

23rd Fluidized Bed Combustion Conference 2010

Fluidized Bed Combustion XXIII

**Jacksonville, Florida, USA
24 – 26 May 2010**

ISBN: 978-1-61738-665-7

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2010) by the Council of Industrial Boiler Owners
All rights reserved.

Printed by Curran Associates, Inc. (2010)

For permission requests, please contact the Council of Industrial Boiler Owners
at the address below.

Council of Industrial Boiler Owners
6035 Burke Centre Parkway
Burke, Virginia 22015

Phone: (703) 250-9042
Fax: (703) 239-9042

cibo@cibo.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

FLUIDIZED BED COMBUSTION XXIII CONFERENCE

Fundamentals of CFB Combustion and CFB Design	1
<i>C.R. Bozzuto</i>	

OWNERS' SURVEY & BENCHMARKING

2009 CIBO Annual Fluidized Bed Boiler Survey Summary of Results	33
<i>J. Fuller</i>	

REGULATORY PANEL

EPA GHG Update- Tailoring Rule and Mandatory Reporting	43
<i>K. Blue</i>	
Future CAIR and Utility/Boiler MACT	77
<i>W.C. Campbell</i>	
EPA's Proposed Regulations Regarding Coal Combustion Byproducts	93
<i>G. Merritt</i>	
Cost of "Proving" Regulatory Compliance at Ebensburg Power Company	137
<i>G. Anderson</i>	

PRESENTATION & PANEL DISCUSSION ALTERNATIVE FUELS

ADM Cogeneration U.S.A.	153
<i>J. Thalhauser, J. Freeman</i>	
Stockton CoGen Biomass Experience	195
<i>C. Gagliardi</i>	

OPERATIONS, MAINTENANCE AND OPTIMIZATION

Controlling Limestone Bed/Feed Distribution for Improved Utilization	230
<i>S. McCaffrey</i>	
Combustion Airflow Measurement & Control on CFB Boilers	262
<i>S. Storm, A. McClellan</i>	
AC Power Colver- Plant Optimization Case Study	280
<i>F. Farabaugh</i>	
Using Up Time to Detect a Boiler Leak at the University of Iowa	296
<i>F. Milster, B. Fish, S. Gordon, D. Richard</i>	
Fluid-Bed Technology Comparison	320
<i>P. McKenzie</i>	

ABSORBANTS

Lime Kiln Dust CFB Injection Results	339
<i>C. Laird</i>	
Calcium Based Sorbents for MACTing Up Your FBC Boiler	356
<i>H. Fitzgerald</i>	
Dry Sorbent Injection of Sodium Sorbents for Multi-pollutant Control	373
<i>H.E. Davidson</i>	

BACKEND NOX, SOX & TOXICS

Air Emission Compliance Solutions for FBC Units	387
<i>D. South, T. Andriola</i>	
Use of Activated Carbon for Mercury & Dioxin Control on Fluidized Bed Boilers	415
<i>R. Miller</i>	
Dry Circulating Fluidized Bed Scrubber Technology	437
<i>P. Honeycutt</i>	
NOx Reductions, SOx Reductions and Sorbent Optimization with the Nalco Mobotec ROFA/Rotamix System on Two 173MW CFBS	462
<i>J. Crilley</i>	

PLANT TOUR OVERVIEWS- JEA AND RAYONIER

Overview of JEA's 300 MW Circulating Fluidized Bed Boilers	489
<i>S. Cooper, J. Kang</i>	
Fernandina Mill No. 6 Power Boiler Project	591
<i>J. Vonnoh</i>	
Author Index	