

# The Gulf Coast TAPPI *Stock Exchange*



## The Gulf Coast TAPPI Fall 2009 Meeting Riverwalk Hotel & Casino, Vicksburg MS

### Petcoke Users Forum

**THURSDAY, SEPTEMBER 24, 2009**

**8:30 AM – 4:30 PM**

A one-day Petcoke Users Forum, bringing together mills that currently use petcoke, mills who are looking for information, suppliers to the petcoke arena, as well as industry and academic experts. Presentations will range from a discussion of petcoke economics worldwide to feed systems & operations while using petcoke to environmental and process impacts. A panel of "experts" will be assembled for a Q&A discussion session. DTE PetCoke LLC is offering a tour of their petcoke pulverizing operations at the end of the day.

**8:00 AM – 4:30 PM Check in and Registration**

*The full agenda of presentations will be assembled and distributed prior to the meeting.*

**8:30 – 10:00 AM PETCOKE ECONOMICS & FEED SYSTEMS**

**“Petcoke Market Outlook”**

*BEN ZIESMER – JACOBS CONSULTANCY, HOUSTON TX*

*Presentation will discuss why there are cokers, what drives petroleum coke production, historical petcoke prices versus other fuels, and outlook for petcoke supply & demand.*

**“Ground Pet Coke Storage, Weigh Feeding, and Pneumatic Conveying Considerations”**

*GENE GOLEBIOWSKI - PHEONIX PROCESS ENGINEERING*

*Detailed description forthcoming.*

**“Advantages in Conducting Operational Trial Burns for Ground Petroleum Coke”**

*DOUGLAS W. KNOTT - MATRIX ENGINEERING, PLLC*

*The use of a Mobile Test Unit (MTU) allows the client the necessary information to answer the question, “What are the benefits of burning petroleum coke in my lime kiln operation”? The use of this equipment allows the client to perform a test that will mirror their current operation. The information collected can provide actual operating data related to petroleum coke feed rate, primary fuel flow, substitution rate, and the ability to determine the money saved from burning this alternate fuel. This information will also provide the necessary environmental information for obtaining a permanent operating permit. Other benefits include operator experience in burning an alternate fuel in the lime kiln, building a working relationship with a supplier of a permanent feeding system, and establishing a relationship with a petroleum coke supplier.*

**10:00 – 10:15 AM BREAK**

## **10:15 – 12:00 AM LIME KILN OPERATIONS, EMISSIONS CONTROL, & BURNER SYSTEMS WHILE BURNING PETCOKE**

### **“Practical Experience in Design and Operation of Petcoke Burners in Lime Kilns”**

*RICHARD MANNING – KILN FLAME SYSTEMS (KFS), UNITED KINGDOM*

*Burning of petcoke in lime recovery kilns has been able to offer a number of financial advantages to end users which outweigh the operational downsides. This presentation highlights the key advantages and disadvantages and some of the major impacts on the burner design for petcoke firing.*

### **“Sulfur & SAM Emissions in Lime Kiln Operations”**

*KIMMO PELTONEN – ANDRITZ, ATLANTA, GEORGIA*

*Emissions impacts from firing alternative fuels in lime kilns.*

### **“Presentation 6 or Operational/Emissions Q&A panel”**

*TBD*

**12:00 – 1:30 PM LUNCH** (Supplier sponsorship opportunity available)

## **1:30 – 3:00 PM LIQUOR CYCLE CHEMISTRY INTERACTIONS AND ENVIRONMENTAL CONSIDERATIONS**

### **“Chemical Interactions When Burning Petcoke”**

*HONGHI TRAN – UNIVERSITY OF TORONTO*

*Petcoke contains relatively high concentrations of sulphur and non-process elements. This presentation will focus on the chemical interactions when burning petcoke in lime kilns, and the potential impact on kiln and recovery operations, particularly lime availability, ring formation, TRS emissions, SO<sub>2</sub> emissions, liquor sulfidity and corrosion.*

### **Preview of: “An Update on the Burning of Alternate Fuels in the Forest Products Industry: Part I – Petcoke and Tire-Derived Fuel”**

*CHRIS DIETEL PRESENTING FOR DR. ARUN V. SOMESHWAR – NATIONAL COUNCIL FOR AIR AND STREAM IMPROVEMENT (NCASI)*

*NCASI will soon be publishing an update to the earlier NCASI report (TB 906), which included a full characterization of several alternative fuels, is presented in two parts. Part I (current report) will cover the use of petcoke in the industry’s lime kilns, Kraft recovery furnaces and power boilers. It will also include an update on the practice of burning TDF in boilers in general. An overview of this upcoming report will be furnished by NCASI to be presented in their absence.*

**3:00 – 3:15 PM BREAK**

**3:15 – 4:30 PM - PETCOKE PANEL Q&A SESSION**

**4:30 PM – 6:00 PM Tour of DTE PetCoke LLC’s Petcoke Pulverizing Operations at the Port of Vicksburg (hotel shuttle will depart approx. every 30 minutes to the site)**

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**6:00 PM – 8:00 PM - Executive Committee Meeting**

*ALL ARE WELCOME and encouraged to attend & participate, as the GCT Leadership Committee discusses planning for future meetings & general Section business*

## Lime Recovery Kiln Operations

**FRIDAY, September 25, 2009**  
**Riverwalk Hotel & Casino**  
**7:00 AM—1:00 PM – Registration**

The Friday Technical Sessions will focus on Lime Recovery Kiln Operations. We have a excellent & diverse slate of speakers. Incuded are industry professional personnel from various equipment & system design groups and more interesting; we have several technical research leaders (such as Dr. Honghi Tran from UofT) and hands-on experienced folks (such as Ray Leary) that will be addressing daily concerns of Lime Kiln Operations such as Alternative Fuel Firing, Ringing Problems and Overall Systems Operating Issues. Our Keynote Speaker will be; the always intriguing and thought provoking, Jim Thompson speaking on the potential impacts of Cap & Trade Regulations. We look forward to seeing you in Vicksburg!

### **8:00 – 10:00 AM TECHNICAL SESSION I**

#### **“Utilization of Alternative Fuels in Lime Kilns”**

*KIMMO PELTONEN – ANDRITZ, ATLANTA, GEORGIA*

*The use of alternate fuels has become a viable option for many kiln operators. We will discuss the impacts and effective limits of many popular alternate fuels in the kiln and recausticizing process.*

#### **“Combustion System Problems/Evaluations/Resolution & Modern Design”**

*RICHARD MANNING – KILN FLAME SYSTEMS (KFS), UNITED KINGDOM*

*Combustion system problems can cause significant problems in lime kiln operation from inconsistent product quality, ring formation, inefficient operation & refractory wastage. It is critical to do a proper and thorough analysis of the combustion system operation using modern tools such as physical modeling to accurately adjust or even fully redesign the burner to solve the problem. This presentation will focus on these issues & resolutions as well as incorporate a discussion on “modern” burner design.*

#### **“Ring Formation in Lime Kilns”**

*DR. HONGHI TRAN – UNIVERSITY OF TORONTO, CANADA*

*Ring build-up s a major issue in lime recovery kiln operations. Significant formation can reduce production & efficiency and possibly even force unplanned outages to remove the build-up. Dr. Tran has studied this issue for many years, collecting and analyzing data and preparing research papers & presentations sharing the findings. This presentation will review ring-building mechanisms and methods to control their impact on kiln operations.*

#### **“Lime Kiln Operating Problems – Causes & Effects as the Lime Goes Round the Cycle”**

*RAY LEARY – HOUGHTON CASCADEHOLDINGS, LLC.*

*In his many years operating, supervising and assisting in start-ups & trouble-shooting throughout the Weyerhaeuser organization, Ray has gained an astute knowledge and abilities based on facts and experience, not just from reading, research & listening to presentations. This presentation will look at typical problem issues in the kiln/recausticizing area that are inter-linked, how to avoid pitfalls, problems and improve your life in the control room.*

### **10:00 – 10:30 AM BREAK**

**10:30 – 12:00 AM TECHNICAL SESSION II****“Optimizing Kiln Efficiency”**

*JOHN YARBROUGH & DON ROBINSON—OPTIMIZING MINERAL PROCESSES, LLC. FORT WORTH, TEXAS*

*This presentation will promote a system-wide approach to optimizing kiln operation and reducing costs by reviewing each item that impacts fuel efficiency. Where improvements are possible they should be evaluated to determine the costs effectiveness of the improvement. Operating and efficiency goals should be established and monitored statistically for additional improvements.*

**“Advanced Control = Optimized/Stabilized Operations = SAVINGS”**

*MIKE WOLFENSPERGER – METSO AUTOMATION, NORCROSS, GEORGIA*

*Kraft Mills throughout the world have realized significant operating efficiency improvements, reduced operational & maintenance issues and more continuous “steady state” kiln operation with less operator attention & stress. This has been accomplished with the design and application of advanced kiln control systems. The design to be discussed is based on “Fuzzy Logic” operation and is currently operating on more than a dozen kiln systems worldwide. Actual specific benefits that have been gained through implementation will be presented.*

**12:00 – 1:30 PM LUNCH** (provided by Gulf Coast TAPPI)

**KEYNOTE SPEAKER – JIM THOMPSON – TALO ANALYTICAL**

**CAP AND TRADE – Potential impacts to Pulp/Paper Mill Operations**

**1:30 – 3:00 PM TECHNICAL SESSION III****“Membrane WESP – Lower Cost Technology for Fine Particulate & Sulfuric Acid Mist Control”**

*HARDIK SHAH – SOUTHERN ENVIRONMENTAL, INC., PENSACOLA, FLORIDA*

*Fine particulate & sulfuric acid mist control technologies are becoming more important for the lime kilns, especially pet-coke fired kilns. This new membrane Wet Electrostatic Precipitator technology (WESP) is a lower cost, and is ideally suited for removing fine particulate and sulfuric acid mist. The operation and performance of five commercial size WESP units will be presented along with recommendations on how Membrane WESP can be used to control fine particulate and sulfuric acid mist.*

**“Bustin’ Chunks N’ Breakin’ Rings”**

*GLENN M. HANSON III – METSO MINERALS INDUSTRIES, INC. – CUMMING, GEORGIA*

*An ever present issue in lime kiln operations, rings & balls/chunks, this presentation will discuss current technologies utilized to address the problem. From CO<sub>2</sub> “blasters” to “Grizzly Lump Breakers to the good old kiln gun; what are people doing, what are the designs & advantages of some of that there “modern” technology.*

**3:00 – 3:30 PM BREAK****3:30 – 5:00 PM - TECHNICAL SESSION IV****“Increasing Kiln Efficiency Through the use of Insulated Refractory”**

*TOM GENCARELLI – HARBISON-WALKER REFRACTORIES, PITTSBURGH, PENNSYLVANIA*

*Advancements in refractory technology have led to the development of strong, semi-dense, insulating refractory brick that may be used behind dense brick in the burning zone of lime recovery kilns and as full thickness liners in the intermediate zone. Lining design and potential for an increase in efficiency will be discussed.*

**“Cruise Control for the Lime Kiln”**

*JUKKA PERELA – CAPSTONE TECHNOLOGY, ATLANTA, GEORGIA*

*Over the years Capstone has implemented several lime kiln MPC solutions in various mills in Southern USA and elsewhere, using alternative fuels such as pet coke and tall oil in addition to more conventional ones. The Presentation will discuss our experience on the subject, and the challenges and opportunities we have come across with the implementation of lime kiln control projects.*

**5:00 – 5:15 PM - GCT Supplier Society Meeting**

## MEETING OFFICERS

Meeting and Session Chairman: Glenn Hanson, Metso Minerals, 404-432-4498

Local Arrangements: Chris Dietel, DTE Energy Services, 678-566-3815

### **HOTEL INFORMATION:**

*Location:* Riverwalk Hotel & Casino  
1046 Warrenton Road  
Vicksburg, MS

Hotel Reservations: (601) 634-0100

*Rates per night:* \$69 if booked by 8/31/09  
(Wed & Thurs) \$79 after 8/31/09

*Friday hotel rate \$79*

**www.riverwalkvicksburg.com**

Please mention affiliation with **Gulf Coast TAPPI**

Hotel reservations should be made directly by calling the Riverwalk Hotel & Casino.

### **LOCAL INFORMATION:**

There is so much to see and do in Vicksburg. For the history buff, there is the 1,800-acre Vicksburg National Military Park, America's most monumented national military park, where the fate of our nation was decided in 1863. Within the Park you'll also find a Union ironclad gunboat with over 6,300 artifacts that had been submerged on the bottom of the Yazoo River for 102 years. The largest National Military Cemetery of Union dead in the United States is located in the park, and a few miles away 5,000 Confederates repose at Soldiers Rest in City Cemetery. The Vicksburg Battlefield Museum, just east of the military park, features models of gunboats, the film "Vanishing Glory" which tells about civilian life during the siege as well as a diorama depicting the Siege of Vicksburg.

For over five decades of the 1800s, Vicksburg was the center for the aristocracy whose wealth was based on cotton and lumber. A glimpse of its former glory is evidenced by the preservation of many historic churches (two containing Tiffany stained glass windows), government buildings and homes, dating to the 19th Century. Our most historic building, the Old Court House Museum, was constructed in 1858 and survived the Civil War with minimal damage. It is now the home to over 15,000 artifacts dating from pre-Columbian times to present day.

Historic Downtown Vicksburg offers a variety of restaurants specialty shops and art galleries. You'll also find The Corner

Drug Store with an engaging collection of Civil War artifacts; the Biedenharn Coca-Cola® Museum where Coca-Cola® was first bottled in 1894; and the Antique Doll and Toy Museum. On the floodwall along Levee Street over thirty-two murals by artist Robert Dafford depict the history of Vicksburg and just across the street is the whimsical Children's Art Park at Catfish Row and splash fountain.

If it's gaming you want, dockside casinos abound, offering games, food and entertainment 24-hours a day, year round.

**www.visitvicksburg.com**

### **Vendors Note:**

A limited number of tables (3x6) will be available for product displays. One per company: \$100. Contact Chris Dietel.

### **MEETING PARTICIPATION FEE:**

Registration (TAPPI Member-mill)*	\$80
Registration (Non-Member-mill)	\$90
Registration (TAPPI Member-vendor)*	\$110
Registration (Non-Member - vendor)	\$120
Speaker (supplier only)	\$40
Student	\$10
Retired	\$25

\* indicates current membership in National TAPPI

[Professional Engineers: PDH Certificates will be available on request](#)

## LONG - RANGE PLANNING CALENDER

The following table is the *proposed schedule* for meetings through the year 2010. Please contact the meeting chairman if you need any further information about the meeting and to confirm the meeting details.

DATE	LOCATION	TOUR	TOPIC(S)	MEETING CHAIR(S)
Sep 24 & 25, 2009	Vicksburg, MS	DTE PetCoke LLC processing plant	Lime kiln, Caustic, issues in digester and recovery boiler	<b>Meeting and Technical Sessions:</b> <b>Glenn Hanson – Metso Minerals</b> <a href="mailto:Glenn.Hanson@metso.com">Glenn.Hanson@metso.com</a> <b>Local Arrangements:</b> <b>Chris Dietel</b> <a href="mailto:dietelc@dteenergy.com">dietelc@dteenergy.com</a>
Feb 2010	Birmingham, AL	Bowater – Coosa Pines, AL	Recovery	<b>Meeting and Technical Sessions:</b> <b>Chris Dietel</b> <a href="mailto:dietelc@dteenergy.com">dietelc@dteenergy.com</a> <b>Local Arrangements:</b> <b>Andy Easley – AbitibiBowater</b> <a href="mailto:andy.easley@abitibibowater.com">andy.easley@abitibibowater.com</a>
June 2010	Destin, FL	Golf, Fishing, Tennis	TBA	<b>Meeting and Technical Sessions:</b> <b>Glenn Hanson – Metso Minerals</b> <a href="mailto:Glenn.Hanson@metso.com">Glenn.Hanson@metso.com</a> <b>Local Arrangements:</b> <b>Tim Watson - TriNova</b> <a href="mailto:tim@trinovainc.com">tim@trinovainc.com</a>
Sep 2010	Tba	Tba	Tba	<b>Meeting and Technical Sessions:</b> <b>Local Arrangements:</b>

Please send your updated **EMAIL ADDRESS** if you would like to receive the Stock Exchange over email and you are not currently getting it or you have had a recent change in email address. New or changed addresses can be sent to [jeff.smith@BTG.com](mailto:jeff.smith@BTG.com).

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### TAPPI'S ANTITRUST POLICY STATEMENT

The Technical Association of the Pulp and Paper Industry, Inc. is a professional and scientific association organized to further the application of the sciences in the pulp and paper industry. Its aim is to promote research and education in the practice of pulp and paper manufacture. TAPPI is not intended to, and may not, play any role in the competitive decisions of its members or in any way restrict competition in the pulp and paper industry.

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Please note that TAPPI policy prevents the scheduling of business or social activities between and among participants during times of scheduled functions.

# GULF COAST TAPPI EXECUTIVE BOARD WORKING FOR YOU!

## GULF COAST TAPPI OFFICERS

John Graves <u>Chairman</u>	AbitibiBowater 256-378-2663
Steven Prout <u>Vice Chairman</u>	Alabama River 251-743-8252
Elizabeth Etheridge <u>Treasurer</u>	Rock-Tenn Paper 334-289-6216
Andy Chorney <u>Secretary</u>	SCA Barton 256-370-8156
John Lovelady <u>Past Chairman</u>	Smurfit Stevenson 256-437-3220

## EXECUTIVE COMMITTEE 2009-2011

### Terms Expiring 2010

Randy Paff	SCA Barton
Jeff McKee	Weyerhaeuser
Stephanie Fendley	Boise Jackson
Fred Thompson	Tessengerlo Davison
Mark Slaby	Voith
Wayne Bucher	NORAM Engr
Glenn Hanson	Metso Minerals
Lynn Marlow	Boise Jackson
Matt Worley	Harris Group
Chris Dietel	DTE Energy Svcs
Doug Knott	Matrix Engr
Andy Easley	AbitibiBowater

### Terms Expiring 2011

Chris DiCicco	Eka Chemicals
Miranda Shope	AbitibiBowater
Doug Anderson	Rock-Tenn
Rob Willhelm	PCA

## COMMITTEE CHAIRS

Corresponding Secretary	Jim Thompson	Talo Analytic
Supplier Society Chairman	Tim Watson	Tri Nova
Registration	John Graves	AbitibiBowater
Membership/Publicity	Jeff Smith	BTG Americas
LSOC	Manuel Sibila	RohmNova
Student Chapter Advisors:	Gopal Krishnagopalan	Auburn University
	Dale Smith	Alabama Southern Community College

**YOUR PARTICIPATION IN THIS GROUP IS WELCOMED, AND NEEDED! CONSIDER THE PROFESSIONAL DEVELOPMENT AND CAREER OPPORTUNITIES FROM NETWORKING AND LEADING THE GULF COAST ASSOCIATION.** Please contact Jeff Smith at 770-330-8613 or [jeff.smith@BTG.com](mailto:jeff.smith@BTG.com) for information on being a part of this leadership team.

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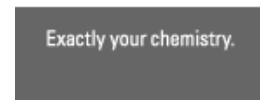
GULF COAST SECTION

Thanks to our 2009 Annual Technical Conference Sponsors

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## SEPTEMBER 2009 TECHNICAL PROGRAM

# Petcoke Users Forum & Lime Recovery Kiln Operations

### ON-SITE REGISTRATION/APPLICATION FORM

Please Print or Type

<b>Name:</b>		<b>Name for Badge:</b>
<b>Title:</b>		
<b>Company:</b>		
<b>Address:</b>		
<b>City:</b>	<b>State:</b>	<b>Zip</b>
<b>Work Phone:</b>	<b>Cell:</b>	
<b>Email:</b>		
<b>National TAPPI Member?</b>	Yes / No <b>(Please Circle)</b>	
<b>Category:</b>	Mill / Supplier / Consultant / Educator / Retired / Student <b>(Please Circle)</b>	

#### Payments for the Friday Sessions

___ Technical Session, Mill & Educator *	8:00 AM-5:00 PM	\$80
___ non-TAPPI Mill Person, Educator	8:00 AM-5:00 PM	\$90
___ Technical Session, Students	8:00 AM-5:00 PM	\$10
___ Technical Session, Retired	8:00 AM-5:00 PM	\$25
___ Technical Session, Supplier & Consultant *	8:00 AM-5:00 PM	\$110
___ non-TAPPI Supplier, Consultant	8:00 AM-5:00 PM	\$120
___ Speaker (mill representative)	8:00 AM-5:00 PM	\$0
___ Speaker	8:00 AM-5:00 PM	\$40

\* indicates current membership in National TAPPI

**TOTAL FEES PAID (cash or check please) \$**

If bringing a guest please provide name for a badge:	
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I am registering for: \_\_\_ Thursday only \_\_\_ Friday only \_\_\_ Both Thursday and Friday programs

Will you be attending Thursday's Petcoke Users Forum? \_\_\_ Yes \_\_\_ No (no cost to attend)

Will you be attending the tour of the DTE PetCoke LLC pulverizing operations? \_\_\_ Yes \_\_\_ No

Will you be attending Friday's Technical Session (Lime Kilns)? \_\_\_ Yes \_\_\_ No

**Payment Options:**

Cash\_\_\_ Check\_\_\_ Credit Card\_\_\_

**Payment Information:**

Name on Card: \_\_\_\_\_

Check No. \_\_\_\_\_

Credit Card Type: \_\_\_\_\_ Exp: \_\_\_\_\_

Cash: \$ \_\_\_\_\_

Card Number: \_\_\_\_\_

(sorry, Discover and Diners Club not accepted by our processor)

**You may fax (256-378-2664, latest Sep 21) or email anytime ([John.Graves@abitibowater.com](mailto:John.Graves@abitibowater.com)) this page to expedite your registration. Your badge and receipt will be ready. You only need make payment on site.**