



FRANK P. LANGLEY CO., INC.

MAIN OFFICE 219 Creekside Drive, P.O. Box 744 Amherst, NY 14228-0744 716-691-7575 FAX: 716-691-7347

Energy Efficient Chilled Water System Design Seminar Thursday, March 19th, 2009 - 8:00 AM - 4:30 PM Amherst, New York

A full day class for the Design, Engineer, Design Build Contractor and Technical Operations personnel focusing on modern day methods used for the development and operations of energy efficient chilled water and cooling tower system designs. This course assumes attendees possess a basic understanding of pumps and hydronic systems design and operation.

Class will include education and discussions on -

- Primary - Secondary pumping - a solution to the need for constant evaporator flow in a variable volume system
- Common pipe - the proper design
- Variable Primary flow system design and application
- Incorporating "Free Cooling"
- Computerized pump selection for improved energy efficiency
- Parallel pumping in the distribution loop for energy savings
- Variable Speed Pumping - proper design criteria and selections
- Proper Piping design considerations for Cooling Towers
- Plate and Frame heat exchanger design considerations for cooling tower applications
- Why ARI certification for Plate and Frame heat exchangers?
- Piping considerations for Plate and Frame heat exchangers for service and backwash

**ATTENDEES
REQUIRING
CEU
WILL
RECEIVE
.7 CEU
CREDITS**

Class Instructor:

Roy Ahlgren - Former Director of ITT Fluid Handling's Training & Education Department, is a graduate of the U.S. Naval Academy with a degree in Naval Science, and the Illinois Institute of Technology, with a Master's Degree in Management. Roy was a Navy Training Specialist and served as Executive Officer of the Recruit Training Command, "boot camp," at Great Lakes and NROTC unit at Northwestern University prior to joining ITT. Roy is now retired from ITT Bell & Gossett "Little Red Schoolhouse" in Morton Grove, Illinois where he taught from 1985 - 2008. He is a past Chairman of the ASHRAE Technical Committee on Hydronic and Steam Systems and Equipment and is active in the Chicago Chapter of ASPE and the Chicago Area Runner's Association. Roy has written many articles for ASHRA and ASPE magazines.

**REGISTER NOW! SEATING IS LIMITED!
FOR MORE INFORMATION CALL US
OR VISIT OUR WEBSITE AT WWW.FPLCO.COM
FRANK P. LANGLEY CO., INC.
(716) 691-7575**

REGISTRATION WILL BEGIN @ 7:30 AM, MARCH 19TH

Location:

Classics V

**2425 Niagara Falls Blvd.
Amherst, New York 14228**

COMPANY _____

STREET ADDRESS _____

CITY, STATE, ZIP _____

TELEPHONE _____

E-MAIL ADDRESS _____

(NEEDED FOR CONFIRMATION)

ATTENDEES

1) _____

2) _____

3) _____

4) _____

REGISTRATION FEE \$75.00 PER ATTENDEE

PAYMENT MUST BE MADE BY MARCH 9TH

If paying by check, please make payable to:

FRANK P. LANGLEY CO., INC.

MAIL TO:

219 CREEKSIDE DRIVE P.O. BOX 744

AMHERST, NEW YORK 14228-0744

PHONE: 716-691-7575 FAX: 716-691-7347

**REGISTRATION FEE INCLUDES: CONTINENTAL BREAKFAST, LUNCH, REFRESHMENTS
AND REFERENCE MATERIAL.**

- I HAVE ENCLOSED A CHECK FOR \$ _____
 Charge to Visa MasterCard American Express

Name on Credit Card (please type or print)

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Expiration Date

3 Digit Security Code