## **Hydronics for High Efficiency Biomass Boilers Training**

in conjunction with the Clean Energy Economy Conference 2016

sponsored by the Adirondack North Country Association

This full day design-focused workshop examines best practices for combining modern, high efficiency wood-fired boilers with hydronic distribution systems. It will cover the operating characteristics of wood-gasification boilers, pellet-fired boilers, and the latest hydronic heating technology that can complement these high efficiency heat sources. The hydronic topics discussed will include low temperature heat emitters, high efficiency circulators, modern control techniques, and options for water-based thermal storage.

The workshop culminates with several examples of how to combine these heat sources and distribution techniques into stable, efficient, and reliable systems. If you plan to be involved in designing or installing woodbased biomass heating systems, this workshop will present a wide range of design details that will help optimize the performance your systems deliver.

\*\* Please note this course qualifies for 7 AIA Member CEU credits\*\*

Monday, June 13, 2016 8:00 a.m. - 5:00 p.m. SUNY Polytech Institute 5701 Horatio Street Utica, NY 13502

**REGISTER ONLINE:** https://www.regonline.com/NYSERDAbiomasss2016copy

## Biomass Boiler Training \$149/per person

For groups of 3 or more attendees from 1 company: \$126.65 per attendee

## For more information contact:

Meeting Planner, Heather Courtney at heather@meetingie.com or (518) 852-0740

## **Instructor Bio:**

John Siegenthaler, P.E., is a mechanical engineering graduate of Rensselaer Polytechnic Institute, a licensed professional engineer, and Professor Emeritus of Engineering Technology at Mohawk Valley Community College. "Siggy" has over 35 years of experience in designing modern hydronic heating systems. He is a hall-of-fame member of the Radiant Panel Association, and a presenter at national and international conferences on hydronic and radiant heating. John is principal of Appropriate Designs - a consulting engineering firm in Holland Patent, NY. The 3rd edition of his textbook - Modern Hydronic Heating was released in 2011. John currently writes about hydronics and heating system design using renewable energy heat sources for several trade publications including: Plumbing & Mechanical, PM Engineer, The NEWS, Supply House Times, and Heating, Plumbing, Air Conditioning (HPAC) (Canada).

