The AFRC 2015 Organizing Committee cordially invites submission of abstracts of papers offered for podium presentation at AFRC 2015, the American Flame Research Committee’s annual industrial combustion symposium. For information on potential topics that typically interest the large number of delegates who are attracted, we suggest that you check out the past AFRC symposia agendas and attendee lists that can be accessed at the AFRC web site by clicking on http://www.afrc.net/past_meetings and the “Partial List of Topics and Issues of Interest” below. But the topic of most interest to the AFRC 2015 Organizing Committee is the one on which you would like to present, the one on which you would like to educate and get feedback from your fellow delegates. All you have to do is submit a brief, compelling abstract for consideration by the AFRC 2015 Organizing Committee.

**ABSTRACT “SPECIFICATION”** – Nothing elaborate. We don’t need the whole story. Just a few sentences briefly expanding on a captivating self-explanatory title. If you want to write a mini-novel, fine. We’ll read it. But we don’t need it.

**Submission deadline:** If you would like to present a paper, you must submit your abstract to Catrina Wilson (catrina.wilson@utah.edu) no later than **February 15, 2015**.

Note that we are quite serious about this deadline.* But with so simple an abstract “specification,” why not do it now? Early submissions are strongly encouraged and will be seen first by the AFRC 2015 Organizing Committee. Author/speakers will be notified of acceptance by April 15, 2015 in plenty of time to get your paper actually written and submitted by the deadline below.

**PAPER “SPECIFICATION”** – Please note **“No paper, no podium!”** is the strict AFRC 2015 rule. If you don’t think so, ask those who didn’t make it into AFRC 2014 Houston. Any format of which you are proud and which makes your organization look good is fine. Length is immaterial as your paper will go on the official AFRC 2015 thumb drives that will be distributed to all delegates.
Submission deadline: To get on the AFRC 2015 podium and final program, accepted author/speakers must submit their papers to Catrina Wilson (catrina.wilson@utah.edu) no later than July 15, 2015.

Note that we are quite serious about this deadline, too.*

* If you don’t think so, ask those who didn’t make it into AFRC 2014 Houston.

Partial List of Topics and Issues of Interest

Impact of Keystone XL pipeline feed in the Texas refinery environs
Combustion system safety and the enhancement thereof
Combustion system noise and the control thereof
Economic alternatives to flaring gas produced in fracking plays
Any prospect of meaningful revision of the failed US federal flare law (40CFR60.18)?
Why no published success stories on optimizing flare CEs and DREs by automatic control to the incipient smoke point?
Huge cost savings on new and replacement process heaters attainable through the use of today’s innovative combustion technology [e.g., flameless; electrodynamic combustion control; etc.]
Why has the power generation sector dropped off the AFRC symposium radar?
Cement kilns; rumors of regulatory interest in ...
Conversions to alternative green fuels (wood pellets, sludge, biofuels)
Conversions to increasingly-abundant fracking-enabled inexpensive shale gas
Carbon capture and storage – oxy-fuel combustion, CO₂ control/sequestration/ utilization; carbon trading
New combustion concepts and application – flameless combustion, electrodynamic combustion control
Air-pollution control techniques for industrial combustion systems
Cogeneration (combined heat and power) leading to process plant electrical independence
Fuel characterization – biofuels, coal, oxy-coal, shale gas, oxyfuels, ash, mineral matter
Biomass-fired boiler performance – combustion, slagging, fouling, corrosion
Combustion modelling – validation and uncertainty quantification
Combustion diagnostics – in-flame measurement and control; sensors and controls for furnaces and boilers
Ultra low NOx burner retrofits in furnaces and boilers, flame to flame interaction, heat flux profiles, matching for new, revamped, upgraded applications
Flare performance and technology, incomplete combustion in flare flames and their emissions, black carbon emissions from flares, optical analysis for flare efficiency, lack of understanding of prior testing on flares, regulatory changes that impact flare system design
Process burner safety, burner management systems, flame scanners, burner dynamics for non-conventional fuel gas mixture; theoretical and practical aspects, biomass co-firing, development of standard specifications for alternative fuels such as municipal solid waste, waste biomass, biogas
Compliance with latest EPA rules such as MATS (Mercury and Air Toxics Stds)
Current combustion research developments
Future combustion-related regulations that will impact industry
Combustion in incineration applications
Boiler MACT/GACT; covers a lot more than just boilers?