



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

## ENERGY

The New Year and the Old Issues with an intransigent President. Senate Bill S. 2012 was held up by the "D's" for \$\$\$ to go to Flint, Michigan to help with their water problems with lead. The death of Justice Scalia, the most conservative justice on the Supreme Court and the most liberal President the US has ever known thinking about nominating someone to fill his shoes, along with the 2016 Election primary season with Donald Trump shaking up the status quo in the political world is probably more than the politicians can handle at this time. There is some new research regarding brain functions that indicated we can only focus on 4 or 5 things at a time without everything getting screwed up. The most efficient way to do anything is one thing at a time. Of course we all know that. However, when we look at what our Congressmen and Senators have to focus on it is a wonder they ever get anything done. Other than for this administrations drive to eliminate any combustion for CO2 emissions sake and global warming (Oh, Climate Change), for John Q. Public, there is now no energy crisis and apathy (mental atrophy regarding high energy costs except maybe electricity) has set in. As such, unless a bland, non-controversial, no cost energy bill that anyone would sign – "It Could Happen!" – is developed, nothing will happen.

There was a chart in the Wall Street Journal the other day indicating the returns on investments in commodities, stocks, bonds and currencies over the last 6 months or so showing the returns against the US Dollar. The top two were Lean Hogs at +17% and Gold at +15.3%. The bottom two of over 100 listing were Natural Gas and Gasoline, both at -23.7%. We have seen Oil prices less than \$30/Barrel and Natural Gas prices less than \$2/MMBtu. Over supply because of the over development when the prices were over \$100.00/Barrel and \$8/MMBtu continues to be the reason. In a presentation by James Koehler of the Berkeley Research Group at the Natural Gas Roundtable in DC on February 25<sup>th</sup>, his projections were that Natural Gas prices would be around \$3.10/MMBtu OVER the NEXT TEN (10) Years. And, that was including whatever LNG export could happen. As is becoming increasing evident, the energy landscape is changing drastically. CIBO's energy activities are increasing rapidly to make sure our members can be prepared to address the issues they will face on the powerhouse floor in the months to come. The March 23<sup>rd</sup> Energy Committee Meeting will be a place to be.

# Boiler Blast News



FEBRUARY 2016

## 2016 Events

**March 22-23 / Technical Focus Group, Energy & Environmental Committee Meeting** / Crystal City Marriott, Arlington, Virginia

**May 23-25 / Boiler Operations, Maintenance & Performance Conference** / Hershey Lodge, Hershey, Pennsylvania **May 26**/Optional Tour

**June 7-8 / Technical Focus Group, Energy & Environmental Committee Meeting** / Hilton Garden Inn, Arlington, Virginia

**Aug 1-4 / Industrial Emissions Control Technology XIV Conference** / Holiday Inn By the Bay, Portland, Maine

**Sept 13-14 / Technical Focus Group, Energy & Environmental Committee Meeting** / Hilton Garden Inn, Arlington, Virginia

**Oct 19-21 / 38<sup>th</sup> Annual Meeting** / Woodstock Inn, Woodstock, Vermont

**Dec 6-7 / Technical Focus Group, Energy & Environmental Committee Meeting** / Hilton Garden Inn, Arlington, Virginia

## WELCOME NEW MEMBERS

[Environmental Consulting & Technology, Inc.](#)

[Preferred Utilities](#)

## ENVIRONMENTAL

The environmental news in 24 Words and 6 subject topics: Regulations, Environmental Overreach, the Courts, the OBAMA Legacy, and Environmentalists' and Renewable Energy Developers' Demands from the last election and for financing the next. A book could be written about each of the subject topics in their own right. They are all interconnected and playing a role in each of our leading environmental issues: Boiler MACT, Clean Power Plan, Ozone NAAQS – 75 & 70, Clean Water Act/Waters of the US, CSAPR I & II, Utility MATS, the Oil and Gas Methane rules, the Natural Gas Fracking Rule and the Coal Ash Rule (Coal Combustion Residuals (CCR)). As long as this Administration and their supporters are at the controls, if you burn anything, you are under siege until you use only renewable electric energy.

As you know CIBO undertook a survey to update the EPA Boiler MACT Database. The final report and information will be reviewed at the March Meeting and a copy when final will be distributed to those who completed it. There were responses from companies representing over 670 units. Between 14% and 15% of the units had been decommissioned and over 70% of the units now burn natural gas. We will be comparing the responses with the original EPA database to determine its benefits for our advocacy efforts. One thing for certain the shift from coal to gas and closure of units should have a significant impact on the Ozone attainment in the future. With some initial modeling, by the OTC, based on our initial projections, there is probably no need for further reductions. The same may be said for reductions in CO<sub>2</sub> as the Administration and ENGOs continue to push the states to do what the Feds cannot mandate actions outside the fence-line. There are states that will do this. The switch from Coal to Natural Gas will already be responsible for a significant reduction in CO<sub>2</sub>. The most that should be asked of industry are for voluntary cost effective energy efficiency upgrades. As long as energy efficiency upgrades, including CHP are not considered environmental control technologies and subject to New Source Review (NSR), cost effective is merely a spark in the night.

## Technical

The Technical Focus Group session on "The Truth Behind CEMS and Regulatory Development – Electronic

Reporting/CEMS/Data Collections" associated with the December EE/Technical Committee Meetings was very timely and informative and sparked great discussions. **Jeff Cleland of Cargill, Inc.** presented "Daily Life of CEMS – Owner Perspective"; **Dan Todd of Air Quality Services, LLC** presented "Daily Life of CEMS QA & PM"; **Joe Macak of Mostardi Platt** presented "Compliance Concerns with Monitoring Data and Emissions Calculations" and **Brent Fitzgerald of Trinity Consultants, Inc.** presented "Continuous Compliance Monitoring Data Gone Bad." **Presentations are on the CIBO members' only website.**

## Technical Focus Group, Environmental & Energy Committee Meetings –March 22-23, 2016 Crystal City, Virginia

Focus Group Topic is Water 101. When we hear anything about air and its impact on the environment we can put it in context with 40 and 50 years of Clean Air Act and environmental activities impacting our energy operating systems. As we continue to improve the Air environment to near background levels, the environmentalists will need something else to justify their existence, funding and ideology that they can market. Based on what we see today, that is "Water." the focus group session is designed to help us get to where we are regarding air with water – the language, the Clean Water Act (CWA) structure and implications. We will follow that up in June with the strategies and technologies to do it. Who knows, some day, if we can survive, we could have to be completely closed facilities getting makeup water from condensing economizers, recycle and reuse with "Zero" discharge to the outside world. As you have read above, there is a lot going on and it is more complicated than it ever has been. We will be trying to help you making sense out of this. Key topics of Committees to be addressed include: Clean Power Plan, BMACT Reconsideration, BMACT Major Source & Area Source Compliance Concerns, NO<sub>x</sub> Cost, BMACT Database Activities, and Coal Ash, Litigation, NAAQS including Ozone Standards, and Water Rules Regulatory Updates. Due to construction, the March Meetings will be held at the Crystal City Marriott which is across the street from the

Radisson (soon to be Hilton Garden Inn).

2016 Conferences & Meetings Schedule Coming from our last Annual Meeting and continuing member's discussions, there will be some very positive improvements to this year's conference schedule. The CIBO 2016 Conferences are:

## The Boiler Operations, Maintenance, and Performance Conference

will be held May 23-25 in Hershey, Pennsylvania. As the new name for the Fluidized bed and Stoker operations and performance conference identifies, we have come to the realization that what was discussed and addressed at the conference and via the operations and performance surveys was applicable to all boiler owners. This conference will solely focus on operations, performance and maintenance issues for the powerhouse as we look at what it will be and where we have to be in the new energy era. The conference will continue to provide time for FBC, Stoker and now gas and oil fired boiler owners to address their unique concerns. An additional ½ day will be added on Wednesday afternoon to address Natural Gas conversions and associated operations issues. An optional plant tour will be on May 26. Agenda and registration are online at [www.cibo.org](http://www.cibo.org).

## The Industrial Emissions Control Technology XIV Conference

will be held by popular demand again in Portland, Maine, Aug 1-4. Environmental regulations are increasingly more complicated and difficult for the industrial and institutional facility to understand and comply. Boiler MACT is in the final stages of compliance and certification, litigation rulings are expected soon and most compliance decisions have been made. Those converting to Natural Gas are not out of the woods. This year, we will focus much of our attention toward case study compliance presentations and look at the latest emission control technologies coming on line, as well as address the implications of other rules that go beyond MACT and issues, like the Ozone NAAQS, RICE, Turbine MACT, PSD, modeling, monitoring and data collection along with the whole host of issues that must be complied with to keep the energy assets of your facility operating. An optional

Thursday workshop will be offered to discuss the details of modeling and data acquisition for compliance and permitting. If you would like to offer or suggest a presentation, your suggestion or abstract should be submitted to Gail Bessette no later than Monday March 28<sup>th</sup> at < Gail@cibo.org >.

### Technical Focus Group, Energy & Environmental Committee Meetings

at Crystal City, Virginia will be the Tuesday and Wednesday of March 22-23, June 7-8, September 13-14 and December 6-7.

The 38<sup>th</sup> CIBO Annual Meeting will at the Woodstock Inn, Woodstock Vermont on October 19-21.

### From the President's Desk – Bob Bessette

Before I get to my thoughts for today, I want to welcome our first new members for 2016 [Environmental Consulting & Technology, Inc.](#) and [Preferred Utilities](#). When you read through the above, complication could very well be an understatement. Because of this complication, and a new business environmental awareness, it is almost impossible to do any energy project by yourself. This is where CIBO and our associate members help every day. As we are in the middle of a MAJOR business, economic and energy transition at a time when we are seeing a generation of energy engineers and operators retiring, CIBO is pushing to stay ahead of the curve to address the problems before our members are negatively impacted.

Low oil prices tend to support low energy costs and a shift of wealth from the wealthy energy corporations to the general public. While some think that is very good, the lag in manufacturing that results from a change from energy development and capital expenditure drivers to housing, general standard of living and increasing public expenditure drivers can have a significant impact on the rate of economic and employment expansion – the profits of our members. The existing and pending environmental overreach continues to burden the transition.

The Bessette Theory of Energy, Economic and Environmental for Social Wellbeing continues to hold.

Energy1 + Economy1 / Environmental1 =  
Energy2 + Economy2 / Environment2

A decrease in energy costs or an improvement in the standard of living in the overall economy generates an improvement in the environment – not the other way around as this Administration would have us believe.

### MEMBER NEWS

#### Biomass Boiler Workshops in 2016

Again this year, Jansen Combustion and Boiler Technologies, Inc. is scheduling two **Biomass Boiler Workshops**, this year to be held in:

**New Orleans, Louisiana, May 5-6, 2016**

**Seattle, Washington, September 22-23, 2016**

In the past fifteen years, these annual workshops have been attended by more than one thousand representatives of numerous plants in the Pulp, Forest, Food Products, and Energy-from-Waste Industries, as well as Independent Power Producers and the Power Sector. In addition to Jansen, the workshops are presented and co-hosted by ProcessBarron, Emerson, PSA, and Lundberg.

For further information and registration details, <https://www.cibo.org/jansen-workshop/> to the Biomass Boiler Workshop flyer.

### MEMBER PROFILE



Environmental Consulting & Technology, Inc. (ECT), serves private- and public-sector clients by integrating science, engineering, technology, and planning and management systems to provide practical solutions to complex challenges.

ECT delivers client service in five key practice areas, supported by a wide range of scientific, engineering and management disciplines. These practice areas include: air quality; natural resource management and permitting; performance assurance and compliance; site assessment and remediation, and water resources. Services within these areas span the power; mining; oil & gas; manufacturing and industry; land development; financial and professional sectors, as well as the government sector.

ECT's multidisciplinary teams focus on practical, cost-effective solutions to complex environmental challenges. In-depth industry expertise ensures the highest technical quality of all services and work products. The company's projects range in size from small, specialty tasks to large, multidisciplinary efforts with budgets of many millions of dollars.

ECT serves clients and markets throughout the United States and on four continents.

For more info contact: **William C. Campbell**  
[wcampbell@ectinc.com](mailto:wcampbell@ectinc.com) or visit [www.ectinc.com](http://www.ectinc.com)