **Heat Transfer & Exchangers**
- » Heat Transfer Basics
 - » Types of Heat Exchangers
 - » Material, Construction, and Configuration Selection
 - » Internal Workings of a Heat Exchanger
 - » Steam Coils & Modulation
 - » Exchanger Stall
- 10:00** **Break**
- 10:15** **Heat Transfer & Exchangers (continued)**
- » Live Demonstrations on PP Steam Board
 - Instantaneous Hot Water Heater
 - Steam Based Control - Building Heat
 - Flooded Control - Building Heat
 - Face & Bypass Operation
 - Clean Steam Generator Operation
 - » Demonstration of vacuum
- 12:30** **Lunch**
- 1:15** **Energy Efficiency & Steam**
- » Optimization of Steam Distribution Systems
 - » Steam Trap Management
 - » Thermal Loss Management
- 2:15** **Conclusion and Exam**
- 3:00** **Questions, comments, wrap-up**