

Representing the Interests of America's Industrial Energy Users Since 1978

BoilerBlast News[®]

CIBO Welcomes New Members

[Exothermics, Inc.](#)

[KC Cottrell Inc.](#)

[Solar Turbines
Incorporated](#)

Upcoming CIBO Meetings & Conferences

EE/Technical
Committee Meetings
Arlington, VA
June 11-12

The Fluidized Bed &
Stoker Fired Boiler
Operations and
Performance XXVI
Conference
Louisville, KY
May 20-22

The Industrial
Emissions Control
Technology
Conference XI and a
new Natural Gas
Conversion
Workshop Portland,
ME
Aug 5-8

Contact CIBO:

6801 Kennedy Road
Suite 102
Warrenton, VA
20187
Ph: 540-349-9043
Fax: 540-349-9850
cibo@cibo.org

Energy

Spring has come, Easter is gone by early this year and winter came back with, hopefully the last time with arctic cold front. Has anyone looked at their energy bills this winter? One cannot imagine what they will be when it gets cold or hotter this summer. When is the last time you went to the grocery store to find a 16 ounce anything? They were all 14.5 ounces but at a higher price. Energy impacts everything we make or do. There was an article in Renewable Energy World by Alex Morales (Bloomberg) on March 27 titled "U.K. Clean Energy Rules to Add 36% to Company Power Bills." How much do you think this Administration's energy and environmental policies have added to our power bills and the cost of everything we need? An EIA press release on March 19th indicated the manufacturing sector energy consumption was down 17% from 2002 to 2010 with only a 3% decrease in gross output. The sector used over 14 quadrillion Btu's of energy as fuel in 2010, a decrease of 13% from 2002. As the release says, "The significant decline in energy intensity reflects both improvements in energy efficiency and changes in the manufacturing output mix." It is always in manufacturing's best interest to maximize cost effective energy efficiency. However, even energy efficiency costs money. For those of us in the real world, 14 Quadrillion Btu's (Quads) is 14,000 Trillion or 14 Billion Million Btu's – "a lot." That would mean for every \$1.00 per Million Btu increase in the cost of energy or natural gas, \$14 Billion has to be passed through to those who purchase the products. If it cannot, maybe that production shuts down and workers lose their jobs – someone has to pay, and it takes energy to make or do anything.

There is a very good report by the American Coalition for Clean Coal Energy (ACCCE) on Energy Cost Impacts on American Families, 2001-2013 < www.americaspower.org >. They show that for a family earning less than \$30,000 per year in nominal, after tax, income in 2013 energy costs could account for around 27% of their total living costs. On the other hand if you earn over \$50,000 it would only account for around 9%. Energy cost increases disproportionately impact the poor and less fortunate. We have always believed that combined heat and power (CHP) is the ultimate in efficient energy generation when thermal and electrical energy is needed simultaneously. While the cost of energy is going up for many reasons, the Administration is trying to do all it can to promote CHP. For whatever their motivation, we have an ally with the White House saying the fiscal year 2014 budget will have a competitive grant program worth \$200 million to reward states for innovative efforts to remove barriers and promote CHP and distributed generation. Also in this line, FERC issued a Notice of Proposed Rulemaking (NOPR) on Small Generator Interconnection Procedures & Agreements for fast tracking the permitting of units now up to 5 MW from two. As expected, the utilities are not happy and we expect we are heading back into the old days of PURPA and PUCHA negotiations. This time we have the support of the White House, at least for natural gas fired systems. ELCON, probably the best industry association dealing with FERC on these matters will be generating comments by June 3rd and CIBO will be helping and signing on. If you are not involved with them directly and would like to be check out their website: < <http://www.elcon.org> >. Do you think this all has more to do with GHG emissions or lowering the cost of energy? Do you think this could have anything to do with the DOE promotion of Natural Gas Fired CHP as a compliance answer for ICI coal fired boilers faced with having to comply with Boiler MACT? Work that we have done with URS indicates that around 60% of the ICI coal fired boiler capacity could convert to Natural Gas instead of adding control equipment, thereby increasing the demand for Natural Gas by 530 Trillion Btu – ½ Quad. What impact might that have on the price of gas? We will be talking about all these things at CIBO's meetings this year.

Environmental

April Fool's Day has past, and so to the other last days for filing notifications to the courts that entities will petition the courts against the Boiler MACT, Area Source GACT, CISWI and NHSM Rules. Detailed summaries of all the filings have been distributed to CIBO's Environmental Committee and members indicating they would like to be on the distribution list. We filed a CIBO petition with AMP Ohio signing on for Boiler MACT. Other companies, industry groups and the ENGOs have done the same. CIBO filed the only industry group petition relative to the Area Source Rule against the ENGOs who filed an Area Source petition as well. To prevent the court from rejecting our petitions because we did not exhaust all administrative remedies, we along with anyone else who felt they needed to, have filed an Administrative Reconsideration Petitions with EPA. These are a pretty good indication of what we will see when we have to file the details of what we be petitioning with the courts in May. We filed on the Startup provisions, the need to certify PM CPMS, the need for a 30day rolling average for operating load, failure to address comments on the CO Work Practice Standards, the need for an allowance to fire liquid fuel when Gas 1 or Gas 2 units are interrupted due gas curtailment. The ENGOs filed on the CO limits and CO as a surrogate for organic HAP emissions, the lowered for PM, Hg, and CO, and inconsistency for biomass, lack of Natural Gas conversion as a control technology and the limited use and work practice standards.

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There could very well be more issues than these including anything that went against arguments developed in comments already filed. These details, once they are filed, will be the base of our intervention efforts. If you are not plugged into the detailed technical development work with conference calls on a weekly or as needed basis and want to be, let CIBO staff know (MEMBERS ONLY). **How does this impact compliance with the rules:** Area Source GACT Initial Notification of January 20, 2014 and final compliance by March 21, 2014; and, Major Source MACT Initial Notification of May 31, 2013 and final compliance by January 31, 2016? (There is an additional year possible from the states if it cannot be done by 2016.) **IT DOES NOT.** Much of what CIBO will be doing this year will be helping our members obtain the best answers for their questions and find the correct path for their company to comply in the most cost effective way through the discussion we have at our Quarterly Meetings and the information presented and discussed at our Fluid Bed/Stoker and IECT conferences.

We believe companies will have to make a commitment to a compliance plan not later than the end of the first quarter 2014 – one year from now. The process has started. Most of what you need to know about what you have to do is on the front page of the Website < www.cibo.org >. However, the cost and technology and gas conversion projected technology application and cost information for individual units can only be found on the Members Only site. While Natural GAS conversion may be less expensive for some, it does not say it is affordable.

Technical Focus Group, Environmental, Energy Committee Meetings – June 11-12, 2013 Arlington, VA

Focus Group Topic is "Compliance Technologies for Water Rules." Key topics of Committees to be addressed include: Reconsidered Boiler MACT Slate of rules; Energy Assessments and Tune-ups for BMACT and Area Source Compliance); GHG Regulatory Developments; Litigation, NAAQS (including Modeling), and Coal Ash Updates.

Fluid Bed Combustion & Stoker Fired Boiler Operations and Performance Conference, May 20-22, 2013 Louisville, Kentucky

The scope of this year's conference has been broadened to include stoker fired units and facilities, because we have found that stoker fired boiler owners have similar operational and performance concerns as fluidized bed boiler owners and a need for peer-to-peer discussions. With a projection that around 60% (341) of the 607 coal fired major source boilers may convert to Natural Gas, and 55 units should not have to add controls (tune-ups, assessments, CEMs, monitors and reporting are still needed), there are over 100 units that should be able to apply controls for compliance with their current fuel. Do you have one or know of one of these units?

The conference will include: 1) the results of the expanded CIBO Annual FBC Survey which includes Major Source stoker units, 2) technology developments in alternative fuel and natural gas conversions, 3) and discussions on plant performance assessment, maintenance, and emission control considerations. The optional tour on Wednesday 5/22 is Recast Energy LLC's Biomass conversion.

The CIBO Annual Boiler Performance and operations survey has been streamlined, optimized and modified to be able to address Stoker and PC boilers. It is being sent out this week with a response due date of April 15, 2013. A completed survey (10-20 Minutes) gives you a chance to win an American Express \$200 gift card, and if you are a non-member, the member rate for the conference.

On-Line registration is on www.cibo.org.

Industrial Emissions Controls Technology Conference, August 5-8, 2013 Portland, Maine

By the time we get to Portland, we will know pretty much what has to be done to comply with Boiler MACT. This conference will look at that and the technologies to do it. There will also be a one day session on Natural Gas conversion that Thursday. As we are seeing, it is not as easy as one may think to do the conversion. The conference agenda will be completed the first part of May and posted to the CIBO Website. Members have priority for presentations until May 1st. After that, other presentations are considered. If you have not requested a spot and would like to, there is an abstract form on the Website that will expedite the process.

From the President's Desk – Bob Bessette

It is always a pleasure to start this short paragraph welcoming new members Exothermics Inc., KC Cottrell Inc, and Solar Turbines Incorporated. These companies, in addition to current associate members, will surely be able to help as we look to find the most cost effective ways to comply with Boiler MACT.

Following the March Committee Meetings, we brought a number of our members together in a planning session to set the stage for putting together a long term strategy. Some of the take-aways from the session were that CIBO's Vision and Mission were right on target. We have a strong issue identity with the public at large, and Energy is our core capability. Another point that became evident was how we do things moving forward into the future may require finding ways to work with our antagonist on common interests.

As we move forward, to beyond MACT, the future looks bright, since you cannot do or make anything without energy, and do this in the most cost effective and environmentally beneficial way that provides for sustainable businesses or institutions within a globally and locally competitive market place. This is what we do, and Natural Gas firing use and compliance will become an increasingly important part of that effort.

We Proudly Profile CIBO new member:

KC Cottrell Inc. 

Lodge Cottrell

a KC Green Holdings Company

KC Cottrell Inc. (formerly Lodge Cottrell Inc.) is a full-service provider of air pollution control systems, upgrades to existing systems, expert process consulting, aftermarket parts and experienced field service. As a member of the global KC Green Holdings group, we offer a full portfolio of technologies to control emissions of particulates, SO₂, acid gases, Hg, metals and other air toxics. Our combined experience in air pollution control, along with our sister companies in the U.S. and around the world, traces back over a century to the time of Professor Frederick Cottrell in the U.S. and Sir Oliver Lodge in the U.K. – the advent of electrostatic precipitation. Our company's emphasis in the U.S. is maintaining and improving the performance of existing air pollution control systems as well as retrofit of upgrades and new OEM systems on existing plants that are required by ever more stringent regulations. We offer such services in the areas of ESPs (both American and European-type designs), fabric filters, scrubbers, and dry sorbent injection. To assist customers with identifying the most cost effective overall solution to their plant-specific needs, KC Cottrell Inc. offers engineering studies and consulting services that include our in-house fly ash resistivity lab and prediction of dry sorbent effects on the performance of existing equipment. Please contact us to find out how we can help you meet your air emission control objectives in the most timely and cost-effective way possible.

For more information please contact Michael J. Widico, Vice President, Business Development mwidico@kccottrell.us

Phone: (908) 923-0702 Fax: (908) 824-7056 Mobile: (908) 304-2004, 8 Bartles Corner Road, Suite 204, Flemington, NJ 08822

www.kccottrell.us