

COUNCIL OF INDUSTRIAL BOILER OWNERS
Fluidized Bed XX Conference

May 21-23, 2007

Embassy Suites Hotel ■ Lexington, Kentucky

Jay Hofmann

Trinity Consultants, Inc.

Communication, Education and Outreach Committee Chairman

John S. Hall

Inter-Power/AhlCon Partners, L.P.

Conference Chairman

How Do You Meet Boiler MACT, CAIR, CAMR, Climate Change and Regional Haze with New and Existing Units and Burn Solid Fuel? Are Fuel and Ash Handling and Management a Concern?

With Natural Gas holding in the \$7.00/MMBtu - Plus range and looking to cost more than 8.00/MMBtu at the slightest sneeze in weather conditions, solid fuel, alternative fuels, and renewable fuels, like bio-mass, are growing in popularity – “Back to the Future.” However, unlike the past, the number of people who understand the fuels and how to convert them to efficient, effective and usable energy are much more difficult to find. Today’s Fluidized Bed Technology may be the only combustion technology capable of meeting almost all state and federal environmental requirements when using locally available and lower cost alternative fuels effectively for the small to middle size utility, Independent Power Producer (IPP) and Industrial, Commercial and Institutional (ICI) communities.

This year’s conference brings the current equipment designers, operators, and support personnel together to better understand the state of the industry, and continue the owners’ only and manufacturers’ & suppliers’ only forums with a joint review and presentation in the general session. Along with this, the conference will include: the presentation of the results of the reformatted CIBO Annual FBC Survey; the latest FBC technology and permitting developments; and a tour of East Kentucky Power’s newest generation FBC boiler facility outside Maysville, KY. Special emphasis will be placed on the fuel and ash storage and handling operations and systems. This should be a direct benefit to anyone currently using solid and biomass fuels. Special fundamentals sessions will be presented for those who want to learn or review what a Fluid Bed Boiler is, how it works and what can be done to optimize its’ performance.

Benefits of Attending the Conference:

- Meet with other owners and operators of fluid bed boilers to discuss technical, management and operational subjects.
- Discuss the latest national issues, concerns, and solutions regarding owning, building and operating FBC Units.
- Review the CIBO annual FBC survey and be able to benchmark your operations with the industry.
- Hear the latest business and technical developments and concerns of the equipment and service suppliers.
- Receive a CD of the conference Proceedings with the Annual Survey report.
- Receive 1.5 CEU’s from CIBO for attendance.

Who Should Attend:

- Plant managers, owners and operators seeking to improve performance, understand current and future management, technical, regulatory trends and activities impacting operations, bottom line return, future operations and growth.
- Architects, engineers, fuel suppliers, technology developers, equipment suppliers, operations and support services’ representatives, state and federal regulators and research personnel.

If you are an FBC plant manager or own, operate, supply equipment or provide services for FBC, coal, waste fuel or biomass systems, or someone looking for a new boiler or power plant to burn solid or waste fuels, and meet Boiler MACT, this is the conference for you.

cibo conference

PROGRAM

Monday, May 21, 2007

11:00 AM

Conference Registration Opens

11:00-2:30 PM

**Registration, Owners' Forum; and
Equipment and Service Suppliers'
Forum**

Noon

Lunch on your own

12:30

**Optimizing Circulating Fluidized Bed
Boilers Workshop**

Roger A. Leimbach, Metso Power and
Automation

**CONCURRENT OWNERS' ONLY,
EQUIPMENT AND SERVICE
SUPPLIERS' ONLY FORUMS**

2:30

**Informal "Owners' Only" Shirt Sleeves
Session**

Facilitator - John S. Hall, Inter-Power/
AhlCon Partners, L.P.

2:45

**Presentation of 2006 FBC Owners'
Survey & Benchmarking Results**

Jack A. Fuller, West Virginia University

Coffee Break (as needed)

3:50

General Discussions

Agenda to be Developed by Participants

CIBO's "Owners' Only" Forum will convene for the eleventh time on the Monday afternoon prior to the conference. Facility owners and operators will discuss Fluidized Bed performance, equipment operation, technology and management issues under today's changing environment.

2:30

**Informal "Equipment and Service Suppliers'
Only" Shirt Sleeves Session**

Facilitator - Robert (Bob) Bibb, B&A Inc.,
Engineers

CIBO's fifth shirt-sleeve session for equipment and service suppliers convenes. The participants will generate their own agenda and discussion points. One of the items to be discussed could be the development of an outline for a Guide for the selection and application for Fluidized Bed Boilers in the United States today.

Coffee Break (as needed)

Each group will appoint people from the group to report on and review the forum discussions in the open conference session on Tuesday morning.

5:00

Shirt Sleeve Sessions Adjourn

5:30-7:00

**Registration, Networking Reception and
Exhibits**

Tuesday, May 22, 2007

7:00-8:00 AM

**Conference Registration & Continental
Breakfast**

8:00

The XX CIBO FBC Meeting Convenes

8:00

Introduction by Conference Chairman

John S. Hall, Inter-Power/AhlCon Partners, L.P.

8:15

**Presentation of 2006 FBC Owners' Survey
Results**

Jack A. Fuller, West Virginia University

9:00

Review of Concurrent Forum Discussions

9:00

**Owners' Panel Review and Report and
Equipment Suppliers'; A/E and Service
Suppliers' Panel Review and Report**

Two separate panels, FBC owners, and equipment suppliers, A/E and service suppliers are convened to present to all conference participants a summary of the discussions at the Monday afternoon closed forums. Sufficient time is allowed to provide for audience participation, clarification and interactive issue development, problem solutions and further needs identification. Additional topics may be brought up from the general participants for discussion.

10:00 **General Discussion and Summary**

Coffee Break (as needed)

ENERGY AND ENVIRONMENTAL ISSUES IMPACTING BOILERS

10:30

Energy and Environmental Issues Impacting Boilers Panel

Ann Curnow, Sebesta Blomberg and
Associates, Inc
William C. Campbell III, ENSR
International
Mike L. King, Black & Veatch Corporation

Noon

Lunch and Exhibits

Luncheon Speaker

Update on Ash Characterization and Regulations for Beneficial Use

Kimery C. Vories, Office of Surface Mining
(Invited)

1:30

Meeting Reconvenes

MEETING TODAY'S AND TOMORROW'S CHALLENGES WITH FBC TECHNOLOGY

1:30 PM

FBC Manufacturers Panel (FBC Design for Today's Fuels)

TBD, Alstom, B&W, Metso Power and
Automation

2:30

Limestone & Sorbant Consideration for FBC Systems

Howard Fitzgerald, Chemical Lime
Company

3:00

Multi-Pollutant Reduction in CFB Systems

Dave Judy, MobotecUSA, LLC

3:30

Coffee Break

3:45

Boiler MACT Dust Emissions Control for a Fluidized Bed Cogeneration Electric Utility

Ron Dechene, Auburn Systems, Inc.

4:15 **Bubbling Fluid Bed Vs. Stoker Firing**

John Defusco, The Babcock & Wilcox Company

4:45

Matching Ash Systems to CFB Boilers & Fuels

Bob Walsh, ALSTOM Power, Inc.
Gary Mooney, ALSTOM Power, Inc.

5:15

CFB System Maintenance and Performance Case Studies

Carl Johnk, TUV SUD Industry Service, Inc.

5:45

Meeting Adjourns

5:45-7:15

Networking Reception and Exhibits

Wednesday, May 23, 2007

7:00 AM

Continental Breakfast

8:00

Conference Resumes

Fuel Transportation & Delivery Alternatives and Concerns

Vanta E. Coda, Consultant

8:45

Fuel & Ash Storage and Handling State-of-the- Art - From Receipt to Disposal

Mathew Norgard, Stock Equipment Company

10:45

Coffee Break (as needed)

10:45

Real World Experience with Biomass and Renewable Fuels

Graeme Donaldson, Colmac Clarion, Inc.
Harvie Beavers, Colmac Clarion, Inc.

11:15

Plant Tour Overview

TBD, East Kentucky Power Cooperative

Noon

Board Bus for Tour

(Box Lunch Provided)
East Kentucky Power

5:00

Arrive at Lexington Airport

5:30

Arrive at Hotel

6:00-7:00

No Host Stragglers Reception

Hotel and Transportation Information

The Conference will be held at the Embassy Suites, Lexington, Kentucky. Please call the hotel direct at 1-859-455-5000 or 1-800-EMBASSY. Guests must mention the "CIBO" room block code when calling to make your room reservation. A block of rooms has been set aside at the special rate of \$129.00 single/double per night. **The cut-off date for reserving rooms at this rate is April 21, 2007.** Late reservations will be accepted on a space-available basis. Be sure to mention "CIBO" when making your reservations. If you have any problems in reserving a room, please contact CIBO.

DIRECTIONS: From: I-75/64: Take Exit 115 then right on to Newtown Pike. Turn right onto Aristides Blvd. at the University of Kentucky Coldstream Research Campus. Hotel is on the right. From Blue Grass Airport: Exit left on to Man O'War Blvd. to Versailles Road. Turn right onto Versailles Road. Take Rt. 4 New Circle Road north to Newtown Pike Exit North. Turn left onto Aristides Blvd. at the University of Kentucky Coldstream Research Campus. Hotel is on the right

The Greater Cincinnati/Covington Airport is located in Northern Kentucky with about an hour drive on I-75 South to Lexington.

Parking

Currently parking for registered guests is complimentary.

Who Should Attend

Plant Owners & Operators, Equipment Manufacturers, Architects & Engineers and Service Suppliers interested in energy supply, security and alternatives. Anyone involved with the long-term energy and environmental planning for an industrial facility should be here.

About CIBO

The Council of Industrial Boiler Owners (CIBO) is a broad-based association of industrial boiler owners, architect-engineers, equipment manufacturers, and university affiliates. They represent more than 20 major industrial sectors. CIBO was formed in 1978 to promote the exchange of information between industry and government relating to energy and environmental policies, laws, and regulations affecting industrial boilers. CIBO has been involved in the development of technically sound, reasonable, and cost-effective regulations for industrial boilers.

You can obtain further information about CIBO, including a list of proceedings from previous conferences and other available publications, in several ways:

- Visit our World Wide Web site at <http://www.cibo.org>
- Call Robert D. Bessette, President of CIBO at 703-250-9042 or send him an e-mail at bessette@cibo.org
- Write to CIBO at 6035 Burke Centre Parkway, Suite 360, Burke, VA 22015-3757, or send e-mail to cibo@cibo.org

Exhibits

CIBO will once again have an exhibit area in conjunction with the conference. For full details, please check the appropriate box on the registration form, check out our web site information at www.cibo.org or call CIBO at 703-250-9042.



Fluid Bed XX Conference Registration

Embassy Suites, Lexington, Kentucky
May 21-23, 2007

The Registration fee for the Fluid Bed XX Conference is \$795 (\$545 for CIBO members, \$200 for government regulators and University Students). This fee covers all meeting materials, breakfasts, lunches and tour. Advance payment is preferred. We accept cash, check, VISA, MasterCard, and American Express. **All registrations should be received by May 11, 2007. Hotel cut-off date is April 21, 2007.** Late registrations will be accepted on a space-available basis. To register, call CIBO, e-mail, fax, or mail a copy of the form below.

Registrar/Council of Industrial Boiler Owners
6035 Burke Centre Parkway, Suite 360
Burke, VA 22015-3757
Phone: 703/250-9042 Fax: 703/239-9042
E-Mail: cibo@cibo.org

- Please Check: CIBO Member Non-member
- FB Fundamentals & Operations Workshop -
May 21, 12:30-2:00 PM
- Owners' Forum - May 21, 2:30-5:00 PM
- Equipment/Suppliers' Forum - May 21, 2:30-5:00 PM
- Tour - East Kentucky Power Spurlock Generating
Station (box lunch provided)
- Please send me information on exhibit booths

NAME _____

FIRST NAME (FOR BADGE) _____

COMPANY _____

ADDRESS _____

BUSINESS PHONE (____) _____

FAX (____) _____

E-MAIL ADDRESS _____

Method of Payment

- Check enclosed. (Make check payable to CIBO)
- Please charge my credit card:
- VISA MASTERCARD AMERICAN EXPRESS

EXP. DATE _____ CARD NUMBER _____

PRINT NAME AS IT APPEARS ON CARD _____

CARD HOLDER'S SIGNATURE _____

Payment total \$ _____

CIBO Cancellation Policy Cancellations received less than 10 days prior to the forum are subject to a \$150 service charge. Attendee substitutions may be made at any time.