



# ENERGY EFFICIENT HYDRONIC SYSTEM DESIGN SEMINAR

Sponsored by the Frank P. Langley Co., Inc.  
Presented by Stan Kutin

**Tuesday**      **September 26, 2017** - **Albany, NY**  
**Thursday**    **September 28, 2017** - **Rochester, NY**  
**Friday**        **September 29, 2017** - **Amherst, NY**  
**8:00 AM - 4:00 PM**

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 hydronic system design. 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 primary flow in a variable volume system
- Common pipe - the proper design
- Variable Primary flow system design and application
- Incorporating "Free Cooling"
- **Systemwize** 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
- Variable Primary/ECM/ASHRAE/PLEV

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

***Class Instructor:***

**Stan Kutin** - holds a mechanical engineering degree from University of Illinois and is a LEED Green Associate. Stan is currently an instructor at Bell & Gossett's Little Red Schoolhouse where his responsibilities include supporting and developing content for a wide variety of training initiatives, including instructor-led seminars conducted at the LRSH, ASHRAE Seminars, Union Apprentice Schools and other field instruction. Stan has been instrumental in establishing the Bell & Gossett web-based on-demand training; technical manual updates; and training videos. He has 20 years of experience with Bell & Gossett. In addition to time as an instructor in the LRSH Stan has supported the development of new commercial high efficiency pump products and flow control / measurement valve products. He is involved as an attending member of ASHRAE TC 6.1 Hydronic and Steam Systems.

**REGISTER NOW! SEATING IS LIMITED!**  
**FOR MORE INFORMATION CALL US OR**  
**email Tina @ [tborowicz@fplco.com](mailto:tborowicz@fplco.com)**  
**FRANK P. LANGLEY CO., INC.**  
**(716) 691-7575**

# REGISTRATION WILL BEGIN @ 7:30 AM

COMPANY (& BRANCH LOCATION IF APPLICABLE)

STREET ADDRESS

CITY, STATE, ZIP

TELEPHONE

E-MAIL ADDRESS NEEDED FOR **ATTENDEE**

SEMINAR LOCATION  
(Albany, Amherst or Rochester)

1)	_____	_____	_____
	NAME	E-MAIL ADDRESS	
2)	_____	_____	_____
	NAME	E-MAIL ADDRESS	
3)	_____	_____	_____
	NAME	E-MAIL ADDRESS	

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

- Tues. Sept. 26 Trevisio by Mallozzi's - 257 Washington Ave. Ext. **Albany**, NY 12205
- Thurs. Sept. 28 Burgundy Basin - 1361 Marsh Road, **Pittsford**, NY 14534
- Friday Sept. 29 Classics V - 2425 Niagara Falls Blvd., **Amherst**, NY 14228

**REGISTRATION FEE \$100.00 PER ATTENDEE**

**PAYMENT MUST BE MADE BY September 11th**

If paying by check, please make payable to:

FRANK P. LANGLEY CO., INC.

MAIL TO:

219 CREEKSIDE DRIVE

AMHERST, NEW YORK 14228

QUESTIONS: email Tina @ [tborowicz@fplco.com](mailto:tborowicz@fplco.com) 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

3-4 Digit Security Code

E-MAIL ADDRESS NEEDED FOR **PAYMENT RECEIPT**:

NAME

E-MAIL ADDRESS