

The Gulf Coast TAPPI *Stock Exchange*



The Gulf Coast TAPPI Fall 2014 Meeting Training Center at TriNova, Mobile, AL (see www.TriNovaInc.com for location and directions)

Process Instrumentation & Field Sensors
Advanced Process Control

WEDNESDAY, October 15, 2014

(Meeting to be held at: TriNova offices - Mobile)

6:00 PM – 8:00 PM – GCT Executive Committee Meeting (at TriNova)

ALL ARE WELCOME and encouraged to attend & participate, as the GCT Leadership Committee discusses planning for future meetings & general Section business. Dinner will be provided. Please indicate on your registration form if you plan to attend so meals can be planned.

TECHNICAL SESSIONS

THURSDAY, October 16, 2014
Tri Nova Training Center – Mobile, AL
8:00 AM – 5:00 PM

7:30 AM – 1:00 PM Check in and Registration

8:00 – 10:00 AM TECHNICAL SESSION I

PROCESS INSTRUMENTATION BASICS: SEMINAR ON LEVEL & FLOW

Seminar 1: TOF Technologies, Theory of Operation for Tru Air and Guided Wave Two Wire Radar Technologies with emphasis on Proper Installation and Design Considerations

Seminar 2: Magnetic Flowmeter Theory of Operation, How to Specify, and Proper Installation Considerations

Seminar 3: Bent and Straight Tube Coriolis Flowmeter, Theory of Operation with Regard to Flow and Density Measurement, How to Specify, and Proper Installation Considerations

10:00 – 10:15 AM BREAK**10:15 – 12:15 PM TECHNICAL SESSION II****PROCESS INSTRUMENTATION AND FIELD SENSORS (cont.)****An Update On Consistency Transmitter Measurement Technology & Process Considerations**

MIKE HENDRICKS – BTG AMERICAS INC, NORCROSS, GA

Consistency control is the foundation of the papermaking process. Without it, it is difficult to optimize the rest of the process. This presentation will review the fundamentals of consistency control and measurement in the paper making process. The following questions will be addressed in this paper: What are the benefits of good consistency control? How do we know if our consistency program is where it should be? What are the differences among various consistency technologies? How do we justify and implement a sound consistency program? How do we ensure that the benefits of a sound consistency control program are recognized year after year?

Finally An Answer to Detecting Soap/Liquor Interface

GEORGE PEMBLE – RTS

The detection and tracking of the soap/liquor interface in black liquor storage is now possible using a float device coupled with an electronic resistance train. The very harsh environment is handled without difficulty by this non-contact system, and it allows the continuous readout, in the control room, of the location of this interface. The benefits of this system include:

- Greater tall oil recovery*
- Fewer soap spills*
- Improved multiple effect evaporator operation*

Non-nuclear Basis Weight and Moisture Measurement

MARKKU MUSTONEN – CONMARK, ATLANTA GA

New revolutionary non-radioactive measurement technology for the measurement of Basis Weight and Moisture for the web-based production lines like paper machines and coating lines. Both measurements are applied in the same sensor. Sensor is manufactured around enhanced patented Microwave technology and highly sophisticated software algorithm with digitally controlled microwave frequency controller. Due to new microwave technology, the sensor provides an ultra-wide measurement range for Basis Weight and Moisture. Sensor has built-in compensation for X-Y-Z movement.

Combustion Air Flow Measurement for Industrial Boilers

GRADY ANDREWS – HILE CONTROLS, PELHAM, AL

Precise combustion air flow measurements can improve efficiency by reducing your air to fuel ratio. This decreases CO₂ and NO_x due to lower fuel consumption. Kurz Instruments thermal flow meters provide increased accuracy and turndown compared to conventional differential pressure measurement devices. This technology will be discussed in this presentation.

12:15 – 1:00 PM LUNCH

TriNova Training Center

Lunch Included with Meeting Fee

1:00 – 3:00 PM TECHNICAL SESSION III

PROCESS CONTROL

The 10 Essential Elements of a Successful Process Control System Migration

SHANE BERNARD – MAVERICK TECHNOLOGIES, PENSACOLA, FL

Need to upgrade your DCS soon? You're not alone. A recent study shows that 68% of control engineers plan to upgrade within the next six months. And it's safe to say that most of them experience fear, uncertainty and doubt about how to move forward. That's why we've developed the 10 Essential Elements of a Successful Process Control System Migration of what it takes to guarantee success for your Process Control System Migration.

Making the QCS Upgrade Decision

TIM BROWN – HONEYWELL, DULUTH, GA

Few paper machines today operate at the highest possible production efficiency, or produce the best quality product that the machine is capable of delivering. This may be partially attributable to aging quality control systems (QCS) which lack new tools and capabilities that papermakers need to compete more successfully in today's market. Shortcomings of some vintage QCS may be very apparent while others may be less obvious. This paper examines the criteria to be considered in determining if a QCS upgrade is justified. Choices for a QCS upgrade or a complete replacement will be discussed with respect to quality measurements, control applications, cross-direction actuators, system reliability and support, and platform hardware and software. Real-world examples of QCS migrations are included to illustrate efficiency and quality improvement opportunities.

Title of Presentation from Rockwell

NAME – ROCKWELL, LOCATION

A brief description.

3:00 – 3:20 PM BREAK

3:20 – 5:00 PM TECHNICAL SESSION IV

PROCESS CONTROL (Continued)

Energy Management Solution – Steam Header and Generator Dashboard

JUKKA PERALA – CAPSTONE, ALPHARETTA, GA

The Steam Header and Generator Dashboard is an advisory tool for the Turbine Room Operations. It provides graphical representation of the steam generators and steam headers as well as Specific Energy KPIs. Typical energy KPIs consist of the cost of generating electrical power, the overall cost of incremental steam, the amount of steam vented and current Real Time Pricing (RTP) from the power company.

Energy Consumption – Another Level of Process Control

MICHAEL VON GRUMBKOW – VOITH PAPER

With energy cost rising, cost-efficient state-of-the-art process controls have to include tools to monitor and control energy consumption, both electrical and thermal energy. Such systems collect, visualize, and analyze the consumption of energy throughout the paper production process. Unlike generic systems, this control tool also incorporates process-specific paper-making parameters such as paper grade, machine speed, product quality requirements, etc. The presentation explains concepts for this control tool, typical infrastructure, and gives case study examples.

Title of Presentation - TBA

NAME – COMPANY, LOCATION

A brief description.

5:00 – 5:30 PM - GCT Supplier Society Meeting

6:00 - 7:00 PM – Social Reception

Light Snacks & Refreshments

TriNova Facilities – Mobile, AL

(Sponsored by Gulf Coast TAPPI & the GCT Supplier Society)

7:00PM – Dinner (served at TriNova)

HANDS-ON DEMONSTRATIONS – FRIDAY MORNING
TriNova Process Training Unit – MOBILE, AL

FRIDAY, October 17, 2014

8:00AM - 10:00AM

Friday Labs: 4 (30) minute rotating Labs for:

A. Pressure

B. Magnetic Flow

C. Radar Level

D. Coriolis for Density.

These will be hands-on based on the Prior Day Technical Seminars, working with the Process Training Unit.

10:15AM - 12:00AM

Rockwell Seminar on Process Control in Pulp & Paper

Activities Centered Around the TriNova Process Training Unit



MEETING OFFICERS

Meeting and Session Chairman: Shannon Livingston, Allied Reliability, Moulton, AL
Local Arrangements: Tim Watson - TriNova – Mobile, AL

HOTEL INFORMATION:

Location: *Holiday Inn Express*
 5465 Hwy 90
 Mobile, AL 36619

Hotel Reservations: (877) 410-6681

Location: *Hampton Inn*
 5478 Inn Road
 Mobile, AL 36619

Hotel Reservations: (251) 660-9202

Location: *Comfort Suites*
 5660 Tillman's Corner Pkwy
 Mobile, AL 36619

Hotel Reservations: (251) 665-0161

Location: *La Quinta at Tillmans Corner*
 5170 Motel Ct
 Mobile, AL 36619

Hotel Reservations: (251) 661-9978
(Ask for TriNova \$89.99 rate)

There are several other hotels to choose from at Exit 15 off I-20. Because we are not hosting the meeting at a hotel, and many of you have your own hotel preferences, we have not negotiated a favored hotel or rate. TriNova does have a discount with La Quinta which you may request.

Meeting will be located at TriNova, Inc.

4485 LAUGHLIN DR S
MOBILE, AL 36693
251-378-7837

www.TriNovaInc.com

Vendors Note:

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

Contact David Neal at (251) 300-9539 or
neald@hoistcrane.com

LONG - RANGE PLANNING CALENDER

The following table is the *proposed schedule* for meetings through the year 2015. 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)
Feb 2015	Demopolis, AL	TBA	Quality / Six Sigma	Meeting and Technical Sessions: Elizabeth Etheridge - RockTenn Local Arrangements:
Jun 2015	Destin, FL (Seascape)	Golf, Tennis, Beach	TBA	Meeting and Technical Sessions: Local Arrangements: Tim Watson, TriNova
Sep 2015				Meeting and Technical Sessions: Local Arrangements:

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.

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.

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

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

Terms Expiring 2014

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
Christie 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 for information on being a part of this leadership team.

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More info at: <http://www.tappi.org/Groups/Local-Sections/GC.aspx>



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OCTOBER 2014 TECHNICAL PROGRAM

PROCESS INSTRUMENTATION & CONTROL SYSTEMS

ON-SITE REGISTRATION/APPLICATION FORM

Please Print or Type

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

Payments for the Thursday Sessions, October 16:

<input type="checkbox"/> Technical Session, Mill & Educator *	8:30 AM-5:00 PM	\$80***
<input type="checkbox"/> non-TAPPI Mill Person, Educator	8:30 AM-5:00 PM	\$90***
<input type="checkbox"/> Technical Session, Students	8:30 AM-5:00 PM	\$10
<input type="checkbox"/> Technical Session, Retired	8:30 AM-5:00 PM	\$25
<input type="checkbox"/> Technical Session, Supplier & Consultant *	8:30 AM-5:00 PM	\$110
<input type="checkbox"/> non-TAPPI Supplier, Consultant	8:30 AM-5:00 PM	\$120
<input type="checkbox"/> Speaker (mill representative)	8:30 AM-5:00 PM	\$0
<input type="checkbox"/> Speaker	8:30 AM-5:00 PM	\$40
<input type="checkbox"/> Supplier Tabletop Fee**		\$100

TOTAL FEES PAID (cash or check please)

\$

* 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

WILL YOU BE ATTENDING THE WED EXEC MTG (dinner included): YES / NO
WILL YOU BE STAYING FOR THU EVENING DINNER (incl w/registration): YES / NO
WILL YOU BE ATTENDING THE FRIDAY MORNING SESSIONS: YES / NO
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 Oct 14) or email josepbe@auburn.edu (anytime) this page to expedite your registration. You only need to confirm payment on site.