Editors Message

By Brad S. Carlberg, P.E., CSE
Hoodsport, WA USA

Well, as I write this it is beginning the second week of May, in the middle of Spring; and flowers are in bloom here in Washington State.

Please go to page 24 to read the Director’s Message from PUPID Director Ronaldo Ribeiro of Cenibra.

The good news is that in the last quarter, PUPID has gained nine new members and has 173 regular dues-paying members; but we now have 19 members that are in active grace status.

Besides being this Newsletter Editor, I am also the ISA Industries & Sciences Department Vice president in the Technical Assembly responsible for facilitating the nine (9) Industries & Sciences Divisions. The Automation & Technology Department Vice President responsible for facilitating the eight (8) A&T Divisions, including the newest division, the Smart Manufacturing & IloT Division.

All of the seventeen (17) division Directors, the ISA Executive Board members, and ISA Staff have been working on the new ISA Connect platform getting it ready to release. It’s going to be great! Go to page 22 to see a short description & a link to go check it out.

As usual for the Logger newsletters, I am proud to have the presentation Do We Need an Industry 4.0 Lexicon? by Pat Dixon, P.E., PMP, President, DPAS-INC, from the webinar that originally aired on Tuesday, April 29, sponsored by the TAPPI PIMA Management Division.

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

The 2020 ISA election will start June 2. Don’t forget to vote! The slate of candidates for the 2020 ISA Election are set and the election will open June 2. The positions open in are on page 27.

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.
TUNING TIP: CODES & STANDARDS & SAFETY SYSTEMS

These questions are taken from the ISA Control Systems Engineering PE Exam Study Guide, 3rd Edition; ISBN 1-55617-476-4

1. P32-33 | Codes and Standards | 

Your assignment is to implement a burner management system using a solid-state microprocessor-based programmable logic controller (PLC). You will analyze boiler operation, develop system logic, and select control equipment.

The system design shall upgrade the burner management functions on a 50,000,000 lb/hr, two-burner gas-fired boiler to current NFPA standards. Igniters will be interrupted (turned off) when the timed trial for ignition of the main burner has expired. PLC inputs and outputs will de-energize to shut off (trip) fuel to the boiler.

P32. The primary reason a non-redundant programmable logic controller is used for a burner management system instead of relay logic is to:

(A) Make functional changes by field personnel easier.
(B) Make functional changes while operating possible.
(C) Decrease space requirements and cost to implement more complex logic.
(D) Allow PID control in the burner management system.

2. P33. The burner system manual emergency shutdown shall be accomplished by:

(A) A normally-open contact to a PLC input.
(B) A normally-closed contact to a PLC input.
(C) A normally-open contact to a PLC input and a normally-closed contact to another PLC input.
(D) A hard-wired normally-closed contact to de-energize a fuel trip relay.

3. D | Safety Systems | P401

Which statement best describes the relay logic diagram in the figure below?

(A) Trip FD if furnace pressure goes high and trip LD if it goes low. Trip fuel if drum level goes low for more than 10 seconds with override switch in the auto position.
(B) Trip FD if and LD if furnace pressure goes high or low, and trip fuel if drum level goes low for more than 10 seconds with override switch in the auto position.
(C) Trip fuel, FD, and LD if furnace pressure goes high or low for more than 10 seconds, or if drum level goes low with override switch in the auto position.
(D) Trip fuel, FD, and LD if furnace pressure, goes high or low, or if drum level goes low for more than 10 seconds with override switch in the auto position.

Should have Fail-Safe (Negative) Inputs
1=OK
0=Alarm

Sample Answer Image Here

Figure P401

Find the answers to this question on page 32

Calendar of Events

Get a quick overview of the ISA PUPID events by going to the Calendar at: https://www.isa.org/division/pupid/events/

PAPERCON 2020
April 25 – 28, 2021
Renaissance Atlanta Waverly Hotel & Convention’s process control network Center Atlanta, GA

11th International Woodfiber Resource and Trade Conference
September 21-23, 2020 (Field Trip April 24-25)
Sheraton Lisboa Hotel | Lisbon, Portugal

International Chemical Recovery Conference (ICRC) 2020
April 12 - 15, 2021
Hotel Parque Balneário
Santos, São Paulo, Brasil

66th IEEE Pulp & Paper 2021
June 20 - 24, 2021
Crowne Plaza Niagara Falls – Fallsview Hotel
Niagara Falls, ON

2020 BLRBAC Meetings
Fall Meeting: October 5 – 7, 2020

ISA Annual Leaders Conference 2020
October 23 – 25, 2021
LaConcha Resort
San Juan, PR
Welcome to the 9 new ISA Pulp & Paper Industry Division Members

Jay Hunt
Wilson A. Rodriguez Gomez
Mr. Allen Bishop

Vincent Emile Hilaire
Michael Geddes
Paul Geddes

Geri Dee McGrath
Graeme Wattie
Richard Beckrich

Here’s a reminder to the 19 ISA Pulp & Paper Industry Division Members who need to renew their membership

Mr. Jim H. Simmons
Mr. John M. Beaudry, Jr.
Mr. Don R. Andrews
Mr. Juan Eduardo Massri
Mrs. Ellen Van London
Nestor Ulises Rivas Figueroa, CCST
Andre Luiz Kakehasi

Alexis L. Huamani
Ahmed Hanafy
Brent Hamilton, CAP
Jacob Reid
Matt Waid
Allen Larocque

Justin Singree
Brady L Franklin, CAP
Jose Glicerio Ruas Alves
Kathryn Witzgall
Keith Lovett
Evan Wilson

Don’t forget to renew!

CCST question

All of the following instrumentation bus networks can be implemented with a single pair of wires, except for?

A. Foundation Fieldbus
B. DeviceNet
C. AS-i
D. HART

CAP question

After attending operator training, participants are asked to evaluate the training session by filling out a questionnaire. Which statement best describes the importance of evaluating operator training sessions?

A. It indicates how well participants liked the training.
B. It helps to measure program effectiveness and areas for improvement.
C. It provides records of who participated for ongoing monitoring.
D. It provides compliance records for training mandated by federal, state, and local regulations.

See page 31 for the answers to the CCST and CAP questions
Valmet signs preliminary agreement with Metsä Fibre for key technology and automation delivery at its bioproduct mill in Kemi, Finland

ESPOO, Finland, April 29, 2020 (Press Release) - Valmet and Metsä Fibre, which is part of Metsä Group, have signed a preliminary agreement according to which Valmet will deliver key technology covering all main process islands and automation systems to Metsä Fibre’s planned Kemi bioproduct mill in Finland. The final agreement is subject to Metsä Fibre’s investment decision. Metsä Fibre has announced that the readiness for the decision is expected to be reached during autumn 2020. If materialized, the new bioproduct mill would have an annual pulp production capacity of 1.5 million tonnes and in addition produce various other bioproducts. The production of the new mill is scheduled to begin in 2023.

The estimated value of Valmet’s anticipated delivery for Metsä Fibre’s planned Kemi bioproduct mill, covering the core equipment supplied by Valmet, is about EUR 350-400 million. The anticipated delivery will have an important employment impact on Valmet and its subcontractors. The employment impact of Valmet’s project delivery is expected to be around 800 man years, out of which about 500 man years in Finland.

“We have set high environmental, material and energy efficiency targets for the Kemi bioproduct mill. Valmet has been able to offer us the technology to reach these targets. Our good and long cooperation with Valmet creates a good foundation for a successful execution of this mill project and for the high performance of the bioproduct mill throughout its whole lifecycle,” says Ismo Nousiainen, CEO of Metsä Fibre.

“During our long cooperation with Metsä Group and thanks to our successful innovative technology delivery to the Äänekoski bioproduct mill, we have been able to build a strong relationship that has formed an excellent basis for our cooperation also in this new planned project. To be selected as the partner for the entire bioproduct mill technology delivery including also the needed automation is a good sign of Valmet’s competitiveness, reliability and technological innovativeness,” says Pasi Laine, President and CEO of Valmet.

Details about Valmet's technology delivery to Metsä Fibre Kemi bioproduct mill

According to the preliminary agreement, Valmet will deliver the full production process from wood handling to ready pulp bales designed to produce either softwood or hardwood pulp, as well as automation system for the whole mill including features from Valmet’s Industrial Internet offering. Additionally, the project would include a smaller rebuild of the existing pulp mill.

"With a complete mill delivery, Valmet can offer to Metsä Fibre the full benefits of our innovative full scope offering consisting of process technology, automation and services. With Valmet’s Industrial Internet features, expert support can be provided to the Kemi bioproduct mill both onsite and remotely. The mill will feature leading process technology and the most advanced automation systems including the latest developments in our continuous cooking technology, to reach excellent energy efficiency, high end-product quality and high environmental performance. In addition, with our wash press technology, we provide a solution to manage low effluent flows and COD (chemical oxygen demand) levels,” says Bertel Karlstedt, Pulp and Energy Business Line President from Valmet.

Valmet's delivery would include engineering, procurement, supply and construction management of the wood handling, cooking and fiber line, pulp drying and baling, non-condensable gases (NCG) handling solution, evaporation, recovery boiler, recausticizing, lime kiln, biomass dryer and gasifier. In addition, Valmet would deliver the sulfuric acid plant and rebuild of the existing fiber line and power boiler with an extended scope of supply including construction. The integrated Sulfuric Acid Plant, which produces sulfuric acid from mill’s own odorous gases, was originally developed together with Metsä Fibre for the Äänekoski bioproduct mill.
WHO’S DOIN’ ANYTHING? (CONTINUED)

The automation delivery would include industrial control system featuring Valmet DNA control system, plant information management system, advanced process controls (APC), analyzers and online measurements, and dedicated systems for pulp dryer. The Valmet Industrial Internet features include simulators and optimizers for selected process islands as well as Valmet Performance Center connectivity.

Information about Metsä Fibre
Metsä Fibre is a leading producer of bioproducts, biochemicals and bioenergy. Metsä Fibre is the world’s leading producer of bleached softwood pulp and a major producer of sawn timber. Currently employing approximately 1,300 people, the company’s sales in 2019 totaled EUR 2.2 billion. Metsä Fibre is part of Metsä Group.

Essel Kağıt taps Toscotec for turnkey supply of new tissue line at its Osmaniye mill in Turkey

LUCCA, ITALY, April 30, 2020 (Press Release) - Essel Kağıt (Essel Selüloz ve Kağıt Sanayi Ticaret A.Ş.) selected Toscotec for the turnkey supply of a new high-performance tissue line (PM 3) at its Osmaniye mill in Southern Turkey. The start-up is scheduled for autumn 2021.

With a net trim width of 5,700 mm, Toscotec’s AHEAD 2.2L line will be Turkey’s biggest tissue machine, and with 270 tons per day it will also set the national record for highest production capacity. The new AHEAD 2.2L features a fully hydraulic TT Headbox ML-T with dilution control, a third generation TT SYD with optimized geometry for maximum heat transfer efficiency, TT NextPress shoe press technology, and high-recovery gas fired TT Hoods designed for cogeneration upgrade.

The turnkey supply includes the complete stock preparation system, Toscotec’s patented Short Approach Flow TT SAF, electrification and controls, dust and mist removal systems, and an online shaft puller. The tissue line will be completed by two OPTIMA slitter rewinders, Toscotec’s new rewinder line with tension and nip control for high quality winding. There will be one OPTIMA 2600L line processing 5,700 mm width parent reels and fitted with dust removal system, and one OPTIMA 2200 line for 2,850 width parent reels, both equipped with an automatic shaft puller.

A comprehensive service package completes the supply with detailed mill engineering, erection supervision, commissioning, start-up, and training, as well as YES Connect-Vision to ensure high-tech remote support.

Abdurrahman Esen, shareholder and General Manager of Essel Selüloz ve Kağıt Sanayi Tic. A.Ş., says, “This important investment is crucial for Essel’s expansion strategy in Turkey and other markets. We required the most energy-efficient and cutting-edge technology to support our growth and to continue serving our customers with the highest tissue quality at competitive prices. Considering also its strong expertise in turnkey projects, Toscotec proved to be the best choice for this operation.”

Alessandro Mennucci, CEO of Toscotec, comments, “We are excited to begin a key partnership with Essel. It rewards the commitment and efforts we made in this difficult time, during which we never stopped working, and it testifies to the foresight of Essel who decided to look to the future and go ahead with its investment strategy. The supply presents Toscotec’s top of the line technology, including the shoe press, third generation Steel Yankee Dryer and OPTIMA rewinders. We will put all our experience in managing complex projects at Essel’s service to achieve our common objective. With this important project, Toscotec strengthens its position as global leading supplier of turnkey solutions for the tissue industry.”

About Essel Selüloz ve Kağıt Sanayi Tic. A.Ş., (Essel Cellulose and Paper Industry)
Founded in 2005, Essel Cellulose and Paper Industry is a leading manufacturer of tissue jumbo rolls for tissue paper converters, with a portfolio of 600 products including toilet paper, napkins, dispenser napkins, paper towels and dispenser towels. It operates from two tissue mills in Zonguldak Çaycuma (PM 1) in the north and Osmaniye (PM 2) in the south of Turkey, and has an overall production capacity of 76,000 tpy.
WHO’S DOIN’ ANYTHING? (CONTINUED)

TOSCOTEC
Toscotec designs and manufactures machines, systems and components for the production of Tissue and Paper & Board, offering proprietary solutions to the world’s leading paper industries: from complete tissue production lines to rebuilds, modernization projects and even single components.

Valmet to supply DNA automation systems to Shandong Sun Paper’s facility in China

ESPOO, Finland, April 30, 2020 (Press Release) - Valmet will supply Valmet DNA automation systems to Shandong Sun Paper Industry Joint Stock Co., Ltd. (Sun Paper) in China. The two systems will be installed on the company’s paper machine PM 39 and PM 40, enabling the lines to increase availability, production efficiency and optimize operation.

The order was included in Valmet’s orders received of the first quarter 2020. The delivery will take place in the third quarter of 2020.

"Valmet is our strategic partner, they have strong delivery and service capabilities, wide offering and global expert support. We trust Valmet’s technology and solutions. We already have Valmet’s stock preparation equipment on PM 39 and PM 40. With the synergy of Valmet’s automation solution, we can get tangible benefits from single supplier, such as machine utilization improvement and high production efficiency. In addition, Valmet’s automation system is user-friendly, which allows our operators to easily run two new paper machines," says Wenchun Wu, Project Director, Sun Paper.

"We have a very good cooperation with Sun Paper. We provided Valmet IQ Process and Quality Vision (PQV) systems and Valmet condition monitoring on their PM 39 and PM 40, and we are very glad that we can now provide a wider range of our offering. Valmet DNA is a single process automation and distributed control system that can be applied for process controls, machine controls, and quality controls. With Valmet DNA, we are ready to bring our customer’s automation to the next level," says Chenglin Si, Area Sales Manager, China, Automation, Valmet.

Information about Valmet’s delivery
Valmet’s delivery consists of a Valmet DNA automation system. Valmet’s comprehensive and scalable automation solution is geared toward optimum productivity and efficiency.

Information about the customer Sun Paper
Sun Paper was founded in 1982, headquartered in Yanzhou District, Jining City of Shandong Province. It is a leading cross-national papermaking group integrating timberland, pulping and paper making, and a top 50 papermaking company in the world. Sun Paper has a series of products including high-class art paper, high-class cultural and office paper, specialty fiber dissolving pulp, household paper, and industrial paper.

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 2019 were approximately EUR 3.5 billion. Our more than 13,000 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.
WHO’S DOIN’ ANYTHING? (CONTINUED)

A.Celli completes upgrade of TM 2 tissue line at Kimberly-Clark Products' mill in Kluang Johor, Malaysia

LUCCA, ITALY, April 9, 2020 (Press Release) - Kimberly-Clark Products Malaysia, Kluang Johor Mill: A.Celli concludes the scheduled upgrade of the TM2 Tissue Line with a new off-line shaft puller and a new set of expandable spool, in combination with the upgrade of the rewinder slitting unit. After the upgrade of the TM1 rewinder and other tissue line equipment, A.Celli Paper's Customer Service team installed and successfully concluded the upgrades on the TM2 tissue line. The intervention entailed updating the core handling system downstream the TM2 pope reel with the supply of the A.Celli off-line shaft puller. Since this an automated process, it allows the customer to improve and accelerate the shaft extraction from the mother roll and to improve KC Products Malaysia personnel safety. The rebuilding of the TM2 line has been completed with the upgrade of the Rewinder slitting section with a modern and efficient knives system. A.Celli Paper worked in close contact with the customer, finding the optimal solution for a light-impact modification with a short shutdown time. The new configuration kept into consideration the convenience of the operations that had to be carried out on one hand and the needs of KC Products Malaysia on the other, in order to obtain the best results in terms of efficiency. The customer was very appreciative of the project, acknowledging the high level of professionalism of A.Celli Paper’s Customer Service team and its ability to find functional, practical and intelligent solutions through engineering and design analyses. A.Celli Paper is capable of offering prompt and effective consultancy in-line with any type of investment and production demand.

Valmet to supply fine paper line and recovery boiler at Sun Paper's mill in Beihai, China

ESPOO, Finland, April 27, 2020 (Press Release) - Valmet will supply a fine paper making line with stock preparation, an extensive scope of automation and a recovery boiler for Sun Paper in Beihai, China. Also, another stock preparation line for a different Sun Paper site will be supplied. The new high-capacity fine paper making line is designed to produce high-quality woodfree uncoated paper (WFU) grades, and the recovery boiler is designed for high power generation and environmental performance. The start-ups of the paper making line and the recovery boiler are scheduled for 2021. The recovery boiler order was included in Valmet’s first quarter and the paper making line order is included in Valmet’s second quarter of 2020 orders received. The value of the orders will not be disclosed. The total value of orders of this type and delivery scope is typically around EUR 130-150 million. Valmet’s delivery is part of Sun Paper’s new greenfield mill in Beihai, which will eventually have a total pulp and paper capacity of 3.5 million tonnes annually. The mill will be constructed in two phases over approximately five years.

“Our overall target of the project is to build a world-class mill. We wanted to choose advanced and reliable technology that is safe to operate. We chose Valmet based on the good cooperation in our previous projects. Valmet also met our targets well,” says Fei Da, Recovery Island Project Manager, Sun Paper.

“Valmet is the number one supplier with the paper machines this wide and fast. Our good references with excellent start-ups have further strengthened our position. It is a real benefit to our customers that we can deliver complete paper making lines from stock preparation to winder. The key components and most of the engineering will be done in Finland, the rest locally in China. The workload is divided roughly half between Finland and China,” says Xiangdong Zhu, Area President, China, Valmet.
"With our proven boiler technology, we were able to meet our customer’s tight requirements for high efficiency and low emissions. In this project we will utilize our global network, with a major part of the project management, manufacturing and purchases to be done locally in China and engineering in other Valmet locations," says Jussi Mäntyniemi, Vice President of Recovery Business Unit, Valmet.

Details of the high-quality fine paper making line

Valmet’s delivery comprises a complete fine paper making line (PM 1) from stock preparation to parent roll handling and two winders with related air, chemical and process systems, and start-up packages for spare parts, consumables and paper machine clothing. Valmet’s paper making line design focuses on machine runnability, which is one of the key factors in fine paper making.

The stock preparation delivery for PM 1 includes stock lines for softwood, hardwood and BCTMP (bleached chemi-thermomechanical pulp), broke collection, stock mixing and an approach flow system. The stock preparation delivery for PM 39 at a different site is very similar to the delivery for PM 1.

The extensive automation package includes Valmet DNA distributed control system with process, machine and drive controls and conditioning monitoring. Also, wet end analyzers and Valmet IQ quality management system with profilers are included. With these automation solutions, the entire production process and the end-product quality can be optimized for maximized business results.

The 11,150-mm-wide (wire) machine produces wood free uncoated paper grades in the basis weight range of 50-100 g/m2. The design speed of the machine is 1,800 m/min, and it will produce 500,000 tonnes paper annually.

Details of the high-efficiency recovery boiler

Valmet’s delivery also includes a new high-power recovery boiler with a capacity of 4,600 tDS/d (tonnes dry solids a day). The recovery boiler has multiple high-power features, including multi-stage preheating of feedwater and heat recovery from flue and vent gases to combustion air. The boiler is designed to burn mill’s odorless non-condensable gases and to fulfill tight emission regulations. The multilevel air system helps to optimize the combustion to reach low NOx and SO2 levels.

Information about the customer Sun Paper

Sun Paper is one of the subsidiaries of Shandong Sun Holdings Group, which was founded in 1982. Currently Sun Paper has two mills in China’s Shandong province with around 4 million tonnes/year of paper and board capacity and 1.3 million tonnes/year of wood pulp capacity. The company also operates a mill in Laos with a 300,000 tonnes/year dissolving pulp line and a 400,000 tonnes/year recycled pulp line. In July 2019, Sun Paper established a wholly owned subsidiary, Guangxi Sun Paper, to build an integrated pulp and paper mill in Beihai.

VALMET Corporate Communications

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 2019 were approximately EUR 3.5 billion. Our more than 13,000 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.
AMP Robotics marks major AI-driven recycling milestone

DENVER, April 23, 2020 (Press Release) - AMP Robotics Corp. (“AMP”), a pioneer in artificial intelligence (AI) and robotics for the recycling industry, today announced the achievement of one billion recyclables processed over the 12 months ending March 31, 2020. AMP also announced it has named longtime industry executive Marcel Vallen vice president of international sales, along with continued expansion of operations and forthcoming new innovations to help recycling facilities further improve productivity through automation.

“AMP had a strong first quarter of 2020. Revenue is up more than 50%, and our project pipeline continues to grow rapidly due to market adoption of our technology and the value it creates for our customers,” said Matanya Horowitz, AMP founder and chief executive officer. “We also marked a very important company milestone: identifying, sorting, and picking our one billionth piece of material over the last 12 months. This achievement demonstrates the productivity, precision, and reliability of our AI application for the recycling industry. It also represents a meaningful environmental metric in the reduction of greenhouse gas (GHG) emissions by approximately half a million metric tons.”

The ‘one billion’ milestone means that AMP’s technology has specifically targeted and removed one billion individual recyclable items from billions of other materials in the waste stream. This milestone also illustrates the power of the company’s AMP Neuron™ AI platform that uses computer vision and machine learning to recognize different colors, textures, shapes, sizes, patterns, and even brand labels to identify exactly what the material is and whether it is recyclable. Neuron then guides robots to consistently perform sorting tasks more than twice as quickly as humanly possible, with much greater accuracy, and over long durations of time.

AMP’s technology recovers plastics, cardboard, paper, metals, cartons, cups, and many other recyclables that can be reclaimed for raw material processing. For example, the AI platform visually identifies with precision different types of plastics like Polyethylene Terephthalate (PET or PETE), High-Density Polyethylene (HDPE), Low-Density Polyethylene (LDPE), Polypropylene (PP), Polystyrene (PS), sorted further by color, clarity, and opacity, along with different form factors (e.g. lids, tubs, clamshells, cups, and many more).

AMP’s technology can quickly adapt to new container packaging introduced into the recycling stream. And it can swiftly pivot to handle sudden shifts in material volumes, happening now as a result of the pandemic, to recover high-demand materials, like paper, tissue, cardboard, and other packaging. This capability is especially critical as demand and prices for commodities fluctuate, given the role recyclables play in feeding the domestic supply chain for manufacturing.

**Keeping facilities operational with automation**

Recycling has been classified as an essential industry and service by the Department of Homeland Security during the COVID-19 pandemic. The demand for AMP’s AI and robotics technology has accelerated as recycling businesses turn to automation to remove their employees from harm’s way, navigate chronic labor shortages to remain operational, and adapt to spikes in residential volume and material types caused by sudden shifts in consumer buying patterns.

“The pandemic has hit the recycling industry hard, with many facilities struggling to maintain operations and productivity levels amid worker safety concerns, social distancing requirements, and skyrocketing residential volumes,” said Joe Benedetto, president of Virginia-based RDS. “Fortunately, we had already deployed AMP’s robotic systems, which are helping us weather this crisis. We’re fully operational and can handle the heavier volumes of recyclables driven by shelter-in-place orders and rapidly changing consumer behavior. We’re meeting the increased demand for paper and cardboard while protecting our employees and controlling costs.”
Recycling veteran Vallen joins AMP
AMP also named longtime industry executive Marcel Vallen vice president of international sales. In this role, he is responsible for sales and business development efforts in new geographies, establishing and executing a global sales strategy aligning with the company’s growth objectives.

“Welcoming Marcel to the team is key to our strategic growth plans, including in Europe and other international markets,” said Horowitz. “Marcel has a deep understanding of the challenges faced by the recycling industry both domestically and abroad, as well as the opportunities and value created by innovative and technology-driven solutions like ours.”

Vallen brings more than 35 years of recycling and waste management industry experience to AMP. His background spans the design and build of materials recovery facilities (MRFs) to systems commercialization and general management of facilities around the world. Most recently, he served as president and CEO of Komptech Americas and Plexus Recycling Technologies where he was instrumental in bringing the ZenRobotics Recycler robotic waste sorting system to the United States.

“Smarter, more efficient recycling that produces reusable commodities is the future of the industry,” said Vallen. “AMP is at the forefront of helping recyclers modernize and automate their operations with the help of artificial intelligence and robotics, and I’m eager to advance these efforts by driving increased demand for our solutions in new and existing markets.”

Facility expansion sets stage for continued growth, innovation

As part of the company's growth, AMP has added another manufacturing facility in Colorado dedicated to the increased production of its robotic systems. Furthermore, AMP doubled the size of its engineering innovation lab for the development of new AI and robotic applications for the recycling industry. The company is planning the release of a series of new products and performance features in the coming months to help further automate MRFs and make recycling even more efficient and cost-effective.

AMP was on a growth trajectory and scaling its business prior to the pandemic, having raised $16 million in Series A funding in November 2019, led by Sequoia Capital with participation from Closed Loop Partners, Congruent Ventures, and Sidewalk Infrastructure Partners (“SIP”), backed by Alphabet Inc. (NASDAQ: GOOGL).

About AMP Robotics™ Corp.
AMP is applying AI and robotics to help modernize recycling, enabling a world without waste. The AMP Cortex™ high-speed robotics system automates the identification and sorting of recyclables from mixed material streams. The AMP Neuron™ AI platform uses computer vision and machine learning to continuously train itself by recognizing different colors, textures, shapes, sizes, patterns, and even brand labels to identify materials and their recyclability. Neuron then guides industrial robots to consistently perform sorting tasks more than twice as quickly as humanly possible, and with much greater accuracy. The AI platform also creates data transparency and insights on waste characterization and operational performance so recycling facilities can optimize their business and extract the most value from the material stream. With deployments across the United States, Canada, and Japan, AMP’s technology has applications to municipal waste, e-waste, and the recovery of construction and demolition materials. Learn more at www.amrobotics.com.
Mohawk Fine Papers unveils its new portfolio of papers made with hemp, straw, and recycled cotton fiber

COHOES, NY, April 22, 2020 (Press Release) - On the 50th anniversary of Earth Day, Mohawk Fine Papers, Inc., North America’s largest privately-owned manufacturer of fine papers, envelopes, and specialty materials for printing, is unveiling a paradigm-shifting portfolio of papers made with hemp, straw, and recycled cotton fiber. Mohawk’s world-class engineers have devised a process that allows the mill to continue to create the beautiful, high-performance sheets Mohawk is renowned for using rapidly renewable resources. The fibers Mohawk has chosen for its groundbreaking line are all annual crops, which regenerate in a year or less. By using scraps that would’ve otherwise been disposed of, we’re reducing waste and pollution while creating something beautiful.

"The introduction of Mohawk Renewal represents a new chapter in our environmental story," said Chris Harrold, Senior Vice President of Marketing at Mohawk. "We see this as a journey of a thousand steps, and with each step, we make progress toward a more sustainable future."

Always an industry leader in responsible papermaking and energy use, Mohawk was among the first paper companies to experiment with post-consumer recycled fibers in the 1990’s. In the 2000’s, we embraced responsible virgin fiber sourcing, obtained Forest Stewardship Council (FSC) chain of custody certification and became first in our industry to use renewable wind power. Mohawk Renewal grew from a desire to redefine the contours of fiber sourcing by rediscovering legacy materials like hemp, straw, and cotton rag—in essence, looking to the papermaking methods of the past to chart a more sustainable future for the industry.

"Mohawk Renewal is an expression of our ongoing commitment to environmental leadership in our industry and our community," said Melissa Stevens, Chief Revenue Officer at Mohawk. "In developing this portfolio, we have embraced new technology, new supply chains, and new uses for raw materials. We’re proud to take on the risks and challenges of being the first to bring truly sustainable fine paper to market."

The Mohawk Renewal portfolio includes: Hemp Hemp fiber was an agricultural staple in Colonial America, used extensively in the manufacture of fabric, rope, and paper. Then it was outlawed in the 1930’s. Today, depression-era laws have been rolled back and the CBD and cannabis industries are growing rapidly—which means hemp farming is, too. But the infrastructure for its processing is still in its infancy. By driving demand for hemp fiber production, Mohawk is playing a leading role in helping this exceptional material take hold as an everyday resource once again. Our friends in the CBD and cannabis packaging industries have already demonstrated that they are ready to embrace hemp-based papers as a way to amplify their brand messaging and express a commitment to sustainability. Mohawk Renewal Hemp papers are available in three shades, Clean White, Fiber White and Flower. Each shade contains 30 percent hemp fiber blended with post consumer paper waste and/or responsible virgin fibers. These fiber blends give each basis weight the ability to perform across printing processes and end-use applications.

Mohawk Renewal Hemp is available in:

- Two Whites: Clean White + Fiber White
- One Color: Flower, a natural green
- Three Weights: 80 Text, 120 Cover, and 140 Cover
- Smooth and Rough finishes
- Digital and Offset compatible
- Envelopes in A2 and A7 sizes
WHO’S DOIN’ ANYTHING? (CONTINUED)

Straw
Straw is a byproduct of wheat farming that is typically disposed of as waste. Every year, thousands of acres of this rapidly renewable fiber are either burned off or plowed under, contributing to CO2 emission and soil erosion.

Now, that impact is being mitigated by harvesting straw for paper pulp. Mohawk Renewal Straw is made using straw fiber harvested by Columbia Pulp in Eastern Washington, where they have built a new mill to process straw fibers into viable paper pulp. Blended with responsibly sourced wood fibers, Renewal Straw has been engineered to perform on every press platform Mohawk serves today, from letterpress to digital and offset.

Each sheet of Mohawk Renewal Straw tells an origin story. Both Harvest White and Wheat shades take their cue from the 30 percent straw fibers used in each sheet. With subtle fiber inclusions, these papers are unique in the market.

Mohawk Renewal Straw is available in:

- One White: Harvest White
- One Color: Wheat, a golden straw shade
- Three Weights: 80 Text, 120 Cover, and 140 Cover
- Smooth and Rough finishes
- Digital and Offset compatible
- Envelopes in A2 and A7 sizes

Recycled Cotton
Cotton textiles have been recycled to make paper for centuries—in fact, it was the primary paper technology before wood pulp took over. Strong yet soft, cotton fibers make beautiful paper. Mohawk Renewal Recycled Cotton uses two sources for its cotton fiber: white t-shirts and blue denim. By making the most of these waste materials as a new pulp source, Mohawk is taking pressure off landfills while making fine paper with a story.

Both shades of Mohawk Renewal Recycled Cotton are a direct reflection of their input materials. T-Shirt White is unbleached white and pure cotton textile waste, while Denim is made from 30 percent denim thread and 70 percent cotton t-shirt textile.

Mohawk Renewal Cotton is available in:

- One White: T-Shirt White
- One Color: Denim
- Three Weights: 80 Text, 60 Cover, and 120 Double Thick Cover
- Rough finish
- Digital and Offset compatible
- Envelopes in A2 and A7 sizes
WHO’S DOIN’ ANYTHING? (CONTINUED)

ABOUT MOHAWK
Mohawk is North America’s largest privately-owned manufacturer of fine papers and envelopes which are preferred for commercial and digital printing, social stationery and high-end direct mail. Mohawk fine papers and envelopes include the signature brands Mohawk Superfine® and Strathmore®, as well as proprietary treatments Inxwell® and i-Tone®. With a culture of innovation reaching back to its beginning in 1931, Mohawk is committed to providing materials that help make every printed project more beautiful, effective and memorable.

As a leader in environmentally and socially responsible business practices, Mohawk was the first U.S. manufacturer of commercial printing papers to match 100% of its electricity with wind power renewable energy credits and the first U.S. premium paper mill to shift toward carbon neutral production. Many of Mohawk’s recycled and virgin papers are certified by Green Seal and the Forest Stewardship Council (FSC). Mohawk is a fourth-generation, family-owned and operated business based in Cohoes, New York, with global sales and operations located throughout North America, Europe and Asia.

Kadant Fiberline starts up three OCC systems at HeFengTe and LinPing in China

BEIJING, China, April 14, 2020 (Press Release) - Kadant Fiberline (China) Co. Ltd., a subsidiary of Kadant Inc., announced it successfully started up its three OCC systems at HeFengTe in ChaoZhou, GuangDong and LinPing in AnHui, China.

The new OCC line of HeFengTe will have a capacity of 650 bone-dry metric tons per day and will feature the latest technology for the production of 90-130gsm containerboard enabling the mill to operate with low energy consumption and high capacity.

This is the third liner start up within 6 months after Anhui LinPing’s two new PM5/PM6 OCC lines which have been in operation since mid-December 2019 and mid-January 2020. Downtime during Spring Festival is widely seen as LinPing has slowed down its production to tackle weak demand. The two lines have a design capacity of 500,000 tons per year in total. Also, LinPing uses waste paper as raw material and manufactures containerboard from the finished pulp.

“We are pleased to have been selected by HeFengTe and LinPing to supply our matured OCC systems and related equipment for these modernization projects, said Peter Ma, vice president of sales and marketing of Kadant Fiberline China. “Our expertise in the processing of recycled fiber position us well for projects such as this, where product, process, and controls integration are required for maximum uptime, production, and quality. Our growing number of projects is encouraging as customers continue to recognize Kadant products and technologies as highly reliable in demanding applications, such as the processing of recycled fiber.” HeFengTe and LinPing selected Kadant for these projects based on its proven OCC equipment technology and track record of successful rebuilds.

About Kadant Fiberline China
Kadant Fiberline (China) Co. Ltd., is a leading fiber processing and recycling equipment supplier that designs, manufactures, and services equipment used in virgin and recycled paper stock preparation and paper machine approach-flow applications.

Barry-Wehmiller’s BW Papersystems to deliver new precision folio-size sheeter to Minskaya Tipografiya’s folding carton plant in Minsk, Belarus

PHILLIPS, WI, April 15, 2020 (Press Release) - BW Papersystems’ new customer Minskaya Tipografiya in 2020 concluded a contract for delivery of a new precision folio-size sheeter for their packaging production. The 1650 mm wide eCon sheeter will be installed in August 2020.

It is the first sheeter at this plant and is planned to cut coated folding boxboard (FBB), usually ranging between 190 and 350 gsm.
“Minskaya Tipografiya continues to invest in folding carton production,” said Viktor Buriy, Director of Minskaya Tipografiya. "The new sheeter will allow us to establish own in-house sheeting in order to reduce material costs and be more flexible in orders’ execution.

“Combined with a skilled workforce and a committed management team, this new sheeter will improve the plant’s ability to quickly and efficiently deliver folding cartons to our valued customers,” added Viktor Buriy. Established in 1987, Minskaya Tipografiya is one of the largest folding carton plant in Belarus producing cigarette packaging.

Valmet to supply complete mill-wide DNA Distributed Control System to JK Paper’s upcoming board project at Fort Songadh Mill in India

ESPOO, Finland, April 15, 2020 (Press Release) - Valmet will supply a complete mill-wide Valmet DNA Distributed Control System (DCS) to JK Paper Limited for their upcoming board project at Fort Songadh Mill in India. JK Paper selected Valmet’s automation system based on good references in technology, service support and low ownership costs. The installation is scheduled to start by May 2020. The order is included in Valmet’s orders received of the first quarter 2020. The value of the order is not disclosed.

“We are investing in advanced and proven technologies in the mill, with a target to bring high-quality product to Indian market and grow our business further. Valmet is one of our key partners and we are working closely together on the new Coated Board Machine. We are looking forward to continue the cooperation with them on the automation system to bring the mill to a new level,” says S.K. Jain, Head (Packaging Board Project) of JK Paper Limited.

“We are happy to be selected to provide a complete DCS solution to JK Paper. The solution will ensure the customer easier, more efficient and secured operation and maintenance through common operator interface and engineering environment,” says Pravin Tripathi, Head of Sales & Services, Automation, India, Valmet.

Technical details about the delivery

Valmet’s delivery includes the design, engineering, manufacturing, factory acceptance test and installation of Valmet DNA DCS. The mill-wide DCS system will cover the control of paper machine, pulp mill, recovery island and power block sections. All controls are in one platform that allows users easy access the data and collaborate. It will also help in synergizing Valmet Industrial Internet offering for any optimization needs in future.

JK Paper has also placed an additional order for Valmet DNA DCS of Power Block for their Sirpur unit.

Information about the customer JK Paper Limited

JK Paper was established in 1962 with an integrated pulp and paper plant. JK Paper has three large integrated paper manufacturing units, JK Paper Mills, Rayagada, Odisha, Central Pulp Mills, Songadh, Gujarat and Sirpur paper mills, Telangana with a combined annual capacity of 625,000 TPA. It is the market leader in Branded Copier paper segment and leading players in Coated Paper and high-end Packaging Boards in India. It offers a wide premium quality paper and board product range. Subsequent to commissioning of the new Board Machine, the overall production shall increase to 800,000 TPA.

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.
Who’s Doin’ Anything? (continued)

Valmet’s net sales in 2019 were approximately EUR 3.5 billion. Our more than 13,000 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.

**ANDRITZ Brazil to supply DCS checkout and operator training simulator for Bracell’s “project Star” in São Paulo, Brazil**

GRAZ, Austria, April 14, 2020 (Press Release) - ANDRITZ Brasil Ltda., part of international technology Group ANDRITZ, has received an order to supply dynamic simulation solutions for Bracell’s announced expansion project – called “project Star” – for their pulp mill in Lençóis Paulista, SP.

The new mill will have a flexible line designed primarily to produce dissolving pulp. The scope of supply encompasses the dynamic models, DCS checkout, and Operator Training Simulator (OTS). ANDRITZ’s proprietary simulation tool IDEAS will be used to model the following process areas: fiber line, pulp drying machine and recovery boiler supplied by ANDRITZ, as well as the white liquor plant (including biomass gasification) and evaporation plant (including recrystallization) supplied by other vendors.

The simulated models will be used to test and verify process design concepts, identify and correct errors in the control logic, and provide realistic, hands-on training modules for the operators, helping Bracell to achieve a faster and smoother start-up. This proven approach not only reduces plant start-up time. The OTS also provides an ongoing virtual test platform that allows both training of new operators as well as re-testing of experienced operators. Different scenarios are configured within the OTS, such as plant startups/shutdowns and reactions to process upsets.

In addition, the simulator will allow operators to be trained on the core processes in a risk-free environment prior to operating the real plant so they can respond to abnormal operations quickly and effectively once the plant is in full operation.

**ANDRITZ GROUP**

International technology group ANDRITZ offers a broad portfolio of innovative plants, equipment, systems and services for the pulp and paper industry, the hydropower sector, the metals processing and forming industry, pumps, solid/liquid separation in the municipal and industrial sectors, as well as animal feed and biomass pelleting. The global product and service portfolio is rounded off with plants for power generation, recycling, the production of nonwovens and panelboard, as well as automation and digital solutions offered under the brand name of Metris. The publicly listed group today has around 29,500 employees and more than 280 locations in over 40 countries.

**ANDRITZ AUTOMATION**

This ANDRITZ division focuses on automation, electrification, and instrumentation systems, helping mills to release their full potential. It supplies dynamic simulation, patented advanced control solutions and operator training tools with focus on simulation (IDEAS), electrical equipment and controls, operator training, and system optimization (BrainWave, ACE).

**BRACELL**

Bracell is part of Singapore-based RGE. It began operations in Brazil with the acquisition of BSC (Bahia Specialty Cellulose) and Copener (Florestal) in Bahia. In 2018, operations were expanded with the acquisition of Lwarcel Celulose in Lençóis Paulista, São Paulo. This is also the location of the “STAR” project. A global leader in the production of specialty cellulose, Bracell’s operations are supported by the sustainable cultivation of eucalyptus and state-of-the-art factories. The annual installed production capacity is 750,000 tons of pulp, and the company employs almost 7,000 people in two different Brazilian states.

The “Star” project is an ambitious effort by Bracell to expand its production capacity from the current 250,000 tons per year by another 1.25 million tons in order to reach 1.5 million to
WHO’S DOIN’ ANYTHING? (CONTINUED)

AF Pöyry to provide engineering, procurement and construction management services for LD Celulose’s dissolving pulp mill in Brazil

STOCKHOLM, April 9, 2020 (Press Release) - LD Celulose S.A. new dissolving pulp plant will produce 500,000 tons per year. The completion of the project is scheduled for 2022.

LD Celulose S.A., a joint venture between Duratex and Lenzing group, awarded Pöyry, part of AFY, with an EPCM (Engineering, Procurement, Construction Management) assignment for the BOP (Balance of Plant) of the plant that will have the capacity to produce 500,000 tons of dissolving pulp per year and will represent an investment of US $ 1.3 billion. The services provided by Pöyry, part of AFY, include interconnections between all process areas, turbo generators and steam distribution systems, the water cooling center and other complimentary systems.

Pöyry has been working as LD Celulose’s partner already, before the joint venture was formed, being responsible for conceptual and basic engineering development, detailed infrastructure engineering projects, external logistics studies and composing area projects, as well as supporting the project’s environmental licensing process.

Luís Künzel, CEO of LD Celulose S.A. emphasizes that the new dissolving pulp plant will bring a positive socioeconomic impact throughout the region. “Our intention is to benefit the municipalities that comprise the hub, providing opportunities in various sectors. We are committed to working with the best environmental practices, and Pöyry’s expertise and ability to provide sustainable engineering solutions make it the ideal partner to lead this process, from the initial stages of the project” states Künzel.

“We are very proud to have been awarded this important assignment, which reflects the solid evolution of this trusted partnership, and leading solutions for generations to come”, says Fábio Bellotti da Fonseca, President of Pöyry in Brazil.

The LD Celulose new plant will be installed in Duratex’s forest area, located in Triângulo Mineiro (MG), and all production will be destined for exportation, supplying Lenzing group’s operations in Europe and Asia.

About us
Pöyry is an international engineering, design and consulting company. We support our customers to make progress in sustainability and digitalization.

We are part of AFY group with 17,000 devoted experts within the fields of infrastructure, industry and energy, operating across the world to create sustainable solutions for future generations.

Paper Excellence's Northern Pulp to invest in modernizing mill and revitalizing forestry sector in Nova Scotia, Canada

ABERCROMBIE, NS, April 9, 2020 (Press Release) - Northern Pulp Nova Scotia (Northern Pulp) has requested Nova Scotia Environment issue a timely, well-defined, and outcome-based Environmental Assessment process for its proposed Effluent Treatment Facility (ETF) modernization. Northern Pulp is committed to operating in Nova Scotia in an environmentally sustainable manner and contributing to the much-needed economic benefits of a healthy and prosperous community and forestry sector.

"We want to continue to invest and operate in Nova Scotia and are committed to working closer with local governments and residents to coexist like the other 89 pulp and paper mills do in their communities across Canada,” said Graham Kissack, Vice President of Environment, Health & Safety and Communications, Paper Excellence Canada, the owner of Northern Pulp. “A timely, well-defined, and outcome-based Environmental Assessment process is the first step."
WHO’S DOIN’ ANYTHING? (CONTINUED)

Northern Pulp’s request includes an 18-24-month timeline, an expert independent panel for objective review, and specific environmental standards to be achieved. Specifically, the company is requesting the following Environmental Assessment Report processes and guidelines be implemented by Nova Scotia Environment for the proposed ETF:

- The Minister of Environment refer the Environmental Assessment to a provincially led Environmental Assessment Review Panel consisting of individuals with experience in and understanding of the environmental impacts of pulp and paper mill operations in Canada and Canada’s Pulp and Paper Effluent Regulations (PPER). An Environmental Assessment Review Panel is one of the most comprehensive Environmental Assessment processes available.

- The scope of the Environmental Assessment is limited to the proposed ETF as a modification of an existing facility as outlined in the chosen Class I process. The Environmental Assessment is not for a new mill. Restricting the Environmental Assessment to this ETF modification aligns with how a new ETF at the 89 other pulp and paper mills operating throughout Canada would be managed.

- The pre-hibernation operating conditions and ambient environmental data are used as baseline information to compare and evaluate the modernized ETF. Northern Pulp is not currently able to operate until a new ETF is in place, therefore gathering data of an existing operational facility is not possible. Significant scientific research and environmental data was gathered prior to the facility’s hibernation and should be acceptable to providing the necessary baselines.

- The Terms of Reference clearly define the Environmental Assessment guidelines, including the fundamental elements of the physical, biological or socio-economic environment, known as valued environmental components (VECs), to be assessed, the accepted assessment methodologies, and the adverse effects and significant environmental effects to be considered for each VEC.

- The Environmental Assessment factors in and accepts the wealth of existing information from the original Environmental Assessment and subsequent Focus Report for the modernized ETF, monitoring data compiled as part of the decades of Environmental Effects Monitoring (EEM), required as part of Pulp and Paper Effluent Regulations, and third-party studies of our operations and the receiving environment. Acceptance of this research and data will assist in completing any additional research and data-gathering, along with the panel review, in 18-24 months.

Since acquiring Northern Pulp in 2011, Paper Excellence has supported the closure of Boat Harbour. Now the opportunity is to focus solely on a modernized ETF, an environmental improvement to the existing Northern Pulp operations.

The modernization and restart of Northern Pulp would re-establish more than 300 well-paying direct jobs in Pictou County and more than 2,500 forestry sector jobs throughout the province.

AFRY to provide engineering for Norske Skog’s NOK 165 million energy efficiency investment at its Saugbrugs paper mill in Halden, Norway

STOCKHOLM, March 26, 2020 (Press Release) - Norske Skog Saugbrugs Paper Mill will invest a total of NOK 165 million ($15.6 million) in energy-efficient measures at the plant in Halden, Norway. AFRY has signed a contract for detailed engineering of the plant.

The plant has already created one of the world’s most energy-efficient processes for the production of thematic mechanical pulp (TMP) used for magazine paper. These measures will take the company another step towards an even lower energy consumption.
WHO’S DOIN’ ANYTHING? (CONTINUED)

“We want to create a ground-breaking low energy consumption in our fibre production. Saugbrugs will be the benchmark for the industry and with these energy measures, we also want to create good overall profitability at the mill”, says Kjell-Arve Kure, Managing Director of Norske Skog Saugbrugs.
AFRY has already contributed in the pre-study of the technical solutions with its expertise in energy and paper machines and will now be responsible for the detail engineering for process, mechanical, electrical, instrument, building, project and construction management during the implementation phase.
“We are very proud to be part of creating one of the world’s most energy-efficient paper mills and look forward to starting the work immediately”, says Jon Julsen, Director Process Industries, Norway in AFRY. AFRY is an international engineering, design and advisory company. We support our clients to progress in sustainability and digitalisation.
We are 17,000 devoted experts within the fields of infrastructure, industry and energy, operating across the world to create sustainable solutions for future generations.

ABB to provide comprehensive automation and power solution for New-Indy Containerboard’s Columbia PM rebuild in Catawba, SC

WESTERVILLE, OH , March 24, 2020 (Press Release) -New-Indy Containerboard has chosen technology leader ABB to provide the integrated electrical and automation systems and equipment for its Columbia paper machine rebuild in Catawba, South Carolina, USA. The leading supplier of high-quality recycled containerboard for the corrugated box industry is rebuilding its Number 3 paper machine to diversify its product capabilities.
The new technology and equipment being installed by ABB comprises paper machine and winder machine drive systems, ABB AbilityTM System 800xA Quality Control System, ABB AbilityTM System 800xA Open Control System, L&W Autoline for automated paper testing, as well as process motors and power products equipment. The integration of these systems will enable a single view of all production activities to ensure the highest levels of process efficiency, product quality, power stability and equipment reliability.
“The acquisition of the Catawba Mill and additional investment in its infrastructure will establish one of the most diverse and efficient mill operations in the industry,” said Rick Hartman, Chief Operating Officer for New-Indy. “We are excited about the prospects for this mill and the opportunity to supply lightweight kraft linerboard to the industrial packaging marketplace. Our investment in the Catawba Mill will further strengthen our strategy to be the best company at serving the increasing needs of our customers.”
“Our long and successful history of working closely with both New-Indy’s corporate leadership and teams from each of their mills, as well as our ability to deliver and consult on customized systems with the latest technologies and services, were crucial factors in winning this order,” said Jim Fisher, US local business manager, Process Industries for ABB.
New-Indy is a joint-venture that was formed in 2012 by the Kraft Group and Schwarz Partners, LP, two family-owned companies with long histories in paper and packaging. Today, New-Indy operates three recycled brown paper mills and eight packaging facilities throughout the United States. The Catawba Mill acquisition represents a continuation of New-Indy’s investment in growing the venture through the acquisition of strategic and synergistic companies in the paper and packaging industry.
ABB is a technology leader that is driving the digital transformation of industries. With a history of innovation spanning more than 130 years, ABB has four, customer-focused, globally leading businesses: Electrification, Industrial Automation, Motion, and Robotics & Discrete Automation, supported by the ABB Ability™ digital platform. ABB’s Power Grids business will be divested to Hita
WHO’S DOIN’ ANYTHING? (CONTINUED)

ANDRITZ successfully starts up world’s first biomethanol plant using its A-Recovery+ concept at Södra Cell Mönsterås pulp mill in Sweden

GRAZ, Austria, March 23, 2020 (Press Release) - International technology group ANDRITZ has recently started up the world’s first biomass-converted plant using ANDRITZ’s self-developed A-Recovery+ concept at the Södra Cell Mönsterås pulp mill in southeastern Sweden. The plant has an annual production capacity of 6.3 million liters of biomethanol from forest biomass. The fossil-free biomethanol can be used for applications in the pulp mill itself, or as a substitute for fossil-based methanol in the transport sector (biodiesel) and as a chemical base substance. The ANDRITZ delivery to Södra included proprietary process design and full EPC delivery, excluding automation, instrumentation, electrification and civil works.

The A-Recovery+ concept from ANDRITZ delivers commercial grade biomethanol by using a patented extraction process. It offers next-generation solutions for the chemical recovery cycle of pulp mills, with the target of utilizing the pulp mill side streams to the maximum extent possible. In addition to biomethanol production, A-Recovery+ also produces sulfuric acid from odorous gases and recovers lignin for the production of high-quality lignin to be used in advanced bioproducts. With this first ever fossil-free biomethanol plant worldwide, ANDRITZ is strongly supporting Södra’s ambitions to make its operations entirely fossil-free and be climate-positive by the end of this decade. To achieve this aim, Södra is aiming at eliminating fossil fuel use throughout its operations and producing innovative products that replace fossil-based raw materials.

ANDRITZ GROUP

International technology group ANDRITZ offers a broad portfolio of innovative plants, equipment, systems and services for the pulp and paper industry, the hydropower sector, the metals processing and forming industry, solid/liquid separation in the municipal and industrial sectors, as well as animal feed and biomass pelleting. The global product and service portfolio is rounded off with plants for power generation, recycling, the production of nonwovens and panelboard, as well as automation and digital solutions offered under the brand name of Metris. The publicly listed group today has around 29,500 employees and more than 280 locations in over 40 countries.

ANDRITZ PULP & PAPER

ANDRITZ Pulp & Paper provides equipment, systems, complete plants and services for the production of all types of pulp, paper, board and tissue. The technologies and services focus on maximum utilization of raw materials, increased production efficiency and sustainability as well as lower overall operating costs. Boilers for power production, flue gas cleaning plants, plants for the production of nonwovens and panelboard (MDF), as well as recycli

ABB to replace dry end drive system with its Ability system 800xA at WestRock's mill in Longview, WA

WESTERVILLE, OH, March 17, 2020 (Press Release) - WestRock Company a leading provider of differentiated paper and packaging solutions—has selected ABB to replace its dry end drive system. This includes upgrades to its PM12 paper machine drives, motors and the installation of the ABB Ability™ System 800xA control system at its mill in Longview, Washington, USA. Installation and commissioning of the project is planned for completion by year-end 2020.

“ABB was chosen for this project based on the customer’s positive experience with our drives systems at its Longview mill and other WestRock sites,” said Steve St. Jarre, Head of Business Development, Pulp and Paper, Process Industries, ABB. “We were able to provide a cost-effective, phased approach to this upgrade project. We set up a new 800xA system to control both existing and new drives. The existing drives can be replaced as needed and use the same control platform as the mill evolves.”
**WHO’S DOIN’ ANYTHING? (CONTINUED)**

The new ABB drive system will have a smaller footprint and require minimal parts. The modular drives are extremely compact, but with all of the parts easily accessible. This not only reduces interruption to production for planned and unplanned maintenance, but also reduces spare part inventories.

"With our aim of improving reliability and productivity, without the need for extensive downtime during installation, ABB offered a practical approach to achieve our goals," said Rick Siragusa, Project Manager at WestRock. "We look forward to moving forward with the replacement."

WestRock partners with customers to provide differentiated paper and packaging solutions that help them win in the marketplace. WestRock’s 45,000 team members support customers around the world from more than 300 operating and business locations spanning North America, South America, Europe, Asia and Australia. Learn more at [www.westrock.com](http://www.westrock.com).

ABB is a technology leader that is driving the digital transformation of industries. With a history of innovation spanning more than 130 years, ABB has four, customer-focused, globally leading businesses: Electrification, Industrial Automation, Motion, and Robotics & Discrete Automation, supported by the ABB Ability™ digital platform. ABB’s Power Grids business will be divested to Hitachi in 2020. ABB operates in more than 100 countries with about 144,000 employees.

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**Toscoltec-supplied tissue machine started up by Picknik Marketing at its mill in Johannesburg, South Africa**

LUCCA, ITALY, March 12, 2020 (Press Release) - South African tissue manufacturer Picknik Marketing Pty Ltd started up a MODULO-PLUS tissue machine supplied by Toscoltec at its Johannesburg mill. The new line produced high quality tissue from day one.

The MODULO-PLUS machine has a sheet width of 2,750 mm, an operating speed of 1,500 m/min, and a production capacity of 75 t/d. It features a second-generation TT SYD Steel Yankee Dryer and energy-efficient, gas-fired TT Hood. The supply also includes the stock preparation and approach flow equipment and an off-line shaft puller. The service package includes erection supervision, commissioning, start-up assistance and training.

Itzik Nikfard and Rafi Nikfard, Directors of Picknik Marketing Pty Ltd, say, “This project marks a key expansion phase for our company. Due to the success of our SnowSoft brand, we are expanding our presence in the regional market, and are determined to continue on this trend by investing in advanced technology. Toscoltec’s machinery will sustain our future growth by delivering the tissue quality and production efficiency we need to succeed in South Africa.”

“We are very happy to have partnered on this new project with Picknik Marketing, who is one of the most important local producers in South Africa”, says Toscoltec Area Sales Manager Matteo Giorgio Marrano, “The successful start-up of this line is the result of the close cooperation between our technical teams. Toscoltec thus strengthens its position in the South African market, where we successfully installed three complete tissue lines and one major rebuilding project since 2017.”

**About Picknik Marketing Pty Ltd**

Established in 1999, Picknik Marketing Pty Ltd manufactures high quality tissue products including toilet paper, serviettes, paper towels, facial tissue under the brand SnowSoft and wadding-jumbo rolls.

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**Andritz to supply largest pressurized refining system for Guangxi Guoxu’s MDF production line in Wuzhou, China**

GRAZ, Austria, March 9, 2020 (Press Release) - International technology Group ANDRITZ has received an order from Guangxi Guoxu Group Co., Ltd. to supply a pressurized refining system for their MDF production line in Wuzhou City, Guangxi Province. This will be the largest system ever installed in China, with a capacity of 45 bdmt/h and including an S2064M refiner. Start-up of the equipment is scheduled for the end of 2020.
WHO’S DOIN’ ANYTHING? (CONTINUED)

The proven ANDRITZ equipment will process 60% eucalyptus and 40% pine and hardwood as raw materials. Its state-of-the-art design ensures best fiber quality at very low energy demand. The ANDRITZ refiner supplied is characterized by its long-lasting and proven bearing design, with many successful references around the globe.

The exceptional technological solutions proposed by ANDRITZ as well as the well-established service availability of ANDRITZ in China, with a service and spare part hub located in Foshan, were key in awarding the order to ANDRITZ.

“This project aims at the high-end fiberboard market, which requires excellent fiber quality. ANDRITZ has a globally leading position in fiber preparation and a strong market share. In this project, ANDRITZ introduced the advanced concept of pulping and papermaking into fiber preparation, and we believe that it will take the industry to a higher level in fiber quality and energy savings. We hope to work closely with ANDRITZ to become the benchmark in the industry and provide society with high-end fiberboard products,” says Li Xiaobo, General Manager of the Gouxu Group. “ANDRITZ refiners have a high market share in the world’s wood-based panel industry. We trust in their technology, products and services,” adds Vice General Manager Li Yongqiang.

This order once more demonstrates ANDRITZ’s strong position in the Chinese panelboard industry, with more than 170 references.

The Guoxu Group, headquartered in Nanning, is one of the largest wood-based panel industry groups in China, integrating R&D, production and sales of wood-based panels, and operates seven production sites in China.

ANDRITZ GROUP

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ANDRITZ PULP & PAPER

ANDRITZ Pulp & Paper provides equipment, systems, complete plants and services for the production of all types of pulp, paper, board and tissue. The technologies and services focus on maximum utilization of raw materials, increased production efficiency and sustainability as well as lower overall operating costs. Boilers for power production, flue gas cleaning plants, plants for the production of nonwovens and panelboard (MDF), as well as recycling and shredding solutions for various waste materials also form a part of this business area.
Georgia-Pacific reinvesting $15 million in Camas, WA, tissue mill two years after office paper shut

CAMAS, WA, Feb. 28, 2020 (Local News) - A little more than two years after Georgia-Pacific (GP) announced a major restructuring that eliminated close to 300 positions, closed the “Roaring 20” office paper line and shuttered pulp operations at the Camas paper mill, the company says it is reinvesting in the local manufacturing plant.

GP officials told its 150 Camas employees last week that the company is investing $15 million in capital improvements to make the remaining paper towel line more competitive and the plant itself more environmentally sustainable.

“The approval of these key projects is great news and I want to thank our 150 team members for their hard work and dedication this past year,” Shawn Wood, vice president and manager of the Camas mill, stated in a news release.

Camas Post Record - Georgia-Pacific reinvesting in Camas paper mill

Fastmarkets RISI is not responsible for the reliability or availability of content on external websites.

The new ISACConnect is getting very close to being released to all ISA members; and it looks to be a great networking tool for everything ISA! It will be a lot easier to find technical resources than the current ISA microsite. You can click on the “ISACConnect” logo directly below to take you to it:
### 2020 ISA Pulp & Paper Industry Division Calendar

| M       | T       | W       | T       | F       | S       | S       | M       | T       | W       | T       | F       |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| **JAN** | 28      | 29      | 30      | 31      | 1       | JUL     | 1 JUL   | 27      | 28      | 29      | 30      | 31      | 32      | 33      |
|         |         |         |         |         | 1 New Year's Day | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      |
|         | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 13      | 14      | 15      | 16      | 17      |
|         | 11      | 12      | 13      | 14      | 15      | 16      | 17      | 18      | 19      | 20      | 21      | 22      | 23      | 24      |
|         | 25      | 26      | 27      | 28      | 29      | 30      | 31      | JUL     | 4       | 5       | 6       | 7       | 8       | 9       |
| FEB     | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 13      | 14      |
|         | 15      | 16      | 17      | 18      | 19      | 20      | 21      | 22      | 23      | 24      | 25      | 26      | 27      | 28      |
|         | 29      | 30      | 31      | SEP     | 10      | 11      | 12      | 13      | 14      | 15      | 16      | 17      | 18      | 19      |
| MAR     | 14      | 15      | 16      | 17      | 18      | 19      | 20      | 21      | 22      | 23      | 24      | 25      | 26      | 27      |
| APR     | 29      | 30      | 31      | 32      | 33      | 34      | 35      | 36      | 37      | 38      | 39      | 40      | 41      | 42      |
|         | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 13      | 14      | 15      | 16      | 17      |
|         | 11      | 12      | 13      | 14      | 15      | 16      | 17      | 18      | 19      | 20      | 21      | 22      | 23      | 24      |
|         | 14      | 15      | 16      | 17      | 18      | 19      | 20      | 21      | 22      | 23      | 24      | 25      | 26      | 27      |
| MAY     | 25      | 26      | 27      | 28      | 29      | 30      | 31      | OCT     | 18      | 19      | 20      | 21      | 22      | 23      |
|         | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 13      | 14      | 15      |
|         | 9       | 10      | 11      | 12      | 13      | 14      | 15      | 16      | 17      | 18      | 19      | 20      | 21      | 22      |
|         | 19      | 20      | 21      | 22      | 23      | 24      | 25      | 26      | 27      | 28      | 29      | 30      | 31      | 32      |
|         | 23      | 24      | 25      | 26      | 27      | 28      | 29      | 30      | 31      | 32      | 33      | 34      | 35      | 36      |
| JUN     | 23      | 24      | 25      | 26      | 27      | 28      | 29      | 30      | 31      | 32      | 33      | 34      | 35      | 36      |
|         | 30      | 31      | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      | 11      | 12      |
|         | 6       | 7       | 8       | 9       | 10      | 11      | 12      | 13      | 14      | 15      | 16      | 17      | 18      | 19      |
|         | 13      | 14      | 15      | 16      | 17      | 18      | 19      | 20      | 21      | 22      | 23      | 24      | 25      | 26      |
|         | 20      | 21      | 22      | 23      | 24      | 25      | 26      | 27      | 28      | 29      | 30      | 31      | 32      | 33      |
| JAN     | 24      | 25      | 26      | 27      | 28      | 29      | 30      | 31      | 1       | 2       | 3       | 4       | 5       | 6       |

- **ISA Div** due
- **ISA Sect** Q2 Report due
- **ISA Div** due
- **ISA Sect** Q1 Report due
- **ISA Div** & Sect Leader Reports due
- **ISA Div** & Sect Leader Reports due
- **ISA Div** due
- **ISA Div** due
- **ISA Div** due
DIRECTOR’S MESSAGE  
BY RONALDO NEVES RIBEIRO,

I hope that everyone is healthy and dedicating part of their time to take care of their family members in the face of the pandemic in which we are living.

The Pulp and Paper sector, as it was considered essential for human activities, had the privilege of maintaining its operations during the COVID-19 pandemic, although many projects were paralyzed, the sector remains active and it was not necessary to reduce its employees. Many changes were necessary, many adaptations to meet WHO (World Health Organization) recommendations. For the messages that I have followed the actions taken by the P&P companies are guaranteeing the safety and health of their workers.

For the resumption of the “new normal”, good strategic planning will be necessary because many changes will be necessary, leaders will have to assess the current stage of operation of the plants and administrative sectors, and design the new operational models, for this, they will need to take consensual actions with their peers and make use of new technologies in order to improve processes, this is a great opportunity to promote digital transformation in companies, don’t miss it.

To inform you about the activities of the ISA PUPID Division, I refer you to some actions performed by the Directors in the last three months.

Two conference call (February and March / 20) between Directors Brad Carlberg and Ronaldo Ribeiro, to discuss PUPID planning matters.

Conference call: Joint A&T and I&S Division Leader Meeting organized by Andrea Holovach in 04/10/20

More than 42 e-mails were exchanged between the directors in Q1, in the field of important matters for PUPID.

PUPID has regularly published new quarterly Newsletters on https://www.isa.org/division/pupid/

The ISAPUPID received the enrollment of 3 candidates for the scholarship and the directors chose Mr. Andrew Jamison McCabe of Western Michigan University for this opportunity.

Director Ronaldo Ribeiro was honored by graduates of Mechanical Engineering and Chemistry in February/2020, by UNILESTE-MG (Centro Universitário do Leste de Minas Gerais). He acts as the main professor of the disciplines Instrumentation and Process Control.

- Director Ronaldo Ribeiro was fourth in the IT Executive award of the year on March 17 in the category Chemicals, petrochemicals, oil and gas, plastics, rubber, paper and pulp. The awards took place in São Paulo, Brazil and was moved by ITMidia Institute.  
  

Two events:

1. Mr. Pat Dixon represented PUPID at the ISA SLM in Austin
2. Division Leaders Teleconference - Joint A&T and I&S Division Leader Meeting

Mr. Andre Kakehasi the ISAs Membership Chair is currently the coordinator of the Technical Commission for Automation and Process Control of ABTCP (Brazilian Technical Association of Pulp and Paper).

Reinforcing process about importance of ABTCP association and ISA membership during meeting and webinar based on benefits, strength of community and automation development.

Support at definition of new Automation course structure of ABTCP.

Mr. our Membership Chair Andre Kakehasi has participated at ABTCP automation technical commission meeting.

Our Membership Chair André Kakehasi is an active member of the ABTCP Process Automation and Control Committee and regularly participates in coordinating committee meetings.

Plans for next 3-6 months:

- ABTCP Automation technical commission meeting – September 25th;
- Pulp and Paper automation roadmap project planning. Evaluate the feasibility.

Thank you for being associated with ISA and being part of the Pulp and Paper Division. I wish everyone success in the actions taken during the COVID-19 pandemic.

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Ronaldo Neves Ribeiro  
ISA PUPID Director  
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'Grandes ideias passam pelo papel, um produto reciclável que vem de florestas plantadas.'
'Great ideas go through paper, a recyclable product that comes from planted forests.'
WEBINAR

Do We Need an Industry 4.0 Lexicon?

Pat Dixon, P.E., PMP, President, DPAS-INC

The webinar was originally streamed live by TAPPI's PIMA Management Division

On Tuesday, April 29, 2020

and the link to the recorded webinar video is at

Pat Dixon has been in the industrial automation industry since 1984. He graduated from Miami University in 1987 with a degree in Pulp and Paper Science and Engineering. Pat is a licensed professional engineer in four states, certified project manager (PMP) and President of DPAS-INC, a consulting/contracting firm providing industrial automation and project management services.

Pat has been the Education Chair of the ISA Pulp & Paper Industry Division (PUPID) since 2010 where he has been responsible for managing the PUPID Scholarship.

For the marketplace to have a clear understanding of buzzwords used to describe capabilities and what is being offered in the realm of Industry 4.0, PIMA IT Infrastructure SIG intends to provide clarification to ensure the industry knows what is being provided when someone offers these capabilities.

Advantages:

• Facilitate better discussion in industry (mitigate confusion)
• Ensure that investments yield the expected results
• Refer to the standard in contracts
2020 PUPID SCHOLARSHIP WINNER:
Meet Andrew Jamison McCabe

The ISA Pulp & Paper Industry Division is pleased to award the 2020 $2000 PUPID Scholarship to Andrew Jamison McCabe from Western Michigan University in Kalamazoo, Michigan. As a member of the University’s Honors Program and with a GPA of 3.79, Andrew is a junior pursuing a Bachelor of Science in Paper Engineering, Chemical Engineering, and Applied Mathematics.

Andrew says he’s proud to have learned so much from them and continues to do so. His Father, Mike, works at CHEP pallets as team lead for US Customer service division, and Mother, Kathy, works at Advantage Solutions as team lead to the Consumer Healthcare division. His brother, Ben, works at Martin Transportation as a trucking dispatcher. Andrew says that he and Ben bond over working on their cars such as his 1969 short-bed Chevy truck. Andrew is a 2016 graduate of Hudsonville High School in Hudsonville, Michigan; located just fifty miles north of Kalamazoo. Andrew says that although he has lived in CA, NJ, OH, MI, and WI in total; he considers Hudsonville and Kalamazoo his homes anywhere he goes though.

As a student in the Chemical and Paper Engineering Department at Western Michigan University he says he has been fortunate to participate in many extracurricular activities. Within the college of engineering he has found many unique opportunities through the student organization, the Sunseeker Solar Car team. On this team, as a member of the solar sub-team, he has been able to apply for the Student Sustainability Grant, rebuild the rear array for the 2016 car, successfully race in the 2019 Formula Sun Grand Prix (while achieving 5th out of over 25 teams), and teach new team members about the ethylene-vinyl acetate process and the soldering processes necessary to make useful solar panels.

Elsewhere on campus Andrew participates in many activities, programs, and jobs the Office for Sustainability hosts. These include being a 18-19’ sustainability fellow in the historic Gibbs House, creating a Student Sustainability Grant funded woodworking course that has brought in and taught over 50 students about woodworking as a useful form of sustainability, as well as helped host many other community events or activities such as fun nights and potlucks. Additionally, he is a member of the WMU chapter of Pi Mu Epsilon. This serves as the math club for campus. Here he has given a talk on an approximate set of models for predicting the growth of trees in a forest in several types of situations such as fires or clear cuts. These models differ in being based on difference and differential equations, respectively.

Within the Paper Engineering student organization on campus, Tsai-Lun, he serves as the treasurer and have successfully aided their group in receiving $5,000+ from funding sources around campus. In this role he has also been a speaker and mentor to first-year paper students and has helped lead trips to Wisconsin and Atlanta for two separate field trips.

Andrew’s other scholarships include:

- Colonel Charles E. Bayliss Scholarship (2019 – Present)
- TAPPI Process Control Scholarship Recipient (2019)
- Haenicke Institute Scholarship Recipient (2018)
- Paper Technology Foundation Endowed Scholarship Recipient (2016 – Present)
- WMU CAES Scholarship (2016 – Present)

Andrew goes on to say that since his time at OMT-Veyhl he has recognized his wish to expand his care and intention with coworkers. It is here that he was fortunate to work closely with large industrial equipment for the first time, solidify his intrigue in industry, but also to work closely day-to-day with numerous devoted people. From here he says that he was fortunate to be able to
work closely with several crews while on co-op in Rhinelander, WI. After this first co-op there, he was offered and took the opportunity to work as a shift supervisor for 6 more months before returning to school. During this time, he discovered some of the most important things about communication and teamwork that no other experience could afford him. At 3 am and without anyone else around is when he had some of the best talks and hardest learning curves. It is from here that he learned that he cherishes time with machine crews and that he wishes to work with them in some fashion for the extent of my career.

Andrew is interested in being able to understand the control systems such as those made by MeasureX, Honeywell, Rockwell, Voith, Valmet, and any other systems in the paper industry. He says he sees these as gateways to be able to build control systems and likely will pursue a future degree in electrical engineering so that he may better understand how to work with the electronic behind the scenes.

Andrew has accepted a co-op position with Wieland Construction in Kalamazoo, MI and will be helping them build the new Graphic Packaging International machine. Once this co-op finishes, he hopes to be hired on fulltime and complete the construction of the machine as well as the startup.

"Castillo de San Felipe de Lara" from across Lake Izabal in Guatemala where Andrew stayed at a rubber plantation called "La Finca" (literally 'the farm'). US states he has discovered many great memories with friends that center around backpacking, camping, and learning about new cultures. As for physical activity Andrew greatly enjoys rock climbing, hiking, running and plant identification. He says his favorite vacations stem around being outdoors and learning how our natural world came to be. While not able to vacation, he says he really enjoy building, welding, electrical work, and fine woodworking.

THE 2020 ISA ELECTION WILL START JUNE 2.
DON’T FORGET TO VOTE!

The slate of candidates for the 2020 ISA Election are set and the election will open June 2. The positions open in are as follows.

- President-elect Secretary (2022 President)
  - Mark Arkell
  - James Haw
  - Carlos Mandolesi

- Treasurer
  - Scott Reynolds

- Executive Board
  - Geographic Experience (2 seats)
    - Greg Lehmann
    - Rajesh Rathi
    - Ashley Weckwerth
  - Operational Experience (1 seat)
    - Jim Garrison

- Technical Experience (1 seat)
  - Ken Belteau
  - Prabhu Soundararajan

- Automation & Technology Vice President
  - Edward Naranjo

- Image & Membership Vice President-elect
  - Jon DiPietro

- Standards & Practices Vice President-elect
  - David Lee
**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 &amp 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/](http://www.isa.org/pupid/), select "Link to the PUPID email LISTSERV" in the pick box, click "Join", and enter you email address and a password.

**ISA Member Benefits**

ISA members receive benefits such as the Latest Technical Information, Professional Development Resources, Networking Opportunities, Special Bonus for Student Members, Insurance Program for Independent Contractors and Business Owners, and other personal privileges. Go to [http://www.isa.org/membership/membership-benefits/](http://www.isa.org/membership/membership-benefits/) to see specific benefits.

**ISA PUPID Calendar**

Get a quick overview of ISA PUPID events by going to the Calendar at:  
[https://www.isa.org/division/pupid/events/](https://www.isa.org/division/pupid/events/)
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!

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”!

ISA CONFERENCES / SYMPOSIA

AUG 16
AIChE Spring Meeting and 16th Global Congress on Process Safety
Sunday – Thursday, August 16 – 20, 2020

APR 27
2020 ISA IIoT & Smart Manufacturing Conference
Tuesday, 27 - 29 Apr 2021

APR 18
ISA Analysis Division Symposium
Apr 18 – 22, 2021

AUG 17
ISA Energy & Water Automation Conference
August 17 – 19, 2021

NOV 9
ISA Process Industry Conference
November 9 – 11, 2021
CCST Answer
The correct answer is B. "DeviceNet." Foundation Fieldbus (FFB), Actuator-Sensor Interface (AS-i), and Highway-Addressable Remote Transducer (HART) instrument bus networks all operate over a single pair of wires. The power for the transmitter and the communication signal are both carried over that single pair of wires. DeviceNet requires a separate pair of wires for power and signal, with an additional shield/ground wire. DeviceNet, then, typically requires five conductors (two pairs and a shield/ground).


CAP Answer
The correct answer is B. "It helps to measure program effectiveness and areas for improvement." The intent of training is to have all participants apply the knowledge and skills they learn from training to their jobs. Evaluation helps to determine what final outcomes occurred because of attendance and participation in the training. It also helps to determine how to improve the training when the learning experience has fallen short.

SOLUTION TO THE TUNING TIP

1. C

Answers A & B are incorrect because we do not want to make any functional changes by operating personnel or while operating. Answer D is incorrect because we don't want to allow PID control in the burner management system. So, by process of elimination, answer C is the only answer that could be correct because decrease space requirements and cost to implement more complex logic would be permissible.


2. D

Answer D, a hard wired normally closed contact to deenergize a fuel trip relay, is the only possible answer because the question says the burner management system manual emergency shutdown shall be accomplished by a hard wired device answers. Answers AB&C are all incorrect because those are all PLC inputs, irregardless of whether they are normally-open or normally-closed contacts.


3. D

Answer A is incorrect because the FD fan only trips if the furnace pressure goes high but in reality the furnace trip FD fan trips if the furnace pressure goes high or low

Answer B is incorrect because there's no 10 second time here on the FD fan pressure furnace pressure high and low

Answer C is incorrect because there is no 10 second timer on the drum level low

Answer E is incorrect because the 10 second timer is not on the drum level everything else is extraneous

Show by the process of elimination answer D is the only correct answer

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**Standards & Practices**
Vacant

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