

Registration Form:

Name: _____

Title: _____

Company: _____

Address: _____

City: _____

State: _____ Zip _____

Phone: _____

Fax: _____

Email: _____

Please indicate if you are a utility customer of one of the following:

Electric:

National Grid
NSTAR
WMECO
Cape Light Compact
Other: _____

Gas:

Baystate
NSTAR
Keyspan
Other: _____

Make Checks payable to UMass Amherst.
Checks accepted at the door.

Credit Card Payments Available On-Line

Register on-line:
<http://www.maep.org>

*Register Online at:
<http://www.maep.org>
It's fast and easy!*

About MAEEP:

UMass Amherst has established a partnership with the US Department of Energy Industrial Technologies Program Office of Energy Efficiency and Renewable Energy that has been in effect since 1998. The primary goal of this partnership is to support deployment of energy efficient technology and tools to the industrial sector. The MAEEP program has recently expanded its goals to achieve efficiencies in institutional and commercial sectors. The Best Practices tools offered through USDOE Industrial Technologies Program have general use in many aspects of facility operation including: mechanical systems, process improvement, productivity, resource conservation and waste minimization. MAEEP resources are available to commercial, institutional and industrial sectors in Massachusetts and throughout the Northeast region.

The MAEEP Program delivers its value through a combination of stakeholder input, technology transfer, education and outreach, and research. The MAEEP program leverages resources from USDOE, the University of Massachusetts and the regional Electric and Gas Utilities, NSTAR, NGRID and WMECO, in partnership. All partners work together to identify opportunities to improve the efficient use of electricity and other fuels, improve productivity, and minimize waste in manufacturing and facility operation.

Sponsored By:



Best Practices in Fan System Efficiency

A US DOE Energy Efficiency Technical Training



NSTAR Electric and Gas
Westwood, MA

April 3, 2007
7:30 am - 3:45 pm

Hosted by:



Brought to you by:



Program Description:

Optimizing industrial fan systems can take on many forms, but any fan optimization project must meet the needs of the process. This 1-day workshop highlights the benefits of fan system optimization and examines fan system performance characteristics and practical issues concerning measurement data. The session introduces the DOE's Fan System Assessment Tool powerful analysis software that helps you quantify the potential benefits of configuring fan systems for optimal performance; calculate the amount of energy use by your fan system, and estimate fan system efficiency. Learn how the software works, what data is required for FSAT, and how to interpret assessment results.

Program Benefits:

- Calculate the cost of operating fans in your facility
- Understand the interaction between the fan curve and the system curve
- Analyze the optimization potential of fan systems
- Create an action plan to improve fan system efficiency and reliability in your plant.
- Experience real world examples of technology implementation,
- Receive and get trained on software tools and resources for implementing efficiency improvements,
- Networking with professionals in the energy field,
- Learn about incentive and rebate programs to lower initial cost for replacement and purchases.

Who Should Attend:

- Plant and Facility Managers
- Energy and Mechanical Engineering staff
- Operation and Maintenance staff
- Energy Professionals
- Industrial and Commercial Facilities

Agenda:

7:30 - Registration and Continental Breakfast

8:00 - Introduction

1. The Benefits of Fan System Optimization
2. The Costs of Fan Operation
3. Fan and System Curve Interaction
4. Fan System Efficiency
5. Identifying Optimization Opportunities
6. Fan System Assessment Tool Inputs
7. Fan System Assessment Tool Outputs
8. Summary and Conclusion

3:45 - Adjourn

Instructor:

Ronald G. Wroblewski, PE, is the President of Productive Energy Solutions, LLC, in Madison, Wisconsin. His consulting and training business helps industrial plants and commercial facilities increase productivity and profitability by making more effective use of their fan, pump, blower and compressor systems. Ron is a licensed Professional Engineer in Wisconsin. He is a member of the American Society of Heating, Refrigeration and Air Conditioning Engineers and serves on the Board of Directors for the Midwest Renewable Energy Association. He earned his B.S.M.E. at the University of Illinois at Urbana-Champaign and his M.S. in Mechanical Engineering at the University of New Mexico.

Registration Information:

To register on the web, visit:

<http://maeep.org>

Or fill out this form and mail to:

Chad Nelson
Center Energy Efficiency and Renewable Energy
University of Massachusetts - Amherst
160 Governors Drive
Amherst, MA 01003-9265

Or fax to: 413-545-1027

**Advance registration required.
Registration deadline is March 27
Cancellations after March 27
are non-refundable.**

Cost:

**\$100 for Commercial and Industrial
Customers of Sponsoring Utilities
\$150 for all other**

Use our On-Line Registration Page with Credit Card
Payment Option @
maeep.org

Directions:

Please visit the following web site for directions:
<http://maeep.org/westwooddir.cfm>

MAEEP Program Information Contact:

Dr. Chad Nelson, UMass Amherst
phone: 413-545-2853
email: nelson@ecs.umass.edu
Or visit on-line: www.maeep.org