Honorable Members of PUPID,

Well, it is already the second week of February and as I write this I have just returned from the ISA Executive Summit in Greensboro, North Carolina where we focused on five strategic goals:

- DATA—To align ISA with Markets
- CONTENT DELIVERY—To the career development and opportunity needs of the automation professional
- COOLEST DELIVERY—To connect people and knowledge
- GLOBAL AUTHORITY—On control system Cyber Security
- ADVOCACY—Cradle to grave awareness and proficiency of automation as a career

Our division net membership has decreased slightly from 361 to 327 members. We do have 9 new division members in November, 2014. Welcome to the new members!

We’re in the midst of programming for the 2015 ISA Process Control & Safety Symposium. PUPID had one track on one day (four – 90-minute sessions) at last year’s symposium & we’ll likely do the same again this year. So, send in your abstracts & come on down to the Houston Westchase Marriott.

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: **\( \lambda \)-Based Control Loop Tuning

Here is a brief outline of \( \lambda \) tuning. There are two basic steps:

1. Process Model Identification
2. Lambda Tuning
   - 1st order process with deadtime
   - integrating process (i.e. level control)

1. Process Model Identification (First-Order with Dead-Time)

Many processes in the pulp and paper industry can be approximated by a 1st order process with deadtime. If we perform an open-loop bump test, the response can be characterized as follows:

Nomenclature

\[
\begin{align*}
y &= \text{controlled variable} \\
u &= \text{manipulated variable} \\
k_p &= \text{process gain} \\
\tau_p &= \text{process time constant} \\
\tau_d &= \text{process deadtime} \\
\lambda &= \text{desired closed loop time constant} \\
k_c &= \text{controller proportional gain} \\
PB &= \text{proportional band (100/k_c)} \\
\tau_i &= \text{integral time (1/reset rate)} \\
\tau_d &= \text{derivative time}
\end{align*}
\]

\[
\begin{align*}
Y &= 0.283 \Delta y \\
&= 0.632 \Delta y \\
&= \Delta y \\
T1 &= T2 \\
\text{Time}
\end{align*}
\]
The process parameters can be estimated using the following equations:

\[ k_p = \frac{\Delta y}{\Delta u} \]
\[ \tau_p = 1.5(T_2 - T_1) \]
\[ \tau_d = T_2 - \tau_p \]

Lambda Tuning

Choose the desired closed-loop time constant, \( \lambda \) (typically 2 to 3 time the process time constant).

\[ k_c = \frac{2\tau_p + \tau_d}{2k_p(\lambda + \tau_d)} \]
\[ \tau_i = \tau_p + \frac{\tau_d}{2} \]
\[ \tau_d = \frac{\tau_p \tau_d}{2\tau_p + \tau_d} \]

Level Control Tuning

\[ |k_i| \geq \frac{2}{e} \times \frac{\text{Typical Load Change}(\%)}{\text{Allowable Error}(\%)} \]
\[ \tau_i \geq \frac{4}{|k_i|} \times \frac{\text{Tank Volume} (\text{gal})}{\text{Maximum Flow} (\text{gpm})} \]

Rules of Thumb

- Integral time should not be smaller than the process time constant.
- Level control oscillating? Remove nearly all integral action.
- Poll time should be less than one-tenth the process time constant, \( \tau_p \).
- Filter time constant should be less than one fifth the process time constant, \( \tau_p \).
- Closed-loop time constant is usually greater than the process time constant, \( \tau_p \).
- For cascaded loops: Tune the inner loop first. Closed-loop time constant of the outer loop should be at least 5 times that of the inner loop.
WELCOME TO THE 9 NEW ISA PULP & PAPER INDUSTRY DIVISION MEMBER SINCE NOVEMBER, 2014

Mauro Epaminondas Carvalho
Israel Bispo Jr
Renan Pasqualini Scarazzatti

Danny Villanueva
Steve Byrnes
Doug Phillis

OSCAR MORALES
Kirk G. Huggins
Joseph Maskery SR

HERE’S A REMINDER TO THE 38 ISA PULP & PAPER INDUSTRY DIVISION MEMBERS WHO NEED TO RENEW THEIR MEMBERSHIP

Ammar Mahmoud Al-Hammad
Carlos Alberto Grosman
Chad Greenfield
DeMario Marques Caldwell
Diego A. Herrera Cabrera
Dr. Abhijit S. Badwe
Dr. Jonas Gillberg
Jennifer Fink
Jonathan Alexander Lasprilla Abello
Aaron Ausetth
Adam C. Hamer
Alexandro Miltiades Forttes
Anthony J. Orel

Charlie Ahn, CCST
Douglas V. Lenz
Gerson M. Moita
Glen M. Gallagher
Horace K. Carter
James S. Wright
John S. Heller, Jr.
Kolten Michael McClure
Luis Crescencio Castro
Lyle Kritzberger
Manuel Anton Filipe
Mark T. Hood
Michael J. Tucker

Peter J. Luciano
Peter L. Den Hollander
Rahul Aggarwal
Ronald E. Lee, Jr.
Ronald Keidel
Samuel Allen Lipscomb
Shahanshah Manzoor
Shahzad Ahmed
Snehal Kumar Govind Sankpal
Prof. Jerker Delsing
Regina Trapp
Rick Van Fleet

DON’T FORGET TO RENEW!

Setting the Standard for Automation™

The best example of leadership is leadership by example.
Jerry McClain, Seattle WA

Know an exceptional member leader?
Nominate him or her for an ISA position.

To nominate, visit www.isa.org/nominate
Nomination deadline is 31 March 2015
A scholarship is a terrible thing to waste.

Students can’t win academic scholarships if they don’t apply. ISA Educational Foundation Scholarships are awarded to college or university students who demonstrate outstanding potential in the fields of automation and control. ISA scholarships cover tuition and related expenses as well as research activities and initiatives.

To guarantee consideration, students are encouraged to complete and submit an application as soon as possible. The deadline for application submission is 15 February 2015.

For more details, including answers to frequently asked questions, or call ISA at +1 919-549-8411.

http://www.isa.org/scholarships
PULP AND PAPER INDUSTRY DIVISION SCHOLARSHIP

The Pulp and Paper Industry Division of The Instrumentation, Systems, and Automation Society (ISA) has established a scholarship to increase interest in the instrumentation and process control components of the pulp and paper industry. One $2000 scholarship, for either an undergraduate entering either their junior or senior year or a graduate student, will be offered for the current school year. The winner of the scholarship in their junior year is eligible to apply again for their senior year, on an equal basis with all other candidates.

Selection of the scholarship winners will be based on the Scholarship Committee's opinion of the candidate's potential contribution to the pulp and paper industry.

To be eligible to apply for the scholarships, a candidate must be:

1. Either a student member, or a dependent of a member of the Instrument Society of America.
2. Enrolled as an undergraduate leading to a bachelor's in an engineering, science, or pulp & paper program or a graduate leading to a master's degree in a pulp & paper program.
3. A junior or senior during the current school year or if a graduate student within one year of receiving the Master's degree.
4. Able to demonstrate a significant interest in the instrumentation/process control component of the pulp and paper industry.

Candidates can download the Application form complete it and return it to Patrick J. Dixon, PUPID/ISA Scholarship, 5002 Sundown Lago Vista, Texas 78645, calling (512) 771-3936, or sending an e-mail to PatJDixon@DPAS-INC.COM. To apply, candidates must send the following items to the above address, to arrive no later than February 28:

1. Completed application form. (Download the application)
2. Official transcript from the applicant's university.
3. Three letters of recommendation from persons familiar with the applicant's character, interest in the pulp and paper industry, educational accomplishments, school activities and leadership roles.

Scholarship winners will be notified by April 15. Unsuccessful candidates will be notified at the same time.

Meet the Past Winners

2015 Scholarship Winner -
Jennifer L. Fink

2014 Scholarship Winner -
Kayla L. Young

2012 Scholarship Winner -
Danielle C. Valdivia

2011 Scholarship Winner -
Ryan W. Schuerger

2010 Scholarship Winner -
Thomas T. Forte

2009 Scholarship Winner -
Not Awarded

2008 Scholarship Winner -
Not Awarded

2007 Scholarship Winner -
Kyle D. Hutcheson

2006 Scholarship Winner -
Not Awarded

2005 Scholarship Winner -
Not Awarded

2004 Scholarship Winner -
Michael A. Graff

2003 Scholarship Winner -
Michael A. Graff

2002 Scholarship Winners -
James A. Stockard & Mark L. Lambert
WHO’S DOIN’ ANYTHING?:

Glatfelter prepare woodchip recycling test project at Chillicothe, OH, paper mill
Mon, Feb 02, 2015

CHILlicoTHE, OH, Jan. 28, 2015 (Chillicothe Gazette) - Officials at Glatfelter are preparing for a wood chip recycling project after being granted a temporary permit by the Ohio Environmental Protection Agency earlier this month. The paper mill requested a temporary permit in late 2014 to operate a diesel-powered conveyor system for the chips, which was granted Jan. 15, state records show. Mitzi Anderson, spokeswoman for Glatfelter, said the conveyor system would be used to run a recycling project trial program involving knots, a term for wood chips that are not completely cooked in the pulping process and are screened out. "We have not started the trial, but plans are in place to start in the near future," Anderson said. Chillicothe Gazette - Glatfelter readies project to recycle wood chips –

Kadant receives orders of $11 million from three pulp and paper producers in US and Mexico

WESTFORD, MA, Jan. 20, 2015 (Business Wire) - Kadant Inc. today announced that at the end of the fourth quarter it received orders totaling $11 million from three pulp and paper producers in the U.S. and Mexico for chemical pulping equipment and recycling system upgrades. The chemical pulping equipment will be used to recover chemicals in the kraft pulping process and the stock-preparation recycling systems will be used to process recycled fiber for use in paper production. The Company expects to report consolidated bookings for the fourth quarter of 2014 of approximately $103 million. "The favorable investment environment for chemical pulp and recycling projects in North America has resulted in these projects being converted to orders," said Jonathan W. Painter, president and chief executive officer of Kadant. "We were pleased to have been recognized for our equipment reliability and energy efficient offerings as our customers continue to seek solutions to improve energy utilization, reduce water consumption, and increase fiber yield." About Kadant Kadant Inc. is a global supplier of high-value, critical components and engineered systems used in process industries worldwide. The Company's products, technologies, and services play an integral role in enhancing process efficiency, optimizing energy utilization, and maximizing productivity in resource-intensive industries. Kadant is based in Westford, Massachusetts, with revenues of $344 million in 2013 and 1,800 employees in 18 countries worldwide.

Toscotec to rebuild Van Houtum's PM 4 tissue machine in Swalmen, The Netherlands

LUCCA, Italy, Jan. 19, 2015 (Press Release) - Toscotec has been awarded a contract to deliver a dry end rebuild of the Van Houtum B.V. PM 4 tissue machine in Swalmen, The Netherlands. The start-up of the rebuilt machine is scheduled for the third quarter of 2015. Van Houtum is an independent producer of hygienic paper products and innovative washroom solutions for 80 years and is a leader in the area of Corporate Social Responsibility (CSR). This family-owned company operates one mill in Swalmen, located in the south of the Netherlands, where it can produce approximately 45,000 tonnes/yr of tissue from recovered paper on two machines. A separate location nearby houses nine converting lines: three rewinders produce toilet and industrial products and six lines produce interfold and multifold products. The firm has some 200 employees and generates annual sales of around €65m. Under the brand name of "Satino Black", environmental labelled as FSC recycled and European Ecolabel as well as Cradle to Cradle-certified, the Company offers a wide range of products that includes toilet paper and paper hand towels. In line with this green and dared philosophy, the Company has decided to choose Toscotec for its dry end rebuild on the PM4. The purpose of the rebuilding is to implement machine efficiency, reliability and safety in operations. Toscotec ’s delivery includes a new reel TT Reel-P that will replace completely the existing old one. The supply is completed also by new tail threading system, sheet stabilizers and shaft puller with expandable shafts. The project will be handled on a turnkey basis, including dismantling of the existing equipment, installation of the new machinery, start-up assistance and training services. The new machine parts will be designed for an operative speed up to 1800 mpm with a paper width of 2600 mm. Toscotec is a major paper and tissue machinery supplier that operates worldwide, focused on process solutions that cover the whole plant area from stock preparation up to winders. This new project consolidates the well know Company capabilities to provide, not only a wide range of new machinery but also complex rebuild projects based on turn key concept.
Domtar updates its The Paper Trail site to include new data

MONTREAL, Jan. 28, 2015 (CNW) - Domtar Corporation today announced significant updates to The Paper Trail®, its award-winning interactive tool that helps customers trace the impacts of their paper purchases. The totally renovated site includes social and economic information in addition to environmental data, broadening the meaning of sustainability. It represents Domtar's belief that businesses should operate transparently, pulling back the curtain on their operations and the resulting impacts.

With the latest additions, The Paper Trail (www.domtarpapertrail.com) now showcases the people and places behind the products, featuring stories and photos from all 13 of Domtar's North American mills. The tool assesses Domtar's community investments by tracking charitable donations and volunteer efforts, such as recycling programs or educational initiatives. It also demonstrates the paper industry's impact on the economy, as Domtar employs nearly 9,000 people across the United States and Canada. In doing so, The Paper Trail helps both businesses and consumers understand the holistic impact of their purchases. "Since first introducing The Paper Trail in 2011, our thinking has continued to evolve regarding what sustainability encompasses," said Paige Goff, Vice President of Sustainability and Business Communication. "The new site embraces all three legs of the 'sustainability stool' by assessing not only our environmental footprint, but our social and economic impact as well. It demonstrates Domtar's commitment to the towns we operate in - not only as an environmental advocate, but also as a driver of community initiatives and a creator of thousands of jobs."

The Paper Trail provides gate-to-gate impact estimates for Domtar products across five environmental categories: fiber, greenhouse gas (GHG) emissions, water, renewable energy and waste. It provides relevant context by illustrating how Domtar compares to the rest of the industry in these categories and, importantly, highlights areas for improvement in addition to showcasing what Domtar is doing well. "The Paper Trail illustrates many of the complex issues we carefully consider when evaluating opportunities to improve our performance," said Brian Kozlowski, Senior Manager, Sustainability Performance Optimization. "We've used the tool to display mill sustainability data in an interesting and interactive way - and we're inviting the public to come along on the journey."

In addition to providing social and economic data, The Paper Trail also: Includes an expanded list of responsibly produced paper grades, representing the entire EarthChoice® Product Line Displays histories, pictures and stories from all 13 of Domtar's North American pulp and paper mills Offers users personalized impact report options with broader sustainability information, including topics of interest such as bleaching processes used and tree species utilized Is optimized for use on all smartphone, tablet and desktop devices Uses Google Maps to create a geographic trail to the closest mill that produces a select paper grade With these improvements in place, The Paper Trail offers a clear and complete answer to the question "where does my paper come from?" It goes beyond environmental data to show customers how their purchase of North American paper can create a positive ripple effect on local communities. "We can't always promise perfection, but we believe our customers deserve transparency. That's a promise we will always deliver - and it's the reason we created The Paper Trail in the first place," said Goff. "Now, consumers can also take pride in the fact they're helping to drive philanthropic efforts and create jobs across North America when they purchase from Domtar."

About Domtar Domtar Corporation designs, manufactures, markets and distributes a wide variety of fiber-based products including communication papers, specialty and packaging papers and absorbent hygiene products. The foundation of its business is a network of world class wood fiber converting assets that produce papergrade, fluff and specialty pulps. The majority of its pulp production is consumed internally to manufacture paper and consumer products. Domtar is the largest integrated marketer of uncoated freesheet paper in North America with recognized brands such as Cougar®, Lynx® Opaque Ultra, Husky® Opaque Offset, First Choice® and Domtar EarthChoice®. Domtar is also a leading marketer and producer of a broad line of absorbent hygiene products marketed primarily under the Attends®, IncoPack and Indasec® brand names. In 2013, Domtar had sales of $5.4 billion from some 50 countries. The Company employs approximately 10,000 people.

US industrial production down 0.1% in December 2014

WASHINGTON, DC , Jan. 16, 2015 (Press Release) -

Industrial production decreased 0.1 percent in December after rising 1.3 percent in November. The decrease in December reflected a sharp drop in the output of utilities, as warmer-than-usual temperatures reduced demand for heating; excluding utilities, industrial production rose 0.7 percent. Manufacturing posted a gain of 0.3 percent for its fourth consecutive monthly increase. The index for mining increased 2.2 percent after falling in the previous two months. At 106.5 percent of its 2007 average, total industrial production in December was 4.9 percent above its level of a year earlier. For the fourth quarter of 2014 as a whole, industrial production advanced at an annual rate of 5.6 percent, with widespread gains among the major market and industry groups. Capacity utilization for the industrial sector decreased 0.3 percentage point in December to 79.7 percent, a rate that is 0.4 percentage point below its long-run (1972-2013) average.
Valmet buys process automation systems business from Metso

Wed, Jan 14, 2015

Valmet Corporation and Metso Corporation have signed an agreement on the sale of Metso’s Process Automation Systems business to Valmet on January 15, 2015. The enterprise value of the acquisition is EUR 340 million. The acquisition will be financed with committed long-term financing. It is estimated that the acquisition will be completed by April 1, 2015.

The completion of the transaction is subject to approval by the competition authorities. The acquired operations supply process automation and information management systems and related applications and services to the pulp, paper, energy and other process industries. The purchased operations employ about 1,600 people. Net sales for 2013 amounted to approximately EUR 300 million.

Combination of Valmet and Process Automation Systems creates unique customer offering As a result of the acquisition, Valmet will become a stronger and unique technology and services company in its field, with a full automation offering. The acquisition strengthens Valmet’s competitiveness by combining paper, pulp and power plant technology offering, services, process know-how and automation into one customer value-adding entity. Approximately 80 percent of Process Automation Systems sales come from Valmet’s current customer industries and the rest from other process industry clients. Process Automation Systems is a strong, established business The business being acquired is a strong business, with established customer relations and a high level of technology and know-how. About 1,600 automation professionals work close to customers at approximately 80 locations around the world. The share of services business in the acquired business is significant, accounting for approximately 45 percent of net sales in 2013, and is based on large installed automation base and a captive business model. The acquired business has a good financial track record and stable cash flow.

The acquisition makes Valmet more stable and more profitable Net sales of the Process Automation Systems business is approximately EUR 300 million, of which Valmet has accounted for approximately 10 percent. Therefore the acquisition increases the share of stable high-margin business of Valmet's net sales by approximately EUR 270 million. Process Automation Systems has a solid financial track record, with slight growth and relatively stable margins during the last 10 years. EBITA margin (earnings before interest, taxes and amortization) for Process Automation Systems has been approximately 10-12 percent.

Through the acquisition, Valmet strengthens its offering and continues to develop its business. Significant cost synergies are not expected to be achieved. Valmet's balance sheet remains strong also after the acquisition. To illustrate, if the acquisition had taken place at the end of September 2014, Valmet’s gearing after the acquisition would have been approximately 23 percent and equity ratio approximately 35 percent, based on illustrative figures of the acquired business at the end of September 2014.

Pasi Laine, President and CEO of Valmet Corporation: With the acquisition we create a unique customer offering and strengthen further our leading market position "Through the acquisition of Process Automation Systems, Valmet will become a technology and service company with full automation offering. The acquisition will help Valmet in increasing its business stability, while also improving profitability. By combining paper, pulp and energy technology, process know-how, services and automation, we can serve our customers even better than before and move our customers’ performance forward. This transaction has an excellent fit with our existing strategy and the timing is right for Valmet," says Pasi Laine, President and CEO of Valmet Corporation.

PMT-supplied headboxes start up on containerboard PM 2 in Turkey

PINEROLE, Italy, Jan 20, 2015 (Press Release) - The Turkish paper producer Halkali Kağıt has very recently successfully started up two new ÆGOTMSTREAM S Headboxes on the PM2 of its Istanbul Mill.

PM2 is about 4 m wide and produces Fluting, Test Liner in two layers in a basis weight range of 80 to 180 g/m2, from 100% waste paper, at a maximum operating speed of 870 m/min.

The bottom layer ÆGOTMSTREAM S is equipped with smarpro dilution water system for the basis weight profiling.
WHO’S DOIN’ ANYTHING?: (CONTINUED)

SCA appoints Stefan Sjöström as VP, sales and marketing pulp

TIMRA, Sweden, Jan 16, 2015 (Press Release) - The present common sales organization for paper and pulp is divided and merged with the respective divisions. This means that SCAS Pulp takes the full responsibility for pulp sales.

Stefan Sjöström, market manager pulp, has been appointed Vice President Sales and Marketing Pulp with responsibility for the sales organization for pulp. He will be reporting to the President of SCA Pulp, Acting President Jens Olsson. The change is effective as of 1 February 2015.

SCA Östrand produces chlorine-free kraft pulp under the Celeste brand and CTMP under the Star brand as well as airlaid material marketed under the Luna brand. Total production of pulp amounts to 500,000 tons.

SCA Östrand is part of SCA's Forest Products business unit, which produces paper for packaging and print, pulp, solid-wood products and renewable energy. SCA Forest Products also manages SCA’s extensive forest holding, supplies SCA’s Swedish industries with wood raw materials, in addition to offering cost-efficient transport solutions.

Xerium plans expansion strategy at two plants

Xerium Technologies, Inc., a leading global provider of industrial consumable products and services, announced two plant expansion projects to enhance its rolls products and mechanical services capabilities for the North American market. Xerium will expand and modernize its Griffin, Georgia plant. It will broaden its mechanical service offering, expand its capabilities for rubber roll recovering, and expand its capabilities for industrial roll recovering. These new investments will also lower lead times.

This expansion is expected to generate increased sales volumes in the region. Completion is scheduled for Q4 2015. Xerium will expand and modernize its Neenah, Wisconsin plant. It will broaden its product offering by installing a state-of the-art polyurethane roll cover production cell, and increase the size and breadth of its mechanical services department in order to more broadly serve customers in the region. These new investments will also improve lead times.

This expansion is expected to generate increased sales volumes in the region. Completion is scheduled for Q4 2015. Both facilities manufacture and repair large rolls used in the production of paper, containerboard, boxboard, tissue, pulp, nonwoven fabrics, fiber cement siding, steel, film production, and flexible packaging.

Both facilities mechanically repair & service large sections of production machines that require regular and sophisticated maintenance. “These expansions enhance Xerium’s product and service offerings to customers in these areas of the North American market,” said Mr. Harold Bevis, President and CEO of Xerium. “Both modernization projects enable these two plants to supply all of Xerium's roll product portfolio and mechanical service technologies to assist large machine owners in these regions to achieve optimized machine performance."

ABOUT XERIUM Xerium Technologies, Inc. (XRM) is a leading global provider of industrial consumable products and services. Xerium utilizes a broad portfolio of patented and proprietary technologies to provide customers with tailored solutions and products integral to production, all designed to optimize performance and reduce operational costs. Xerium has 27 manufacturing facilities in 12 countries, 2 new plants under construction in 2 countries and employs approximately 3,200 employees.

Verso names mill manager at NewPage in Wisconsin Rapids; says no plans for ‘significant reductions’ at mill that employs 1,000

WISCONSIN RAPIDS, WI , Jan. 22, 2015 (Wisconsin Rapids Tribune) -

Two weeks after its acquisition of NewPage Corp. became official, Verso Corp. is moving forward in bringing the Wisconsin Rapids mill into the company's fold.

On Friday, the company announced David Sams would be the mill's new manager. Sams, who worked for Verso as its corporate director of environmental health and safety since 2008, will begin his new job in February.


**WHO’S DOIN’ ANYTHING?: (CONTINUED)**

Valmet-supplied PM 16 is inaugurated at SCG Paper's Ban Pong Mill

SCG Paper's Valmet-supplied containerboard production line, PM 16, successfully came on stream on October 01, 2014, 11 days ahead of the targeted date, at the Siam Kraft Industry Ban Pong mill in Ratchaburi, Thailand. The official Inauguration Ceremony at the Ban Pong mill took place on January 23, 2015, with over 400 guests celebrating the new well performing production line. “PM 16 showcases the cutting edge technology of paper packaging manufacturing. It combines the world’s latest technologies with SCG Paper's expertise, which means our company can now manufacture the products to meet the needs of customers in all and finer details,” says Wichan Jitpukdee, Managing Director of Siam Kraft Industry. The new 7.25 m wide PM 16 is the third OptiConcept M-type containerboard production line already started up. Earlier two lines have been started-up for Liansheng Paper Industry and Lee & Man Paper Manufacturing in China.

This SCG Paper's line has an annual production capacity of approximately 300,000 tonnes of high-quality 100% recycled fluting grades in the basis weight range of 90 to 150 g/m2. The design speed of the machine is 1,300 m/min. “Siam Kraft PM 16 is one of the most successful projects in South East Asia. It proves that Valmet can offer the very efficient technology in terms of energy consumption and operating cost reduction”, says Pornpracha Wattanakijsiri, Head of South East Asia region, Valmet, Thailand.

Energy efficient OptiConcept M board machine Valmet's delivery included a complete OptiConcept M boardmaking line from headbox to reel including an approach flow system, steam and condensate systems, surface size preparation and supply systems, a winder as well as machine clothing. In addition, Valmet provided an extended scope of supply implementation covering complete mill engineering, installation and supervision services related to commissioning, testing and start-up. Training services were also included in the delivery.

The Siam Kraft PM 16 containerboard production line combines high productivity with low energy usage per produced ton of paper. The real-time energy consumption monitoring shows that the production line is performing as expected in energy efficiency. "One important driver for this project was to achieve the efficient energy consumption level, which means we could optimize the operating costs yet, remain competitive", says Sompob Witworrasakul, Director of Engineering Division, SCG Paper.

About SCG Paper and its subsidiary Siam Kraft Industry SCG Paper and its subsidiary company Siam Kraft Industry Co., Ltd produce and market industrial and packaging paper in Thailand and internationally. The company offers corrugating medium, linerboard, coreboard, industrial sack kraft, bag papers, plaster linerboard, duplex board as well as converted and finished products. The company was founded in 1984 and is based in Bangkok, Thailand.

Valmet Corporation is a leading global developer and supplier of services and technologies for the pulp, paper and energy industries. Our 11,000 professionals around the world work close to our customers and are committed to moving our customers’ performance forward - every day. Valmet's services cover everything from maintenance outsourcing to mill and plant improvements and spare parts. Our strong technology offering includes entire pulp mills, tissue, board and paper production lines, as well as power plants for bio-energy production. Valmet's net sales in 2013 were approximately EUR 2.6 billion. Valmet's objective is to become the global champion in serving its customers. Valmet's head office is in Espoo, Finland and its shares are listed on the NASDAQ OMX Helsinki Ltd.

**New AF&PA video and webpage promote improved paper recycling**

WASHINGTON, DC, Jan. 13, 2015 (Press Release) - The American Forest & Paper Association’s (AF&PA) newly launched What is Recyclable? webpage and Improving Paper Recycling video promote increased quantity and quality of paper and paper-based packaging recovered for recycling. These new resources are part of AF&PA’s ongoing effort to increase paper recovery. The webpage and video are available at: [http://www.paperrecycles.org/recycling-resources/what-is-recyclable](http://www.paperrecycles.org/recycling-resources/what-is-recyclable).

When using recovered fiber to make new paper products, the quality of materials used is especially important,” said AF&PA Executive Director for Recovered Fiber Brian Hawkinson. “Following the advice in our video and on our webpage improves paper recycling, which in turn helps maximize the amount of paper that can be used to make new products.” The video encourages people to recycle a wide range of paper and paper-based packaging products and to make sure those products are clean and dry before placing them in the recycling bin. Information on the paper and paper-based packaging items most commonly accepted for recycling in the U.S., and how to prepare them before placing them in the recycling bin, is available on the webpage. For other information and tips on paper recycling, free classroom resources, statistics, and more, visit [http://paperrecycles.org](http://paperrecycles.org)
**WHO’S DOIN’ ANYTHING?: (CONTINUED)**

Ilim thinks twice about FBB investment in Russia

BRUSSELS, Jan 15, 2015 (RISI) - Russian pulp and paper giant Ilim Group has not yet taken the final decision on whether or not it will install a coated folding boxboard (FBB) machine at its Koryazhma mill in the Arkhangelsk region in western Russia.

"We keep watching this market. The plan was to combine the BCTMP line built at the IP Svetogorsk mill with packaging paper production where you need special mechanical strength to get your costs down. But we have a bit of a problem regarding the market size in Russia," Ilim CEO Franz Marx told RISI in an interview.

Ilim, which is a 50/50 joint venture with US's International Paper (IP), first announced possible plans to invest in production of FBB, which is currently all imported by Russia, in 2011.

Marx said that the business case for the investment is not clear yet.

"An average new FBB machine has a capacity of at least 300,000-400,000 tonnes/yr, while the estimated capacity of the Russian market is only 240,000 tonnes/yr. You would have to export some 100,000-150,000 tonnes/yr in a market that is completely oversupplied by Chinese producers," Marx said.

Marx added that the firm is still considering the investment, however.

Verso completes acquisition of NewPage for $1.4 billion

MEMPHIS, TN, Jan 7, 2015 (Marketwire) - Verso Corporation, a leading North American producer of printing and specialty papers and pulp, today announced the completion of its acquisition of NewPage Holdings Inc. The transaction, valued at approximately $1.4 billion, originally was announced on January 6, 2014. With the completion of the NewPage acquisition, Verso will have approximately $3.5 billion in annual sales and approximately 5,800 employees in eight mills across six states.

"The combination of Verso and NewPage creates a stronger, more stable company with an effective strategy to weather industry headwinds and reduce operating costs, while ensuring our customers continue to benefit from the distinctive quality and service that they have come to expect from us," said David J. Paterson, Verso's president and chief executive officer. "We continue to face increased competition from electronic substitution for print and from international producers, but as a larger, more efficient organization with a sustainable capital structure, we are better positioned to deliver solid results despite the industry's continuing challenges."

The combination is expected to result in substantial cost synergies over the next 18 months. "With the complementary asset base and shared strategic focus on coated paper manufacturing, this acquisition represents a relatively low integration risk, so we remain confident that we can deliver the synergies within the expected timeframe," Paterson said.

"This combination and the related financial transactions have created value for the securities holders of both companies," said Mark Angelson, chairman of NewPage. "Our customers, our employees and the communities in which they live and work will be in able hands with the new Verso team as they navigate the turbulent waters of this challenging industry. I thank our directors and management for a job well done in safely landing our ship, and wish the Verso team well going forward."

Divestiture of Biron and Rumford Mills

In a related transaction, immediately prior to Verso's acquisition of NewPage, NewPage completed the divestiture of its paper mill in Biron, Wisconsin, and its pulp and paper mill in Rumford, Maine, to Catalyst Paper Operations Inc., a subsidiary of Catalyst Paper Corporation. The divestiture, originally announced on October 30, 2014, was undertaken pursuant to a settlement with the United States Department of Justice that enabled the NewPage acquisition to proceed.
**WHO’S DOIN’ ANYTHING?: (CONTINUED)**

**Name Change**

Promptly after the NewPage acquisition was completed, Verso changed its name from Verso Paper Corp. to Verso Corporation. The name change symbolizes Verso's intention to broaden its business platform and seek alternative revenue streams to augment its core printing papers, specialty papers and pulp segments. Verso's ticker symbol on the New York Stock Exchange (NYSE: VRS) will remain the same. Verso's website address has been changed to www.versoco.com.

**Leadership and Governance**

As previously announced, Verso's existing senior leadership team will continue to lead the organization, with Paterson continuing as president and CEO. The rest of Verso's senior leadership team consists of the following persons, each of whom currently is an executive of Verso:

Lyle J. Fellows, Senior Vice President of Manufacturing and Energy, is responsible for the mill and converting network, forest resources, manufacturing technology and energy.

Robert P. Mundy, Senior Vice President and Chief Financial Officer, has responsibility for all financial areas, including financial planning and analysis, tax, corporate finance and treasury functions, accounting and audit functions, and investor relations.

Michael A. Weinhold, Senior Vice President of Sales, Marketing and Product Development, is responsible for sales, marketing, e-commerce, new business development, planning, logistics, customer service, field technical sales, product development and pricing management.

Peter H. Kesser, Senior Vice President, General Counsel and Secretary, has responsibility for all legal matters, including governance and compliance.

Kenneth D. Sawyer, Senior Vice President of Human Resources and Communications, is responsible for all human resources and people systems, including talent management and development, labor relations, performance management, compensation and benefits, as well as communications and public affairs.

Benjamin Hinchman, IV, Vice President and Chief Information Officer, has responsibility for the planning, development and operation of all information technology systems.

Joseph C. Duffy, Vice President of Integrated Planning and Control, is responsible for the integration of the two companies and other business coordination and planning activities.

In addition, following the NewPage acquisition, Verso's board of directors increased its size from 9 to 10 directors and elected Robert M. Amen, formerly a director of NewPage, to serve as a director of Verso. Mr. Amen will serve as a Class I director whose term expires at Verso's 2015 annual meeting of stockholders. It is anticipated that Mr. Amen will be nominated for election by Verso's stockholders at such meeting to serve for a term of three years.

**Adjustment of Debt Securities**

Adjustable Second Lien Notes

As a result of the consummation of the NewPage acquisition, and effective as of its closing date, the provisions of the Adjustable Second Lien Notes issued by Verso Paper Holdings LLC and Verso Paper Inc. were adjusted as follows: (1) the principal amount of the notes has been adjusted such that a holder of $1,000 principal amount of notes immediately prior to the acquisition now will hold $593.75 principal amount of notes (any adjusted notes that do not bear an authorized denomination will be rounded down); (2) the maturity date of the notes has been extended from February 1, 2019, to August 1, 2020; (3) the interest rate has been adjusted such that the notes bear interest from and after the NewPage acquisition date at a rate of 10% per annum payable entirely in cash plus 3% per annum payable entirely by increasing the principal amount of the outstanding notes or by issuing additional notes; (4) the optional redemption provisions have been adjusted as provided in the indenture governing the notes; and (5) certain other terms and conditions of the notes have been modified as set forth in the indenture governing the notes. As a result of the principal adjustment, the
WHO’S DOIN’ ANYTHING?: (CONTINUED)

outstanding principal amount of the Adjustable Second Lien Notes was reduced by approximately $121.6 million from about $299.4 million before the NewPage closing date to approximately $177.7 million afterwards.

Adjustable Subordinated Notes

As a result of the consummation of the NewPage acquisition, and effective as of its closing date, the provisions of the Adjustable Subordinated Notes issued by Verso Paper Holdings LLC and Verso Paper Inc. were adjusted as follows: (1) the principal amount of the notes has been adjusted such that a holder of $1,000 principal amount of notes immediately prior to the acquisition now will hold $620 principal amount of notes (any adjusted notes that do not bear an authorized denomination will be rounded down); (2) the maturity date of the notes has been extended from August 1, 2016, to August 1, 2020; (3) the interest rate has been adjusted such that the notes bear interest from and after the NewPage acquisition date at a rate of 11% per annum payable entirely in cash plus 5% per annum payable entirely by increasing the principal amount of the outstanding notes or by issuing additional notes; (4) the optional redemption provisions have been adjusted as provided in the indenture governing the notes; and (5) certain other terms and conditions of the notes have been modified as set forth in the indenture governing the notes. As a result of the principal adjustment, the outstanding principal amount of the Adjustable Subordinated Notes was reduced by approximately $38.8 million from about $102.0 million before the NewPage closing date to approximately $63.2 million afterwards.

Conversion of Warrants

As a result of the consummation of the NewPage acquisition, and effective as of its closing date, a total of 14,701,832 warrants were mandatorily converted into a like number of shares of Verso common stock, without the payment of consideration. Verso originally issued the warrants on August 1, 2014, as part of the debt exchange offers in which the Adjustable Second Lien Notes and the Adjustable Subordinated Notes were issued.

Transaction Advisors


Investor Webcast

Verso will host a webcast for investors and analysts on Thursday, January 8, 2015, starting at 10 a.m., Eastern Standard Time. Analysts and investors may access the live conference call by dialing 719-325-2320 or, within the U.S. and Canada only, 888-208-1812, access code 6031982. To register, please dial in 10 minutes before the conference call begins. The conference call and presentation materials can be accessed through Verso's website at investor.versopaper.com by navigating to the Events page, or at http://investor.versopaper.com/eventdetail.cfm?EventID=154368. A telephonic replay of the conference call can be accessed by dialing 719-457-0820 or, within the U.S. and Canada only, 888-203-1112, access code 6031982. This replay will be available starting January 8, 2015, at 1 p.m., Eastern Standard Time, and will remain available for 14 days.

About Verso

Verso Corporation is a leading North American producer of printing papers, specialty papers and pulp. Our printing papers are designed primarily for commercial printing, media and marketing applications, including magazines, catalogs, books, direct mail, corporate collateral and retail inserts. Our specialty papers are used primarily for label and release liner, flexible packaging and technical paper applications. Headquartered in Memphis, Tennessee, Verso operates eight mills strategically located in Kentucky, Maine, Maryland, Michigan, Minnesota and Wisconsin. Additional information about Verso, including our recent acquisition of NewPage Holdings Inc., is available at www.versoco.com.
# 2015 ISA PUPID Calendar

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**Conferences**

- ISA SLM
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**Logistics**

- Seattle
- Greensboro, Raleigh, NC
- Mom's Day
- ISA SLM Summit
- ISA FLM Summit
- ISA SME Summit

**Other**

- Easter
- Labor Day
- Tax Day
- Election Day
PAPERWEEK CANADA 2015
BLEACHING TECHNICAL TRACK
PRESENTED
AT THE
THE ANNUAL CONFERENCE OF THE CANADIAN PULP AND PAPER
INDUSTRY
ON
WEDNESDAY, FEBRUARY 4
AT THE
FAIRMONT QUEEN ELIZABETH HOTEL
IN
MONTREAL, PQ, CANADA

"CONTROL OF THE EXTRACTION STAGE USING THE TRUE
TERMINAL PH"
PAPER POWERPOINT
RICHARD VAN FLEET, BTG

"BLEACH PLANT CONTROL OPTIMISATION USING INLINE
BRIGHTNESS AND RESIDUAL MEASUREMENTS ALONG WITH ON-
LINE KAPPA MEASUREMENTS"
JAMES GOLDMAN, METSO

"OPTIMIZING YOUR PROCESS THROUGH LIGNIN MANAGEMENT"
PAPER POWERPOINT
SANDRA BEDER-MILLER, BTG
The only thing more important to you than process control is **safe** process control.

Improve safety, security, and efficiency.

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**ISA Process Control & Safety Symposium 2015**

9-12 November 2015
Houston, Texas USA

**www.isa.org/pcs**

Houston Marriott Westchase
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Call for Papers

The International Society of Automation invites you to present your work at the 2015 Process Control & Safety Symposium. Papers will be considered for publication in ISA's technical journal, ISA Transactions. Submit your abstract via email to techconf@isa.org.

Program Highlights:
- Workshops, tutorials, exhibition, keynote speakers, paper presentations, and exhibits include input from ISA's Chemical & Petroleum Industries Division, Communications Division, Education Division, and Pulp and Paper Division.

Guidelines for Submission:
- Authors and speakers in attendance must pay registration fee
- 500-word (max) abstract in English shall be submitted by email or online
- Final presentations must be on the official ISA Symposium template
- Papers accepted for publication and presentation will require completion of the ISA's Rights and Responsibilities form

Important Deadline Dates:
- Abstracts..........21 January 2015
- Draft Papers.........25 March 2015
- Final Papers.........20 May 2015

The lead author is the main contact. Submit your abstract via email to: kbbehdinan@bkcpi.com and techconf@isa.org.

Suggested Topics:
- Instrumentation
- Variability, Instrument Calibration
- Automation and Control Systems
- Flow Measurement Technology
- Field Calibration Technology
- Communications
- Communications in SIL, ISA100
- Wireless Technology in the Plant Floor
- Field Instrumentation: Wireless, Foundation Fieldbus, and Other Smart Technologies
- Bridging Prices Between SCADA and DCS

Control Systems
- Process Optimization
- Fieldbus Control Systems with Focus on Higher SIL
- Control System Strategies, Advanced Control
- Instrumentation for Floating LNG Facilities
- Automation and Control in Petroleum and Petrochemical Terminals
- System Integrations
- Advanced HMI and Alarm Management
- Data and Document Storage in EDMS and Asset Management
- Troubleshooting, Optimization, and Application in Petroleum and Chemical Process Industries
- Safety Instrumented Systems
- Cybersecurity

Setting the Standard for Automation™
LETTERS TO THE EDITOR

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”
**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&template=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.hit.fi/English/

**Helsinki University of Technology**
http://www.hit.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 Listserv**
http://www.isa.org/shellcgi/lyris.pl?site=isa&page=topic&topic=standards+committees&text_mode=0&lang=english

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**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/, 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/, 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
WORLD CORNERS

CANADA CORNER

Nothing from anyone there this time!

CENTRAL & SOUTH AMERICAN 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!

EUROPEAN CORNER

Nothing from anyone there this time!
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