

# The Gulf Coast TAPPI *Stock Exchange*



## The Gulf Coast TAPPI June 2015 Annual Meeting Seascape Resort & Conference Center, Destin, FL

**Wednesday, June 10, 2015**

**4:00 PM – 6:00 PM - Executive Committee Meeting** (Seascape Resort Conference Center)  
(this is an open meeting, everyone is welcome to attend)

### Fundamentals of Combined Heat & Power Pinch Analysis to Optimize Energy Use

**June 11, 2015, 8:00 AM – 5:00 PM**

**Seascape Conference Center, Destin, FL**

Any questions regarding this workshop may be directed to Shannon Livingston, 256-476-2356,  
[livingstons@alliedreliability.com](mailto:livingstons@alliedreliability.com)

**7:30 AM – 12:00 PM Check in and Registration** (Seascape Resort Conference Center)

**8:00 AM – 5:00 PM Workshop**

### **Morning Session: 8:00AM - Noon**

**Course Instructors: Keith McAllister and Art Samberg**

**Clean Energy Technology Center at North Carolina State University**

#### **Fundamentals of Combined Heat and Power (CHP)**

Overview of a CHP system

- How a CHP system works
- CHP configurations
- Potential Energy Savings
  - i. Thermal
  - ii. Electric
  - iii. Export to Grid
- Other Benefits of CHP
  - i. Electric Power Reliability, Redundancy and Resiliency
  - ii. Operational Flexibility

Typical Applications for CHP

- CHP thermal and electrical output by application
- Prime movers employed in CHP applications
- CHP fuel considerations

Regulatory and Environmental Considerations of CHP

- Environmental Permitting
- Environmental Compliance
- Interconnection
- PURPA

Is CHP Right for My Facility?

- Tools to Determine the Technical and Economic Viability of CHP

CHP Project Economics

- Typical Capital Costs
- Operating and Maintenance Considerations
- Net Fuel Savings
- Consideration of Incentives
- Payback Periods
- Third Party Providers

**CHP CASE STUDY** (45 minutes allotted for Case Study – can be changed if needed). Case study to be presented by a representative of a facility operating a CHP system.

**12:00 – 1:00 PM: \*\* Lunch: On your Own \*\***

**Afternoon Session: 1:00PM – 5:00 PM**

**Course Instructor: Bahador Bakhtiari, PhD**

American Process Inc., Atlanta, GA

**A Workshop on Pinch Analysis to Optimize Energy Use**

Process Integration is a proven tool for improving the overall energy efficiency and optimizing the water usage in a pulp and paper mill. This tool has been applied in more than 200 mills. The application of Pinch Analysis combined with practical mill experience has resulted in significant energy, operating and capital cost savings for mills around the world. O'Pinch, a complimentary methodology to the pinch analysis, focuses on capital projects with low or no capital costs and will be discussed. This workshop will provide the theory and practice of Pinch technology, as well as examples of its application in different mills.

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**Thursday, June 11, 2015**  
**Seascape Conference Center, Destin, FL**

**3:00 PM – 5:00 PM** *Early Check-In Registration* (Seascape Resort Conference Center)

**6:00 PM – 8:00 PM Social Reception (Shrimp & Crab Boil)**

(fish, chicken, hot dogs, potatoes, corn, salad & ice cream also part of the spread )

(food included in registration – cash bar for refreshments)

**Seascape Resort Golf Clubhouse (on west side of road, just inside main gate off Hwy 98)**

**EVERYONE (all family members) WELCOME!!**

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## Energy & Environmental

Benefits Drive By Cost Saving Opportunities

**FRIDAY, June 12, 2015**  
**Seascape Resort Conference Center**

**7:30 AM—1:00 PM – Registration**

### **8:00 – 9:45 AM TECHNICAL SESSION 1.1**

#### **“Pump Efficiency...Increased Operational Reliability and Decreased Component Wear”**

*TERRY WILLIAMS – Goulds Pumps, Birmingham, AL*

*This presentation will discuss how to optimize a centrifugal pump's operational reliability along with decreasing component wear. We will discuss industry findings regarding pump populations as well as ways to lower total cost of ownership for applications in the Pulp and Paper industry. A case study will be presented as well as ways to identify candidates within your mills for study.*

#### **“Savings Realized By Increasing Solids on Secondary Sludge – Installation of Gravity Belt Thickener”**

*ANGLEA ATEN - Environmental Mgr, RockTenn, Stevenson, AL*

*Most U.S. paper mills have a waste water treatment plant with retention ponds, and pond sludge is a common reality that requires periodic dredging. The frequency and cost of dredging is dependent on mill size, annual production rates and the size of the retention ponds. Developing a cost effective means to reduce the frequency of dredging retention ponds as well as identifying a beneficial use for the sludge is a huge benefit.*

*The RockTenn Stevenson mill developed a more cost effective process to increase the consistency of their waste water secondary sludge. Utilizing the Lean Six Sigma process and new equipment to improve mill processes, an increase in secondary sludge consistency allowed more sludge to be removed from the mill for beneficial land application prior to being sent to the mills retention ponds at a reduced cost. This process is transferable to other paper mills within the company and the industry.*

#### **“Challenge of Permitting Ash Disposal”**

*PIET DEPREE – Golder Associates Inc., Atlanta, GA*

*This presentation will discuss a case study of a dry ash landfill in the coastal plain that had to overcome various challenges in permitting, notably groundwater, surface water, stability, wetlands, and leachability, many of which will apply to ash disposal sites throughout the Gulf Coast Region. In the light of recent EPA regulation on coal ash in the power industry, which are likely to trickle down to P&P sooner or later, wet ash disposal presents increasing regulatory risks and dry disposal is an obvious alternative.*

### **9:45 – 10:15 AM BREAK**

### **10:15 – 12:00 AM TECHNICAL SESSION 1.2**

#### **“Mill Energy Cost Saving Efforts”**

*GARY BROWN – RockTenn, Demopolis, AL*

*This presentation will review how the Demopolis Mill lowers energy costs by managing use of large power consuming equipment and by maximizing internal power generation.*

#### **“Boiler MACT Update”**

*ZACH EMERSON – NCASI, Gainesville, FL*

*This presentation will.....*

**“TAPPI Steam & Power Technical Information Paper (TIP) Update”**

*CHRIS DIETEL – DTE Energy Services, Alpharetta, GA*

*One of the services provided by TAPPI is facilitating the development and update of Technical Information Papers (TIPs). These documents, written and reviewed by industry experts, provide valuable information that can be used in conjunction with and in the development of operational procedures. A review of TIPs available from the Steam & Power Committee, including recent reviews and new TIPs in development will be discussed.*

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

**“Commentary: Conflicts in the Energy and Environmental Discourse in the US”**

*JIM THOMPSON – CEO, Paperitalo Publications, Inc., Duluth, GA*

**1:00 – 2:45 PM TECHNICAL SESSION 1.3**

**“Fluidized Bed Scrubber – Process Description and Applications”**

*WAYNE BUCHER – NORAM, Birmingham, AL*

*This presentation will introduce a new scrubber technology for consideration in various pulp and paper manufacturing applications. This compact, non-clogging technology can be retro-fitted quite easily into many existing installations of other scrubber tower designs. Advantages include maximum air emission control of fine particulate, acid gases and odor, while simultaneously facilitating heat capture using the gas’s latent water vapor & sensible heat.*

*Slurries & process effluent suspended solids are not a problem for the turbulent fluid bed. Applications in our industry include chemical recovery dissolving tank vent scrubber, bleaching, lime kilns, and all types of power boilers. Hundreds of other industrial applications include dryer & furnace off-gas, metal & mineral processing, NOx treatment, gasification and high efficiency chemical absorption operations. Details on a couple of applications will be previewed.*

**“NDT for Waterside Boiler Tube Deposits”**

*MIKE WARD—Valmet Power Business Manager – Performance Services*

*GREG SWAYNE—Valmet Power—Regional Sales Manager*

*The presentation will focus on water chemistry and deposit analysis for chemical cleaning.*

**“Gas Conversions and Co-Firing”**

*BOB LANGSTINE – Zeeco, Lawrenceville, GA*

*Highlights and considerations for converting solid fuel power boilers and recovery boilers to modern low NOx gas-firing.*

**2:45 – 3:15 PM BREAK**

**3:15 – 5:00 PM - TECHNICAL SESSION 1.4**

**“Removable Burners for Recovery Boilers”**

*GREG IMIG – Andritz*

*Starting burners are often troublesome - unreliable to light off and difficult to keep clean. This presentation will introduce a new burner design with a feature for removing / re-installing startup burners – even while the boiler is on line. We will discuss how a retrofit can be done, equipment operation, safety improvements, burner design considerations, fuel options, improved reliability and energy consumption, emissions, and more.*

**“Improved Kiln Fuel Efficiency from Continuous Precoat Renewal on Lime Mud Filters”**

LINDSAY BRANDINO – Andritz Pulp & Paper, Alpharetta, GA

*Having a continuous feed of lime mud to the kiln with consistent solids is key for running the kiln in a steady state with the best fuel efficiency. Also an increase in the average solids for the lime mud decreases the fuel demand as less fuel has to be used to heat and evaporate the water in the mud. Installation of a Continuous Precoat Renewal (CPR) system on a Lime Mud Filter stabilizes the filter operation, allowing it to produce consistent solids, higher average solids, and to extend the time between sheet drops so the mud flow to the kiln is not interrupted. This presentation will discuss the equipment operation and a case study for a mill that installed this equipment on their two lime mud filters*

**“Top Ten To-Do Items for a Successful Emission Test or RATA”**

JOHN SUTTON – Montrose Air Quality Services, Pelham, AL

*Description of the presentation.....*

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

**6:00 - 7:00 PM - Reception** (*Sponsored by the GCT Supplier Society*) **Seascape Convention Center**

**7:00 - 9:00 PM – Dinner/Business Meeting**

**(All paid attendees, paid guests, and speakers are welcome at the dinner)**

**9:00 PM – Until - After Dinner Social**

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**SATURDAY, JUNE 13, 2015****FUN DAY!!! FISHING, GOLF AND TENNIS TOURNAMENTS & FAMILY PONTOON BOATS**

This is open to all registered attendees, their families and guests. Bring your clubs, your racquets, & your beach gear!! All levels of play are invited.

**4:00PM - 5:30PM RECEPTION AND RECREATION AWARDS** (food & beverages provided)

**(AT POOL CLOSEST TO CONFERENCE CENTER)**

**Please come, and bring your family!! Door Prizes for All Ages!!**



[www.seascape-resort.com](http://www.seascape-resort.com)

## **MEETING OFFICERS**

Meeting and Session Chairs: Andy Chorney, SCA, 256-370-8148  
[andy.chorney@sca.com](mailto:andy.chorney@sca.com)  
 Shannon Livingston, Allied Reliability, 256-476-2356  
[livingstons@alliedreliability.com](mailto:livingstons@alliedreliability.com)

Local Arrangements: Tim Watson, Tri Nova, 251-378-7837  
[tim@trinovainc.com](mailto:tim@trinovainc.com)

### **HOTEL INFORMATION:**

*Location:* Seascape Resort  
 Destin, FL

Hotel Reservations: (800) 874-9106

*Rates per night:* \$162-330 based on 1,2 or 3 bedrooms and the location in the resort plus cleaning fee and taxes

**[www.seascape-resort.com](http://www.seascape-resort.com)**

Please mention affiliation with **Gulf Coast TAPPI**

### **MEETING PARTICIPATION FEE:**

Registration (TAPPI Member-mill)*	\$110
Registration (Non-Member-mill)	\$120
Registration (TAPPI Member-vendor)*	\$135
Registration (Non-Member - vendor)	\$145
Guest (Dinner)	\$30
Speaker	\$70
Student	\$10
Retired	\$30

\* 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

Hotel reservations should be made directly by calling Seascape Resort ASAP. These accommodations go fast this time of year.

### **Vendors Note:**

A limited number of tables\*\* (3x6) will be available for product displays. One per company, offered to those companies that contribute to the supplier society at the \$250 silver and \$400 gold levels. Contact David Neal, 251-300-9539,  
[neald@hoistcrane.com](mailto:neald@hoistcrane.com)

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

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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.

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## LONG - RANGE PLANNING CALENDER

The following table is the *proposed schedule* for meetings through the year 2014. 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)
Jun 2015	Destin, FL	Golf, Tennis, Beach, Fishing, Pontoon Boats	Maintenance, Reliability & Manufacturing Excellence	<b>Meeting and Technical Sessions:</b> <b>Randy Paff, Interantional Paper</b> <b>985-732-8764, <a href="mailto:randy.paff@ipaper.com">randy.paff@ipaper.com</a></b>  <b>Local Arrangements: Tim Watson, Tri-Nova, 251-378-7837, <a href="mailto:tim@trinovainc.com">tim@trinovainc.com</a></b>
Sep/Oct 2015	Thomasville or Auburn	Tba	Tba	<b>Meeting and Technical Sessions: TBD</b> <b>Local Arrangements:</b>
Feb 2016	Tba	Tba	Tba	<b>Meeting and Technical Sessions:</b> <b>Local Arrangements:</b>
Jun 2016	Destin, FL	Golf, Tennis, Beach, Fishing, Pontoon Boats	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).

# GULF COAST TAPPI EXECUTIVE BOARD WORKING FOR YOU!

## GULF COAST TAPPI OFFICERS

Randy Paff <u>Chairman</u>	International Paper 985-732-8764
Andy Chorney <u>Vice Chairman</u>	SCA Barton 256-370-8148
Elizabeth Etheridge <u>Treasurer</u>	RockTenn 334-289-6216
Steve Harnden <u>Secretary</u>	RockTenn 256-437-3849
Elizabeth Etheridge <u>Past Chairman</u>	RockTenn 334-289-6216

## EXECUTIVE COMMITTEE 2014-2015

<u>Terms Expiring 2015</u>	
Tim Watson	TriNova
Glenn Hanson	Industrial Kiln
Chris Dietel	DTE Energy Svcs
Lynn Marlow	International Paper
Tom Tobin	Boise Jackson
Jukka Perala	Capstone Technology
Stephanie Fendley	Nalco
Chris Bowden	Valmet
David Neal	Hoist & Crane
Craig Kerschner	Valmet
Shannon Livingston	Allied Reliability

## COMMITTEE CHAIRS

Corresponding Secretary  
Supplier Society Chairman  
Registration  
Membership/Publicity  
LSOC  
Student Chapter Advisors:

Jim Thompson  
  
Bill Josephson  
Jeff Smith  
Manuel Sibila  
Bill Josephson  
Christy Prout

Talo Analytic  
  
Auburn University  
BTG Americas  
RohmNova  
Auburn University  
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.

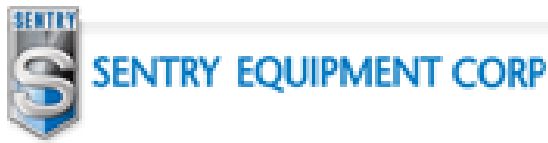
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## Thanks to our 2014/15 Annual Technical Conference Sponsors

### Gold:



### Silver:



### Bronze



## JUNE 2015 TECHNICAL PROGRAM

### Energy & Environmental

Benefits Drive By Cost Savings Opportunities

### ON-SITE REGISTRATION/APPLICATION FORM

Please Print or Type

<b>Name:</b>		<b>Title:</b>		<b>Name for Badge:</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>Category:</b> Mill / Supplier / Consultant / Educator / Retired / Student			

**Plan to attend *Thursday, June 11 Work Shop (no charge):***    (    )no        (    )yes

**Payments for Friday, June 12 Technical Session:**

___ Technical Session, Mill & Educator *	8:00 AM-5:00 PM		\$110***
___ non-TAPPI Mill Person, Educator	8:00 AM-5:00 PM		\$120***
___ Technical Session, Students	8:00 AM-5:00 PM		\$10
___ Technical Session, Retired	8:00 AM-5:00 PM		\$30
___ Technical Session, Supplier & Consultant *	8:00 AM-5:00 PM		\$135
___ non-TAPPI Supplier, Consultant	8:00 AM-5:00 PM		\$145
___ Speaker (mill representative)	8:00 AM-5:00 PM		\$0
___ Speaker	8:00 AM-5:00 PM		\$70
___ Gold Level Supplier Sponsorship**	Tabletop: yes        no    (circle)		\$400
___ Silver Level Supplier Sponsorship**	Tabletop: yes        no    (circle)		\$250
___ Bronze Level Supplier Sponsorship			\$100
___ Guest Dinner	Friday Evening		\$30

\* 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** **\$**

If bringing a guest please provide name for a badge:	
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Will you/your family attend the Thursday evening shrimp boil reception?    \_\_\_ No    \_\_\_ Yes, How many: \_\_\_

Will you attend the Friday evening dinner/business meeting?    \_\_\_ No    \_\_\_ Yes (need count for Seascape)

**Plan to Attend *Saturday, June 13 Family Activities:***

Will you play Golf?    \_\_\_ No    \_\_\_ Yes    Tennis?    \_\_\_ No    \_\_\_ Yes    Fish?    \_\_\_ No    \_\_\_ Yes

**Payment Options:**

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

With our new credit card processor, it is not necessary that you provide this information in advance. Major credit cards 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.

You may fax (334-844-2063, Attn: Bill Josephson, latest June 08) or email anytime ([josepbe@auburn.edu](mailto:josepbe@auburn.edu)) this page to expedite your registration. Your badge and receipt will be ready. You only need make payment on site. You may cancel at any time without penalty.

## JUNE 2015 WORKSHOP

### Fundamentals of Combined Heat & Power Pinch Analysis to Optimize Energy Use

#### 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>	<b>Yes / No (Please Circle)</b>		

There is **no course registration fee** required for this workshop. This is being offered as a service by Gulf Coast TAPPI and the participating instructors. Registration for, or attendance at, the annual meeting and technical program on June 13 is not required (but is encouraged!). In order for your Executive Committee to plan this workshop we ask that you complete this registration and submit at your earliest convenience.

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Benefits Drive By Cost Savings Opportunities

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