Honorable Members of PUPID,

Well, it is already the third week of November and as I write this I am in Seoul, South Korea where I will be for the next year.

Just like always, we still need a Director-Elect, and a symposia coordinator. The Director-Elect will train with me in 2013 and take over as Director for the 2014/2015 biennium. If you can only do it for a single year, then we can look at single terms. In return for the work, you’ll get your ISA Spring and Fall Conference expenses paid by the division.

This last September, the ISA Automation Week 2012 was at the Orange County Convention Center in Orlando, Florida. If you couldn’t be there, you can listen to the audio and read the Powerpoint presentations and papers by going to the links on the PUPID website. As they say, it’s the next best thing to being there.

Our division membership has increased slightly from 445 to 450 members with 31 new division members since August. The membership has stayed nearly constant since last January. Welcome to all of you new members!

I am also pleased to be able to include Saul Mtakula’s paper and see his presentation for “Control Stability Delivers Chemical Savings in a Pulp Mill” from the Automation Week 2012 Conference last September in Orlando, Alberta.

I hope it is an encouragement to you to become more involved with the Division and to enroll more members from the great international pulp & paper community.

Please do not hesitate to contact me at my email brad.carlberg@bsc-engineering.com to discuss how you can help PUPID.

Do feel free to forward the Newsletter to your friends and colleagues who may have an interest in it.
**TUNING TIP:**

**ABSTRACT**

This Tuning Tip was excerpted from "" by from.
ISA Members can download this paper FOR FREE from the ISA website.

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**Calendar of Events**

Get a quick overview of the ISA PUPID events for 2011 by going to the Calendar at: [http://www.isa.org/~pupid/2012_PUPID_Calendar.htm](http://www.isa.org/~pupid/2012_PUPID_Calendar.htm)

### 2012 Pan Pacific Conference
11/20/2012 to 11/22/2012
Hotel Horison
**Bandung, West Java Indonesia**

### 2012 TAPPI PEERS Conference
10/14/2012 to 10/18/2012
Marriott Savannah Riverfront
Savannah, GA USA
[http://www.tappipeers.org/](http://www.tappipeers.org/)

### 2012 BLRBAC Fall Meeting
10/1/2012 to 10/3/2012
Crown Plaza Hotel Atlanta Airport
Atlanta, GA
[www.blrbac.org](http://www.blrbac.org)

### 2012 China Paper Technical Conference
9/10/2012 to 9/12/2012
Sheraton Shanghai Hongqiao Hotel
Shanghai
[http://www.chinapaperexpo.cn/](http://www.chinapaperexpo.cn/)

### 2012 ISA FALL LEADERS MEETING
SATURDAY, SEPT 22 2012 AND SUNDAY, SEPT 23 2012

**ISA AUTOMATION WEEK 2011**
MONDAY, SEPT 24 2012 THROUGH THURSDAY, SEPT 27 2012
ORANGE COUNTY CONVENTION CENTER ORLANDO, FL
Come meet your leaders & get involved!

### ABTCP 2012-45th Pulp & Paper International Congress & Exh
10/9/2012 to 10/11/2012
Transamérica Expo Center
Sao Paulo, Brasil
# Technical Sessions from ISA Automation Week Conference & Exhibition

**September 25 - 27, 2012**

**Orange County Convention Center Orlando, FL**

## Technical Sessions

### Plant-wide Wireless

**Session Moderator: Norm Magiera; Tampa, FL**

- **Tuesday**
  - **Session 1** (9:30 am-11:00 am)
    - **Improved Safety through the use of Wireless technology, results in a 25% increase in production**
      - Gary Williams; Invensys Operations Management, Gloucester, U.K.
    - **Implementing Wireless around the Plant**
      - Eric Rotvold; Emerson Process Management, Chanhassen, MN

### Energy Harvesting: Powering your Wireless Devices

**Session Moderator: Bob Reinhart; ControlsLink; Tampa, FL**

- **Tuesday**
  - **Session 2** (1:30 pm-3:00 pm)
    - **Vibration Energy Harvesting - Perpetually Powering Wireless Industrial Equipment Health & Process Monitoring Applications**
      - Keith J. Abate Sr.; Perpetuum, Austin, TX
    - **Power and Signal over an Air Gap – The Truly Wireless Solution**
      - Jonathan Jacobs; TR Electronic, Hilton Head Island, SC
    - **Energy Storage at the Heart of Wireless Sensor Networks**
      - Alex Bynum, Saft Lithium Battery Division, Valdese, NC

### Improving Plant Operations with Wireless

**Session Moderator: Ken Belteau; Spectra Energy; Houston, TX**

- **Tuesday**
  - **Session 3** (3:15 pm - 4:45 pm)
    - **M2M Goes Mainstream: What Happens When Moore's Law Meets the Internet of Things**
      - Mike Fahrion; B&B Electronics, Ottawa, IL
    - **Supporting the Full Spectrum of Wireless Technologies with a Single Wireless Infrastructure**
      - Sarah Prinster & Bruce Manthey; APPRION
    - **Mobile Devices for SCADA Integration and Beyond: Considerations, Security, and Applications**
      - Pavol Segedy; Brown and Caldwell, Raleigh, NC

### New Technologies for Wireless Applications

**Session Moderator: David L. Ubert; CDM Smith; Maitland, FL**

- **Wednesday**
  - **Session 1** (9:30 am-11:00 am)
    - **Radio System Co-Existence**
      - Brian Cunningham; Cooper Bussmann Wireless Business Unit, Port Coquitlam BC CANADA
    - **Regulation Restrictions for data transmission equipment operating in the 2,4GHz ISM band in Europe**
      - Klaus-Peter Lindner; Endress+Hauser Process Solutions, Reinach, Switzerland
    - **Solar Powered Wireless Sensors & Instrumentation**
      - Mike Macchiarelli; Imagine Instruments LLC, Stratford, CT
### Wireless Track

#### Wireless, CyberSecurity, & Control Systems

**Session Moderator: Allen Lee; Consolidated Pipe; Orlando, FL**

**Turnarounds, Real Time and Beyond: How a Wireless Plant Network Changed the Way We Do Turnarounds**
John Barth; APPRION;

**Tool-less provisioning on ISA100.11a**
Kazunori Miyazawa; Yokogawa Electric Corporation; Japan

**Leveraging a Secure Wireless Network for Automation and Control**
Thurston Brooks; 3eTI, an Ultra Electronics company; Rockville, MD

#### Industrial Wireless Applications

**Session Moderator: Jose Angel Sanchez Perez; Instituto Tecnologico de Minatitlan; ISA ITMIN Student Section; Membership Chair; Mexico**

**Using 802.11 Wireless Ethernet as a Process Control System Backbone**
Jim Ralston; ProSoft Technology, Inc.; Bakersfield, CA

**Practical Power Solutions for Wireless Sensing**
Roy Freeland; Perpetuum Ltd; Southampton, U.K.

**Improve Plant Operations with Mobile Devices, KPIs and Alerts – Anytime, Anywhere**
George Ikonomou; Applied Control Engineering, Inc.; Houston, TX

#### Improving Wireless Throughout the Plant

**Session Moderator: Dr. Penny Chen Yokogawa; Palo Alto, CA**

**A Straightforward Comparison Between Metal And Fiberglass Enclosures Is Necessary Before Selecting One For Protecting Wireless Controls**
Roger Schroder; Stahlin Non-Metallic Enclosures; Belding, MI

**An Evaluation Of Reliable Industrial Wireless System Based on ISA100.11a Standard**
Toshi Hasegawa; Yokogawa Electric Corporation; Tokyo, Japan

**Control Over Wireless: Current Applications and Future Opportunities**
Jay Werb; ISA100 Wireless Compliance Institute; Boston, MA

#### "Ask The Wireless Experts" Panel

**Session Moderator: Ed Ladd; Mitsubishi Electric Process Automation Water Solutions; Grapevine, TX**

**Panelists:**
Richard H. Caro, CMC Associates
Dr. Penny Chen Yokogawa; Palo Alto, CA
Hesh Kagan – Invensys Operations Management; Foxboros, MA
Eric Rotvold – Emerson Process Management; Twin Cities, MN
Steven Toteda – VP & GM - Wireless at Cooper Industries Ltd.; San Francisco, CA
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<tr>
<th>Wireless Track</th>
<th>Using Wireless e-Tablet/iPod/iPhone Technology</th>
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<tr>
<td>Thursday</td>
<td><strong>Session Moderator:</strong> Brad S. Carlberg, P.E.; Hyundai Engineering &amp; Construction; Seoul, South Korea</td>
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<tr>
<td>Session 3</td>
<td>(3:15 pm - 4:45 pm)</td>
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<td></td>
<td>Richard H. Caro; CMC Associates; Acton, MA</td>
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<td></td>
<td>Efficiency Alert: Utilizing e-Tablet Technology for Re-Instrumentation Field Data Gathering and Checkout</td>
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<td>Timothy LeMoine &amp; Scott Byrne; Matrix Technologies, Inc.; Maumee, OH</td>
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<td>The Cloud-iPad Era</td>
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<td>Marcos Taccolini; TATSOFT LLC; Houston, TX</td>
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WELCOME TO THE 31 NEW ISA PULP & PAPER INDUSTRY DIVISION MEMBERS SINCE AUGUST 2012

Idelmar Barcelos  
Norbert B. Eubanks, Jr.  
Bruno Santos Ferreira  
Steven Forbes  
Terry Grimaldi  
Ake Hansson  
Douglas Jeanblanc  
Celius Alessandro Lager  
Bruce E. Manthey  
Marcelo Queiroz  
Stanley Moses Sathianthan  
Samuel Dagoberto Gutierrez Merino  
Krishnan KM  
David Lemoine  
Michael McLaren  
William Smith  
Nathaniel E. Teeters  
James Clair Boyle, Sr.  
Chris Crawford  
Todd L. Fillingim  
Wellington Maurilio Fraga  
Peter K O K Frehse  
Ernest Garner  
Richard Gilbert  
Mack Hu  
Brandan E. Jordan  
Dr. Jacqueline MacPherson  
Sumathi Manickam  
Jackeline Stacy Sauñe León  
Dr. Atsushi Ynamoto  
Brian Smith

HERE’S A REMINDER TO THE 29 ISA PULP & PAPER INDUSTRY DIVISION MEMBERS WHO NEED TO RENEW THEIR MEMBERSHIP

José Luiz Almeida  
David A. Bishop, CCST  
Dr. Maurizio Brancaleoni  
Daniel C. Capra  
Ms. Gisela Costa  
Claudio Da Silva Ferreira  
Willie Lee Dorman, P.E.  
Gabriel Epichin Pena  
Eric Duane Fleming  
Sergio Furuta  
Victor Guerzet Soneghet  
Monte Hansford  
James Headle  
Chris Howell  
Mark Knapp  
Charles W. Lee  
Tiago Da Cunha Luna  
Adam Marickovich  
Dr. Chris McNabb  
Gerson M. Moita  
Ms. Bharathi Nehru  
Jensen D. Oberklein  
S Pushparaj  
Ms. Paula Sawatzky  
Daniel S. Streets  
David Strobhar  
Mario Luis Terres  
Dr. Ky M. Vu  
Rick Meeker, Jr., P.E.

DON’T FORGET TO RENEW!
**Who’s Doin’ Anything?:**

**Australian Government To Provide $9.5M Grant Towards $90M Project To Construct De-Inked Pulp Plant**

October 10, 2012

Australia - The Australian Government will provide a $9.5M grant towards a $90M project to construct a de-inked pulp plant at Australian Paper's pulp and paper mill at Maryvale in Victoria's Latrobe Valley.

The project will also receive support from the Victorian Government which has worked with the Australian Government to attract new investment to the region.

Construction of the project, which is expected to create 140 construction jobs, should begin late this year. Initial production is expected in early 2014.

This investment will increase the competitiveness of the Maryvale mill, which will support the jobs of nearly 900 workers directly employed there and over 4,000 other indirect jobs which rely on the mill's operations.

The project will also directly create 14 new ongoing jobs, as well as securing around 100 existing indirect jobs in waste paper collection, sorting and transport around Australia.

The new plant will divert over 80,000 tonnes a year of white waste paper, that would otherwise be exported or go to landfill, into de-inked pulp which can then be used to manufacture recycled fine (white) paper.

Australian Paper expects the plant will enable it to achieve a six-fold increase in output of recycled fibre containing papers and to reduce its reliance on native forest fibre.

Federal Minister for Industry and Innovation, Greg Combet, said the Government was pleased to support this project which will create new jobs and skills and help secure Australian Paper's operations in the Latrobe Valley.

"Australian Paper's decision to install this plant demonstrates a commitment to cleaner manufacturing and will provide Australians with greater access to recycled paper," Mr Combet said.

"This project is an example of the type of investment Australian manufacturers need to make to maintain their competitiveness and capture new opportunities."

Deputy Premier of Victoria and Minister for Regional and Rural Development Peter Ryan said the recycling operations would underpin office waste paper recycling in Australia and ensure re-usable resources were not being wasted in landfill.

SOURCE: The Australian Government

**Metso To Supply Board Machine Rebuild For Obeikan Paper Industries In Saudi Arabia**

October 19, 2012

Metso will rebuild the PM 1 cartonboard machine at the Riyadh mill of Obeikan Paper Industries in Saudi Arabia. The rebuilt production line will be fully operational in the middle of 2013. The value of the order will not be disclosed.

The main target of the rebuild is to improve end product quality, increase capacity and reduce production costs.

“This investment is aligned with Obeikan strategy to keep the mill up-to-date in technology in order to keep feet within the competitive environment of paper industries,” says Mohammed Al-Mowkley, General Manager of Obeikan Paper Industries.

The coater and air system rebuild order is included in Metso’s Pulp, Paper and Power third quarter 2012 orders received and the press section rebuild order is included in the second quarter 2012 orders received.
WHO’S DOIN’ ANYTHING?: (CONTINUED)

Technical information

The 3.4-m-wide (wire) PM 1 produces white lined chipboard in the basis weight range of 180-450 g/m² at the design speed of 600 m/min. The current annual production level is 170,000 tonnes and capacity after the rebuild will be 220,000 tonnes per year.

Metso’s delivery will comprise a rebuild of the press section with a new SymBelt shoe press to increase dry content after the press section. The delivery will also include a new curtain coating station with a one-sided gas-heated air dryer. The new multilayer curtain coating unit adds two coating layers to the web at the same time in a non-contact operation with no speed restrictions. Metso will also take care of installation supervision, commissioning and start-up of the rebuilt machine.

Obeikan Paper Industries is a subsidiary of Obeikan Industrial Investment Group Ltd. It primarily involves in printing and packaging, education and publishing businesses. The company was incorporated in 1983. Obeikan Industrial Investment Group Ltd. is headquartered in Riyadh, Saudi Arabia.

Metso’s pulp, paper and power professionals specialize in processes, machinery, equipment, services, paper machine clothing and filter fabrics. Our offering and experience cover the entire process life cycle including new production lines, rebuilds and services.

Metso is a global supplier of technology and services to customers in the process industries, including mining, construction, pulp and paper, power, and oil and gas. Our 30,000 professionals based in over 50 countries deliver sustainability and profitability to customers worldwide. Expect results. For more information, visit www.metso.com.

SOURCE: Metso

UPM Kymi Mill’s New

Sheeting Line Has Started

October 19, 2012

The expansion of UPM Kymi mill’s converting department has now been concluded, and the production of coated fine paper sheets has started. The new sheeting line was taken into use 25 September and the first sheets have already been delivered to customers.

The aim of the new sheeting line is to serve UPM’s customers in close-by markets faster, better and more flexibly than before, and to support the production efficiency of the integrated mill site. The investment has also positive employment effects since the new sheeting line has created 24 new jobs.

“Our customers value consistent quality, therefore the quality and the interchangeability with UPM Nordland paper mill’s products is crucial for Kymi mill’s new sheeting production. Also the wrapping is of great importance; it has to protect the paper during handling and transportation,” commented Matti Laaksonen, Production Director, UPM Kymi paper mill.

The product portfolio consists of UPM Finesse gloss, premium silk and silk in 90-150 g/m². The coated UPM Finesse fine paper sheets are excellent for various graphic printing purposes, such as magazines, prestigious catalogues and advertising materials.

UPM Kymi paper mill produces approximately 830,000 tonnes of coated and uncoated fine paper per year. In addition to the coated sheets, UPM Kymi mill’s sheet production includes A4 size printer and copy paper. UPM produces the majority of its European coated sheets in Germany at UPM Nordland mill.

UPM has 22 modern and sustainable paper mills in Finland, Germany, the United Kingdom, France, Austria, China and the United States. Many of them are large recycling centres and bioenergy producers, as well as paper manufacturers. UPM Paper employs almost 13,000 people. In 2011, the business group’s net sales amounted to EUR 7.2 billion. To learn more, visit: www.upmpaper.com UPM – The Biofore Company.
WHO’S DOIN’ ANYTHING?: (CONTINUED)

UPM Kymi is an environmentally efficient integrated mill site producing pulp, paper and energy. Kymi produces bleached softwood and hardwood kraft pulp as well as coated and uncoated fine paper. Kymi employs about 600 people.

SOURCE: UPM

International Paper, Grupo Orsa To Form Joint Venture

October 24, 2012

IP to Expand Global Corrugated Packaging Platform In Brazil

Memphis, TN /PRNewswire/ -- International Paper (NYSE: IP) and Brazilian corrugated packaging producer Jari Celulose, Embalagens e Papel S/A, a Grupo Orsa company, have entered into an agreement to form a joint venture which will support IP's strategy of growing its global packaging presence and better serving its global customer base. Jari's industrial packaging assets, including three containerboard mills and four box plants, will be separated from its pulp and forestry businesses and transferred to a newly formed company in which IP will hold a 75 percent stake. IP's investment in the joint venture will be BRL 952 million, or approximately $470 million at today's exchange rate.

"This partnership fits well with International Paper's strategy to globally grow our corrugated packaging business in strategic regions of the world," said John Faraci, Chairman and Chief Executive Officer. "We are excited about Brazil's growing market and this investment provides us with an attractive position with a strong return on investment."

With an agreement now in place, the companies expect to finalize the transaction early in the first quarter of 2013, subject to various closing conditions and governmental approvals.

The company will discuss the agreement, during its third quarter earnings webcast on Thursday, October 25th.

SOURCE: International Paper

Angara Paper Partners With Marubeni For Pulp Mill Project

September 20, 2012

Angara Paper is one step closer towards its first pulp mill in Russia. The company has come to an agreement with Japanese trading firm Marubeni Corporation. Marubeni will be responsible for machinery, procurement and for overseeing the construction of the production facility in Lesnosibirsk in the region of Krasnojarsk. This was confirmed by a Marubeni spokesman.

The contract was signed on the fringe of a summit meeting of the Asia-Pacific Forum held in Russia on 7 and 8 September. Marubeni is the second partner Angara Paper has taken on board since 2011 when Södra Cell agreed to assume the role of project partner for the investment project in addition to marketing and distribution of pulp.

Construction work on the pulp mill is scheduled to start at the beginning of 2013, reports Angara Paper on its website. The facility is to be put into service in 2017. It will have a capacity of 1.2 million t of pulp, 900,000 tpy of which is to be accounted for by bleached hardwood pulp and 300,000 tpy by unbleached birch and aspen pulp. About 80% of the output is earmarked for export to China, Japan, and other Asian regions, reports the Japanese news agency Nikkei. The partners put the cost of the investment project at JPY280bn (€2.7bn).

Marubeni is a globally active universal trading company operating in numerous branches of industry, such as foods, energy, and metal as well as paper and pulp. Marubeni drew attention to itself in May when it took over a billion-dollar US grain merchant. In the pulp sector, the company has a capacity of approximately 1 million t of market pulp, which is manufactured at two facilities in Canada and Indonesia. It also owns majority shares in several Japanese paper and board producers.
CONTROL STABILITY DELIVERS CHEMICAL SAVINGS

BY SAUL MTAKULA

PRESENTED AT ISA AUTOMATION WEEK 2012, 24-27 SEPTEMBER 2012
ORANGE COUNTY CONVENTION CENTER
Control Stability Delivers Chemical Savings

Saul Mtakula
Saul Mtakula is a Process Control Engineer at Canfor Pulp Limited partnership in Prince George. He was educated in Zimbabwe (BSc Eng, UZ) and Australia (M.E., UNSW) in electrical engineering and control systems. He worked for Ove Arup and Partners (consulting engineers), Standard Chartered Bank (in their technical department) and the University of Zimbabwe before settling in British Columbia in 2002. He worked for NORPAC Controls from 2004 to 2010 providing a host of control system services (DCS configuration, control audits, process modeling etc.) for customers in Pulp and Paper mostly. He carries out control engineering functions at the Intercon mill including configuration, optimization, loop tuning among others. He is a registered Professional Engineer in BC and is a member of PAPTAC.
Abstract

- **Control Stability Delivers Chemical Savings in a Pulp Mill**
- **Reference ID:** 0138-000105
- This case study from a Canadian Pulp Mill shows measurable chemical savings from a control system stabilization project. The Intercon Canfor Pulp facility at Prince George, British Columbia applied new software based tools and techniques to deliver a chemical savings worth up to $170,000 annually, from a short three-month project.
- Process variability introduces inefficiencies in the manufacturing process. Variations in composition, flow rate, or temperature can each reduce the efficiency of the process. In a pulp bleaching operation, efficiency is lost with variations in pulp flow, bleach chemical flows, tower pHs, bleach tower temperatures, and other bleaching controls.
- Traditional indicators of process performance focus on long term trends and averages. Yet reducing short-term dynamic variation is the key to long term variability reduction. Root cause analysis of process dynamics is a powerful tool that stabilizes a process and reduces variability.
- At Intercon Pulp, the project focused on the bleaching operation at the pulp mill. The Control system was monitored and automatically screened for highly variable controllers. As each one was identified, the team focused on a root-cause solution. These included controller tuning, equipment repairs, signal filtering, and control strategy improvements.
- The methods covered in this presentation will highlight tools and techniques to analyze real time process variation. These methods have been able to deliver measurable savings faster and more reliably than manual auditing approaches of the past.
Agenda

• Why is Variability important?
• Example 1 – Standpipe Level Control
  – Stiction Identified in Control Valve
  – Retune the Control Valve
• Example 2 – Sensor Recalibration
• Example 3 – New Control Strategy Identified
  – New Cascade Control to Improve Temperature Control
  – Affects of Auto vs. Manual Control
• Example 4 – Aggressive Tuning
• Example 5 – Variability Indicates Line Scaling
• Final results
• Conclusion
• Q&A
Why is Reducing Variability Important?

- Step 1 – Reduce variability
- Step 2 – Shift the SP closer to the spec limit.
- Step 3 – Advertise the cost reduction.
Performance Monitoring

• Quickly identify control loops with high variability
• Drill down to diagnose the root cause
  – Valve issues
  – Tuning – Aggressive or Sluggish
  – Control Strategy
• Reports automatically generated based upon analysis of process dynamics
• Reports prioritized on mechanical and economic significance
Pulp Delignification Overview
Variability caused by Stiction

Stiction in PCSA450 was a root cause for load disturbances throughout the Unit.
Address the Root Cause

- Replacing the valve reduced the variability by 50%

- Is there still room for improvement?
Retune the Control Loop

- Retuning the control loop has further decreased the variability in level control.

- There is still room for more improvement!
Sensor Calibration Leads to Chemical Savings

• Recalibration of the Kappa analyzer resulted in a decrease of the incoming measurement to the Bleach Plant.

• Resulting in a decrease in the ClO2 flow without degrading the final product brightness.
High Variability Leads to New Control Strategy

Opportunity for New Cascade Strategy

New Cascade Strategy in Automatic

New Cascade Strategy in Manual
Oscillation in pH Control Reduces Reaction Efficiency

Improper tuning leads to a 15s cycle in the caustic loop

Cycle in column pH eliminated when the tuning was changed
High Variability Indicates Line Scaling

- High variability indicates that the line is scaling and can no longer maintain the proper flow rate.

- The flow rate returns to normal after flushed with fresh water.
Decrease in ClO2 Consumption in Final Reaction Tower

- ClO2 flow rate has been reduced by approximately 50%
• The final product Brightness has improved almost one full point

• Product brightness has improved even though the bleaching agent consumption was reduced significantly
Conclusion

• Identify control loops with high variability
• Focus on the Root Cause of the variability
  – Valve oscillation
  – Control Strategy
  – Tuning – Aggressive or sluggish
  – Processing Issues – Line scaling
• Maintain sensor calibration
• Project duration was approximately five months
due to shut down planning
• Final Savings = $170,000 annually

• Screen images are used with permission of ExperTune, Inc.
Thank You!
LETTERS TO THE EDITOR

I asked our 2012 PUPID Scholarship recipient, Danielle Valdivia from Western Michigan University, to send me a quick note about her summer internship and she sent me this …

Send your comments on this newsletter to me at brad.carlberg@bsc-engineering.com or post a message to the ISA PUPID Technical Discussion Forum List Serve & “get something started”!

You can reach the site at http://www.isa-online.org/cgi-bin/wa.exe?A0=PUPID or by going to the PUPID or the main ISA websites and looking for the “ISA Technical Divisions”
**Quickies**

**ISA Pulp & Paper Technical Discussion Forum**

Anybody (not necessarily an ISA or PUPID member) can subscribe to the PUPID Pulp & Paper Technical Discussion Forum. To subscribe, go to the PUPID homepage at [http://www.isa.org/~pupid/](http://www.isa.org/~pupid/), select "Pulp & Paper Technical Discussion Forum" in the pick box, click "Go", and enter you email address and a password.

**ISA Email address for ALL Members**

Any ISA member can register for a free email address and online mailbox. If you set it up, your ISA email address will be yourname@member.ISA.org. To register, go to [http://www.isa.org/membership/benies/](http://www.isa.org/membership/benies/), and follow the registration instructions.

**ISA PUPID Calendar**

Get a quick overview of ISA PUPID events for 2002 by going to the Calendar at: [http://www.isa.org/~pupid/2002_PUPID_Calendar.htm](http://www.isa.org/~pupid/2002_PUPID_Calendar.htm)
# WORLD CORNERS

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<td>Nothing from anyone there this time!</td>
</tr>
<tr>
<td><strong>CENTRAL &amp; SOUTH AMERICAN CORNER</strong></td>
<td>Nothing from anyone there this time!</td>
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<td><strong>FAR EAST CORNER</strong></td>
<td>Nothing from anyone there this time!</td>
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<td><strong>FROM THE LAND OF THE MIDNIGHT SUN</strong></td>
<td>Nothing from anyone there this time!</td>
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<td><strong>EUROPEAN CORNER</strong></td>
<td>Nothing from anyone there this time!</td>
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2012 Pulp & Paper Industry Division Officers

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