



# MODERN HYDRONICS ADVANCED SEMINAR

Sponsored by Frank P. Langley Co., Inc.  
Presented by Roy Ahlgren

**Tuesday**      **September 20, 2011 - Amherst, NY**  
**Thursday**    **September 22, 2011 - Owego, NY**  
**Friday**        **September 23, 2011 - Albany, NY**  
**8:00 A.M. - 4:00 P.M.**

1. Pump Selection for Intermediate Sized Systems.
2. Using Pumps in Parallel and Series.
3. Using Computer Design Software to Aid in Pump Selection and System Design.
4. Primary - Secondary Pumping.
5. Zone Pumping.
6. Designing a Dual Temperature System for Cooling or Heating.
7. Low Temperature System Design Utilizing Condensing Boilers and System Design (from items 3 and 4).
8. Introduction to Open Systems - Cooling Towers and Their Unique Considerations.
9. Introduction to System Balance Effect on Hydronic System Performance.
10. Introduction to Variable Volume - Variable Speed Systems in Hydronic Design. Optimizing Pump Performance to Match System Design.

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

## WHO SHOULD ATTEND

Anyone who needs an increased knowledge of commercial hot water heating systems such as;

- Contractors
- Design Engineers
- Estimators
- Project Managers
- Maintenance Personnel
- Facility Engineers

### ***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 ASHRAE and ASPE magazines.

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

# REGISTRATION WILL BEGIN @ 7:30 AM

COMPANY \_\_\_\_\_

STREET ADDRESS \_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

TELEPHONE \_\_\_\_\_

E-MAIL ADDRESS \_\_\_\_\_

(NEEDED FOR CONFIRMATION)

ATTENDEES

SEMINAR LOCATION

(Amherst, Owego or Albany)

1) \_\_\_\_\_

\_\_\_\_\_

2) \_\_\_\_\_

\_\_\_\_\_

3) \_\_\_\_\_

\_\_\_\_\_

4) \_\_\_\_\_

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PLEASE INDICATE THE LOCATION OF THE SEMINAR YOU WOULD LIKE TO ATTEND:

- Tues.. Sept. 20 Classics V - 2425 Niagara Falls Blvd., Amherst, NY 14228
- Thurs. Sept. 22 Owego Treadway Inn - 1100 State Rd. Rte 17C, Owego, NY 13827
- Friday. Sept. 23 Italian American Community Center - 257 Washington Avenue Extension, Albany, NY 12205

**REGISTRATION FEE \$100.00 PER ATTENDEE**

**PAYMENT MUST BE MADE BY September 12th**

If paying by check, please make payable to:

FRANK P. LANGLEY CO., INC.

MAIL TO:

219 CREEKSIDE DRIVE

AMHERST, NEW YORK 14228

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)** \_\_\_\_\_

Billing Zip Code \_\_\_\_\_

Card No. \_\_\_\_\_

Expiration Date \_\_\_\_\_

3 Digit Security Code \_\_\_\_\_