Well, as I write this the weekend before American Thanksgiving, and winter is just over four weeks away. Where has this year gone!

In the last quarter, PUPID has lost 48 (including 37 members that are in active grace status) members and is down from 271 to 223 members; but we have had 12 new members.

In this Fall “Logger” newsletter, I am pleased to include two presentations from the ABTCP 2017-50th Pulp & Paper International Congress & Exhibition this September 23 – 25 at the Transamerica Expo Center in Sao Paulo, Brasil “The fourth industrial revolution ABTCP 2017” by Ronaldo Neves Ribeiro of CENIBRA and “Industria 4.0 - Conceitos e Aplicação a Indústrias de Processo” by Luiz Egreja. You can see the presentations by clicking on the link on page.

I just returned from the 4th Annual 2017 Process Control & Safety Symposium held at the Westchase Marriott in Houston.

Please do not hesitate to contact me at Brad S. Carlberg, P.E., CSE or to discuss how you can help PUPID.

I hope to encourage you to become more involved with the Division and to enroll more members.

Do feel free to forward the Newsletter to your friends and colleagues who may have an interest in it.
Get a quick overview of the ISA PUPID events by going to the Calendar at:
https://www.isa.org/division/pupid/events/

2018 BLRBAC Meetings
Spring Meeting: April 9 – 11, 2018
Fall Meeting: October 22 – 24, 2018
www.blrbac.org

2018 ISA SPRING LEADERS MEETING
FRIDAY, May 5, 2018 THROUGH MONDAY, May 7, 2018
Marriott Raleigh Crabtree Valley, Raleigh, NC
Come meet your leaders & get involved!

China Paper 2018
25th International Exhibition & Conference
May 18 – 20, 2018
Guangzhou, China
http://www.chinaexhibition.com/

Pulp and Paper Industry Committee (PPIC)
Industry Applications Society (IAS)
June xx – xx, 2018
Radisson Paper Valley Hotel
Appleton, WI
http://sites.ieee.org/ias-pulpandpapercommittee/future-conferences/

2018 ISA FALL LEADERS MEETING
FRIDAY, October 12, 2018 THROUGH TUESDAY, October 16, 2018
MONTREAL, PQ CANADA
Come meet your leaders & get involved!

ABTCP 2018-51st Pulp & Paper International Congress & Exhibition
10/23/2018 to 10/25/2018
Transamérica Expo Center, São Paulo, Brasil

2018 ISA PROCESS CONTROL & SAFETY SYMPOSIUM
MONDAY, NOVEMBER 5, 2018 THROUGH THURSDAY, NOVEMBER 8, 2018
HOUSTON WESTCHASE MARRIOTT
HOUSTON, TX
WELCOME TO THE 12 NEW ISA PULP & PAPER INDUSTRY DIVISION MEMBERS

Salvador Ernesto Múñoz Ruano  Simon St. Jean  Caleb Liao
Aslam Sherule  Jaden Piper  Jim Wertman
Abinaya T  Conner Thurman  Gabriel Alexandru
Michael Plati  J C Browning  Daniel Egan

HERE’S A REMINDER TO THE 37 ISA PULP & PAPER INDUSTRY DIVISION MEMBERS WHO NEED TO RENEW THEIR MEMBERSHIP

Thomas C. Parkman, PE  Dennis Gwin  Shashank Navaratna
Herman J A Jansen  Cristovao Freire  Tiago Blank Padua
Patrick J. Dixon  John Gill  Rameshkumar Gopalsamy
Jim I. Strausz  Todd Carrere Thompson  Vimala A
Thomas P. Barnett  Andrew Peter McKeown  Guruprasath P
Robert L. Inglin  Rajendra Kumar Mehta  Salunke Abhilasha
Ian James Burgess  Barry Cassie  Ken Hardt
Hasan M. Tajer  Juan Luis Marroquín Bermúdez  Eva Anttila
John Miller  César Mauricio Aguilar Magaña  Derrick M Demmans
Trevor G. Kohout  Gilles April, ISA84 SFS  Mitch A Alger
Dennis B. Barrow  Mark George  Tim Ebarb
Guy A. Nuechterlein  Ken Jackson  Manamohana Hg
Michael Ballard

DON’T FORGET TO RENEW!
**WHO’S DOIN’ ANYTHING?**

Thousands of professionals gather at the 2017 Chem Show to see what’s next for processing technology

November 09, 2017 - 19:54

WESTPORT, CT, Nov. 9, 2017 (Press Release) - The 2017 Chem Show welcomed more than 5,100 registered industry professionals to the leading event for processing technology at the Javits Center in New York City last week. Plant managers, executives, engineers, equipment manufacturers and other industry personnel across a broad range of chemical process industries (CPI) gathered for the three-day event to put the future of processing technology on display, and learn and share new ways to optimize their plant operations.

“The theme of the Show this year focused heavily on the evolution of the CPI. The world is quickly becoming more connected -- we’re seeing how this is changing the way the industry operates, and how things like the Industrial Internet of Things (IIoT) and innovative new technologies are emerging to improve productivity, increase efficiency, cut costs, reduce waste and help companies be more sustainable,” said Clay Stevens, manager of the Chem Show.

“Between the equipment on display, seminars, rapid-fire technology sessions and discussions with exhibiting technical experts, every Chem Show visitor should leave with at least one new way to save money, save energy, save time, and improve their process business,” Stevens added.

**The Future of Chemical Processing**

During the three days the Show was held, exhibitors led 39 free Best Practices and Technology Seminars to provide answers to the practical challenges that chemical engineers and plant managers face every day, linking new technologies and solutions to products and services on the Show floor.

One session, hosted by Rockwell Automation’s Brian Zakrajsek, area manager of process solutions, showed just how the IIoT, open networks, big data and analytics are going to transform the industry into a connected enterprise. Zakrajsek said enabling smart assets and connected devices brings data from the facility floor to business systems through an open network, creating a more complete picture of the equipment and operations. He emphasized that gathering information is just the first step, pointing to big data and analytics. Through analysis, facilities can achieve many benefits, such as increased asset utilization, sustainability and environmental friendliness, improved operational flexibility, safety and security, and easier compliance with regulatory requirements.

Seminars dove into a variety of trends and innovations, covering topics including using interactive operations software to improve communication and information sharing plant-wide; reducing maintenance costs, optimizing workflow processes, and improving overall efficiency with predictive modeling software; and implementing new technologies to improve plant safety, to name a few.

In addition to the well-attended seminar sessions where attendees were given a glimpse into what’s coming next for processing technology, attendees took advantage of the opportunity to meet face-to-face with the 279 exhibiting companies from around the world and talk to product experts who designed and/or built much of the equipment on display, ask questions and find ways to customize products to meet their needs. Attendees were also able to see live demos and experience products first-hand for a better understanding of the technologies and solutions available.

**Recognizing Innovation**

For the second time, editorial staff from the Show’s long-standing exhibitor, Chemical Engineering Magazine, presented the 44th Kirkpatrick Chemical Engineering Achievement Award at the Chem Show on Wednesday, November 1st. The award honors the most-noteworthy chemical engineering technology that has been commercialized anywhere in the world during the two previous years. All of the award finalists had innovations that aimed to improve the future of chemical processing.

On Wednesday, November 1st, the winner was announced at the Chem Show. CB&I and Albemarle won first place for their solid catalyst alkylation process. The AlkyClean technology eliminates the use of liquid acids for the production of motor fuel alkylate, and thus eliminates the hazards and operating issues associated with handling liquid acids. The common thread linking all of the finalists was their shared passion for, and innovations in, new chemical processes that can improve operational efficiency, reduce energy and chemical costs, minimize waste and emissions, and enhance sustainability.

**A Successful 2017 Chem Show**

Both long-standing exhibitors and those experiencing the Chem Show for the first time echoed similar sentiments regarding its position as an important and valuable event for CPI professionals.

A representative from Julabo, an exhibitor since 2008, emphasized the unique opportunities at the Show, stating “we meet companies [at the Chem Show] that we couldn’t meet anywhere else. We’ve gotten a lot of high-quality leads, and we’re going to be really busy following up after the Show.”

First-time exhibitor Peter Blokhuis, owner of Gizmo Engineering, said their cost to exhibit at the Chem Show was already paid for after just the first hour due to strong sales leads. “Our products cut across many industries, and to exhibit in all of them would be expensive. Chem Show has the right audience for our products. We’re getting high-quality leads and communicating directly with those making or influencing purchasing decisions,” Blokhuis said.

Exhibitors and attendees can look forward to the 2019 Show, which will take place on November 19-21 at the Javits Center in New York City. For more information, visit www.chemshow.com.

About Chem Show
WHO’S DOIN’ ANYTHING? (CONTINUED)

The Chem Show is the chemical process industries’ main event for processing technology. Held biennially, the Show brings together over 300 exhibitors and more than 5,100 attendees from all segments of the CPI as they seek ways to optimize their process operations. The Show offers a unique forum where leading manufacturers and suppliers can demonstrate their latest equipment, systems and products, and where engineers and plant managers can explore hundreds of new products and solutions. The next Chem Show will be held Nov. 19-21, 2019 at the Javits Center, New York.

Voith starts up new XcelLine VTM 3 tissue machine at Little Rapids' production facility in Shawano, WI

November 09, 2017 - 04:22
HEIDENHEIM, Germany, Nov. 9, 2017 (Press Release) -Voith Paper concluded, in October, the start-up of the new XcelLine VTM 3 tissue machine it has supplied to US tissue and specialty paper manufacturer Little Rapids Corporation. The new machine has replaced the company’s old PM 3 at its Shawano production facility in Wisconsin.

The new VTM 3 went online six days ahead of the contract schedule, thereby achieving a total plant downtime of just 30 days from paper to paper, that is, between dismantling the previous equipment and erecting and starting-up the new machine. Besides this outstanding achievement, the second jumbo roll of tissue paper already provided marketable quality, and the machine reached its maximum operating speed during its first week in service.

All of the new VTM 3’s technologies and components are seamlessly coordinated and integrated with each other. Besides the new XcelLine tissue paper machine and its auxiliary equipment – not counting the Yankee cylinder, which has been reused from the old machine – Voith’s scope of supply also included stock preparation and approach flow systems, a steam box, a gas hood, and a mist removal and dust reduction system. The order was rounded off by Voith's automation package, comprised of the DCS and MCS systems, as well as field services.

This project’s key benefits include an improvement in paper quality and increased production capacity, since the new machine will now be producing at a speed of more than 1,800 meters per minute.

All of these measures are not only indicative of the project’s enormous success, but also the outstanding synergy between the Voith, Little Rapids Corporation, and Contract Companies teams. “We are extremely proud of the teamwork demonstrated by all parties involved to safely execute the rebuild within a very compressed timeframe. We are also encouraged by the performance that we are seeing at this early stage of the machine’s start-up ramp and optimistic that this investment will provide additional capabilities and quality enhancements that our customers value,” said Ron Thiry, Vice President and General Manager at Little Rapids Corporation.

About Little Rapids Corporation

Little Rapids Corporation was founded by Charles Egan in 1947 and remains a family-owned business. The company’s core product lines serve the medical and beauty market segments, flexographic printing for a variety of packaging markets, and tissue, MG paper, and wet crepe paper for the specialty paper market. With headquarters and manufacturing facilities in Green Bay, the company, which employs 450, also has a paper manufacturing facility in Shawano, Wisconsin. In addition, the company donates to the region via the Little Rapids Corporation - Egan Family Foundation, a private foundation established by the Egan family in 1986 with the mission to fund charities in communities where Little Rapids Corporation has facilities.

About Voith Paper

Voith Paper is a Group Division of Voith and the leading partner and pioneer in the paper industry. Through constant innovations, Voith Paper is optimizing the paper manufacturing process, focusing on developing resource-conserving products to reduce the use of energy, water and fibers. Furthermore, Voith Paper offers a broad service portfolio for all sections of the paper manufacturing process.

About Voith

For 150 years, Voith’s technologies have been inspiring customers, business partners and employees worldwide. Founded in 1867, Voith today has around 19,000 employees, sales of €4.3 billion and locations in more than 60 countries worldwide and is thus one of the largest family-owned companies in Europe. Being a technology leader, Voith sets standards in the markets of energy, oil & gas, paper, raw materials and transport & automotive.

Sappi North America invests $5.94 million to replace headbox on PM 12 at its mill in Cloquet, MN

November 14, 2017 - 09:44
CLOQUET, MN, Nov. 14, 2017 (PRNewswire) -Sappi North America, a leading producer and supplier of diversified paper and packaging products, today announced a $5.94 million capital investment in its Cloquet, Minn. mill to replace the headbox on Paper Machine 12 (PM12). This investment enabled Sappi to maintain its capacity by adding a state-of-the-art, dilution profiled headbox that produces excellent basis weight profiles. A headbox is an integral part of the paper machine responsible for spreading the pulp fibers evenly to form the sheet.
WHO’S DOIN’ ANYTHING? (CONTINUED)

“This investment shows Sappi’s unwavering commitment to its graphic papers and packaging customers,” said Mark Gardner, President and CEO, Sappi North America. “The new headbox will ensure that we’re fulfilling orders to the highest quality standards that Sappi’s customers have come to expect. This project will not only improve upon our longstanding history with the graphic papers market, but also support our growing paper-based packaging business.”

This investment follows a $170 million capital investment in 2011 to enable the Cloquet Mill's Kraft pulp operations to also produce chemical cellulose used in textile and consumer goods markets. Through this product diversification, along with investments in renewable energy and waste reduction, the mill has stayed profitable and competitive in a challenging market. The Cloquet Mill was recently awarded for its investment in the state of Minnesota from the Minnesota Office of Foreign Direct Investment. The award highlighted the company's contributions to the economic vitality of local communities, and its commitment to keeping Minnesota a world-leading business destination.

The PM12 Headbox project was recently completed in October.

About Sappi North America

Sappi North America, headquartered in Boston, is a market leader in converting wood fiber into superior products that customers demand worldwide. The success of our four diversified businesses – high quality Coated Printing Papers, Specialised Cellulose, Release Papers and Specialty Packaging – is driven by strong customer relationships, best-in-class people and advantaged assets, products and services. Our high quality Coated Printing Papers, including McCoy, Opus, Somerset and Flo, are the key platform for premium magazines, catalogs, books and high-end print advertising. We are a leading manufacturer of Specialised Cellulose used in a wide range of products, including textile fibers and household goods, and one of the world's leading suppliers of Release Papers with our Ultracast, PolyEX, Classics and Neoterix lines for the automotive, fashion and engineered films industries. Our Specialty Packaging products, such as LusterPrint and LusterCote, represent an important asset in the food packaging and labeling industries. Customers rely on Sappi for high technical, operational and market expertise; products and services delivered with consistently high quality and reliability; and, state-of-the-art and cost-competitive assets and innovative spirit.

Sappi North America is a subsidiary of Sappi Limited (JSE), a global company headquartered in Johannesburg, South Africa, with more than 12,000 employees and manufacturing operations on three continents in seven countries and customers in over 150 countries around the world.

Toscotec successfully completes dryer section rebuild for Smurfit Kappa's PM 1 in Barbosa, Colombia

November 16, 2017 - 02:53

LUCCA, ITALY, Nov. 16, 2017 (Press Release) - In 2016 Smurfit Kappa awarded Toscotec with the rebuilding of the Company’s Barbosa paper machine’s dryer section. The target operating speed of the machine after startup was set at 1,000 mpm. Following an extensive project that lasted 25 months, with 36 days of setup from paper to paper, the PM was successfully commissioned and started up in July 2017.

The main target of the project was to improve the efficiency of the PM, by increasing its operating speed and production. The alliance between Toscotec and Smurfit Kappa has lead the packaging company to increase containerboard production to 120,000 tonnes per year which means an increase in the corrugating machines production.

Enrico Fazio, Toscotec’s Paper & Board Sales Manager stated, “Toscotec’s long-standing experience in dryer section rebuilds, using TT SteelDryer, our unique dryers with an extremely high drying capacity, and the advanced rope-less tail threading system, was the deciding factor in the customer’s choice. We are very proud of our partnership with Smurfit Kappa and we would like to thank the SK team in Barbosa for their great cooperation during the entire project”.

According to Carlos Mario Londoño, the project manager, “This was a very complex project to carry out. Thanks to the collaboration of suppliers such as Toscotec, we achieved the our goal within the time we had established”.

UPM signs investment agreement with Government of Uruguay for potential pulp mill investment

November 08, 2017 - 01:43

HELSINKI, Finland and MONTEVIDEO, Uruguay, Nov. 8, 2017 (Press Release) - UPM and the Government of Uruguay have signed an investment agreement, which outlines the local prerequisites for a potential pulp mill investment. The agreement details the roles, commitments and time-line for both parties as well as the relevant items to be agreed prior to the final investment decision.

The agreement defines the requirements for the operating environment of a world-class pulp mill project. The site of the mill would be close to the city of Paso de los Toros, in the department of Durazno in central Uruguay.

A long-term industrial operation requires stable and predictable operational environment. This will be supported by several measures in the areas of regional development, environment, forestry and land planning as well as labour and energy conditions. Infrastructure development as key enabler.
WHO’S DOIN’ ANYTHING? (CONTINUED)

The Government will develop the rail and road network by tendering the construction and long-term maintenance of the network. The total investment by the Government has been reported to be approximately USD 1 billion. This investment is necessary to enable the establishment of efficient logistic infrastructure in the Uruguayan inland. The Government will also promote concession for a terminal specializing in pulp in the Montevideo port with rail access in order to secure reliable and competitive outlet to export markets.

Once the permitting requirements are fulfilled, the Government will grant the mill a free trade zone status, which is necessary to ensure competitiveness on international markets.

UPM will carry out an engineering study and permitting process for a pulp mill with an annual capacity of about 2 million tonnes of eucalyptus market pulp. The preliminary estimate for a pulp mill investment on site is approximately EUR 2 billion.

In addition, a successful project requires off-site investments in plantation land and forestry, road network and nursery capacity, harvesting and transport equipment, rolling stock for the rail, export facilities and human development.

"Robust infrastructure is elemental for industrial development. The Government of Uruguay is stating their serious intent with this agreement and timeline. The agreement sets the foundation for UPM's planning of a state-of-the-art pulp mill investment," says Jaakko Sarantola, UPM's Senior Vice President, Uruguay Development.

Global demand for sustainable pulp continues its strong growth

"A competitive world-class pulp mill must have a solid wood supply, well-working logistic infrastructure and efficient mill operations. The environmental performance of the mill would be secured with competent and engaged personnel and with best available technology. When in operation, the mill, forestry and related activities would employ 8,000 additional people in its full value chain. The operations would also have a significant positive impact on the central and north-eastern regions."

"The signing of this agreement confirms that we are now entering the second preparation phase of this prospect, which is expected to take some 1.5 to 2 years. Achieving significant progress in the implementation of the infrastructure initiatives is critically important for the final investment decision," says Sarantola.

"The world megatrends support a strong growth of the market pulp demand. UPM's customers value the stable quality of the Uruguayan eucalyptus pulp and hence Uruguay could be a competitive alternative for addressing UPM's pulp market opportunities in the 2020s. The possible new capacity in Uruguay would support UPM's multifibre strategy; to serve customers in growing hygiene, packaging and specialty end-use segments," concludes Sarantola.

UPM in Uruguay

UPM's operations in Uruguay include the Fray Bentos pulp mill, the UPM Forestal Oriental forestry and wood sourcing company with its two nurseries, as well as the UPM Foundation.

UPM Forestal Oriental manages about 250,000 hectares of plantable land including own and Fomento partner producers' land. All of UPM's forest plantations are certified.

The Fray Bentos pulp mill started operations in 2007 and remains one of the world's most modern and efficient pulp mills. Its annual production capacity is 1.3 million tonnes of eucalyptus pulp. Besides pulp, the Fray Bentos mill is a significant biomass-based energy producer, accounting 8% of Uruguay's total energy production. The mill's wood raw material comes from sustainably managed local plantations.

Founded in 2006, the UPM Foundation works in coordination with local stakeholders to promote the development of rural communities through education, training and entrepreneurship, fostering a culture of safety and healthy living.

UPM employs directly and indirectly altogether 7,000 people in Uruguay and its contribution to Uruguay's GDP is 1.4%.

www.upm.uy

UPM

Through the renewing of the bio and forest industries, UPM is building a sustainable future across six business areas: UPM Biorefining, UPM Energy, UPM Raflatac, UPM Specialty Papers, UPM Paper ENA and UPM Plywood. Our products are made of renewable raw materials and are recyclable. We serve our customers worldwide. The group employs around 19,300 people and its annual sales are approximately EUR 10 billion. UPM shares are listed on NASDAQ OMX Helsinki.

US court dismisses Resolute's racketeering case against Greenpeace

October 17, 2017 - 13:12

SAN FRANCISCO, Oct. 16, 2017 (Press Release) -

Today, the United States District Court for the Northern District of California dismissed all claims in the controversial case that major logging company Resolute Forest Products [2] filed against Greenpeace Inc., Greenpeace Fund, and Greenpeace International, Stand.earth and individual defendants, including claims under the Racketeer Influenced and Corrupt Organizations (RICO) act.
**WHO’S DOIN’ ANYTHING? (CONTINUED)**

The court’s decision sends a clear message to corporations that attacks on core democratic values like freedom of speech and legitimate advocacy on issues of public interest will not be tolerated. District Judge Jon S. Tigar wrote in his order dismissing the case that “the defendants’ speech constituted the expression of opinion, or different viewpoints that [are] a vital part of our democracy.” Noting that “Greenpeace’s publications at issue rely on scientific research or fact”, the judge added that “[t]he academy, and not the courthouse, is the appropriate place to resolve scientific disagreements of this kind.”

Resolute will be allowed to amend its filing as a formality, but Greenpeace is confident that any such attempt will meet a similar fate.

**Greenpeace USA General Counsel Tom Wetterer said in response to the decision:**

“We are pleased the court unequivocally threw out this attempt to abuse our legal system and silence legitimate criticism on matters of public concern. This is very positive news for all of us, for the values that we share, and for Canada’s boreal forest. Resolute’s claim that organizations and activists committed to the conservation of the forests were part of a criminal enterprise is absurd and a sad symptom of a wider assault on constitutional rights and democracy. The logging company’s allegations were a clear attempt to silence the voices that advocate for the environment. Recently, Energy Transfer Partners – the oil company behind the Dakota Access Pipeline -- decided to follow a strikingly similar path [3] under the legal wing of none other than Trump’s go-to law firm. The similarities are apparent and this underhanded playbook targeting free speech should be a cause of real concern. We’re grateful that the court has shown today it is a losing playbook, but that doesn’t mean corporate bullies like ETP won’t stop trying to use it.

“Energy Transfer’s case repackages many of the spurious allegations and legal claims made against Greenpeace by the Kasowitz firm on behalf of Resolute. The decision on the Resolute suit should be a clear indication that Energy Transfer’s case has no future. Both are classic SLAPPs, or strategic lawsuits against public participation. These cases don’t seek justice. They intend to silence free speech through expensive, time-consuming litigation. This pattern of harassment by corporate bullies led by Trump’s go-to attorneys must be stopped in its tracks.”

**Greenpeace USA Senior Forest Campaigner Daniel Brindis added:**

“The judge’s decision to dismiss the case affirms that Resolute’s divisive and bullying tactics are a waste of time and resources. It is time for Resolute to finally work with environmental organizations including Greenpeace to address their destructive forestry operations and forge a collaborative and sustainable path forward. Instead of spending more valuable resources to amend this lawsuit, Greenpeace hopes Resolute will finally be ready to work together to find solutions. Thousands in Canada and around the world have called for the protection of the forest, it’s time for Resolute to listen to them too. The world needs a healthy boreal forest and together we can develop long term sustainable solutions that respect the rights of Indigenous Peoples, protect local communities and ensure the survival of species at risk like the Woodland Caribou.”

[1] Clickhereto download a copy of the order.

[2] On May 31, 2016 Resolute Forest Products filed a CAD$300 million lawsuit under the Racketeer Influenced and Corrupt Organizations Act (RICO) in the United States District Court for Southern Georgia, against Greenpeace International, Greenpeace, Inc., Greenpeace Fund, Inc., STAND.earth (formerly ForestEthics), and five individual staff members of these independent organizations. The case was transferred to Northern California on May 16, 2017 when Resolute failed to demonstrate that the case should be heard in Georgia. This is Resolute’s second lawsuit against Greenpeace. In 2013, the company filed a CAD$7 million defamation case against Greenpeace Canada and two staff members in Ontario, which is still pending. Clickherefor more information about the existing legal cases between Resolute Forest Products and defendants, or copy this to your browser: http://www.greenpeace.org/resolutelawsuits/


**Essity and United Nations Foundation convene fifth annual dialogue on UN sustainable development goals**

October 18, 2017 - 11:50

STOCKHOLM, Oct. 18, 2017 (Press Release) - Today at the United Nations headquarters in New York, Essity, a leading global hygiene and health company, convened the fifth annual UN Foundation Dialogue on the Global Agenda. The Dialogue brought together businesses, government representatives and NGOs who discussed ways to collaborate to achieve the UN Sustainable Development Goals. This is the second year Essity has convened the Dialogue, sharing its knowledge and insights on improving well-being worldwide through hygiene and health solutions. The Global Dialogue provides a platform for multi-sector engagement, discussing ways the public and private sectors can work together to advocate and deliver on the Sustainable Development Goals, launched by the UN in 2015.
WHO’S DOIN’ ANYTHING? (CONTINUED)

In his opening remarks, Magnus Groth, President and CEO of Essity, addressed the importance of mobilizing public-private partnerships in implementing the Agenda for Sustainable Development Goals.

“As one of the world’s largest hygiene and health companies, we consider the Sustainable Development Goals as more than the right thing to do, but also as business opportunities. Today’s UN Foundation Dialogue provides a valuable forum to bring together leaders in the field to share experiences and identify how we can collaborate to achieve the Goals,” said Magnus Groth. “By aligning our efforts with the six Goals directly related to our business, we will work to uncover innovative and collaborative solutions that create value for people, nature and society as well as for the company. This is critical to solving the global challenges outlined in the Sustainable Development Goals.”

The Global Dialogue discussions in the UN were held in four breakout sessions, where Magnus Groth led the session focusing on Goal 6: Clean Water and Sanitation.

“Poor hygiene and sanitation are barriers to the health, well-being, livelihood and development of millions of people. For decades, our knowledge, expertise and dedication have helped raise hygiene and health standards across the world,” noted Groth. “Last year Essity educated two million people in programs around menstruation and puberty, handwashing, continence care and parental education. We are committed to raising awareness and breaking taboos.”

Essity is a leading global hygiene and health company that develops, produces and sells Personal Care (Baby Care, Feminine Care, Incontinence Products and Medical Solutions), Consumer Tissue and Professional Hygiene products and solutions. Our vision is; Dedicated to improving well-being through leading hygiene and health solutions. Sales are conducted in approximately 150 countries under many strong brands, including the leading global brands TENA and Tork, and other brands, such as Leukoplast, Libero, Libresse, Lotus, Nosotras, Saba, Tempo, Vinda and Zewa. Essity has about 48,000 employees and net sales in 2016 amounted to approximately SEK 101bn (EUR 10.7bn). The business operations are based on a sustainable business model with focus on value creation for people and nature. The company has its headquarters in Stockholm, Sweden, and is listed on Nasdaq Stockholm.

Sweden’s Processum led "Flagship Biorefinery" project shows positive result from study on proposed biorefinery

October 20, 2017 - 04:01

ORNSKOLDSVIK, Sweden, Oct. 19, 2017 (Press Release) -The project "Flagship Biorefinery" has been carried out in order to investigate the prerequisites to realise a new, full scale biorefinery based on sustainable wood raw material from Swedish forests. Processum has been in charge of the project which has been supported by 13 companies representing a complete value chain from forest owners, forest industry to chemical industry as well as other stakeholders.

The consultants Pöyry have performed the assignment to carry out a feasibility study which has been presented to the project steering group. The steering group has found the results of the feasibility study very interesting. The results show e.g. that an investment in the proposed biorefinery can be profitable and provide positive contributions to a future bioeconomy.

"The report shows that the prerequisite for the project is good, which of course is very attractive even if many important issues must be resolved before the project can be realised. We sincerely believe that Flagship Biorefinery will be an important part of the future bioeconomy that so many are talking about," says Lars Winter, Vice Chairman Processum and MD Domsjö Fabriker.

“We experience a strong trend and political commitment for the transition from a fossil economy to a bioeconomy,” says Jonas Joelsson, Research Manager Processum and project leader for Flagship Biorefinery. "The concept we have studied could become a part of this transition, and is well aligned with the priorities of the Swedish Government".

"The results presented by Pöyry suggest good prerequisites for a plant of this type," Jonas Joelsson continues. "However, one needs to be aware that the realisation of such a plant is a long process. The feasibility study was the first step, giving the basis for a decision to invest. It will be very interesting to follow the further development of this project in the future."

The next step is to appoint a project organisation with the special task to investigate how to safeguard sufficient supply of feedstock and how to finance the investment. It is estimated that this investigation will take up to three years and will be the basis for a decision whether to invest or not. A possible decision to go ahead with the project means that the start-up of this large scale biorefinery will take place 2023 at the earliest, provided that decision on location is taken and that environmental permits are granted.

Valmet introduces three new Optical Consistency Transmitter models for measurement of eucalyptus pulp, recycled fiber and chemical pulps

October 23, 2017 - 04:35

ESPOO, Finland, Oct. 23, 2017 (Press Release) -Valmet Optical Consistency Transmitter (Valmet OC) has gained a deserved reputation for accuracy, reliability and ease of installation since its introduction four years ago. Now Valmet introduces three new models for applications that have been particularly challenging for inline optical consistency transmitters in the past. This includes measurement of eucalyptus pulp, recycled fiber and chemical pulps.
WHO’S DOIN’ ANYTHING? (CONTINUED)

“Valmet's continuous development expands reliable consistency measurement applications. Sharing the same basic components and modules, each new transmitter has a probe and total consistency measurement method optimized for use in special process environment i.e. recycled fiber,” says Heikki Föhr, Product Manager, Valmet.

Valmet Optical Consistency Transmitter (Valmet OC)

**Eucalyptus pulp applications**

Eucalyptus pulp has different optical properties compared to other pulps; which has led to the design of the special optical sensor and measurement method of the Valmet OCE. Results with the new transmitter in several commercial installations have already been successful in applications where competing inline optical transmitters have failed. A typical application is the control of LC-refiner feed consistency, where improved refiner freeness results and reduced specific energy consumption have been reported.

OCC and RCF processes

OCC and RCF processes are a challenge for any measuring device, where sand, metal and other contaminants as well as non-organic fillers are present. The Valmet OCR features a robust probe to survive the harsh physical environment and a measurement that tolerates the ash variations that prevent the use of other inline optical consistency transmitters. Installations in OCC processes before coarse screening have proved the probe's robustness and the total consistency measurement accuracy is excellent throughout the stock preparation area even with wide ash variations.

The Valmet OCR features a robust probe to survive the harsh physical environment and a measurement that tolerates the ash variations.

**Chemical pulping applications**

The Valmet OCS now features a sapphire window to withstand chemicals used in chemical pulping. All three new transmitters have passive measuring probes, connected via fiber optic cable to the measuring unit, that are temperature and vibration resistant as well as self-cleaning even in the demanding environment of recycled fiber processing. Offering simple and low cost installation, the 12 mm diameter probe with ball valve also makes insertion and removal possible without special tools or process stop required.

**VALMET**

Valmet is the leading global developer and supplier of process technologies, automation and services for the pulp, paper and energy industries. We aim to become the global champion in serving our customers.

Valmet's strong technology offering includes pulp mills, tissue, board and paper production lines, as well as power plants for bioenergy production. Our advanced services and automation solutions improve the reliability and performance of our customers' processes and enhance the effective utilization of raw materials and energy.

Valmet's net sales in 2016 were approximately EUR 2.9 billion. Our 12,000 professionals around the world work close to our customers and are committed to moving our customers' performance forward - every day. Valmet's head office is in Espoo, Finland and its shares are listed on the Nasdaq Helsinki.

**Nippon Paper establishes new corrugated board laboratory in research laboratory of its R&D division**

October 13, 2017 - 04:54

TOKYO, Oct. 2, 2017 (Press Release) -Nippon Paper Industries Co., Ltd. (President: Fumio Manoshiro; hereinafter "the Company") created the Corrugated Board Laboratory in the Research Laboratory of the Research & Development Division on October 1.

In recent years, demand for corrugated board has increased in Japan and other countries. With the use of the latest and most eco-friendly manufacturing technologies, the Company has offered linerboard and corrugated media that excel in safety, sticking properties and workability in an effort to satisfy the diversifying needs of manufacturers of corrugated board sheets and boxes and end users of corrugated board. The company came to the conclusion that it must strive to continuously improve the function of linerboard and corrugated medium by reflecting these needs, in order to expand its business of linerboard and corrugated medium in step with the rise in demand for corrugated board.

To this end, the company set up the Corrugated Board Laboratory in the Research Laboratory (Kita-ku, Tokyo) of the Research & Development Division on October 1. The Laboratory will develop high-performance base paper applying our element technologies, while undertaking technical development of foreign substance analyses and box-making aptitude tests.

**JGU Mainz researchers to participate in joint project to develop new electrolytes for redox flow batteries based on lignin**

October 16, 2017 - 04:35

MAINZ, Germany, Oct. 11, 2017 (Press Release) -With the increasing use of renewable energies, stabilizing electricity networks is becoming an ever greater challenge. Redox flow batteries could represent a major contribution to solving this problem. Researchers at Johannes Gutenberg University Mainz (JGU) are participating in a joint project that aims to develop new electrolytes for redox flow batteries based on lignin, which is a waste product of the wood pulp manufacturing process. The Mainz-based team of chemists and their partners in industry and the academic world are thus working towards identifying renewable raw materials that will allow a more efficient generation of sustainable energies. To date, the metal vanadium has been mainly used in flow batteries but its availability is limited and it is also expensive. For Professor Siegfried Waldvogel’s team at the JGU Institute of Organic Chemistry,
WHO’S DOIN’ ANYTHING? (CONTINUED)

this project provides them with access to a new research field in which they can bring to bear their many years of expertise in the sector of electrochemistry.

The aim of the researchers is to produce suitable redox pairs that can be used in redox flow batteries from lignin, the substance that provides for stability in wood and plants in general. These redox pairs are charged in the electrolyte of flow batteries and are then stored in separate tanks. When required, they are subsequently recombined in a galvanic cell to generate energy. “By subjecting the waste sludge from paper and pulp production to electrochemical decomposition we can obtain quinones, which we can then further process so they are suitable for use in organic batteries,” explained Waldvogel. The project is being funded by the German Federal Ministry of Food and Agriculture to January 2019.

Electrosynthesis makes green chemistry more viable

“We are placing increasing emphasis on electrosynthesis here in Mainz,” added Waldvogel, who has been working on firmly establishing this field of research at Johannes Gutenberg University Mainz since 2010. Over the last three years, his team has attracted some EUR 4 million of funding for new projects in this field. In simplified terms, electrosynthesis involves the use of electrical current as a kind of reagent, whereby the corresponding electrons are employed for the oxidation or reduction of organic substances. This process is cheaper and more environmentally friendly than the usage of conventional reagents assuming the electricity is generated from renewable resources. “The electrification of chemical synthesis is currently a really hot topic and the expectation is that this will revolutionize industrial production worldwide in future,” Waldvogel continued.

So far, only a few electrosynthesis-based techniques for synthesizing molecules on an industrial scale have proved practicable. One of the recent achievements of Professor Siegfried Waldvogel’s team is the development of a method that makes it possible to synthesize the flavoring agent vanillin from waste wood. In addition, this technique also enables the researchers to generate more rapidly certain adjuvant substances that can be used for chemical reactions. One particular success is a technique developed in collaboration with Novartis for the modification of a pharmaceutical component: after conventional methods proved ineffective, the researchers in Mainz were able to generate the product merely by means of electrochemical transformation.

For Waldvogel, the potential of electrosynthesis goes beyond simply the production of flavoring agents, fragrances, and active agents; he considers it can also be used to manufacture special products for the agrochemical industry as well as molecules that will be of interest to materials science. Thanks to the technique, it is often possible to abridge many of the phases of conventional synthesis processes. In addition, the method reduces dependence on scarce raw materials that are usually required to produce the necessary chemical reagents. The prototypes of the flow electrolyzers employed in the team’s laboratory for electrochemical reactions were designed and constructed in JGU’s own workshop.

Italy’s Demont successfully starts up PM 5 at Al Nakheel Paper Mill in Abu Dhabi, UAE

October 03, 2017 - 06:01

MILLESIMO, Italy, Sept. 28, 2017 (Press Release) -Today we have officially started up PM5 machine installed by Demont at the Al Nakheel Paper Mill in Abu Dhabi.

Today, it was produced the first paper!

Indonesia ministry studies Asia Pulp & Paper Sinar Mas’ waste management system at West Java mill

October 02, 2017 - 19:31

JAKARTA, Oct. 2, 2017 (Jakarta Post) -Representatives from the Environment and Forestry Ministry as well as delegates from the Water Environmental Partnership in Asia (WEPA) have studied the waste management system installed by Asia Pulp & Paper (APP) Sinar Mas’s manufacturing center at the PT Pindo Deli II factory in Karawang regency, West Java.

The inspection, conducted on Sept. 28, was part of the 13th Annual Meeting of the Water Environment Partnership in Asia. This year, the forum was conducted from Sept. 26 to 28 in Jakarta.

The ministry representatives as well as the delegates chose to visit this particular factory because of its outstanding waste management system; the factory has proven able to meet the capacity requirements for industrial wastewater management.

Jakarta Post - Ministry studies APP Sinar Mas’ waste management system

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Valmet to supply new brown stock quality analyzer for CMPC Celulosa's BEKP fiber line 1 in Santa Fe, Chile

October 05, 2017 - 01:09

ESPOO, Finland, Oct. 5, 2017 (Press Release) -Valmet will supply a Valmet Brown Stock Quality Analyzer (Valmet Kappa Q1) for CMPC Celulosa in Santa Fe, Chile for its fiber line 1 producing ECF (Elemental Chlorine Free) bleached eucalyptus pulp. To be installed in the blow line of the continuous digester, the Valmet Kappa Q1 will provide rapid and frequent Kappa number information for better digester and subsequent O2 stage control. Two larger multiline Valmet Kappa Analyzers have been successfully operating on the mill's larger fiber line 2 since startup in 2006.
WHO’S DOIN’ ANYTHING? (CONTINUED)

“Safety was an important factor in our decision and the design of Valmet Kappa Q1 avoids unnecessary exposure to risk when maintenance is required. We have always had good experiences of Valmet products, fast and good support, with both existing Valmet Kappa Analyzers consistently providing better uptime compared with other devices in the mill,” says Patricio Montanares, Mill Technician, CMPC Celulosa.

About the Valmet Kappa Q1

The new Valmet Kappa Q1 has been developed as a stage specific analyzer to provide increased measurement frequency of Kappa number in high yield kraft pulping. Using a similar sweep measurement (pat. pending) as Valmet's very successful multi-point kappa analyzer, the advanced technology ensures exceptional accuracy and stability. The analyzer utilizes well proven sampling device technology with a new and innovative sample handling principle to the nearby compact measuring unit where it is washed and pulp Kappa number measured. Unlike single point Kappa measurements mounted directly to process piping, only the process sampling device is connected to the pressurized process, the measurement itself is thus unaffected by vibration and safely accessible without a process shutdown. The process sampling device is safely accessible without a process shutdown.

"The increased measurement frequency fulfills all pulp process control needs and safely provides the genuine pulp Kappa number in dedicated process stage applications from unbleached brown stock pulp to oxygen delignification,” says Risto Rinne, Fiberline Analyzer Business Manager, Valmet.

Self-adjusting process sampling and sample transportation, optimized sample washing and pre-calibration with customer pulp samples all make commissioning exceptionally fast and easy. Two models are available with measurement characteristics optimized for Kappa ranges of 9 to 50 or 35 to 120. User safety is further improved with the built-in laboratory sample collector isolated from the process. The analyzer requires minimal maintenance and features chemical based self-cleaning for trouble free operation. With the built-in touch screen display, all analyzer operating parameters, operating sequences and diagnostics together with operating instruction are all instantly available. Remote configuration and operation as well as Industrial Internet capabilities also provide the possibilities of remote specialist support from Valmet.

About the customer

Santa Fe is the largest Bleached Eucalyptus Kraft pulp mill in Chile with production capacity of 1,425,000 ADt/year. It is located 500 km south of Santiago in Bio Bio region.

This CMPC Pulp mill began operating in 1991. It currently houses two production lines that meet the most stringent environmental standards for the industry in the world.

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Irving Consumer Products breaks ground on new $400 million state-of-the-art tissue plant in Macon, GA

September 29, 2017 - 08:24

MACON, GA, Sept. 28, 2017 (Press Release) -Irving Consumer Products broke ground on the construction of their new $400 million state-of-the-art tissue plant in Macon, Georgia today at an event at the site of their future home. Joined by Mayor Robert Reichert and Charlie Gatlin, Special Projects Advisor for Georgia Department of Economic Development (GDEcD), President Robert K. Irving acknowledged the next step in the construction of the new facility.

“We’re excited to begin construction on this new plant. The plant will create over 200 permanent, skilled jobs and allow us to continue to meet our customers’ growing demands,” said Robert K. Irving, President of Irving Consumer Products. “It will also provide growth in our home province. The pulp will be from Irving Woodlands, manufactured at our New Brunswick pulp mill.”

The new plant will produce ultra-premium quality household paper products including soft bath tissue and high quality paper towel that is both strong and absorbent.

“It’s a great day in Georgia when we get to celebrate a ground-breaking event,” said Georgia Department of Economic Development Deputy Commissioner Tom Croteau. “We are excited that Irving Consumer Products chose Macon to expand their North American footprint, and are confident that they will find success here in Georgia.”

Following the ground breaking, Irving Consumer Products hosted a community BBQ in Rosa Parks Square to recognize first responders for their efforts during Tropical Storm Irma. Hundreds of emergency responders worked to open shelters, restore major power outages and clear debris from blocked roads. Irving Consumer Products contributed $30,000 to local relief efforts.
WHO’S DOIN’ ANYTHING? (CONTINUED)

The American Red Cross of Central Midwest Georgia and Salvation Army of Central Georgia each received a cheque for $15,000 for disaster response and relief efforts in Macon-Bibb County.

“I’m thrilled that Irving Consumer Products is already breaking ground on their new, state-of-the-art plant in the Sofkee Industrial Park. When we first met the people from Irving, I was amazed at their family atmosphere and values, and I knew they would be a great fit for our community,” says Macon-Bibb County Mayor Robert Reichert. “I am inspired and encouraged by their show of support for our emergency responders and know they will continue to be a great partner for many years to come.”

Construction will be completed in 2019 and is estimated to provide 1,000,000 person hours of work. At the height of construction, over 540 people will be working on-site.

In November 2016, Irving Consumer Products announced the purchase of a new ThruAir Dry machine. In August 2017 the company selected Macon, Georgia as the site for their new plant. The new plant will double the company’s ThruAir Dry capacity, increasing it by 75,000 tonnes, the equivalent of 15 million cases.

About Irving Consumer Products
Irving Consumer Products is one of North America’s leading manufacturers of household paper and baby diaper products. Irving Consumer Products companies include Irving Tissue and Irving Personal Care. Irving Tissue produces premium household store brand paper products for many of North America’s top retailers, in addition to some of the top-selling tissue brands in the marketplace. Irving Personal Care is the only manufacturer of baby diapers and training pants in Canada. Using state-of-the-art equipment and technology, they produce premium quality private label products for major North American customers.

Italy’s Recard enters into agreement with Grand Bay Paper and Care Products for installation of new tissue paper mill in Guatemala
September 29, 2017 - 10:13
LUCCA, ITALY, Sept. 29, 2017 (Press Release) -To be able to meet the growing demand in the different markets of the Latin-American area and pursue a regional growth plan, the Grand Bay Paper and Care Products Group has stipulated an agreement regarding the installation of a new paper mill for the production of soft papers (toilet rolls, table napkins, facial tissue, kitchen towels) with the Italian company Recard.

This new investment will be set up in Guatemala, in Central America, through the branch company Papelera Internacional S.A., and will constitute the basis for the expansion of the activities in the region of Central America and the Caribbean.

The new machine, whose start-up is scheduled for mid-October 2018, boasts a drying capacity of 120 t/d and a maximum speed of 2000 m/min. The machine will run on 100% virgin fiber or 100% secondary fiber. Recard will supply a turnkey service that includes 3 pulp preparation lines for long fibers, short fibers and broke, approach flow system, related ancillary equipment and complete mechanical and electrical assembly.

“This new order by Painsa”, commented Mauro Michelini, General Manager, “is a great reason for pride for us because it allows us to work once again with people with whom we have established a great rapport, and this is foundational in order to pursue satisfactory technical results”.

The Grand Bay group
The Grand Bay group is a Latin-American consortium with over 65 years’ experience in the area. Present in the markets of Central America, the Caribbean and the Andean region, it carries out its activities directly from the facilities located in Venezuela, Colombia, Trinidad, Panama and Guatemala, and is specialized in the production and sale of soft papers (toilet rolls, table napkins, facial tissue, kitchen towels), directly serving over 20 countries in Latin-America.

With this new investment, the Grand Bay Group intends improving the service standards available to customers and offering high quality products that meet the increasingly pressing demands of consumers in the region, maintaining its leading position from a technological point of view and with a focus on responsible, efficient and ecosustainable management of the resources.

Nigeria university researchers produce paper, floor tiles, other products from plantain, banana stem
September 28, 2017 - 17:52
LAGOS, Sept. 28, 2017 (Local News) -Researchers at the University of Uyo, Akwa Ibom State, have produced pulp, paper, cellulosic plastics, decorative textile costumes, fibre board and floor tiles from matured pseudostems (part of the banana plant that looks like a trunk) of plantain and banana. The items were exhibited at the sixth edition of Nigerian Universities Research & Development Fair (NURESDEF) held at the Nnamdi Azikiwe University, Awka.

Vanguard - Researchers produce paper, floor tiles, others from plantain, banana stem
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International Paper to invest $300 million at Riverdale Mill
September 22, 2017 - 09:37
MEMPHIS, TN, Sept. 22, 2017 (PRNewswire) -International Paper today announced plans to invest approximately $300 million to convert its No. 15 paper machine at the Riverdale Mill in Selma, Ala. from uncoated freesheet to high quality whitetop linerboard
WHO’S DOIN’ ANYTHING? (CONTINUED)

and containerboard. The conversion is targeted to be completed by mid-year 2019. The investment will add 450,000 tons of annual capacity, with flexibility to shift between containerboard products.

Converting Riverdale No. 15 will position International Paper to grow its Industrial Packaging business, continue to provide attractive jobs to Riverdale team members and remain a significant supplier of uncoated freesheet in North America.

“Our customers expect us to support their growth and this machine conversion will meet their needs,” said Tim Nicholls, IP's senior vice president, Industrial Packaging the Americas. “Our Industrial Packaging business continues to focus on our customers in strategic channels including our box business, domestic and export containerboard and specialty grades.”

Nicholls added its Industrial Packaging mill system allows the business to optimize product mix, increase service and reduce costs. "Our system runs most effectively when there is flexibility, and this conversion will also help us define a more streamlined and balanced system overall."

As a result of the machine conversion, the company will reduce its annual uncoated freesheet capacity by 235,000 tons. The remaining machine at the Riverdale Mill will continue to produce uncoated imaging paper products.

"International Paper's uncoated freesheet business remains a strategic part of the company and we are well positioned to support current and future customer demand," said Mike Amick, Jr., IP's senior vice president, Paper the Americas & India. “This investment proactively repositions Riverdale No. 15 to serve our growing packaging business, while enabling us to optimize our North American Papers business.”

About International Paper

International Paper is a leading global producer of renewable fiber-based packaging, pulp and paper products with manufacturing operations in North America, Latin America, Europe, North Africa and Russia. We produce packaging products that protect and promote goods, and enable world-wide commerce; pulp for diapers, tissue and other personal hygiene products that promote health and wellness; papers that facilitate education and communication; and paper bags, cups and food containers that provide convenience and portability. We are headquartered in Memphis, Tenn., and employ approximately 55,000 colleagues located in more than 24 countries. Net sales for 2016 were $21 billion.

Certain statements in this press release are or may be considered forward-looking statements, such as statements relating to the timing, cost and impact of the paper machine conversion. These statements reflect Company management's current views and are subject to risks and uncertainties that could cause actual results to differ materially from those expressed or implied in these statements. Factors which could cause actual results to differ include but are not limited to (i) the failure to successfully convert the paper machine within the estimated timeframe and budget; (ii) the failure to realize the expected benefits from the conversion or delay in realization thereof; (iii) industry, global economic and other conditions that could affect the timing, cost and impact of the conversion; and (iv) other factors that can be found in the Company's press releases and Securities and Exchange Commission filings. The Company undertakes no obligation to publicly update any forward-looking statements, whether as a result of new information, future events or otherwise.

Prinzhorn's Hamburger signs land purchase agreement to build 480,000 tonne/yr containerboard plant in Turkey

September 13, 2017 - 05:11

KUTAHYA, Turkey, Sept. 13, 2017 (Press Release) -Hamburger Turkey Ltd., part of the Austrian Prinzhorn Group, has signed a land purchasing agreement to set up a third paper mill in Turkey. The location is situated 250 Km south-east of Istanbul. The new paper machine will have state-of-the-art technology, a width of 7,80m and an annual production capacity of 480,000 tonnes containerboard, mainly light-weight Testliner and Fluting. The 300 Mio. Euro investment will create 500 new jobs and is planned to be finalized in 2020.

“Turkey is an important market for us and this investment shows our strong commitment to this fast growing region. If all relevant factors, such as governmental permissions and political stability, show a green light we are happy to proceed with the next project steps,” said Cord Prinzhorn, CEO of Prinzhorn Group.

“We are excited to have found such an excellent location for this project. This additional paper mill will help us to secure our high quality paper supply to our customers,” added Harald Ganster, MD of Hamburger Containerboard Division.

Hamburger Turkey Ltd. is part of the Hamburger Containerboard Division with a total of seven paper mills in four countries and 2 Mio tonnes of produced container board per year. The two existing paper mills in Turkey are based in Corlu and Denizli.

The Prinzhorn Group

Hamburger Containerboard Division is part of the Prinzhorn Group, which employs 6,300 people in 15 countries and ranks among the European market leaders in the recycling, paper and packaging industry. With an annual turnover of 1,23 billion Euro, the group is number three in Europe in this segment. The family-owned Prinzhorn Group has its headquarters in Vienna / Austria and is structured in three divisions: Dunapack Packaging (corrugated packaging solutions), Hamburger Containerboard (production of containerboard) and Hamburger Recycling Group (collection and trading of secondary rawmaterial).
**WHO’S DOIN’ ANYTHING? (CONTINUED)**

Clearwater Paper expanding ‘huge’ North Las Vegas tissue paper plant, where ‘robots have nicknames’

September 13, 2017 - 15:50
LAS VEGAS, Sept. 13, 2017 (Local News) - A $150 million, 30-foot-tall machine sits before Steve McSherry every day at the Clearwater Paper plant in North Las Vegas.
After 10 years with the plant, McSherry holds a job monitoring four computer screens that report the health of this machine.
McSherry ensures the machine runs smoothly as it air dries tissue sheets on their way to becoming ultra-premium-grade paper towels and toilet paper.
Review Journal - At huge North Las Vegas paper plant, robots have nicknames
RISI is not responsible for the reliability or availability of content on external websites.

Monitoring air and gas flow rates for the Pulp & Paper industry can be very challenging. Optical Scientific, Inc. (OSI) the world leader in optical flow sensing technology has developed the OFS-2000 series flow monitors, which have proven to be a successful tool in a variety of challenging applications that include high and variable opacity and dust concentrations, including wet scrubbers, flare stacks and similar processes with entrained / suspended liquid droplets.

In fact one Pulp and Paper mill located in the Upper Peninsula Michigan has been operating an OFS-2000 flow meter for over 16 years with little or no maintenance required.

The installation requirements of OFS sensors are much simpler and flexible than traditional ultrasonic sensors. It measures straight across and no angle is required. Only a light beam is in contact with the gas. OFS technology has equal or better accuracy than a single point or angled path measurements. OFS technology offers a non-interfering measurement, isolation from flow media and will not create a pressure drop for critical processes.

All OFS sensors have a 1500/1 turndown ratio (or better) and are unaffected by temperature, pressure, gas composition, density, humidity, turbulent flow or path length. OFS sensors offer a drift free measurement, do not require calibration and come with continuous internal self-diagnostics to assure the operator of accurate reporting day in and day out 24/7/365.
OFS 2000 technology is NIST tested and approved and OFS 2000 flow sensors meet or exceed:

- EPA method 14
- EPA MACT RSR 40 CFR 63.670
- EPA 40 CFR part 60 & 75
- EPA 40 CFR part 60 sub part J & Ja (flow) SCAQMD rule 1118.

Optical Scientific’s OFS-2000 series optical flow meters are truly a versatile set of instruments with great potential for many new applications where accurate flow measurement is of interest. For more information please contact OSI at info@opticalscientific.com or visit our website at www.opticalscientific.com

For more information, contact Don Jenkinson at Memeco Sales and Service Corp representing Optical Scientific Inc.
FTIR CEM provided by CEMTEK a perfect choice for Paper Mill

Orange, CA, October 3, 2017

Cemtek Environmental, a technology leader in Continuous Emissions Monitoring Systems (CEMS) provided an FTIR based Continuous Emissions Monitoring system at a Paper Mill. The Continuous Emissions Monitoring System was designed & engineered to meet the unique conditions encountered when monitoring emissions at a Paper Mill facility along with meeting EPA 40CFR60, Part 63 NESHAP and IB MACT EPA regulations.

In selecting Cemtek to be the successful supplier for the new CEMS to ensure compliance with Federal & State rules and regulations the customer emphasized the importance of partnering with a full service CEMS supplier like Cemtek that has the experience to handle a project of this nature.

The emissions monitoring systems provided by Cemtek was fully compliant with all Federal & State regulations, including the recently promulgated IB MACT, and will provide years of proven trouble free performance while keeping long term costs of ownership down. This is important when Paper Mills need to keep costs under control and having a reliable CEMS plays an important part to ensure compliance with regulations & rules by reducing maintenance time & costs.

Cemtek’s custom CEMS package included an FTIR technology analyzer to measure SO2, CO, & H2O, along with a Stack Flow Monitor, Opacity Monitor, PM Monitor, TDL Monitor for monitoring HCl, and EPA compliant data acquisition software, all housed in an environmentally controlled shelter. Using the latest in analytical technology coupled with superior engineering & project management Cemtek has again proven its ability to be maintain its position as the top CEMS supplier in the industry.

Using experience gained over many years Cemtek custom designs each CEMS to meet regulatory requirements and ensure low long term costs.

The Hot/Wet FTIR technology based CEMS is an ideal technology to monitor emissions at Paper Mills along with many other applications. Paper Mill stack emissions can be very corrosive due to the nature of the wood burning process, but the Hot/Wet FTIR is not affected or corroded as all gases and components are heated above the dewpoint to maintain a safe analyzer environment. The ability of one Hot/Wet FTIR analyzer to measure dozens of gases simultaneously provides a perfect one analyzer solution for a Paper Mill and improves overall system integrity, requires less space and reductions in analyzer failures. In addition the ability of the FTIR to measure difficult to measure/soluble gases such as HCl, H2S, NH3, and HF makes it a perfect analyzer choice for Paper Mills. Finally the simple design of the system removes the requirement for chillers, filters, scrubbers, NO2 to NO converters, extra pumps, resulting in lower maintenance and cost of ownership.

Multicomponent absorption spectrum:
For more information, please visit: http://www.cemteks.com

Cemtek Environmental is a division of Cemtek Group and provides a single source for cost effective Continuous Emissions Monitoring Systems (CEMS) design, integration and field services. All phases of air monitoring and reporting requirements are provided using our network of highly skilled field service technicians, CEMS specialists, Engineers and extensive CEMS design experience, measuring NO, NO2, NOx, SO2, CO, CO2, HCl, NH3, THC, H2S and many other gasses.
CEMTEK Environmental, Inc.
Gary Cacciatore
gcacciatore@cemteks.com
3041 S Orange Ave, Santa Ana, CA, 92707
714-437-7100

MEMECO
6677 N. Lincoln Ave. Ste 230 Lincolnwood, IL 60712 (847) 329-9393
For more information, contact Don Jenkinson at Memeco Sales and Service Corp representing Optical Scientific Inc.
"The fourth industrial revolution ABTCP 2017"
by
Ronaldo Neves Ribeiro

"Industria 4.0 - Conceitos e Aplicação a Indústrias de Processo"
by
Luiz Egreja

Originally presented at the ABTCP 2017-50th Pulp & Paper International Congress & Exhibition at the Transamerica Expo Center in Sao Paulo, Brasil on September 23 – 25
**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.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


## WORLD CORNERS

**CANADA CORNER**

Nothing from anyone there this time!

**CENTRAL & SOUTH AMERICAN CORNER**

**FAR EAST CORNER**

Nothing from anyone there this time!

**EUROPEAN CORNER**

Nothing from anyone there this time!

**FROM THE LAND OF THE MIDNIGHT SUN**

Nothing from anyone there this time!

## 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”!
CONFERENCES / SYMPOSIA

Fundamentals of Industrial Automation, Instrumentation, and Control

Tuesday, 01 May - Thursday, 03 May, 2018

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ANSWERS TO THE TUNING TIP

1. First convert the psi gauge measurement to feet of head measurement.
25 psi * 2.31 feet per psi = 57.75 feet of H₂O.

Next find the elevation of the bottom of tank in relation to the elevation of the pressure gauge. Tank bottom in feet – pressure gauge elevation in feet, equals the height in feet to the bottom of tank.
65 feet – 5 feet = 60 feet of head to bottom of the tank.

Note: Head is always measured in the standard of inches or feet of water Column.
Multiply the head between the bottom of the tank and the pressure gauge times the s.g. to get the head equal to H₂O.
60 feet of fluid * 0.7 s.g. = 42 feet H₂O to bottom of tank from the pressure gauge.

Next subtract (the height from the pressure gauge to the bottom of the tank in feet of H₂O), from (the total height of fluid in feet of in H₂O above the pressure gauge), to find (the height of the fluid in the tank in H₂O).
(57.75 feet of H₂O total head) – (42 feet of H₂O below the tank) = (feet of fluid in H₂O in the tank).
(57.75 feet total) – (42 feet to bottom tank from the pressure gauge) = 15.75 feet in H₂O in the tank

Next convert height in feet of H₂O to height of fluid with a specific gravity (s.g.) of 0.7:
15.75 feet of H₂O / 0.7 s.g. = 22.5 feet of total height of the fluid column in the tank

2.

\[ h_2 = h_1 \left( \frac{F_2}{F_1} \right)^2 \]

\[ = 309 \left( \frac{150}{250} \right)^2 = 111.24 \text{ in } H_2O \]

b. Find the mA output:
The output signal is the square root of the ratio of change in head pressure (new measurement) to the full scale calibrated range of the transmitter. First find the % of head pressure in the scale of 0 to 400 inches H₂O.

% head = \[ \frac{111.24}{400} = 0.2781 \]

The output is a 4mA to 20mA current signal. The span is 16mA (20mA – bias of 4mA)
Since the flow rate is a squared function, we must first extract the square root of the % measurement to find the % of output signal.

\[ output \ mA = \sqrt{0.2781} \ast 16mA + 4mA \text{ bias} = 12.44mA \]
3. Find the psig for the given maximum head pressure:
psig = feet head / 2.31 psig per foot of head

Maximum measurement in psig:
200 psig = 462 / 2.31

Next find the calibration range to order the transmitter:

The formula for calibration is:
(high side psi) - (low side psi) = lower or upper range value.
Note: Gives lower range value when minimum and upper range value when maximum

LRV = 200 - 0 = 200 psi
URV = 0 - 0 = 0 psi

The transmitter will be calibrated as:
0 to 200 psig

4. a) Find the new pressure at the point of the gauge in the piping system for a flow rate of 240 gpm.

\[ h_2 = h_1 \left( \frac{F_1}{F_2} \right)^2 = 100 \left( \frac{300}{240} \right)^2 = 156.25 \text{ psi} \]
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