Time	Pre-Conference Presentation and Discussion (Grenier Room) May 8, 2012; Manchester New Hampshire
7:30–8:00 p.m.	Pre-Registration for May 9–10, 2012 Conference
8:00–8:05 p.m.	Welcome and Introduction Elliott Levine, Technology Manager, U.S. Department of Energy (DOE)
8:05–9:00 p.m.	 Presentation and Discussion on the Qualification of Alternative Fuels. Tom Butcher, Brookhaven National Laboratory John Huber, National Oilheat Research Alliance (NORA) The presenters will provide background information on the heating oil industry and their efforts at pyrolysis oil certification, integration and market considerations. A robust Q&A and discussion session will follow to ensure that attendees to this optional session obtain a broadened perspective prior to the Technical Information Exchange on Pyrolysis Oil Workshop.
9:00 p.m.	Pre-Conference Wrap-up and Announcements Elliott Levine, Technology Manager, DOE

Time	May 9, 2012, Manchester, New Hampshire
7:30–8:30 a.m.	Registration and Continental Breakfast
8:30–8:40 a.m.	Welcome and Introduction
	Steve Chalk, Deputy Assistant Secretary for Renewable Energy, DOE
8:40–8:55 a.m.	The Department of Energy Perspective
	Elliott Levine, Technology Manager, DOE
8:55–9:45 a.m.	Plenary Presentations – Background and Context
	 Presentation: "Known Challenges Associated with the Production, Transportation, Storage and Usage of Pyrolysis Oil in Residential and Industrial Settings" Dr. Jani Lehto, Principal Scientist, VTT Technical Research Centre of Finland Presentation: Integrated System Sensitivities and Perspective
	"A qualitative discussion on conversion, stabilization, and upgrading versus infrastructure compatibility and retrofit requirements" Jonathan Male, Pacific Northwest National Laboratory
9:45–9:50 a.m.	Framing and Instructions for Information Exchange (Chris Clark, Energetics)
	Meeting Guidelines – Chris Clark, Energetics Incorporated
9:50–10:00 a.m.	Break
10:00 a.m. – 12:00 p.m.	Facilitated Discussion on Challenge # 1 – Feedstock and Production—feedstock availability, homogeneity, process and conditioning enhancements and specifications. During the discussion each participant will quantitatively rank each aspect of the challenge.
	Introductions, Ground Rules and Agenda
	 Facilitated Brainstorming – Group consensus and discussion Feedstock availability – physical and chemical composition (not logistics) Process enhancements and optimization – Increase oil yields, reactor design and technological challenges – modeling, reactor bed issue, etc. Emissions changes and impacts from production
12:00–12:45 p.m.	 Presentation "Renewable Heating Fuel – A Commercial Perspective" – Steve Lupton, Envergent Technologies LLC

12:45-2:45 p.m.	Facilitated Discussion on Challenge # 2 – Logistics and Compatibility with Existing Infrastructure throughout supply chain—substitution and replacement issues in transport, storage and use. During the discussion each participant will quantitatively rank each aspect of the challenge.
	 Facilitated Brainstorming – Group consensus and discussion Location of production Transporting feedstocks and fuel Oil storage issues Infrastructure compatible fuels Aging of oil Are there low-cost options?
2:45–4:45 p.m.	 Facilitated Discussion on Challenge # 3 – Operational Issues—what are the most significant barriers to overcome in each market segment. During the discussion each participant will quantitatively rank each aspect of the challenge. Facilitated Brainstorming – Group consensus and discussion Pyrolysis oil conditioning: removal of organic oxygen, minimize coke formation, etc.: deoxygenated pyrolysis, catalytic pyrolysis, final product composition, etc. To effectively address: Compatibility Combustion Corrosivity Plugging Fouling Emissions and Ash Fundamental application issues: Fuel and burner requirements – certification and specification
	 Fuel and burner requirements – certification and specification CHP Market Penetration
4:45–5:00 p.m.	Day One Wrap-up and Discussion of Next Steps for Day Two

Time	May 10, 2012, Manchester, New Hampshire
8:00–8:30 a.m.	Continental Breakfast
8:30–8:45 a.m.	Instructions for Small Group Work
8:45–11:45am	Worksheet Exercise – Technology Advancement Breakdown
	• Small Group Work- Worksheet Completion on significant challenges—Where are we now in comparison to where we need to be to deploy pyrolysis oil? Break out into smaller groups (2-3 people) by technology need and/or area to fill in worksheets establishing indicators of success and performance goals, as well as expected outcomes tied to the advancement of each technology advancement/solution.
11:45 a.m. – 12:00pm	<u>Wrap-up</u>
	 Group Discussion on Missed Challenges other Concerns from Stakeholders Wrap-up and Next Steps