



2019 ALASKA-YUKON WOOD ENERGY CONFERENCE: **WORKSHOP**

Hydronic System Design for High-Efficiency Biomass Boilers

April 17 • 8am – 4:00pm • Wedgewood Resort, Fairbanks

John “Siggy” Siegenthaler will be returning to Alaska to offer his 8-hour class on ***How Hydronic Systems Supplied from Biomass Boilers Should Be Designed.***

Siggy has worked with NYSERDA to provide training for its Renewable Heat NY program. To date they have trained several hundred heating professionals. He has also been involved with plan reviews and “forensics” involving biomass boiler systems that have not performed as expected.



John “Siggy” Siegenthaler

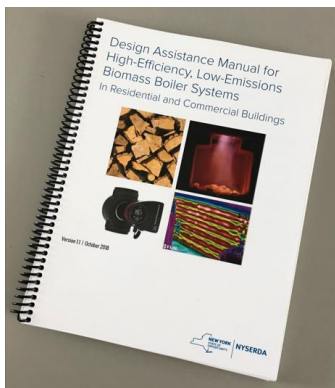
Cost for Workshop: \$200

To register: www.alaskawoodenergy.com



Topics include:

- Operating characteristics of modern pellet-fired boilers
- Operating characteristics of modern cordwood gasification boilers
- Thermal storage options and sizing
- Piping thermal to maintain temperature stratification
- Boiler anti-condensation options
- Proper venting practices
- Outdoor reset control strategies
- Application of high-efficiency circulators
- Mixing options for supply water to distribution system
- Preferred low-temperature heat emitter options
- Creating a combi-system for heating and domestic hot water production
- Retrofitting to existing higher-temperature distribution systems
- Integration with existing boilers
- Use of staged multiple boiler configurations
- Control concepts
- “Lessons learned” from recent biomass heating system installations



SPECIAL OFFER:

The First 20 students to sign up for this class will receive a copy of the new design assistance manual from NYSERDA.

Other students will receive this as a PDF file on a thumb drive.

This course MAY qualify for continuing Education Credits for **PLUMBERS, MECHANICAL ADMINISTRATORS, CONTRACTORS, HOME INSPECTORS, ENGINEERS** and others.

All students will receive a certificate for taking this class.

For more information, contact Karen Petersen at (907) 401-3234 or at biomass@seconference.org



ALASKA ENERGY AUTHORITY



SOUTHEAST CONFERENCE



UNIVERSITY OF ALASKA FAIRBANKS