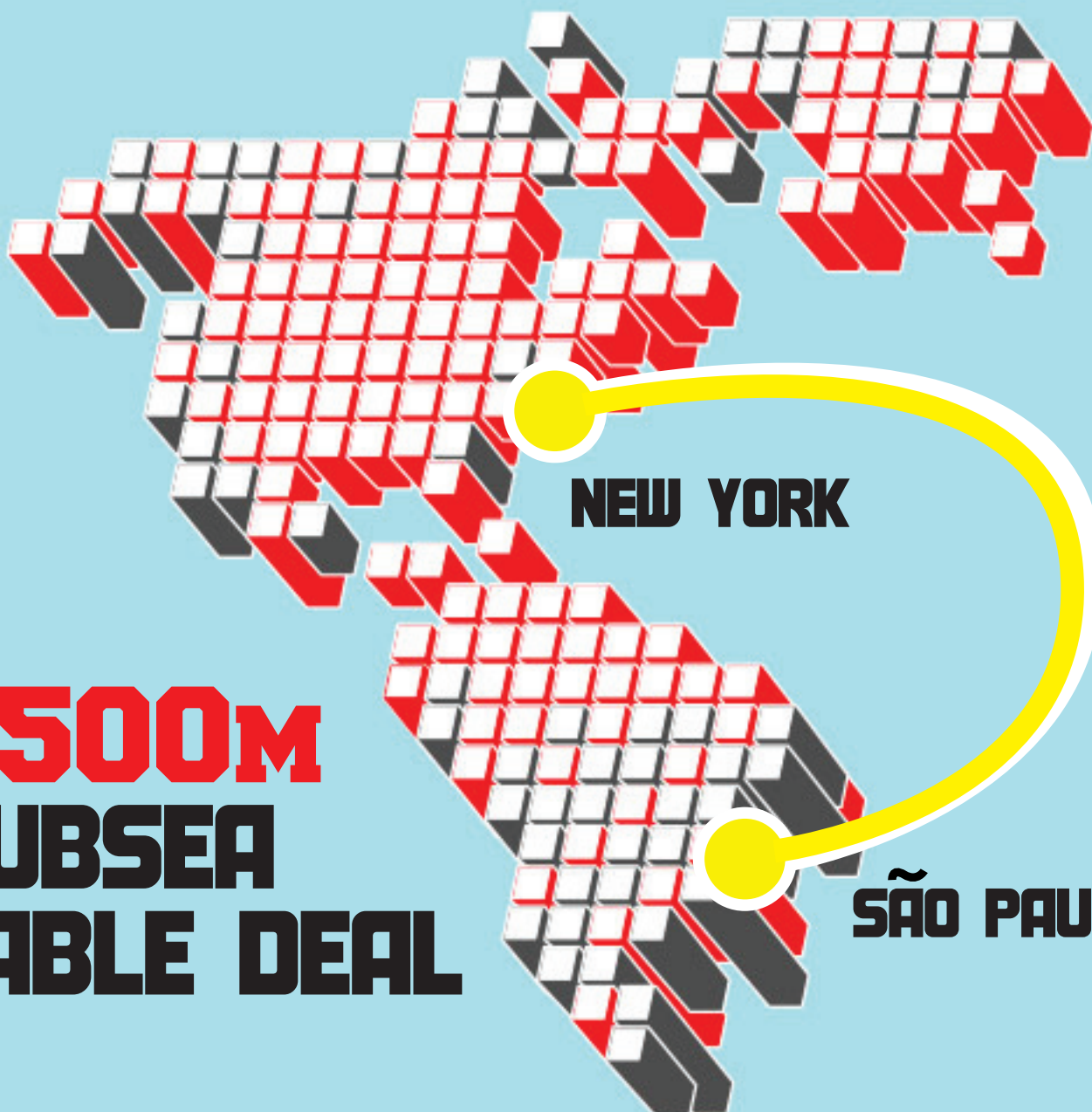


Digital .
Networking .
Monthly .

wiredIn
USA

February 2015 issue - No 44

www.wiredinUSA.com



\$500M
SUBSEA
CABLE DEAL

NEW YORK

SÃO PAULO



INTERWIRE
TRADE EXPOSITION

A meeting this productive shows up every other year.

GEORGIA WORLD CONGRESS CENTER | ATLANTA, GEORGIA, USA

Industry leaders are following www.Interwire15.com for details on the largest wire and cable meeting place and marketplace in the Americas. Decidedly the most valuable use of your time...until 2017.

WIRE & CABLE MAKING MACHINERY | LIVE DEMONSTRATIONS | SUPPLIES & EQUIPMENT | NEW TRENDS & PRODUCTS | GLOBAL NETWORKING | EDUCATIONAL FOCUS: DUST CONTROL, RAW MATERIALS, PROCESSING, APPLICATIONS, RECRUITING & RETENTION, MANUFACTURING WORKSHOP | PLANT TOUR: SOUTHWIRE SCR | ALSO WITH WAI'S 2ND GLOBAL CONTINUOUS CASTING FORUM

- CORPORATE SPONSORS: PLATINUM** | SONOCO REELS AND SPOOLS • WIRE & PLASTIC MACHINERY CORP.
GOLD | CONTINUUS-PROPERZI S.P.A. **SILVER** | BASF • CARRIS REELS INC. • GEM GRAVURE CO. INC. • NEXANS • NIEHOFF ENDEX NORTH AMERICA • SIKORA INTERNATIONAL CORP. **BRONZE** | RICHARDSAPEX INC.
SUPPORTING SPONSORS: BAUM'S CASTORINE CO. • CHEMSON • COMMISSION BROKERS INC. • HERITAGE WIRE DIE • LLOYD & BOUVIER INC.

 The Wire Association International, Inc. | TELEPHONE: (001) 203-453-2777 | WWW.WIRENET.ORG

#44 EDITOR

One of the fastest-growing transoceanic routes has received a \$500m shot in the arm with the news that Partners Group is investing in the construction of Seabras-1 project – the first direct subsea fiber optic cable between New York, USA, and São Paulo, Brazil.

The link, expected to be operational within two years, has already sold substantial capacity. Full details are on page 9.

String manufacturer D'Addario is hitting the right note after introducing New York Steel to its EXP acoustic strings and banjo sets. The company has re-engineered the wire drawing and manufacturing process into a new steel wire mill adjacent to its string facilities in Farmingdale, New York. Full story on page 14.

And it's three cheers for Allied Wire & Cable, one of six recipients recognized for on-going support and contribution to the community. The company actively support non-profits and community-focused enterprises. Read the full story on page 16.

David Bell
Editor

PAGE
06

PAGE
09

PAGE
26

PAGE
32

PAGE
34

PAGE
40

CONTENT

#44 FEBRUARY
2015 ISSUE

SHOW DIARY / 2015 and 2016

MAKING THE NEWS / Industry news from the USA

EUROPE NEWS / The latest news from Europe

INDUSTRY TRADE ASSOCIATION / Spotlight on awards, education and events

ASIA & AFRICA NEWS / The latest news from Asia & Africa

PRODUCTS, MACHINES AND TECHNOLOGY / The latest news from machine industries

NEWS

Editor
David Bell
david@wiredinusa.com

Features Editor (USA)
Dorothy Fabian

Features Editor (Europe)
Gill Watson

Publisher
Caroline Sullens

INTRAS OFFICES

Europe:
46 Holly Walk, Leamington Spa
Warwickshire CV32 4HY, UK
Tel: +44 1926 334137
Fax: +44 1926 314755
Email: read@wiredinusa.com
Website: www.wiredinusa.com

USA:
Danbury Corporate Center,
107 Mill Plain Road,
Danbury, CT 06811, USA
Tel: +1 203 794 0444
Email: doug@intras.co.uk

**SALES & MARKETING
(INTERNATIONAL)**

Sales Manager
Jason Smith
jason@wiredinusa.com
+44 1926 834 684

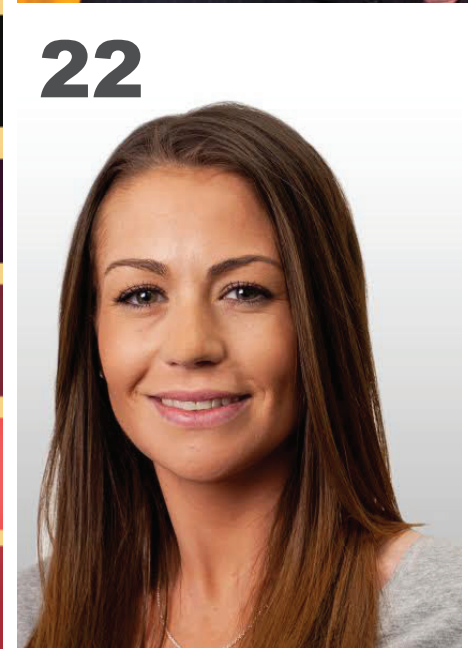
Accounts Manager
Julie Case
juliecase@intras.co.uk



© 2015 Intras Limited UK
ISSN 2046 - 9497
Publishers of Eurowire and
Wire & Cable ASIA magazines



16



22



24



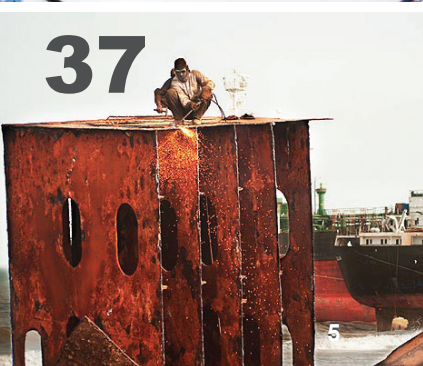
43



30



29



37

DIARY SHOW EVENTS

2015

MARCH

23-27 March 2015
NPE2015
Orlando, Florida, USA
Exhibition
www.npe.org

APRIL

28-30 April 2015
Interwire 2015
Atlanta, Georgia, USA
Exhibition
www.wirenet.org

MAY

12-15 May 2015
wire Russia
Moscow, Russia
Exhibition
www.wire-russia.com

SEPTEMBER

15-17 September 2015
wire Southeast Asia
Bangkok, Thailand
Exhibition
www.wire-southeastasia.com

OCTOBER

6-8 October 2015
wire South America
São Paulo, Brazil
Exhibition
www.wire-south-america.com

2016

APRIL

4-8 April 2016
wire Düsseldorf
Düsseldorf, Germany
Exhibition
www.wire.de



Measure & Control
Instruments



OPTICAL FIBRES Measurement Instruments

In line data collection,
display, record and report

CIM PC software:



LIS-Glass:

Laser Interferometric Sensor

- Diameter repeatability: $\pm 0.005\mu\text{m}$ at 50kHz
- Diameter uncertainty: $\pm 0.15\mu\text{m}$
- Defect detection 75kHz, event recording
- Ultra fine air line detection, $0.3\mu\text{m}$, 400Hz
- Fibre position: $\pm 2\text{mm}$ range $\pm 0.1\text{mm}$, 1kHz
- Spinning frequency profile
- Fibre no circularity measurement

NCTM:

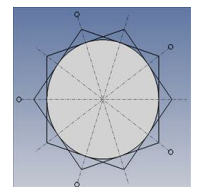
Non Contact Tension Measurement
(Drawing force Birefringence principle)

- 0-400 grams $\pm 1\text{gram}$, 1kHz
- Measurement field: 4mm \varnothing
- $\pm 1\text{ gr}$ within 10-40°C ambient

CM5:

Coating Monitor 5 axes

- Absolute diameter: $\pm 0.2\mu\text{m}$, 400Hz
- XY Positions $\pm 0.1\text{mm}$ 1kHz
- 5 axes Lump & Neck: $\pm 2\mu\text{m}$, 3.6MHz sampling
- Coating asymmetry: 30Hz
- Internal defect detection: 800kHz (Airlines, bubbles, inclusions, delaminations...)



Others:

AIR (AIRline detector)
LDS-T (Laser Diffraction Sensor for transparent product)

www.CERSA-MCI.com

Here's a great solution for:
Measuring Sector-Shaped Power Cables.

>> **BETA LaserMike ActiveScan™ Measurement System**

The solution:

ActiveScan effectively and reliably measures the height and width of sector-shaped cables, such as straight and pre-spiraled cables, at the hot or cold end of the extrusion line with the highest precision regardless of product alignment or angular rotation.



Why it's great:

- Measures product height and width up to 40 mm
- Measures at any line speed with ±0.001 accuracy¹
- Precisely determines minimum and maximum dimensions
- Completely pneumatic system for reliable, long-lasting operation
- Interfaces with Profibus, Profinet, Ethernet IP, and RS-232
- Conforms to CE standards

¹±0.02% of product size



- ✓ **Faster product changeovers**
- ✓ **Complete process control**
- ✓ **Higher productivity**
- ✓ **Greater manufacturing savings**



Discover how ActiveScan can help you achieve greater profits. Download the application note today!

(Go to Resources/Literature/ Application Notes)



www.betalasermike.com/wi2

Americas
 Tel: +1 937 233 9935
 Fax: +1 937 233 7284

Europe
 Tel: +44 1628 401510
 Fax: +44 1628 401511

Germany
 Tel: +49 231 758 930
 Fax: +49 231 758 9333

Asia
 Tel: +86 21 6113 3688
 Fax: +86 21 6113 3616



MAKING THE NEWS

Partners investment for USA-Brazil Seabras-1 link

Partners Group will invest in the construction of the first direct subsea fiber optic cable between New York and São Paulo, Brazil. Partners Group will provide equity financing for the Seabras-1 project being developed by Seaborn Networks at a cost of approximately \$500 million.

Seabras-1 is planned to deliver high capacity and low latency telecommunications for one of the fastest-growing transoceanic routes in the world, offering point-to-point bandwidth and connectivity services between New York and São Paulo. Existing subsea cables between the US and Brazil carry approximately 65 percent of all Internet, data, and voice traffic between Latin America and the rest of the world. The network is expected to become operational within two years and has already sold substantial capacity.

Seabras-1 is envisaged by Seaborn and Partners Group as the first of a series of independent, carrier-neutral alternative networks, and will serve as a template for the two firms to work together in the future.

Larry Schwartz, chairman and CEO of Seaborn, said: "We are delighted that Partners Group shares our vision and goals for the future development of the global communications industry. With a number of additional projects planned, and the evident frustration of the industry with legacy approaches to subsea builds, the current environment is very conducive to our independent cable operator model."

Todd Bright, managing director and head of Americas private infrastructure, Partners Group, added: "Seabras-1 is a key telecommunications infrastructure project for the Americas."

Super-channel SUCCESS

Infinera and Telstra have announced a successful demonstration of submarine super-channel technology, expected to increase the capacity of a single fiber by 50 percent.

The test, conducted across 2,200km of segment F (between Wada in Japan and Pusan in South Korea) of the Reach North Asia loop (RNAL), included polarization multiplexed 8 quadrature amplitude modulation (PM-8QAM), and a range of advanced FlexCoherent™ modulation formats, along with transmitter and receiver-based signal processing technologies.

PM-8QAM is a key technology for the optimization of the capacity of a fiber, designed to deliver a 50 percent increase in capacity compared to the most common coherent modulation technique, PM-QPSK, in a typical installation under the same conditions.

Steve Grubb, Infinera fellow and the architect behind the RNAL demonstrations, said: "This trial demonstrates the potential of a full suite of FlexCoherent modulation formats on a single line card and the ability to precisely trade capacity for reach and margin. It also highlights the emergence of next generation coherent processing that works with existing coherent 100 Gigabit per second technologies, which are now firmly entrenched in modern submarine terminating line equipment, such as the Infinera DTN-X platform."

"When regeneration within the submerged cable is simply not an option, the ability to trade margin for additional capacity can be crucial in submarine networks," Grubb added.

One of the world's first demonstrations of PM-3QAM modulation on a 4,250km link between California and Hawaii was also completed.



join the best worldwide

wire/Tube Düsseldorf: Innovations go global

Take advantage of the highest calibre expertise of the No. 1 international fair as the show goes global. Draw on international synergies from these leading trade fairs. A cycle of regional events, staged in succession around the globe, responding to local market and customer needs. Detailed information on the full programme can be found at:

www.wire.de
www.tube.de

For show information:
Messe Düsseldorf
North America
150 North Michigan Avenue
Suite 2920
Chicago, IL 60601
Tel. (312) 781-5180
Fax (312) 781-5188
E-mail: info@mdna.com
<http://www.mdn.com>

For hotel and travel
arrangements:
TTI Travel, Inc.
Tel. (888) 674-3476
Fax (212) 674-3477



WIND POWERS WEB GIANT

Pattern Energy Group has signed a 13-year agreement to sell power generated from the 150MW Fowler Ridge 4 wind farm in Indiana, to Amazon Web Services.

Construction of the wind farm, renamed Amazon Web Services Wind Farm (Fowler Ridge), will begin in April 2015. When commissioned, by late 2015 or early 2016, the project will generate around 500,000MWh of energy per year.

Pattern Energy announced the addition of 120MW of owned interest in the project to its list of identified right of first offer (ROFO) projects from Pattern Development.

Pattern Energy president and CEO Mike Garland said: "Pattern Energy is providing wind power to America's top corporations and looks forward to working with Amazon Web Services upon the acquisition of this exciting

new project, which has been added to our growing ROFO list.

"In the past 18 months we have acquired four projects from Pattern Development with an aggregate owned capacity of 557MW and have also added an additional five projects, including Amazon Web Services Wind Farm (Fowler Ridge), to the ROFO list with an aggregate capacity of 553MW."

FM Bedding

Flame retardant, Halogen-free, Economic

Also available: Molocine sheathing and insulation compounds.

TP Thermoplastic, **RDX** Radiation crossl., **MX** Moisture crossl., **PX** Peroxide crossl.

Fire protection from the inside.

FM bedding compounds from Melos and Inhol will significantly increase the flame retarding properties of your cable construction. The economic halogen-free solution for what's important in our lives: safety and health.

melos Compounds for the cable world

inhol Specialty compounds for wire and cable

The New Wire Drawing Standard

Universal — The most commonly utilized die system in the world today.

Efficient — Maximizes die performance, increasing machine utilization and decreasing production costs.

Practical — Simple design makes the system easy to use.

The ParaLoc™ Pressure System

Is your company utilizing the most advanced die technology available? Chances are, your competition already is. Call Paramount to get started today.

410-272-4600

www.paradie.com

PARAMOUNT DIE
Drawing Systems for the Wire Industry

1206 Belmar Drive • Belcamp, Maryland 21017 • USA



Music in the wire

String manufacturer D'Addario has introduced New York Steel to its EXP acoustic strings and banjo sets. The strings are designed to stay in tune longer, and to produce a stronger, consistent acoustic sound.

D'Addario has re-engineered the wire drawing and manufacturing process of both its high carbon steel wire, used for plain strings, and the hex-shaped wire used for wound strings. These improvements have been implemented into a new steel wire mill adjacent to the company's string manufacturing facilities in Farmingdale, New York.

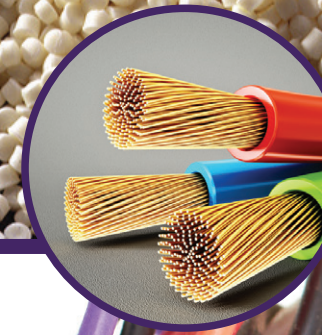
"Artists, guitar techs, luthiers, pros and amateurs alike have acclaimed that NYXL strings have "changed the lives" of musicians by reducing string break-in time and the need to tune regularly," said Brian Vance, director of product management. "This breakthrough technology is now introduced into our EXP sets to give all players the same benefits as our NYXL electric players."

Cables 2015

The international conference and exhibition for polymers in wire & cable

Reasons to register

- Sessions focus on the current & future market; materials, formulation & testing; developments in design and process innovation & optimisation
- Includes an end-use perspective from Siemens AG
- Lots of networking opportunities



HEADLINE SPONSOR



3-5 March 2015
Maritim Hotel,
Cologne, Germany

Images courtesy of: ExxonMobil

* + 19% German VAT

SPECIAL OFFER: Save €210* if you register before 30th January 2015

Organised by:
Applied Market
Information Ltd.



Also sponsored by:



Media supporter:



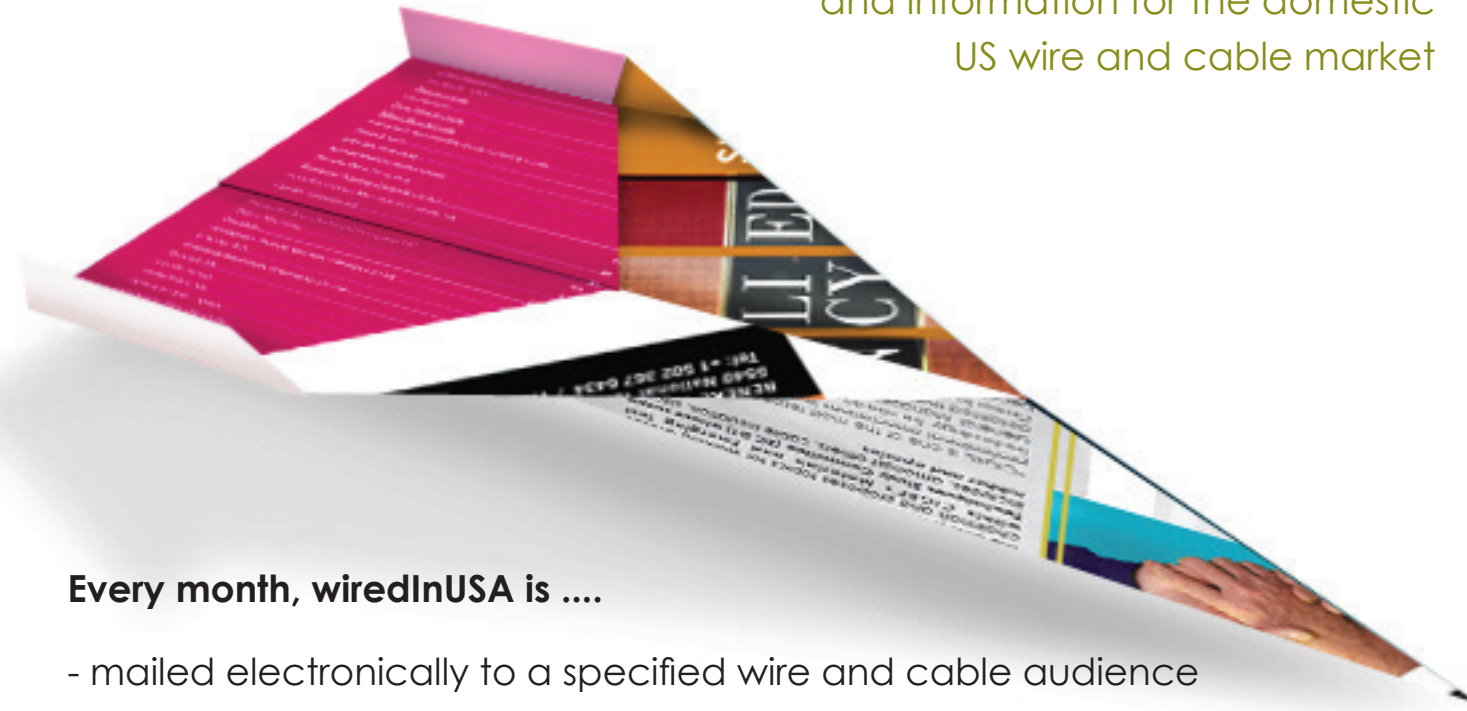


Digital .
Networking .
Monthly .
**wiredIn
USA**

READ
WATCH
SHARE

EASIER QUICKER NO PAPER

Unique, original-content news
and information for the domestic
US wire and cable market



Main Line gives back

The Main Line chamber of commerce has given a Main Line Gives Back award to Allied Wire & Cable. Allied was one of six recipients, recognized for their on-going support and contribution to the community. The award is made to highlight local businesses that strive to enhance their communities through support for non-profits and community-focused enterprises.

The award ceremony took place during December's Red Carpet Dinner in Drexelbrook, where Allied's chief financial officer, Matt O'Reilly, accepted the award. Mr O'Reilly said: "It was an honor to accept the award

on behalf of our company. I enjoy working for a company that cares so much about giving back to those in need."

AWC takes pride in supporting the community that helped build the company, and looks forward to its fundraising events each year. The company has made substantial contributions to the Make-A-Wish Foundation, Miles for Moms, Philabundance and BLOCS initiatives, as well as the annual AWC scholarship, and other miscellaneous charity organizations.

Every month, wiredInUSA is

- mailed electronically to a specified wire and cable audience
- delivered direct to your email inbox
- available to read online

It's FREE... so pass it on to colleagues!

Register online at
www.wiredinUSA.com

America's new online magazine for wire and cable

Record wind power

For the second consecutive year, Canada has set a record for the installation of new wind energy capacity. According to the Canadian Wind Energy association (CanWEA), a total of 1,871MW of wind energy capacity was installed across five provinces in Canada during 2014, with most growth centered in Ontario (999MW), Quebec (460MW) and Alberta (350MW).

Canada ended 2014 with nearly 9,700 MW of installed wind energy capacity, producing enough electricity to meet the needs of over three million average Canadian homes every year.

“Canada’s 37 new wind energy projects in 2014 represent over \$3.5 billion in investment,” said Robert Hornung, CanWEA president. “Of the 37 new wind energy projects installed in 2014, 15 projects also include significant ownership stakes from first nations, municipal corporations or local farmers.”

“Wind energy has demonstrated that it is a proven, reliable and cost-competitive energy solution that drives economic diversification, environmental sustainability and rate-base value,” Hornung noted. “These attributes will continue to drive wind energy growth in 2015, where we expect a minimum of another 1,500 MW of new wind energy capacity to come on line.”

Phase 4 goes into action

Minnesota Power has completed commissioning of the latest phase of its Bison Wind Energy Center. The 205MW expansion is believed to make it the largest wind farm in North Dakota and ranks Minnesota Power among America's top ten wind power-owning electric utilities.

All 64 wind turbines of Bison 4 are now generating energy, which is delivered to the company's customers via a 465-mile DC transmission line linking Center, North Dakota and Duluth, Minnesota. In total, the nearly 500MW produced by Bison's 165 turbines rank it as North Dakota's largest wind farm in terms of generating capacity.

Bison 4 is part of the company's strategic EnergyForward plan for diversifying its energy supply while cutting carbon, adding renewables and reducing emissions at power plants.

Minnesota Power's chief operating officer, Brad Oachs, said: “With this substantial addition of wind to our portfolio, we are meeting Minnesota's renewable standard of 25 percent renewable energy by 2025, a decade early.”

Construction of Bison 4, which began in the fall of 2013, included the installation of about 55 miles of collector cable in addition to the turbine erection that began early last summer. A new electric substation was built to serve the western side of Bison 4 and an existing substation was expanded. The project also includes a new meteorological tower and 11 miles of new 230kV transmission line.



Plant appointment

Electron Beam Technologies Inc has appointed Jay Flahive as its new plant manager. Flahive comes to Electron Beam with over 17 years of experience in industrial management.

Flahive's strengths in the industry include a background in Lean Six Sigma manufacturing, quality control, operational organization, scheduling, and supply chain management. These skills will be instrumental in implementing and improving Electron Beam's mission of providing customers with high quality products with reduced lead times.

Electron Beam Technologies Inc is a worldwide OEM supplier of coaxial/composite welding cables and its Fast N' Easy® conduit systems for automation.

Fiber & copper acquisition

Corning Incorporated has completed its previously announced acquisition of TR Manufacturing Inc.

TR Manufacturing, located in Fremont, California, is a provider of fiber optic and copper cable/component interconnects and electro-mechanical assemblies to OEMs. The company will become a wholly owned subsidiary of Corning, reporting to Corning's optical communications business segment.

"We welcome our talented new colleagues to Corning," said Clark S Kinlin, executive vice president, Corning optical communications. "Together, we look forward to extending Corning's position as a leading provider of connectivity solutions to every edge of the communications network."

Desert crossing

Zayo's latest planned long haul build will connect Salt Lake City to Sacramento using a new, more southerly, route. The new route, from Salt Lake to Reno and along US Route 50 through the desert of central Nevada, is over 100 miles to the south of the usual path.

Expected to be completed during the fourth quarter of 2015, it will add 800 route miles to Zayo's fiber network.

In for the long haul

Hibernia Networks is ready for service on six new long haul fiber routes in the northeast United States. The new routes – including Ashburn to New York, Chicago to New York, New York to Buffalo, New York to Albany and New York to Boston – represent a multi-year effort to reduce latency and increase diversity of the largest capacity terrestrial component of Hibernia's global network. The network expansion includes the deployment of Ciena's 6500 packet-optical platform, giving Hibernia the potential to offer capacities over 100G.

"This is part of our overall evolution to introduce diversity and better latency performance throughout our entire network. We have had support from our customers and our partners," said David Smith, SVP global network operations of Hibernia Networks.



JESSICA JOINS THE TEAM

Allied Wire and Cable has made its first appointment for 2015, welcoming Jessica Weiss as a sales representative. Many Allied Wire & Cable locations, including the Pennsylvania headquarters, are planning to add new sales reps to their teams during the year.

Although new to the wire and cable industry, Jessica Weiss has gained sales and customer service experience since leaving Montgomery County community college in 2004. She said: "I am very excited to be part of the Allied team, and to start this new chapter in my professional life."

Fiber optic patents

AFL has been awarded four patents for new technologies used in the enhancement of its optical connectivity and apparatus (OCA), fiber optic cable and test and inspection products.

The first patent is for "Integrated distribution enabling access solution" or IDEAA®, a module that changes how passive optical splitters are deployed in a network. IDEAA's design enables customers to utilize standalone mounting capability. The modular distributed splitting platform allows for minimal deployment costs and immediate cost savings for FTtx, cross-connect and WDM applications.

The second patent is for "Apparatus and method for preventing optical fiber and gel from ejecting out of buffer tubes in fiber optic cables." Cable designs developed with high excess fiber length (EFL) have the potential to allow gel leakage and fiber movement from the buffer tube at the splice points due to extreme temperature variations. The method and apparatus developed prevents these issues by preventing dynamic movement of the fiber and leakage of the gel on live fiber systems.

The other patents are for "Fiber optic connector inspection microscope with integral optical power measurement" and a reissue for "High fiber count package inner module", a packaging technology that protects connectorized cables during shipping.



Jon Stine has been appointed as general manager of steel wire manufacturer Mount Joy Wire Corporation, with responsibility for overseeing production, scheduling, maintenance, quality, product and process development and technical customer services.

Stine joined Mount Joy Wire in January 1992 as a process engineer and later became quality manager, director of process engineering, director of technical services and plant manager. "I am proud of our workforce and proud that we are a successful American manufacturer," he said.

"We believe that we make the best specialty steel wire in the world and work hard each day to maintain that status. As general manager, my goal is to work with employees to make us a better company tomorrow than we are today."

A member of the America Wire Producers Association, Stine received a BS in metallurgical engineering from the University of Pittsburgh's school of engineering.

NEW
GM

Solar power for India

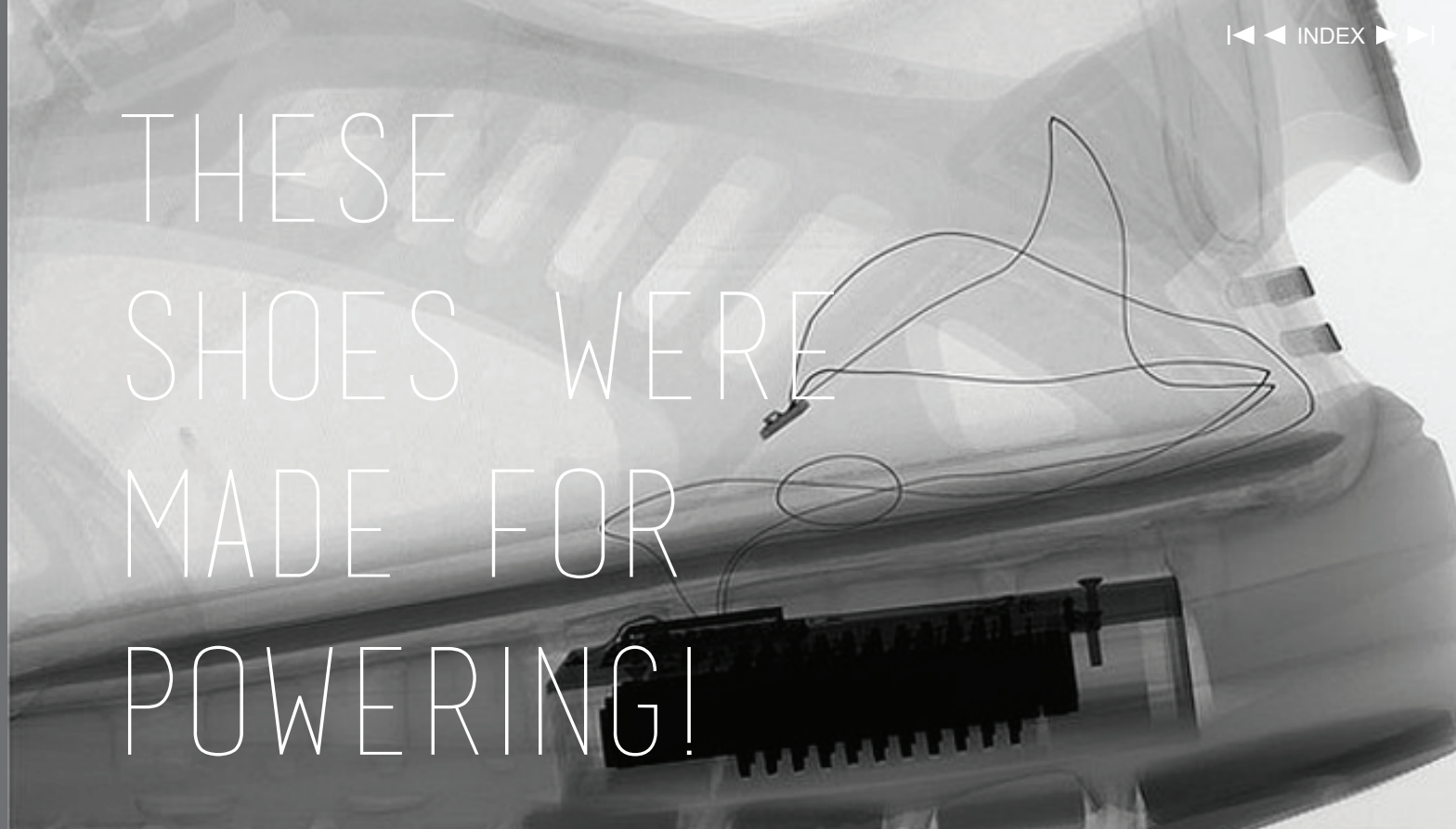
SunEdison is looking to implement a multi-pronged approach to expand its footprint in the Indian solar market. In addition to utility-scale solar power projects, the company is looking to install distributed solar power projects in Indian villages that lack access to electricity.

SunEdison has signed an agreement with India-based Omnigrad Micropower Company to set up off-grid solar power projects, with a cumulative capacity of 250MW, in 5,000 Indian villages. This would potentially be the largest private sector initiative in the distributed solar power domain for rural India.

India's medium-term target is to provide electricity to all Indian

homes, but some villages lack access to electricity due to an absence of transmission and distribution networks. While the government is planning to invest billions of dollars to implement additional transmission capacity across the country, including a dedicated transmission corridor for renewable energy projects, it remains a capital-intensive and time-consuming endeavor.

Small-scale and distributed solar power projects in the villages would circumvent the regulatory issues of acquiring large areas of land—a contentious issue in India—as well as offering an efficient and cost-effective option to power provision.



EUROPE NEWS

THESE SHOES WERE MADE FOR POWERING!

German researchers have developed “smart” shoes that can harvest power from the action of walking. The shoes have a “shock harvester”, that generates power when the heel strikes the ground, and a “swing harvester” that produces power when the foot is swinging.

Klevis Ylli, from the Hahn-Schickard-Gesellschaft institute for micromachining and information technology, said: “The devices have been developed as parts of projects with specific applications in mind. The swing harvester was developed as part of a self-lacing shoe for the elderly. The shoe would detect when a user steps into it and lace itself up, as well as open up again when required.”

Both energy-harvesting devices generate power by exploiting the motion between

magnets and coils. As the magnetic field of a moving magnet passes by a stationary coil, a voltage is induced and an electric current is generated.

In the “swing harvester” device, the swinging of the foot accelerates a stack of 14 magnets through a set of coils. The “shock harvester” device is placed in the heel of a shoe and when it strikes the ground a spring-loaded set of magnets begins to vibrate.

The “swing harvester” is 41mm wide, 70mm long, and can generate an average power output of 0.84mW. The “shock harvester” is 40mm wide and 60mm long, and has been able to generate a maximum of 4.13mW of power when a test subject was traveling at 5km/h on solid ground.



Baltic fiber

Baltic Highway, a data connection network between eastern and western Europe, has been officially launched. Data Logistics Center, Latvenergo and Televorkits, partners in the Baltic Optical Network, have connected Frankfurt with Tallinn, Berlin, Warsaw, Vilnius, and Riga, laying fiber along existing energy utility infrastructure.

The new 3,000km network is said to feature latency of 30ms, end to end. With much of the infrastructure already in place, the cost of the cross-Baltic project is given at just over €1.5million.



More Balkan investment

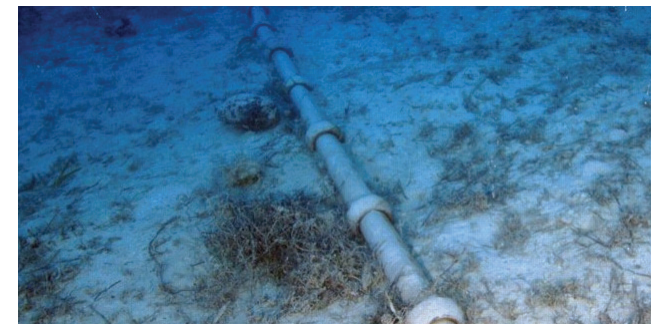
ArcelorMittal Zenica has announced further enhancements to its production facilities in Bosnia and Herzegovina. The new facilities will produce high density coils of rebar and will make ArcelorMittal Zenica the sole producer of rebar in coil in the Balkan region.

The bar mill will be in full operation by 2019, with machinery installed by SMS Group.

Commenting, ArcelorMittal Zenica's CEO, Mr Biju Nair said: "This is yet another demonstration of our firm commitment to building a long-term, sustainable future for steelmaking in Zenica. Efficient, high quality and cost-effective production, while keeping our customers' needs in focus, are essential to our plans, and the addition of state-of-the-art coil production to our capability answers all those requirements.

"Additionally, it will provide substantial economic opportunities for local businesses and thus the entire local community."

ArcelorMittal Zenica has invested over \$172,000,000 since it acquired the steel factory in 2004. Many of its plants had been previously disused for over 17 years, since the conflicts of the 1990s.



Protection for cable

Vos Prodict Innovations has supplied its cable protection system Pro-CPS to Redband for the repair and protection of fiber optic cables in Greece.

Divers have installed the systems onto cable to provide protection and maintain a secure operational life.

Vos Prodict's protection systems are said to provide strong and reliable interlocking mechanisms, bend restriction, impact strength and straightforward assembly. Pro-CPS for fiber optic cables is readily available from stock.



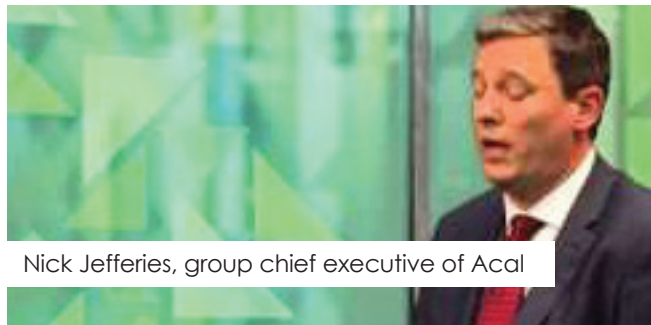
French wind growth

Figures for 2014 put France's investment in wind energy at €1.5 billion for the year. France has become the latest European country to announce a strong performance by its wind energy industry during 2014, with over 1GW of new capacity added during the year.

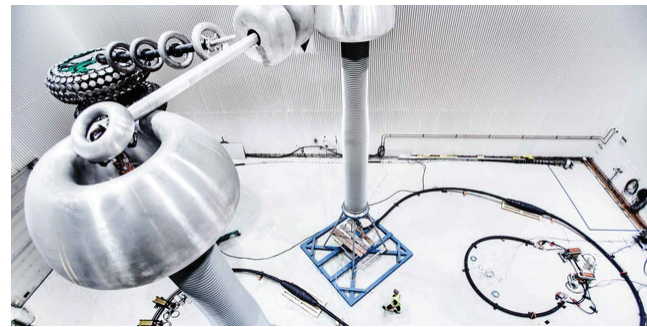
France's wind energy trade body, France Énergie Éolienne (FEE), announced that 1,042MW of wind energy came online in 2014, up from 630MW in 2013. The performance marked the highest annual level of installation since 2011, taking total installed wind energy capacity to over 9GW.

The French government has set a goal of delivering 40GW of onshore wind power and 15GW of offshore wind capacity by 2030, as part of efforts to source a fifth of its power from wind farms. Frédéric Lanoë, president of FEE, said the figures provided encouraging evidence that the market had "regained momentum" following a period in the late 2000s when legislative complexity apparently undermined investment in the sector. However, he warned the sector must continue to build if France is to meet its renewable energy and emissions targets.

The report follows the publication of similar data from Germany and the UK showing that wind energy capacity increased significantly throughout 2014.



Nick Jefferies, group chief executive of Acal



UWEA chairman Andrei Konechenkov

Fiber acquisition

Acal, an international supplier of customized industrial electronics, has bought the Norwegian firm Foss AS Fiberoptisk Systemsalg, a designer and manufacturer of customized fiber optic solutions.

Foss, which has around 100 employees, will become part of Acal's design and manufacturing division, though it will continue to trade under its own brand. Acal expects that adding Foss to its business will double Acal's revenues in the fiber optic market, while Foss will benefit from cross-selling opportunities.

"The acquisition continues our strategy of acquiring high quality, growing businesses that broaden and strengthen our technology expertise, thereby creating further growth opportunities," said Nick Jefferies, group chief executive of Acal.

"Foss has a well established track record of designing and manufacturing high performance, customized fiber optic products. As part of the enlarged group, Foss will gain access to our base of over 20,000 customers while Acal will benefit from access to their customized design and manufacturing skills," he added.

Skagerrak 4 completed

A high-voltage direct current link between Norway and Denmark has been successfully commissioned by ABB to increase the availability of hydroelectric and wind power in the region's electricity grid.

At 500kV the Skagerrak 4 link is said to set a record in transmission voltage using voltage source converters (VSC). The converters rely on semiconductors to convert electricity from high-voltage alternating current to direct current and back. VSC links are increasingly deployed in underground and subsea applications such as integration of renewable energies from land-based and offshore wind farms.

This latest HVDC Light link reinforces the Statnett and Energinet.dk grid and helps balance loads between Norway's hydroelectric-based system and Denmark's wind- and thermal-based generation.

ABB has delivered all four of the Skagerrak system's links, with Skagerrak 1 and 2 in the 1970s, Skagerrak 3 in 1993 and now this latest project. The system spans 240km and crosses the North Sea's Skagerrak Strait, carrying 1,700MW of transmission capacity.

Wire acquisition

The Austrian steel company Voestalpine has bought Italian wire maker Trafilerie, expanding its product portfolio of wire for the automotive industry. Trafilerie will become part of Voestalpine's metal engineering division under the name of Voestalpine Trafilerie Industriali.

In 2013 Trafilerie had revenues of \$52 million, producing around 50,000 tonnes of wire a year.

Wind power in Ukraine

Figures from the Ukrainian Wind Energy Association (UWEA) show that wind power capacity in Ukraine grew by 126.3MW last year, to a total installed capacity of 409.5MW, while in Crimea capacity was stagnant at 87.7MW.

Due to a difficult economic environment, caused by Crimea's annexation to Russia and the military operations in the eastern parts of Ukraine, UWEA has been forced to nearly halve its wind farm capacity forecast for 2015. It previously expected the country to reach between 900MW and 1,000MW of wind in 2015, but now predicts just 550MW.

UWEA's chairman, Andrei Konechenkov, said in a press release that the renewable energy sector in Ukraine is under threat. He explained that since August 2014 the national commission for energy has been refusing to revise the tariffs for green electricity, even though it is obliged to do so when there are changes in the Euro/Ukrainian Hryvnia exchange rate. Under existing legislation, feed-in tariffs are index-linked to inflation and are adjusted monthly.



www.iwma.org

DEADLINES

- Abstract deadline: **13th February 2015**
- Acceptance notification: **31st March 2015**
- Manuscript deadline: **30th September 2015**

CabWire World Conference 2015

Congress Center Düsseldorf, Germany
3 November 2015
 7th biennial cable and wire technical conference



Pictures: Mark Low & Krill/Pesulon - www.freeimages.com

ABSTRACT SUBMISSION & PAPERS

In order for the conference organizers to assess the scope and content of a proposed technical article please submit a 75-word abstract.

Accepted speakers will receive an Author's Guide with details about manuscript and presentation preparation. Only original papers not previously published will be eligible for paper awards presented by the IWMA or possible publication in the association's newsletters and magazines.

Accepted authors receive:

- Complimentary meeting registration
- A copy of the conference proceedings materials
- Access to the conference sessions, table top exhibits and reception

CabWire 2015 world technical conference – a date for your diary!

The IWMA is delighted to announce that the 7th biennial CabWire world cable and wire technical conference will take place on Tuesday, 3rd November 2015 in Düsseldorf, Germany, home of the wire industry.

The conference will be held at the Congress Center, and is already attracting interest following the successful CabWire conference which was held at the Palazzo Turati, Milan, in November last year, and attracted 200 wire and cable professionals from all over the world.

Preparations are well under way with Dr Probst, retiring CEO of Leoni AG, committed as a keynote speaker, and Arcelor/Mittal preparing to host a visit for delegates to its rod mill in Duisburg on Wednesday, 4th November.

There will also be an event at a downtown Düsseldorf location on the Tuesday evening where delegates will get the chance to network and socialize.

If you would like to be involved by presenting a paper at this exciting event, then please forward by email a short abstract of no more than 75 words to the IWMA office at **info@iwma.org**

There are also a variety of promotional opportunities available, such as sponsorship and table top displays. Similarly, if you are interested in attending as a delegate and would like to be kept up to date with conference developments then please get in touch.

Check your category:

- Ferrous Non-ferrous Electrical Fiber Optic General

Author(s) _____

Title of paper _____

Company _____

Address _____

Tel _____ Email _____ Web _____

Abstract (75 word maximum) _____

Please send me further information when available on:

- Attending the conference as a delegate
- Booking a tabletop exhibit
- Conference sponsorship

Please forward your submission to info@iwma.org

www.cabwire.com



ASIA & AFRICA NEWS

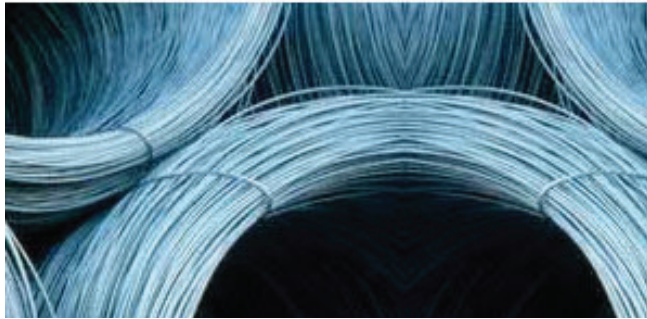
TIMELY SHOW FOR GCC CABLE INDUSTRY

The consumption of wires and cables within the GCC reached 1.3 million gross cable tons in 2013, an increase of 69 percent compared to 400,000 tons in 2003, driven mainly by the utility and communications network in the UAE and the wider Gulf. The figures were released in association with the Wire & Cable Arabia trade fair, held at the Dubai International convention and exhibition center during January.

Satish Khanna, general manager of the show organizers, Al Fajer Information and Services, said: "In the GCC countries, the ongoing construction boom has spurred the demand for energy cables used in residential, commercial and industrial construction, as well as in expansion of utility networks."

Mr Ashish Chaturvedy, show sponsor Ducab's marketing manager, said: "The cable industry in this region has undergone significant changes of late, making business intelligence and analysis more critical than ever. Our region is seen as one the most dynamic infrastructure investment markets for regional and global investors.

"UAE, Qatar and Saudi Arabia all scored in the top third of the new index of ARCADIS global infrastructure investment due to their strong business environment, healthy development work and growing economies, in addition to the mega projects that are scheduled in the pipeline for the coming three years which will represent billions of dollars of investments and opportunity for our industry."



Wire rod price

Taiwanese carbon steel wire rod mills left prices unchanged for January. The market price of carbon steel wire stabilized with the decision of all mills to maintain prices. In addition, demand from downstream screw mills is improving so market prices are expected to remain stable after recent falls.



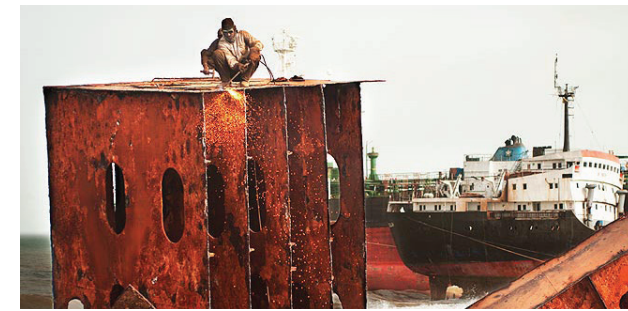
Filipino power

In anticipation of a significant increase in power, the national grid corporation of the Philippines (NGCP) is to build a new transmission project in Mindanao.

The Balo-i-Kauswagan-Aurora 230kV transmission line project is estimated to cost over \$48 million and will carry 600MW to the grid from GN Power Kauswagan Ltd Co's new coal-generated power facility. NGCP stated the new transmission line and coal plant will supply power to the Zamboanga Peninsula. GN Power has established a power purchase agreement to supply the energy to 20 cooperatives operating as an association of Mindanao rural electric cooperatives.

The coal-fired plant, located in Kauswagan, Lanao de Norte, and built in two phases, is planned in response to the country's expected power shortages. The first phase will add 450MW when completed in 2017, with a further 150MW added in 2018 by phase two.

Assuming all regulatory approvals are awarded by the Philippines' energy regulatory commission the transmission line project should be completed by 2016, prior to the commissioning of the coal facility.



Duty finds approval

Ship breakers in Pakistan have defended the imposition of a 15 percent regulatory duty on the import of all steel billets, steel bars and wire rods.

Describing the step as "much needed and timely", the Pakistan Ship Breakers Association (PSBA) applauded the imposition of the duty.

The government's decision has come as a response to lobbying by the steel industry. Steel melters, ship breakers and large-scale re-rollers – representing over 85 percent of the sector's production capacity – approached the Federal Board of Revenue (FBR) and relevant ministries on the rising difference between locally manufactured and imported products.

The Pakistani ship breaking industry is the country's largest steel raw material supplier to the re-rolling and wire rod industry. PSBA chairman Dewan Rizwan Farooqi stated that since 2010, the ship breaking industry had been providing 1.2 million tonnes of steel raw materials annually to the re-rolling, wire rod and steel melting industry.



Egypt's energy aims

Egyptian president Abdel-Fattah El-Sisi stated at the World Future Energy Summit (WFES) in Abu Dhabi that an inclusive plan for energy subsidy reform is to be implemented within five years and will include protection for the poor. "The availability of energy, and managing the demand for it, is one of the main priorities on the Egyptian development agenda," El-Sisi said.

El-Sisi stated that the limitations of traditional energy resources necessitate using renewable sources of energy, solar and wind, with plans for renewable sources to represent 20 percent of Egyptian energy production by 2020. He called upon attendees at the January summit to participate in the economic development conference in Sharm El-Sheikh in March.

The president was presented with the Sheikh Zayed Energy of the Future award.

El-Sisi specified that Egypt's energy development program includes producing 4,300MW from solar and wind plants within the next three years. Currently, according to a report by the State Accountability Authority, solar energy represents only one percent of Egypt's electricity production.



Conservation urged, despite power increases

Following a recent tour of the southern Kuwait Al-Zoar power plant, Abdul-Aziz Al-Ibrahim the minister of public works, electricity and water, indicated that expansion plans at the plant will add at least 500MW to the national grid. The minister added that similar plans are in hand for the Al-Sabbiya power plant, adding 500MW to the grid before the start of the summer.

Current expansion at the northern Al-Zoar power plant, almost 70 percent completed, will provide 230MW to the national grid and the estimation is that the plant will be operational by July. The minister stressed, however, that conservation of power should continue to be a priority, "for the benefit of the general good."

Regarding the use of solar energy to produce electric power, the ministry of electricity and water's undersecretary, lyad Al-Falah, said in a statement that since the success of the experiment with setting up solar panels on the roofs of some government buildings, the ministry he works for is studying the feasibility of installing solar panels on its water reservoirs in 20 locations around the country. It is estimated that these panels will produce about 300MW of electric power.



Trade between neighbors

Iran is said to have reached an agreement with Iraq for exporting high voltage cables worth \$40 million.

Managing director of Abhar Cable & Wire Co, Alireza Kolahi, said in a press conference that Iran has played an active role in the development of Iraq's electricity industry in recent years. Kolahi added that Iran also installed the 132kV power transmission line in the southern Iraqi city of Basra.

Several countries, including Malaysia, South Korea, Turkey, Italy, Germany, Switzerland, UAE and Saudi Arabia were bidding to reach an agreement with Iraq for the export of high voltage cables.

Iraq has less than two hours of electricity each day, Kolahi said, adding that the Iraqi electricity industry has the potential to be worth \$400 million by 2030.



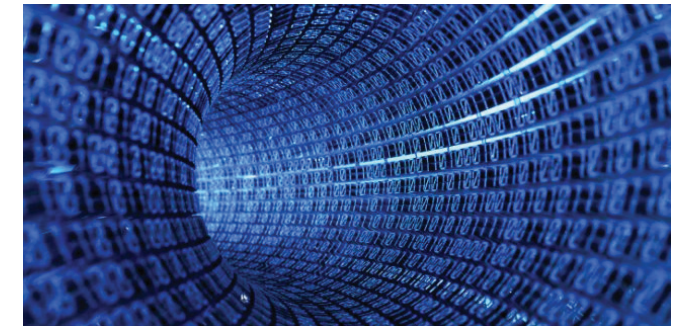
China's copper outlook

Record investment in China's state power grid during 2015 is expected to boost copper consumption in the power sector by around nine percent. The forecast, made by state-backed research firm Antaike, followed a state media report that the power grid plans to invest \$67.6 billion during the year, an increase of 24 percent on 2014.

The power sector accounted for nearly half of an estimated 8.7 million tonnes of refined copper consumption last year. "It definitely matters for your outlook on (copper) demand growth, given they are the largest consumer," said trade analyst Ivan Szpakowski.

Grid investment this year should push copper consumption in the power sector up 8.7 percent to 4.62 million tonnes, picking up from 7.6 percent growth in 2014, said Yang Changhua, a senior analyst at Antaike. The investment should also lift demand for aluminum, used in overhead power cables, and zinc, used to galvanize power pylons, he added.

Reflecting the demand, premiums for bonded copper in Shanghai rose to about \$70-\$90 a tonne over the LME cash prices, from \$55-\$75 at the beginning of the year.



Boosting Asian service

Telstra is to offer 100Gbps speeds across a number of its ultra-long haul submarine cables covering Asia and the Pacific as it seeks to increase its presence in the Asian market.

"Telstra's 100G wavelength service was designed to scale smartly and would also help deliver the connectivity and capacity needed to support market demand for larger bandwidth applications, including high definition video services and emerging ultra high definition television," said Darrin Webb, COO of Telstra global enterprise and services.

The cables being upgraded to 100Gbps are the Asia America Gateway direct fiber pair, which connects the mainland USA with Hawaii; the 9,000km Reach North Asia Loop, which covers Hong Kong, Taiwan, Japan and South Korea; the 9,124km Telstra Endeavour, linking Sydney and Hawaii; the 12,700km Australia-Japan cable; and UNITY, a 9,6000km route between Japan and the United States.

It is hoped that the upgrade will help Telstra to compete with more established rivals and become the first choice for Australian, European and US businesses wanting to connect with Asia.

PRODUCTS & MACHINES TECHNOLOGY

Aviation specific extrusion line

The continued increase in electronic applications in the aviation and aerospace industries, in addition to the growing demand from aircraft manufacturers for enhanced data transmission, are a major challenge in cabling systems. Mallefer is responding to the demand with the development of an aviation specific extrusion line.

A pilot extrusion line for aviation cable production, dedicated to X-ETFE extrusion (cross-linked modified ETFE) has been installed at Mallefer's research and development center in Finland. The new aviation line can produce cables for civil and military aviation applications, with single layer or dual layer in tandem depending on cable specifications.

The new extrusion line can be used for all types of fluoropolymer and high temperature materials.

New addition to the fleet

Damen has supplied a new DOC 8500 cable-laying vessel to international offshore contractor Van Oord. Named *Nexus*, the 126m vessel will be brought into use for work on the Gemini offshore wind farm, to be situated 55km to the north of Schiermonnikoog, one of the Dutch Wadden islands.

The entire design, engineering and build of *Nexus* took just 15 months, and the vessel was delivered several days ahead of the specified completion date despite changes and additions made to the specification after the contract had been signed. Six Damen companies in Romania, Ukraine and

the Netherlands contributed engineering and project management expertise; the vessel itself was constructed at Damen Shipyards Galati.

The *Nexus* is now at Damen Shiprepair Vlissingen, where Van Oord is building and installing additional cable-laying equipment.

The Damen offshore carrier (DOC) concept was first introduced by Damen in 2012 as a cost-effective smaller heavy transport, offshore installation and RO-RO platform, suitable for multiple markets. With its spacious and flush open deck the design is highly adaptable and its modular construction means that it can switch quickly and economically between roles.

Jaap de Jong, Van Oord's staff director ship management department, said: "By working closely together, Damen and Van Oord managed to build a fit-for-purpose and economical vessel in a very short period of time. The *Nexus* is an asset to Van Oord's fleet and its offshore wind projects business unit."

Fiber recoating range

AFL is introducing a new series of Fujikura fiber recoaters – the FSR-05, FSR-06 and FSR-07 – for fiber sizes between 155µm and 900µm. The series will be equipped with new LED curing lamps and molds, and programmable processes including an automatic resin pumping system to deposit the required amount of recoat material.

Brad Hendrix, global specialty market manager for AFL, said: "Each fiber recoater

is engineered to be easy to operate while maintaining consistent performance.”



▲ Fujikura's fibre recoaters

The three models offer varying features. FSR-05 recoater is the only model without a proof tester, and the FSR-06 and FSR-07 are equipped with linear and mandrel-tensioning systems for proof testing up to 2kgf and 10kgf, respectively. The replaceable resin bottle and pump allow for a quick refill or exchange of resin. In addition all three recoaters feature a color LCD monitor and intuitive on-screen controls as well as a USB interface.

The new fiber recoaters are a part of AFL's and Fujikura's ARCMaster™ product line which includes the LZM-100 laser splicing system, FSM-100 series of specialty fusion splicers, the new CT-105/106 specialty LDF cleavers, strippers and accessories.

High strength fastener

Alcoa Fastening Systems has launched a premium blind oversized mechanically

locked (BOM) fastener. The fastener is said to be the highest strength blind oversized fastener in the world, providing typical tensile strength up to 29,100lb and shear strength up to 45,100lb. The BOM is available in steel and ranges in size from 3/16" to 3/4" diameter.

The push-and-pull design of the BOM allows for easy installation in all blind side applications, without the need for torque tools. In addition, the large bearing area on both sides of the workpiece secures a permanent and tamper-resistant joint.

BOM fasteners are often used as an alternative to welding. The fasteners offer extremely high joint tightness, vibration and tamper resistance, and can be installed without the need for specialist-trained staff.

► *New fastener from Alcoa Fastening Systems. Photograph courtesy of Alcoa*



Get close to compounds

Teknor Apex has introduced a new series of monoprene TPEs for colorful consumer electronic components such as in-ear and headphones, fitness trackers, and smart watches. The new series of electronics compounds will be introduced to the market at the NPE 2015 exhibition in March.

The company highlights that products in the series are resistant to skin oil, stains, household chemicals and UV light, while being free of latex, phthalates, BPA and heavy metals.

The new formulation makes possible a wide choice of surface properties, and the compounds can be supplied in light, natural-colored pellets or custom colored.

“Monprene compounds for consumer electronics derive from commercially proven TPEs in markets where Teknor Apex has longstanding expertise, such as medical, wire and cable, personal care, and safety products. Building on this experience, we have developed property portfolios optimized for electronics applications that involve prolonged use in intimate human contact,” said Brian Mulvany, senior manager of consumer, industrial and electrical markets for the company's thermoplastic elastomer division.

Wire in drag

WireCo WorldGroup has launched its PowerMax® Plus, a drag rope designed to last for longer between preventative maintenance procedures for draglines such as resockets and end-for-ends.

PowerMax Plus employs newly researched wire technology that increases the wire toughness and improves its abrasion resistance, and uses a plastic enhancement to protect the rope core from material intrusion and fatigue.

The new ropes have undergone extensive field trials at coal mines in Wyoming, Texas and South Africa, with results suggesting that they can last over twice as long as WireCo's previous drag ropes, doubling the operation time between rope replacements.



▲ The PowerMax® Plus drag rope

PowerMax Plus is part of Union's PowerMax Plus family of products for drag ropes, which also includes PowerMax PFV Plus and PowerMax MD Plus.

Reels get a grip



▲ A new cable reel series from Hannay

The portable AVC 16-14-16 DE series of cable reels from Hannay Reels are designed for communication industries such as broadcast media, theater, mining and emergency rescue. Standard features include

a direct crank rewind with adjustable cam-lock drag brake, and an ergonomic carrying handle for easier transport to and from job sites.

ABB	p30
Acal	p30
AFL	p23, 41
Allied Wire and Cable	p22
ArcelorMittal	p28
Corning Incorporated	p20
Damen	p41
Electron Beam Technologies Inc	p20
Fujikura	p42
Hannay	p43
Hibernia Networks	p21
Infinera	p10
IWMA	p32
Maillefer	p41
Minnesota Power	p19
Mount Joy Wire Corporation	P24
Partners Group	p9
Pattern Energy Group	p12
SunEdison	p25
Teknor Apex	p42
Telstra	p10, 39
Ukrainian Wind Energy Association (UWEA)	p31
Voestalpine	p31
Vos Prodict Innovations	p29
Wire & Cable Arabia / Ducab	p35
WireCo WorldGroup	p43

EDITORIAL

AMI Cable Conference	15
Cersa Mci	7
Inhol BV	12
Messe Düsseldorf	11
NDC Technologies	8
Paramount Die	13
WAI (Interwire)	2

Marketing:

Contact Jason Smith, wiredInUSA,
Tel: +44 (0) 1926 834684
Email: jason@wiredinusa.com

News:

Contact David Bell, Editor, wiredInUSA,
Tel: +44 (0) 1926 334137
Email: david@wiredinusa.com

ADVERTISING INDEX

**GET IN TOUCH FOR
MORE INFORMATION**

Jason Smith,
Tel: +44 (0) 1926 834684
jason@wiredinusa.com

David Bell, Editor,
Tel: +44 (0) 1926 334137
david@wiredinusa.com

wiredinUSA, EuroWire
and Wire & Cable ASIA...

**...The leading magazines
for the wire and cable
industries**

*Download
your media packs today
and benefit from an
international coverage*



www.read-euowire.com

www.read-wca.com

www.wiredinusa.com