Director’s Message

By Michael S (Steve) Moon, P.E.
DES LLC– Birmingham, AL

Well; it’s already the second month of the new year and although the pulp & paper business is still a bit slow in my neck of the woods, the first month has gone by quickly. How about you?

There’s only another couple of weeks to submit an abstract for the fall conference this upcoming October 25 – 27 at McCormick Place in Chicago. I’ve already submitted two abstracts for the fifth edition of the “Web-Based HMI Panel” and the fourth edition of the Ethernet I/O panel. Think of a hot topic to present and go to the ISA 2005 website and submit an abstract. We’d like to have all three days filled up with pulp & paper sessions again this year, so we need your help.

There’s only another two weeks until the 2005 PUPID scholarship deadline. If you know of any deserving student, urge them to go to the PUPID website look at last years scholarship winners, fill out the application and email it to Mike Waller. UNLESS, of course, the $1000 isn’t worth their effort.

PUPID membership is maintaining the 700 level that it has been for the last couple of years. How can we get back to the 1996 membership level of around 1900 members? We’ve tried to give you a lot of free information relying on “the honor system”; but I guess we’ll have to take it off of the nonmember’s website and put it onto the member’s only website so people can’t get it for free, right? Let the PUPID webmaster, Brad Carlberg, know what you think about the content.

The Spring Symposium will be with the IEEE Pulp & Paper IAS and the TAPPI Process Control, Electrical & Information will be June 19 – 23 at the Adam’s Mark in Jacksonville, Florida. (See the papers & presenters later in this newsletter.) Mark it on your calendars.

Again at this year’s ISA Fall Conference, the ISA Joint A&T/I&S Luncheon will be on Tuesday and the PUPID Luncheon will be on Wednesday.

Well, I’ll sign off now until next time; keep watching the PUPID website for upcoming attractions!
**ISA Standards**

PUPID needs a Standards & Practices Committee Chairman!

Get involved in an S&P Committee.

ISA Standards Committees Listserv at:
http://www.isa.org/shellcgi/lyris.pl?site=isa&page=topic&topic=standards+committees&text_mode=0&lang=english

ISO Standards Technical Committee List

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**Tuning Tip: Level Control?**

To optimize a level loop, we must decide what is the goal? Do we want to maintain level at set point or do we want to prevent a spill or dry-out? If the objective is average control (not control at set point but ensure enough inventory), the tuning parameters are selected to reduce impact on the process. For example, if the controller manipulates outflow and inflow is wild, then our goal is to reduce outflow changes when inflow varies; the tank absorbs disturbances.

First we need to convince operation to accept errors on that loop; they should see on the screen not an arrow as set point mark but a band for acceptable values. To tune an averaging control loop, we must know the maximum allowable error.

\[ K_P = \frac{(T_I \times T_{residence})}{(t_{arrest} \times t_{arrest})} \]

Using the same example, and assuming 10 minutes for residence time, hence an arrest time of 30% x 10 minutes:

\[ T_I = 2 \times t_{arrest} \]
\[ K_P = (T_I \times T_{residence}) +( t_{arrest} \times t_{arrest}) \]

Using the same example, and assuming 10 minutes for residence time, hence an arrest time of 30% x 10 minutes:

\[ T_I = 2 \times t_{arrest} = 6 \text{ minutes}. \]
\[ K_P = (T_I \times T_{residence})+( t_{arrest} \times t_{arrest})=(6\text{min} \times 10\text{min})+(3\text{min} \times 3\text{min})=6.6 \]

This tuning tip was courtesy of Top Control
http://www.topcontrol.com

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**Calendar of Events**

Get a quick overview of the ISA PUPID events for 2005 by going to the Calendar at: http://www.isa.org/~pupid/2005_PUPID_Calendar.htm

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**59th Appita Annual Conference and Exhibition**
May 16 - 19, 2005
Sky City Auckland Convention Centre
info@appita.com.au

**SPCI World Pulp & Paper Week 2005**
June 14 - 16, 2005
Stockholm International Fairs
Stockholm, Sweden

**International Pulp Bleaching Conference**
June 14 - 16, 2005
Stockholm International Fairs
Stockholm, Sweden
http://www.paptac.ca/

**IEEE Pulp & Paper IAS / TAPPI PCE&I Spring Symposium**
June 19 - 23, 2005
Adam’s Mark
Jacksonville, FL
http://www.pulpandpapercommittee.com/

**PIMA Leadership Conference**
June 26 - 29, 2005
Renaissance Nashville Hotel
Nashville, Tenn., United States
http://www.pimaweb.org/

**ISA President’s Fall Meeting**
McCORMICK PLACE, CHICAGO, IL
OCTOBER 22 - 24, 2005
Come meet your leaders & get involved!

**ISA 2005**
McCORMICK PLACE, CHICAGO, IL
OCTOBER 25 - 27, 2004

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**Upcoming ISA Conferences & Exhibitions**

- 2005 October 25 - 27 Chicago, Illinois
- 2006 October 9 – 12 Houston, Texas
- 2007
- 2008 October 20 – 23 Houston, Texas
- 2009 Chicago, Illinois
- 2010 October 11 – 14 New Orleans, Louisiana
You can see the online calendar at http://www.isa.org/~pupid/2005_PUPID_Calender.htm
## Welcome to the 31 New ISA Pulp & Paper Industry Division Members so far in 2005

**Welcome To New PUPID Members**

<table>
<thead>
<tr>
<th>Donald J. Jenkinson</th>
<th>James Martin Robbins</th>
<th>Terry Murray</th>
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<tr>
<td>Kenji Yamashita</td>
<td>John A. Thornton, Jr.</td>
<td>Dr. Matthew Guilder Willis</td>
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<td>David W. Johnson</td>
<td>Rodney David Love</td>
<td>Ronaldo Ribeiro</td>
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<td>Rodney Keith Ratchford</td>
<td>Michael C. Murphy</td>
<td>John L. Davis</td>
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<td>Kyle J. McKenzie</td>
<td>Val Thony</td>
<td>John C. Daoust</td>
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<td>Robert A. Leuty</td>
<td>Karina Natsumi Makino</td>
<td>Ivan Ratkovcic</td>
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<td>Patrick James Carlson</td>
<td>Ms. Emmanuelle Monje Rosales</td>
<td>Katia Ramiro Siqueira</td>
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<td>Jose Planelles Gil</td>
<td>Ms. Charlie Browning</td>
<td>Daniel Felipe Vargas</td>
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<tr>
<td>Ibrahim Colmenares</td>
<td>Benjamin M. Hunter</td>
<td>Kirk G. Huggins</td>
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<td>Justin M. Greenaway</td>
<td>Cory C. Brace</td>
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<tr>
<td>Don Reynolds</td>
<td>Robert Samuel Wingard, Jr.</td>
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We’re sorry to see these 74 dropped ISA Pulp & Paper Industry Division Members so far in 2005

**Come On Back!**

<table>
<thead>
<tr>
<th>Wilkie Mah</th>
<th>John F. Shanahan</th>
<th>Gregory Brylski</th>
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<tr>
<td>Jian Qiang Xu</td>
<td>Jim N. Tsengas</td>
<td>Robert L. Inglis</td>
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<td>Wan Gui Li</td>
<td>Willard M. Reed, Jr.</td>
<td>Ronald Johnson</td>
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<td>James B. Williams</td>
<td>Eric C. Hollis</td>
<td>Michael G. Steinlen</td>
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<td>William M. McDonald, PE</td>
<td>Jeen Cheng Lim</td>
<td>Michael J. Ribarcez</td>
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<td>George Kevin Tootherow</td>
<td>Tom To</td>
<td>Charles W. Dawson</td>
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<td>Tommy G. Davis</td>
<td>Russell E. Caho</td>
<td>Kemal Y. Joomun</td>
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<td>J Brent Haydell, Jr.</td>
<td>Joe Dennis Butterfield</td>
<td>Eugene Anthony Soumis</td>
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<td>Douglas Murphy Galloway, Sr.</td>
<td>Jeffrey D. Blaisdell</td>
<td>Robert C. States</td>
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<td>Dave Maksimovich</td>
<td>Johan Hans Tegenfeldt</td>
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<td>William H. Williams</td>
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<td>Morris J. Desselle</td>
<td>Brad Edwards</td>
<td>Jason Barbera, PE</td>
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<td>Geoffrey G. Leblanc</td>
<td>Robert C. Ross</td>
<td>Richard D. Florit</td>
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<td>Ms. Devyn L. Lovie</td>
<td>Gaetan Cloutier</td>
<td>James Swords</td>
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<td>Michael P. Regan</td>
<td>Esa Strom</td>
<td>Jaret Kyle McCloy</td>
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<td>Siew Lee Tan</td>
<td>Jacob Freeke</td>
<td>Derek M. Guerrette</td>
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<td>Lee M. Herasymchurch</td>
<td>Michael Ganes McGee, PE</td>
<td>Christopher David Barclay</td>
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<td>Terry D. Reams</td>
<td>Thomas Battershill</td>
<td>Lyman F. Gilbert, Sr.</td>
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<td>David E. Robinson</td>
<td>Gordon R. Waye</td>
<td>Arthur J. Cook</td>
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<td>Cyril Pereira</td>
<td>Gregory J. Lintinger, Sr.</td>
<td>Michael Seaman</td>
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<td>Charles Patrick Dixon</td>
<td>John A. Chapman</td>
<td>Jerome R. Wenzel</td>
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<td>Joseph M. Regan, III</td>
<td>Barry Morris</td>
<td>Thomas Lee Troxell</td>
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<td>Michael J. Krych</td>
<td>Allen N. Bickel</td>
<td>Edward L. Critzer</td>
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<td>Richard H. Low</td>
<td>John F. Shanahan</td>
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Mercer completes acquisition of Celgar NBSK pulp mill and note and share offerings

NEW YORK, Feb. 14, 2005 (Press Release) - Mercer International Inc. today announced it has completed its previously announced acquisition of the Celgar NBSK pulp mill for approximately $210 million plus an amount for working capital. $170 million of the purchase price was paid in cash and $40 million was paid in Mercer shares issued at a price of $9.50 per share. The acquisition positions Mercer as one of the world's largest publicly traded market producers of NBSK pulp with a consolidated annual NBSK pulp production capacity of approximately 1.3 million tonnes.

On Feb. 14, 2005, Mercer completed its previously announced sale of $310 million of 9.25% senior unsecured notes due 2013 and 9,416,196 Mercer shares at a price of $8.50 per share. After commissions and discounts, such sales resulted in proceeds of approximately $302.5 million and $75.8 million, respectively. The company used such proceeds to pay the cash portion of the purchase price for the Celgar pulp mill and its working capital, repay all of the bank indebtedness of its Rosenthal pulp mill and for working capital.

On Feb. 14, 2005, Mercer also entered into a $30.0 million revolving working capital facility for the Celgar pulp mill and a €40.0 million revolving working capital facility for its Rosenthal pulp mill.

Mercer is a pulp and paper manufacturing company. Mercer operates three modern NBSK pulp mills in Germany and Canada with a consolidated annual production capacity of approximately 1.3 million tonnes.

Sandusky picks up orders for three rebuilds in U.S.

BOLTON, U.K., Jan. 31, 2005 (Press Release) - Following closely upon the success of a dryer section rebuild for a paper manufacturer on the west coast of America, Sandusky has recently received orders for three further major rebuilds - all of which are repeat USA business.

Sandusky will handle the second phase of a press section rebuild for a Tennessee linerboard manufacturer, the first of which is already operational. This rebuild will produce a dryer sheet for improved runnability and will start up in March 2005.

An Alabama linerboard mill has ordered a dryer section rebuild from Sandusky which will include new drying cylinders and pedestals and, again, will increase the overall machine efficiency.

As part of an ongoing improvement package at a Washington newsprint plant, Sandusky will supply and install a series of pocket ventilation (PV) rolls designed to give the customer increased drying capacity.

Lee & Man Paper to acquire Samoa pulp mill; first U.S. pulp mill purchase by China

SAN FRANCISCO, Jan. 24, 2005 (paperloop.com) - In what would be the first sale of a North American pulp mill to a Chinese company, Stockton Pacific Enterprises inked a deal Friday to sell its 210,000 tonnes/year market pulp mill in Samoa, Calif., to Lee & Man Paper Mfg. Co., contacts told Pulp & Paper Week.

SP Newsprint to begin $20 million upgrade at Georgia recycling mill

DUBLIN, Ga., Jan. 21, 2005 (Press Release) - SP Newsprint Co. announced it will begin construction of a $20 million project that will improve pulping efficiency and productivity at the company's Dublin, Ga., recycled newsprint mill. The centerpiece of the project includes a new "drum pulper" which utilizes state-of-the-art technology. This replaces the old pulping technology introduced with the mill startup in 1979.

"This is the largest expenditure since we rebuilt our number two paper machine in 1998 as part of a $25 million project," said Jack Carter, mill manager. "Upgrading pulping operations at the mill is a critical step toward maintaining the viability of our business and in continuing to help support the local economy."

"SP Newsprint's investment in new equipment to improve quality sends a strong message that SP is committed to the Dublin community and all its employees. SP Newsprint's success also is a success for Laurens County," said Dublin
Where’s The Action? Who’s doin’ anything? (Continued)

Laurens Chamber and Development Authority director Willie Paulk.

Construction is scheduled to begin before month's end with the new machinery to be in full operation by December. Labor and materials costs are estimated to exceed $8 million. Work hours required to install the equipment are estimated to reach 110,000 or enough to employ 55 full-time workers for one year. Most of the labor force and materials for the construction project will come directly from the Dublin community.

"SP made a significant effort to steer much of the project work to local businesses," added Carter. "We selected Dublin Construction Company to install the pulper. Dublin Construction is a trusted and experienced partner with whom we've worked on several other projects."

Ben H Hall, president and CEO of Dublin Construction, said, "Dublin Construction has had the privilege of working with SP Newsprint since the groundbreaking in 1978. SP continues to be a major part of our company's ability to mature and hone our skills. We are honored and thankful to have been selected by SP Newsprint for another opportunity to be a partner. This project will have a very positive impact on all 170 employees at Dublin Construction and our community."

Weighing in at 242,000 pounds empty, and measuring 13 feet 1-and-one-half inches (4 meters) in inside diameter and over 100 feet in length, the stainless steel drum pulper looks like a giant washing machine drum. The machine's gentle pulping action agitates old newspapers in a process that converts them from printed pages into pulp.

Although the newspaper breaks down into small fibers, non-paper materials that get into the recycling process through collection, such as plastic newspaper rain sleeves and plastic grocery bags are left intact and easily extracted. These non-paper materials are filtered from the pulping process and do not enter the treated water discharged into the river, further protecting the environment. The new drum pulper will improve the efficiency of the existing program to remove other materials from newspaper as well.

G-P Palatka to install BTG consistency transmitters

SÄFFLE, Sweden, Jan. 17, 2005 (Press Release) - Georgia-Pacific is set to install consistency measuring equipment from BTG Pulp and Paper Sensors at its Palatka Mill, Fla., US.

The order for consistency transmitters, to be installed in the mill's new wash lines in early 2005, follows on from a significant installation two years ago when the mill's new bleach plant was equipped with BTG sensors.

Installation of the 16 BTG MEK-2300 transmitters will enable the mill to better control its consistency, reduce overall production costs and improve the overall productivity of the process, says BTG.

Georgia Pacific Palatka mill operates two kraft paper machines and three tissue paper machines, and produces 527,000 short tons/yr paper products, including bath tissue, paper towels and napkins sold under the Angel Soft, Quilted Northern, Sparkle and Brawny brand names.

BTG Pulp and Paper Sensors is based in Säffle, Sweden.

Paprican and NORAM offer solution that saves bleach plant caustic and steam

POINTE-CLAIRE, Que., Jan. 18, 2005 (Press Release) - The Pulp and Paper Research Institute of Canada (Paprican) and NORAM Engineering and Constructors Ltd. have reached an agreement for the world-wide commercialization of the PAPRICYCLE Process, a mill-proven technology for saving bleach plant caustic and steam.

The PAPRICYCLE Process was developed by Paprican as part of its commitment to ensure that its member companies achieve and maintain cost competitiveness, and has been proven through many installations in Paprican's member company mills in Canada. NORAM now offers the PAPRICYCLE Process to all mills, under licence from Paprican. NORAM works with mill staff to determine the preferred implementation strategy and provides detailed engineering specifications and drawings for construction.

The strong demand for caustic, combined with supply constraints, have significantly increased the price of this chemical, resulting in a higher cost for pulp and paper producers. The PAPRICYCLE Process saves caustic by using the alkali value of the sodium carbonate present in the first extraction stage effluent of the bleaching process. Typically, the first extraction stage caustic charge is reduced by 25-35%. The process can also reduce a mill's energy consumption. Steam is saved because the hot extraction stage effluent heats cooler pulp entering the extraction stage. Savings in caustic and steam represent significant benefits for Canadian and U.S. pulp and paper mills.
Where’s The Action? Who’s doin’ anything? (Continued)

"We are delighted to partner with NORAM Engineering to offer our patented technology to customers around the world. We strongly believe that NORAM's extensive engineering and project management expertise will allow mills to realize significant cost savings from this Paprican technology," said Chris Kanters, director of Contracts, Patents, and Licensing at Paprican.

According to Jim Wearing of NORAM Engineering and Constructors Ltd.: "Paprican technology is proven by attentive member companies and backed by knowledgeable and responsive people. NORAM is pleased to spread the benefits of this well-established process."

Consortium members sign agreements to market Paprican’s polysulfide technology

POINTE-CLAIRE, Q.C., May 12, 2003 (Press Release) - Agreements were signed today at Paprican's Pointe-Claire Laboratory that will result in a new three-party consortium taking on the marketing and sales of Paprican's Paprilox™ technology. The Agreements also provide for additional funding toward future research in the area of polysulfide pulping at Paprican.

NORAM Engineering and Constructors Ltd. is now the licensee for Paprilox in the North American market, while Kvaerner Pulping AB will be the licensee in the rest of the world. Air Liquide will work with both licensees providing oxygen technology and marketing resources. A co-operative agreement was signed between NORAM, Kvaerner and Air Liquide to ensure a standardized product offering for Paprilox around the world. The companies will also collaborate with Paprican under the Paprican Allied Industry Program in support of on-going development of Paprilox and polysulfide pulping technology.

Paprilox is an innovative, mill-proven technology for generating polysulfide, a chemical used to enhance pulp yield in the kraft pulping process. The Paprilox process uses a combination of lime mud, manganese oxide, and oxygen to convert the white liquor in a mill's recaustization plant to orange polysulfide liquor. Paprilox was developed by Paprican researchers, and implemented at Domtar Espanola, a Paprican Member Company mill.

Invensys teams up with ExperTune

HARTLAND, Wis., Dec. 14, 2004 (Press Release) - Invensys has chosen ExperTune's PlantTriage performance monitoring system to underpin its comprehensive new process control Loop Management Services. Together, the two companies aim to help customers maximize the performance of their installed automation assets.

PlantTriage allows Invensys process control experts to quickly identify where control or process improvements would result in the greatest economic benefit. Full control valve and loop diagnostics are obtained in normal operation while the plant remains on-line. PlantTriage easily connects via OPC to Foxboro I/A Series automation system or any other process control system, says ExperTune.

Following remediation, Invensys provides a report documenting the loop performance improvements that were achieved. Ongoing remote monitoring, reporting, prioritization, and on-site remediation services are available to help ensure optimal plant performance over time.

Editor’s Note: These press releases were provided by Paperloop at http://www.paperloop.com/
New Processes From The Great White North

Save Caustic Soda Using a Mill-Proven Process

"Approximately 10% of oxygen delignification lines and 25% of conventional lines (in Canada) use Papricycle® to minimize sodium hydroxide consumption...saving 7-9 kg/t pulp"

-Douglas Pryke and Douglas Reeve, 1996 Tappi Pulping Conference, p 221

The Papricycle® Process was developed by Paprican and proven through many installations in Paprican’s member company mills. Papricycle® saves caustic by utilizing the alkali value of the sodium carbonate present in first extraction stage effluent. The pulp from the chlorination or D0 stage is mixed with the extraction stage effluent and then washed. The washed pulp is then mixed with a reduced amount of caustic and sent to the E-stage tower. The extraction stage charge is reduced by 25 - 40% without affecting the chemical charges in subsequent bleaching stages. For mills with cold first bleach stage, steam is also saved because the hot extraction stage effluent heats the cold pulp before it enters the E-stage tower. Typically, 0.5 MM BTU/ADT pulp is saved.

Papricycle® is particularly attractive in mills where an existing washer can be utilized for the wash step. In some cases, a washer may have become available by elimination of a hypochlorite stage during ECF conversion. Experience has shown that the redundant washer is better utilized for Papricycle® than for its common deployment to double the extraction stage washing. A spare washer may also be made available through the replacement of the second stage extraction stage by a D1nD2 sequence. A variety of shower and piping arrangements may be utilized depending on the mill’s existing water conservation strategy and layout.

NORAM offers the Papricycle® Process under license from Paprican. NORAM will work with the mill staff to determine the preferred implementation strategy and will provide detailed engineering specifications and drawings for construction.

Get more info by going to the NORAM Engineering Ltd website: http://www.noram-eng.com/products/pulppapricycle.html

Paprican (Pulp and Paper Research Institute of Canada) is a world leading research institute. For more information, go to http://www.paprican.ca.

Polysulfide Cooking with Paprilox®

Higher pulp yield, greater mill throughput, improved fiber properties and reduced environmental emissions!

Paprilox® is a mill proven technology to generate polysulfide, a chemical used to enhance yield in chemical pulping. Applicable to any kraft pulp mill, the Paprilox® process uses a combination of lime mud, manganese dioxide and oxygen to convert the white liquor in a mill's recausticization plant to orange polysulfide liquor. The process was developed by Paprican and implemented at a Paprican Member Mill. NORAM has been assigned the license for Paprilox® throughout North America. NORAM is working in cooperation with Kvaerner Pulping AB, Air Liquide Inc. and Paprican in the on-going development of Paprilox®.

Benefits of Polysulfide:
- Pulp yield increased by 2-3% resulting in wood savings of 4-6%.
- Increased mill throughput by up to 8-12% in recovery-limited mills.
- Improved pulp properties including beatability, bonding, fiber strength and cellulose molecular weight.
- Reduced mill odor.
- Potential to reduce kappa number at constant yield resulting in lower bleach chemical costs and lower environmental emissions including AOX, COD, etc.

Benefits of Paprilox®:
- Low capital cost; pays for itself in as little as six months.
- Mill proven; simple, robust operation with low operating cost.
- High reaction selectivity and efficiency.
- Low space requirement.

Get more info by going to the NORAM Engineering Ltd website: http://www.noram-eng.com/products/pulppaprilox.html
Pulp Mill Technology: A synergy of integrated pulp and paper solutions

SPECIALIZED CHEMICAL TREATMENTS
• Cooking aids for enhanced pulping performance
• Washing aids for improved washing performance and contaminant removal
• Contaminant control programs for improved pulp production and quality
• Pulp specialty programs for improved causticizing loop performance and by-products recovery

As a pulp mill operator, you are faced with ever-changing global market conditions that push you to produce pulp of a higher quality while demanding that you reduce your overall operating cost to maintain profitability. Environmentally, you also need to eliminate the use of elemental chlorine in bleaching while achieving effluent minimization goals. Hercules Pulp and Paper Division serves only one industry and is committed to finding the right programs you’ll need to succeed. For pulp mill technologies, Hercules provides cost-effective solutions in the following areas:

- Cooking aids
- Felt conditioners
- Effluent treatments
- Water conservation
- Brown stock foam control
- Washing aids
- Boilout programs
- Recovery boiler/fire/
- Automated feed and
- Pitch control
- Liquor clarification aids
- By-product recovery aids

Cooking Aids
To achieve enhanced pulping performance, cooking additives provide several major benefits:
• Improved liquor penetration
• Reduced pulp rejects and shives
• Reduced pulping variability
• Improved pulp washing
Depending on your individual needs, these benefits can translate to strength improvement, alkali reduction, a reduced recovery load and an increase in yield.

Washing Aids
Our pulp mill line of washing aids reduces organic and inorganic carryover which offers the ability to:
• Reduce bleach plant chemical consumption
• Reduce evaporator loading
• Increase production

Pitch Control
With the broadest line of specialty products including detackification technology, surfactant blends and surfactant/ dispersant blends, Hercules is the industry leader in pitch control programs and application know-how. This understanding is key to the successful application of these products to counter problems such as fiber line deposits, high dirt counts, high talc usage and poor brown stock washing.

Water Conservation
With growing pressure to conserve water and meet environmental demands, the pulp mill of the future will have to operate with a more closed water system. Hercules has long been an innovator in developing products and procedures that maximize the benefits of water conservation while minimizing negative effects, including the increased presence of barium and calcium scales.

Scale Control
Because of the negative effects that scale has on the different parts of your pulping and bleaching systems, it takes highly specialized products and applications to control the problem. For example, you’ll realize a return on investment when a properly identified and applied scale control program provides the following benefits: • Improved washing efficiency, reducing bleach plant chemical usage • Control of scale buildup on washer vats, mats and/or slides, reducing the potential for increased dirt count • Reduced digester scaling, maximizing productivity between acid cleanings

Pulp Specialty Programs
Hercules’ pulp mill technology includes a complete line of products for pulp dryer fabrics, wire conditioning, liquor clarification, by-products recovery, boilouts and lime mud dewatering processes. Additionally, we have an extensive line of effluent and recovery boiler treatments.

For more information, contact the Hercules pulp & paper division at either hppd@herc.com or www.ppd.herc.com
LETTERS TO THE EDITOR

writes:

writes:

writes:

writes:

writes:

writes:

writes:


Send your comments on this newsletter to the ISA PUPID Technical Discussion Forum & “get something started”!!

You can reach the site at
http://216.27.72.194/shellcgi/lyris.pl?enter=pupid&&text_mode=0&lang=english or by going to the PUPID or the main ISA websites and
looking for the “ISA Technical Divisions”

LINKS TO RELATED WEBSITES

ISA PULP & PAPER WEBSITE
http://www.isa.org/~pupid/

ISA PULP & PAPER TECHNICAL DISCUSSION FORUM
http://www.isa.org/scripts/lyris.pl?enter=pupid&text_mode=&lang=english

ISA TECHNICAL CONFERENCE SESSION SCHEDULE
http://www.isa.org/Template.cfm?Section=Conferences_and_Exhibitions&templat e=taggedpage/conferencesbydate.cfm&icid=61

PULP & PAPER RESEARCH INSTITUTE OF CANADA
http://www.paprican.ca/

TAPPI
http://www.tappi.org/

PIMA
http://www.pimaweb.com/

AMERICAN FOREST AND PAPER ASSOCIATION
http://www.afandpa.org/

NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS
http://www.nspe.org/

SWEDISH ROYAL INSTITUTE OF TECHNOLOGY
http://www.pmt.kth.se
http://www.hut.fi/English/

HELSINKI UNIVERSITY OF TECHNOLOGY
http://www.hut.fi/English/

TECHNICAL ASSOCIATION OF THE AUSTRALIAN AND NEW ZEALAND
PULP & PAPER INDUSTRY (APPITA)

AUSTRALIAN PULP & PAPER INSTITUTE

ISO STANDARDS TECHNICAL COMMITTEE LIST

ISA STANDARDS COMMITTEES LISTSERVER
http://www.isa.org/shellcgi/lyris.pl?site=isa&page=topic&topic=standards+committees&text_mode=0&lang=english

QUICKIES

ISA PULP & PAPER TECHNICAL DISCUSSION FORUM

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ISA PUPID CALENDAR

Get a quick overview of ISA PUPID events for 2002 by going
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http://www.isa.org/~pupid/2002_PUPID_Calendar.htm
**Central & South American Corner**

Nothing from anyone there this time!

**Canada Corner**

Nothing from anyone there this time!

**Far East Corner**

Nothing from anyone there this time!

**From The Land Of The Midnight Sun**

Nothing from anyone there this time!
2004 Pulp & Paper Industry Division Officers

**Director:**
Steve Moon, P.E.
Documentation & Eng’g Services
stevemoon@desllc.net
(205) 822-8787
(205) 822-8637

**Past Director / Webmaster:**
Brad S. Carlberg, P.E.
BSC Engineering
(251) 621-9405
(251) 621-5139
bradcarlberg@bsc-engineering.com

**Former Director:**
John Murray
Mead Westvaco Paper
jm9@mead.com
(740) 772-3488

**Secretary / Treasurer:**
vacant

**Programs / H&A:**
Marty Schweers, P.E.
Kellogg Brown and Root, Inc.
marty.schweers@halliburton.com
(251) 450-7721
(251) 450-7247

**Education Co-Chairman:**
Michael H. Waller, P.E.
Miami (of Ohio) University
wallermh@muohio.edu
(513) 529-2205
(513) 529-3841

**Education Co-Chairman:**
Kaichang Li
Oregon State University
kaichang.li@orst.edu
(541) 737-8421
(541) 737-3385

**Advisor:**
Richard E. Britton, P.E.
Retired – International Paper
richardbritton1@comcast.net
(251) 342-0998
(251) 342-0998

**Paper Review Coordinator:**
Tommy Thompson, P.E.
Simons Engineering, Inc.
tommy.thompson@amec.com
(770) 370-3200
(770) 370-3646

**Environmental Chairman:**
H. Pierce Rumph, P.E.
Orion CEM, Inc.
hprumph@compuserve.com
(770) 458-4535
(770) 451-1512

**Advisor:**
Dr. Leoncio Estevez-Reyes, P.Eng.
Schweitzer-Maudit – Spotswood Mill
(732) 723-6135
leonicio_estevez-reyes@swm-us.com

ISA Pulp & Paper Industry Division
P.O. Box 12277
Research Triangle Park, NC 27709

ADDRESS CORRECTION REQUESTED