TAPPI GULF COAST

TAPPI SE SOUTHEASTERN

JOINT MEETING

DECEMBER 5TH & 6TH, 2024

Georgia Tech Savannah

190 TECHNOLOGY CIRCLE

(EDRB BUILDING)

SAVANNAH, GA 31407

"KILNCON 2024"

The preeminent event: Gathering experience and skill combined into workshops, technical sessions and social opportunities for anyone & everyone involved with Lime Kilns & Recausticizing

SEE FINAL PAGE OR ATTACHED FOR REGISTRATION
PLEASE COMPLETE ASAP & SEND TO:
Attn: Bill Josephson, email josepbe@auburn.edu
NO ADVANCE PAYMENT REQUIRED - PAY ONSITE

THURSDAY, DECEMBER 5, 2024
Georgia Tech Savannah Campus
8:00 AM – 1:30 PM Check-in and Registration
8:00 AM – 5:00 PM Technical Program

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WORKSHOP SESSIONS

THURSDAY, DECEMBER 5, 2024

8:00 AM – 5:00 PM (EST)

WORKSHOP #1 – 8:00AM – 12:00PM
LIME KILN MAINTENANCE "As the kiln turns & keeps turning"

8:00 AM – 10:00AM KILN MAINTENANCE WORKSHOP

WORKSHOP FACILITATOR:

- *GLEN CAHALA - Sales Engineer, A-C Equipment Services, Milwaukee, WI*

An experienced kiln design, manufacture & service company gentleman will share knowledge & discuss key maintenance concepts for the lime kiln.

Preliminary Agenda

- ***Basic Lime Kiln Mechanical Design***
- ***Kiln Shell, Tires/Riding Rings, Carrying/Support/Trunnion Rollers, Bearings, Thrust Mechanisms***
- ***General Lime Kiln Inspections; Daily, Monthly, Annually***
- ***Ovality; what is it & why is it critical to monitor***
- ***Lime Kiln Drive Systems***

10:00 AM – 10:15 AM – Break

10:15 AM – 11:00AM KILN ALIGNMENT WORKSHOP

- *ANDY KNOUSE - Field Service Alignment Specialist, Metso, York, PA*

Hot Kiln Alignments are a vital & critical set of services designed to analyze current kiln axis arrangement as well as other measurements that can offer insight into needed adjustments, repairs &/or parts replacement on rotary kilns. This presentation will cover the basics of hot kiln alignment surveys, different ways they are performed & the additional measurements that can be taken to provide a guide to getting a kiln into optimum mechanical operating condition.

11:00AM – 11:30 AM KILN ALIGNMENT WORKSHOP (continued)

Continuing the presentations & discussion on Kiln Alignments, 2 experienced personnel will cover shorter sub-topics directly related to kiln alignment

- *TBD*

"What should be expected in a Hot Kiln Alignment & what should you do with the information that you receive"

11:30 AM – 12:00 PM KILN MAINTENANCE WORKSHOP (continued)

PANEL DISCUSSION – OPEN Q&A
ALL of the morning presenters will be available for an open Q&A session

12:00 PM – 1:00 PM LUNCH (Provided by TAPPI Local Sections)

WORKSHOP #2 – 1:00PM - 5:00PM
LIME KILN & RECAUST – PROCESS & OPERATIONS
"Turnin', Burnin' & Churnin' - from Mud to Reburn & Green to White"

1:00 – 3:00 PM - LIME KILN PROCESS/OPERATIONS WORKSHOP
WORKSHOP FACILITATOR:

- *GLENN HANSON - USA Pyro Technical Sales Support, Metso*

Present and facilitate discussions on lime kiln process & operations

Preliminary Agenda

- ***The Lime Kiln Process***
- ***Types of Kilns***
- ***Combustion & Heat Transfer in the Lime Kiln***
- ***Improving Lime Kiln Efficiency; basic optimization & major projects***
- ***Lime Kiln Quality Considerations & Related Process Concerns***
- ***General Guidelines for Lime Kiln Operation***

2:15 PM – 2:30 PM – Break

3:00PM– 5:00 PM - RECAUST PROCESS/OPERATIONS WORKSHOP
WORKSHOP FACILITATOR:

- ***JEFF BUTLER - Mills Division-Center of Excellence, Manager Engineering Services,***
  Graphic Packaging International, Atlanta, GA
  Any experienced chef will tell you; the best quality ingredients and tools are necessary to make the recipe work. To make good white liquor & have the least problems in recausticizing, it is essential to have clean green liquor, high quality reburned lime & good causticizing control. This presentation will cover these topics and relate the importance of each step & the equipment involved in the recausticizing process. Jeff Butler with +20 years in this process area in mills, as a supplier & now at the corporate level, will discuss green & white liquor handling in both sedimentation & filtration based systems, lime mud & dregs filtration. Included will be functional descriptions, current sizing standards and troubleshooting problems in recausticizing operations.

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LOCAL SECTION PLANNING MEETING

This is an open meeting; everyone is welcome to attend. WE NEED VOLUNTEERS!
Come help ENERGIZE the Gulf Coast & Southeastern Local Sections.
Find out how the sections operate, help plan the future and where you might plug in!
Thursday, December 5th, 2024
5:00 PM – 5:30 PM (EST)

SOCIAL RECEPTION

ALL registered attendees are welcome, enjoy snacks & refreshments, unwind with fellow KilnConics
Thursday, December 5th, 2024
6:00 PM – 8:00 PM (EST)

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TECHNICAL SESSIONS

FRIDAY, DECEMBER 6, 2024

Georgia Tech Savannah Campus

8:00 AM – 1:30 PM Check-in and Registration

8:00 AM – 5:00 PM Technical Program

8:00 AM – 9:30 AM TECHNICAL SESSION 1

"Kiln Feed End: Feed Screws to Flash Dryers"

TAYLOR RESPARC – Product Manager, Andritz, Atlanta, GA

This presentation highlights the innovations in lime kiln feed end systems. Increasing kiln efficiency and capacity requires better ways to convey and process lime mud in the kiln. The installation of a high efficiency cyclone or external flash dryer system to encourage kiln internal dust recycle are ways to achieve higher throughput. Mill operating data and operational experience are presented showing the "real world" benefits that can be obtained when a properly designed cyclone system is installed.

"**Pokin', Chokin', Shootin' & Shutdowns – A working mill solution"**

BROOKS EPTING - Assistant Recovery Superintendent, Smurfit Westrock, Demopolis, AL

Presented by: GLENN HANSON – Pyro Technical Sales Support, Metso

This presentation will review common causes, contributing factors and resolutions to kiln build-up. Often kiln internal buildup must be removed as it limits production &/or the excessive loading effects the kiln mechanical operation. A mill with chronic issues looked at more associated areas &/or deeper into overall area processes to find root contributors and develop solutions. Presentation will include updates on their work which has continued to the point of near total elimination of kiln build-up issues and the associated operational problems & costs. Additional current issues facing the lime kiln/recaust area of the mill will also be presented & discussed

"Mill Study on Increasing Lime Kiln Efficiency"

JOHN DEJARNETTE – Senior R&D Researcher, Smurfit Westrock Corporation, Richmond, VA

Optimization of the lime kiln requires a review of the entire lime cycle. To increase the energy efficiency of the kiln, all auxiliary unit operations must function properly. It is also imperative that the lime & liquor in the system is of acceptable quality. We detail a kiln energy efficiency study performed at the WestRock Covington, VA mill. From a recausticizing standpoint, lime quality is much easier to control than liquor quality because liquor passes through many operations that are not under the lime kiln operator's control. Recausticizing is a fairly closed cyclical process where lime is concerned, so saturation of impurities to the point of operational issues must be considered. Process engineers can use this troubleshooting approach to help optimize various parts of a mill.

9:30 AM – 9:45 AM – Break

9:45 AM – 12:00 PM TECHNICAL SESSION 2

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"Optimizing the Water Balance – Recausticizing Area"

TBD – Chemical Pulping Group, Kadant Black Clawson, Lebanon, OH

Optimizing the water balance throughout the kraft process is critical to avoid chemical losses and maximize washing. This presentation will cover common issues and concepts to optimize water usage to produce lime mud with the least chemical content.

"Recausticizing Hot Topics"

TREVOR VAN BAVEL, P.Eng., Recausticizing Specialist & CEO, McFarlen Engrng., Vancouver, BC, Canada

"TBD"

Valmet

Pressure in on across all industries around the world to reduce their carbon footprint through the use of alternative fuels. This presentation will review the various fuels in use and with potential to be used in the future to reduce carbon emissions from often the largest fossil fuel consumer in a kraft pulp mill.

12:00 PM – 1:00 PM – Lunch – Provided for attendees by the local sections

1:00 PM – 2:30 PM TECHNICAL SESSION 3

"Issues, Experience and Hope for the Future; Lime Kiln Operating Experiences with NCG Firing"

JEFF BUTLER - Mills Division-Center of Excellence, Manager Engineering Services,
Graphic Packaging International, Atlanta, GA

The Graphic Packaging Mill at West Monroe, Louisiana has had some negative issues occurring when firing NCG's. Some of these have been addressed including burner adjustments and initial trials on operational changes such as operating with firing hood doors closed that show positive promise. Following the initial presentation, we would look to facilitate a discussion on overall mill experiences to help us all find ways to improve operations and avoid costly production impairment &/or downtime.

"Modern Lime Kiln Burner Designs to Better Control Thermal Profile When Firing Natural Gas"

MARTIN BEDDOWS, Product Manager – Burners Metso KFS Product Line, High Wycombe, U.K.

Many mills have switched from fuel oils &/or solid fuels to natural gas. Unfortunately, natural gas burns differently & with not as much radiant intensity resulting in reduced product quality control, decreased kiln production & temperature constraints. Burner companies have developed design modifications and to allow thermal profiles more similar to liquid fuels when firing natural gas. Additional benefits include NOx control & in a mill case, reduced cooler plugging. This presentation will offer before & after mill lime kiln operational data showing the benefits & value of these new designs.

"Reducing Downtime and Event Frequency of Lime Kiln I.D. Fan Scaling & Cleaning Through Fan Operation Evaluation & Upgrade with Increased Efficiency I.D. Fan Rotor Design"

ANDREW WEBSTER - Technical Sales, AirStream Systems Inc., Waterloo, ON, Canada (TENTATIVE)

The heavy dust load passing through the ID fan represents a major problem for mills, as the dust sticks to the fan blades. Over time this build-up accumulates and eventually a piece breaks off putting the rotor out of balance. Operators are forced to shut down the lime kiln to clean the fan. We've successfully solved severe build-up problems in many lime kiln applications with our high-efficiency rotor upgrade approach. In addition to solving build-up, these projects have been able to provide significant power savings. This presentation will review several actual case studies on lime kilns demonstrating the problems solved & benefits seen from I.D. fan retrofits.

2:30 PM – 2:45 PM – Break

3:00 PM – 5:00 PM TECHNICAL SESSION 4

"Design and Performance of Chain Systems in Rotary Kilns Used to Regenerate Lime in the Pulp and Paper Industry"

RAY LEARY – Principle, Houghton Cascade Holdings, LLC., Auburn, WA

Heat transfer surface area is the most important aspect of chain system design. Increasing the chain surface area always lowers the heat rate while at the same time increasing the gas temperature at the hot end of the chain section. It is a combination of the area, chain density and economics that determine the amount of chain that can be effectively hung in the kiln. This presentation will discuss how the fuel type, mud moisture, excess air, shell heat losses, and other operating parameters impact the optimum design of the chain system for a given kiln.

"Selection of Lime Kiln Refractories to Balance Cost and Efficiency"

CHRIS MACEY - Market Manager, Resco Products, Pittsburgh, PA

Kilns used to regenerate lime in the Kraft process are highly energy intensive. Due to the dramatic decline in the price of natural gas over the last decade, in combination with mounting pressures to increase production of existing assets, many mills are currently focusing more on increasing uptime and capacity as opposed to energy savings. This presentation provides recommendations to aid mill personnel in the design of optimized refractory linings for specific situations.

"Refractory Brick Installation Guidelines for Increased Kiln Reliability"

RYAN MCDONALD - Application Specialist, Harbison-Walker International, Pittsburgh, PA

The refractory brick lining in a lime recovery kiln is a critical element to overall kiln reliability and uptime. Refractory life is influenced by installation practices, kiln design and condition, refractory technology, and other operational factors. This presentation provides kiln owners and operators installation best practices to monitor installations, identify abnormal wear mechanisms, and troubleshoot potential refractory brick problems.

"New & Improved Lime Kiln Refractory for Energy & Emissions Savings"

KEVIN REGAN, Director – New Mkt Dvpt/Sr. Tech Sales Manager, Refratechnik, St. Louis, MO

Refractory manufacturers have developed new lines of reduced thermal conductivity "ES" rotary kiln brick – which have a dual meaning of Energy Savings (lower kiln shell temps) as well as potential Emissions Savings (via reduced fuel consumption). Typical products include 60% High Alumina (Andalusite) brick which is the primary refractory quality used in lime kilns.

MEETING OFFICERS

Meeting and Session Chairman: Glenn Hanson – Metso – 717/578-9610 /
glenn.hanson@metso.com
Local Arrangements: Chris Luettgen – GA Tech – 770-231-7088 /
Chris.luettgen@rbi.gatech.edu

HOST FACILITY:

Georgia Tech Savannah

190 TECHNOLOGY CIRCLE
(EDRB BUILDING)
SAVANNAH, GA 31407

LODGING INFORMATION:

NOTE: With KilnCon being held at GA Tech, we are not setting up at a specific hotel, attendees will need to make their own lodging reservations

Home2 Suites by Hilton
32 Hospitality Lane, Port Wentworth, GA 31407
(912) 721-2700

Hampton Inn Savannah – I-95 North
7050 GA-21, Port Wentworth, GA 31407
(912)966-2000

Residence Inn by Marriott
Savannah Airport
900 Towne Center Blvd, Pooler, GA
(912) 988-1433

Fairfield Inn
10 Stephen S Green Dr, Savannah, GA 31408
(912) 965-9777

Hilton Garden Inn
80 Clyde E.Martin Drive, Savannah, GA 31408
(912) 964-5550

Holiday Inn & Suites Savannah Airport - Pooler
100 Outlet Parkway, Pooler, GA 31222
(912) 450-9800

Southeastern/Gulf Coast TAPPI Suppliers/Vendors Note:

Local Section meeting attendance has continued to grow over the past 30+ years with the financial support of the Local Section Suppliers Societies. With your generous support we can continue to offer social hours & family activities at annual meetings as well as general monetary support to the sections as needed.

The greatest advantage of a joint Hospitality Program is that it brings all of the attendees together. You, as the supplier, get maximum exposure & contact with all of the customer attendees. Customer attendees & their families, as well, are provided with better hospitality services because the participating suppliers pool finances and resources.

All contributing companies will be recognized at this meeting, as well as in a PowerPoint slide with your company's logo shown during breaks at this and succeeding meetings and in the GCT "Stock Exchange" & other Local Section newsletters during the coming year (see slide attached from 2022-24)

As in past years, affiliate companies and individuals are being asked to unite to sponsor this year's annual TAPPI Hospitality Program at various levels of your choice:

GOLD $500.00
SILVER $350.00
BRONZE $150.00
INDIVIDUAL $75.00

Note:* GOLD SPONSORSHIPS *have the option to* include a tabletop *to display their products and services throughout the Workshops, Technical Meeting & Social Hour. *Only a VERY limited number of tables (3x6) will be available and will be reserved first come, first paid, first served.*

NOTES:

- ***These Sponsorship fees are separate from the technical session registration fees***
- ***Companies that would like a way to participate in the supplier societies and receive recognition but not able to make the event we'll be providing a handbag to all participants of the Gulf Coast Tappi conference. We'll need a line card or small booklet of your company's information and capabilities. You can include small logo items to put into the goodie bag - Please no larger items such as cups, hats, shirts, towels, etc.***

If your company is interested in being a Sponsor, at any level, *please contact*
David Neal at (251) 300-9539 or neald@hoistcrane.com
&/OR
TappiSoutheast@Gmail.Com
Carl F. Fisher, SE Local Section Chair
as well as including it when completing your meeting registration
We MUST have the complete sponsor information & commitment in advance.

TAPPI has asked us to remind our members that no outside activities such as golf, tennis or fishing should be conducted during the scheduled meeting times. Entertainment, to include hospitality suites, will not be scheduled during any TAPPI function.
Thank you for your continued support.

Thank You to our 2022-24 Annual Technical Conference Sponsors

GOLD LEVEL SPONSORS

TAPPI GULF COAST

TAPPI SE SOUTHEASTERN

a-c equipment services
A Division of thyssenkrupp Polysius North America, Inc.

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Industrial Kiln & Dryer Group™

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RESCO PRODUCTS, INC.

INDUSTRIAL ACCESS BULK MATERIALS

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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.

GULF COAST TAPPI EXECUTIVE BOARD WORKING FOR YOU!

GULF COAST TAPPI
OFFICERS 2024 - 2025

Chairman	Ryan Causey	Schneider Electric	205-276-8220
Vice Chairman	Open		
Treasurer	Harris Nelson	Smurfit Westrock	334-341-9529
Secretary	Chris Edmonds	Smurfit Westrock	804-510-4170
Past Chairman	Chris Marchio	Smurfit Westrock	334-855-5412

EXECUTIVE COMMITTEE
2024 - 2025

Tim Watson – Tri Nova
Chris Bowden – Valmet
David Neal – Hoist & Crane
Rinkey Stanley, Jr. – Valmet
Herb Betts – K-Patents
John Dejarnette – Smurfit Westrock
Melissa Reddinger - Andritz
Mike Yee – RTC Consultants
Glenn Hanson – Metso
Ryan Causey – Schneider Electric
Travis Plains - BTG

COMMITTEE CHAIRS

Corresponding Secretary	Chris Marchio	Smurfit Westrock
Registration	Bill Josephson	Auburn University
Membership/Publicity	OPEN	
LSOC	Glenn Hanson	Metso
Supplier Society Chairman	David Neal	Hoist & Crane
Student Chapter Advisors	Dr. Zhihua Jiang	Auburn University
	Mark Bricka	Mississippi State University

YOUR PARTICIPATION IN THIS GROUP IS WELCOMED AND NEEDED!
CONSIDER THE PROFESSIONAL DEVELOPMENT AND CAREER OPPORTUNITIES FROM NETWORKING AND LEADING THE GULF COAST & SOUTHEASTERN LOCAL SECTIONS
Please contact Ryan Causey at 205-276-8220 or ryan.causey@se.com for information on being a part of this leadership team.

LONG - RANGE PLANNING CALENDER
The following table is the *proposed schedule* for meetings through the year 2025. Please contact the meeting chairman if you need any further information about the meeting.

Mtg	Location	Date	Topic(s)	Meeting Chair(s)
Summer 2025	Gulf Coast	June 2025	TBD	**TBD**

The Gulf Coast TAPPI Stock Exchange is published regularly by the Gulf Coast TAPPI. Members may send typed, double-spaced manuscripts (Microsoft Word, email to chris.marchio@westrock.com)

DECEMBER 2024 TECHNICAL PROGRAM

"KILNCON 2024"

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REGISTRATION/APPLICATION FORM – *Please submit ASAP*

Please fill out form below, print or type, save & fax to: 334-844-2063, Attn: Bill Josephson latest November 29th) or e-mail anytime (josepbe@auburn.edu)

Name:			**Name for Badge:**
Title:			
Company:			
City:	**State:**		
Email:			
National TAPPI Member?	Yes / No **(Please Circle)**		
Category:	Mill / Supplier / Consultant / Educator / Retired / Student **(Please Circle)**		

Payments *for Thursday & Friday, December 5th & 6th Technical Sessions:*

___Technical Session, Mill & Educator */***	$200***
___Non-TAPPI Mill Person, Educator ***	$250***
___Technical Session, Students	$40
___Technical Session, Retired	$75
___Technical Session, Supplier/Consultant *	$225
___Technical Session Non-TAPPI Supplier/Consultant	$275
___ Speaker Mill Representative	$25
___ Speaker Supplier/Vendor	$100
___ Gold Level Supplier Sponsorship** Tabletop: ____Yes ____No	$500
___ Silver Level Supplier Sponsorship	$350
___ Bronze Level Supplier Sponsorship	$150
___ Individual Level Supplier Sponsorship	$75

* **rate applies to members of national TAPPI**
** **tabletop requires one member from the Supplier to also register for technical program**
*** **three (3) or more attendees from the same plant site will receive a $20 discount from the listed fee**

TOTAL FEES PAID **$**

Will you attend the Thursday evening Social Hour? _____Yes _____ No

Will you be attending the Thursday Executive Committee Meeting _____Yes _____ No

Payment Options:

Cash____ Check___ Credit Card___

With our credit card processor, it is not necessary that you provide this information in advance. Major credit cards, checks, or cash will be accepted on site. Completing this form and submitting will ensure that you are in the database and facilitate a very speedy registration on site. It helps our planning (lunches, room accommodations, etc.) greatly. There is *no penalty* if you need to cancel at the last minute. Please submit at your earliest convenience

You may fax (334-844-2063, Attn: Bill Josephson, latest November 29th) or email anytime (josepbe@auburn.edu) this page to expedite your registration. Your badge & registration materials will be ready for you. You only need make payment on site. You may cancel at any time without penalty.