



Industrial Refrigeration Systems Energy Management Seminar

Event Information January 31, 2006 7:30 a.m. to 5 p.m.

Lloyd Center Tower
2nd Floor, Multnomah/Irvington Room
825 NE Multnomah
Portland, OR 97232
(Please see page 3 for parking information.)

Cost

\$100 per attendee. Payable by credit card or check, made out to Ecos Consulting. Cost includes morning snacks, coffee, lunch, course materials and the *Industrial Refrigeration Best Practices Guide*, a \$125 retail value.

Who Should Attend

- **Industrial Ammonia Refrigeration End Users** such as system operators, maintenance personnel, and plant engineers who would like to expand their knowledge of refrigeration energy efficiency
- **Refrigeration Contractors, Equipment Suppliers, Technicians and Consultants** who serve the refrigeration industry and are interested in identifying and implementing energy efficient systems
- **Efficiency Program Providers** who are involved in the delivery of energy efficiency programs involving industrial refrigeration systems

Attendance Benefits

- Understand the basic principles of ammonia refrigeration systems
 - Increase performance and enhance reliability
 - Identify systems savings opportunities
- Learn about strategies to reduce system capital costs
- Learn about available financial incentives to support energy efficiency offered by your utility company
- Question and answer opportunities with refrigeration experts
- Review energy efficiency case studies from regional refrigeration users

Course Highlights

Focused on industrial refrigeration systems that use ammonia as the refrigerant, this course will equip attendees with the knowledge and tools to reduce energy usage and operating costs, and improve the reliability of refrigeration systems. Training will focus on technical basics, operation of refrigeration systems, energy efficiency potentials, case studies of successful energy efficiency projects and implementation strategies. Participants will receive a copy of the *Industrial Refrigeration Best Practices Guide*, which serves as the course's technical foundation and a roadmap for making industrial refrigeration systems both energy efficient and productive. With the knowledge and tools gained, past attendees and their customers have implemented low/no cost strategies resulting in annual energy savings greater than \$50,000.

Instructor

Marcus Wilcox, Professional Engineer

Marcus Wilcox, P.E., is the president of Cascade Energy Engineering, Inc. in Walla Walla, Wash. Cascade Energy is a nationally recognized leader in industrial refrigeration energy efficiency. With offices in Portland, Walla Walla and Salt Lake City, Cascade Energy provides scoping, analysis, commissioning, and verification of energy efficiency projects throughout the United States and Canada.



Wilcox holds a BS in Physics from Whitman College and an MS in Mechanical Engineering from Oregon State University. He has conducted numerous seminars for industry participants, as well as ASHRAE and the International Institute of Ammonia Refrigeration.

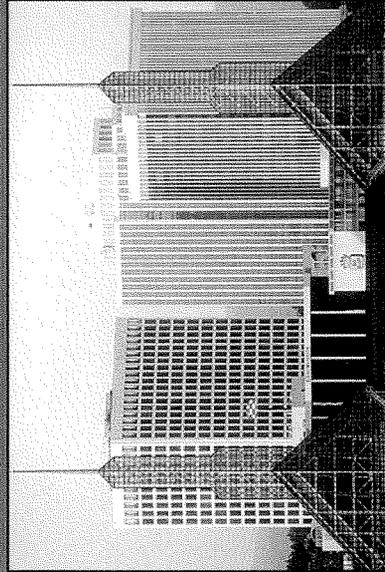
Co-Sponsoring Organizations



Lloyd District

Visitor Lots

- 1 NE 7th & Multnomah
- 2 Kaiser Permanente Building Garage
- 3 700 NE Multnomah Building Parking
- 4 NE Multnomah between 6th & 7th
- 5 Liberty Centre Garage
- 6 Kaiser Permanente Building
- 7 700 NE Multnomah Building
- 8 Lloyd Center Tower
- 9 Oregon Square
- 10 Liberty Centre



CONVENIENT PARKING LOCATIONS

Five convenient locations to serve you with short term and long term lots.

PARKING IS EASY IN THE LLOYD DISTRICT!

FREE FIRST HOUR PARKING WITH TENANT VALIDATION AT SELECTED LOCATIONS

First hour free with tenant validation at three locations adjacent to:

- Lloyd Center Tower
- 700 NE Multnomah Building
- Kaiser Permanente Building
- Liberty Centre

VALIDATED PARKING

Many businesses will validate your parking for visits longer than one hour. Ask the business you visit about their validation policy.

TRANSIT SERVICE TO DISTRICT

Transit services are available through Tri-Met's MAX light rail line and six bus lines; lines #6, #8, #9, #10, #70, and #95X travel through the district. Tri-Met's information phone number is 231-3199.

SECURITY PATROLS

All parking areas are patrolled 24 hours a day, seven days a week by trained security personnel.

FOR ADDITIONAL INFORMATION 235-7275



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