



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 wood-chip boilers and latest hydronic heating technology that can complement these high efficiency heat sources. The hydronic topics discussed will include low temperature that 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 wood-based 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.

Tuesday

September 9, 2014

8:00 AM - 5:00 PM

Mohawk Valley Community College

1101 Sherman Drive

Utica, New York 13501

[Click here to register for the September 9th Biomass training](#)

Tuesday

September 16, 2014

8:00 AM - 5:00 PM

TEC-SMART at Hudson Valley Community College

345 Hermes Road

Malta, New York 12020

[Click here to register for the September 16th Biomass training](#)

Biomass Boiler Training \$149.00*

*For groups of 3 or more attendees from 1 company: \$126.65 each

For more information, contact Meeting Planner,

Brigitte Connors at bconnors@meetingie.com

or (518) 852-8850.

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 will be 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) in Canada.

About NYSERDA

NYSERDA, a public benefit corporation, offers objective information and analysis, innovative programs, technical expertise, and funding to help New Yorkers increase energy efficiency, save money, use renewable energy, and reduce reliance on fossil fuels. NYSERDA professionals work to protect the environment and create clean-energy jobs. NYSERDA has been developing partnerships to advance innovative energy solutions in New York State since 1975. To learn more about NYSERDA's programs and funding opportunities, visit nyserderda.ny.gov or follow us on [Twitter](#), [Facebook](#), [YouTube](#), or [Instagram](#)

