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October 2013 issue - No 28

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Colorado Wire bet on the 'High Roller' p9



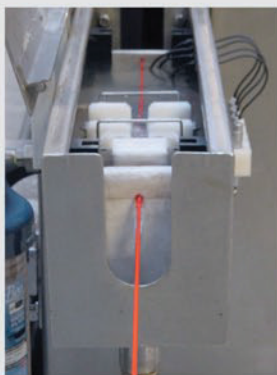
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#28 EDITOR

We have it on good authority (Hélène, our designer, has just returned from her vacation there) that the 'High Roller' Ferris wheel is rapidly taking shape on the Las Vegas skyline.

The multi-million dollar wheel – 100 feet taller than the London Eye – is our main story this issue, or more the fact that Colorado Wire & Cable Co has provided wire and tray cable for the wheel, located between the Flamingo and Harrah's hotel-casino.

Denver-based Colorado supplied the electrical wire and control cable that will help power the 44,000lbs observation pods – all 28 of them. Read the full story on page nine.

Don't miss the story of Alcatel-Lucent and SaskTel successfully trialling a fiber-optic data transmission of speeds up to 400G over a network originally built for 10G traffic. Catch this on page 14.

We also turn our attention to the staging of IWCS in Charlotte, North Carolina, from 10th to 13th November. Some of the companies exhibiting can be found in our feature, which starts on page 44. Feel free to stop by our booth and pick up free CDs of wiredInUSA and copies of sister publications EuroWire and Wire & Cable ASIA.

David Bell
Editor

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#28

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Charlotte, USA

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PRODUCTS, MACHINES AND TECHNOLOGY
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DIARY SHOW EVENTS

2013

OCTOBER

1-3 October: **wire South America**
São Paulo, Brazil
Exhibition
www.wiresa.com.br

NOVEMBER

3-5 November: **Cabwire 2013**
Milan, Italy
Conference
www.cabwire.com

10-13 November: **IWCS**
Charlotte, NC, USA
Conference
www.iwcs.org

2014

APRIL

7-11 April: **wire Düsseldorf 2014**
Düsseldorf, Germany
Exhibition
www.wire.de

JUNE

16-18 June: **Guangzhou International**
Guangzhou, China
Exhibition
www.metalchina-gz.com

SEPTEMBER

24-27 September: **wire China 2014**
Shanghai, China
Exhibition
www.wirechina.net

OCTOBER

28-30 October: **wire India**
Mumbai, India
Exhibition
www.wire-india.com



Measure & Control Instruments

OPTICAL FIBRES

Measurement Instruments

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display, record and report

CIM PC software:



LIS-Glass: Laser Interferometric Sensor

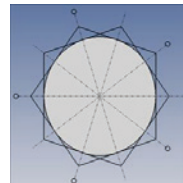
- Diameter repeatability: $\pm 0.005\mu\text{m}$ at 50kHz
- Diameter uncertainty: $\pm 0.15\mu\text{m}$
- Defect detection 75kHz, event recording
- Ultra fine air line detection, $0.3\mu\text{m}$, 400Hz
- Fibre position: $\pm 2\text{mm}$ range $\pm 0.1\text{mm}$, 1kHz
- Spinning frequency profile
- Fibre 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)



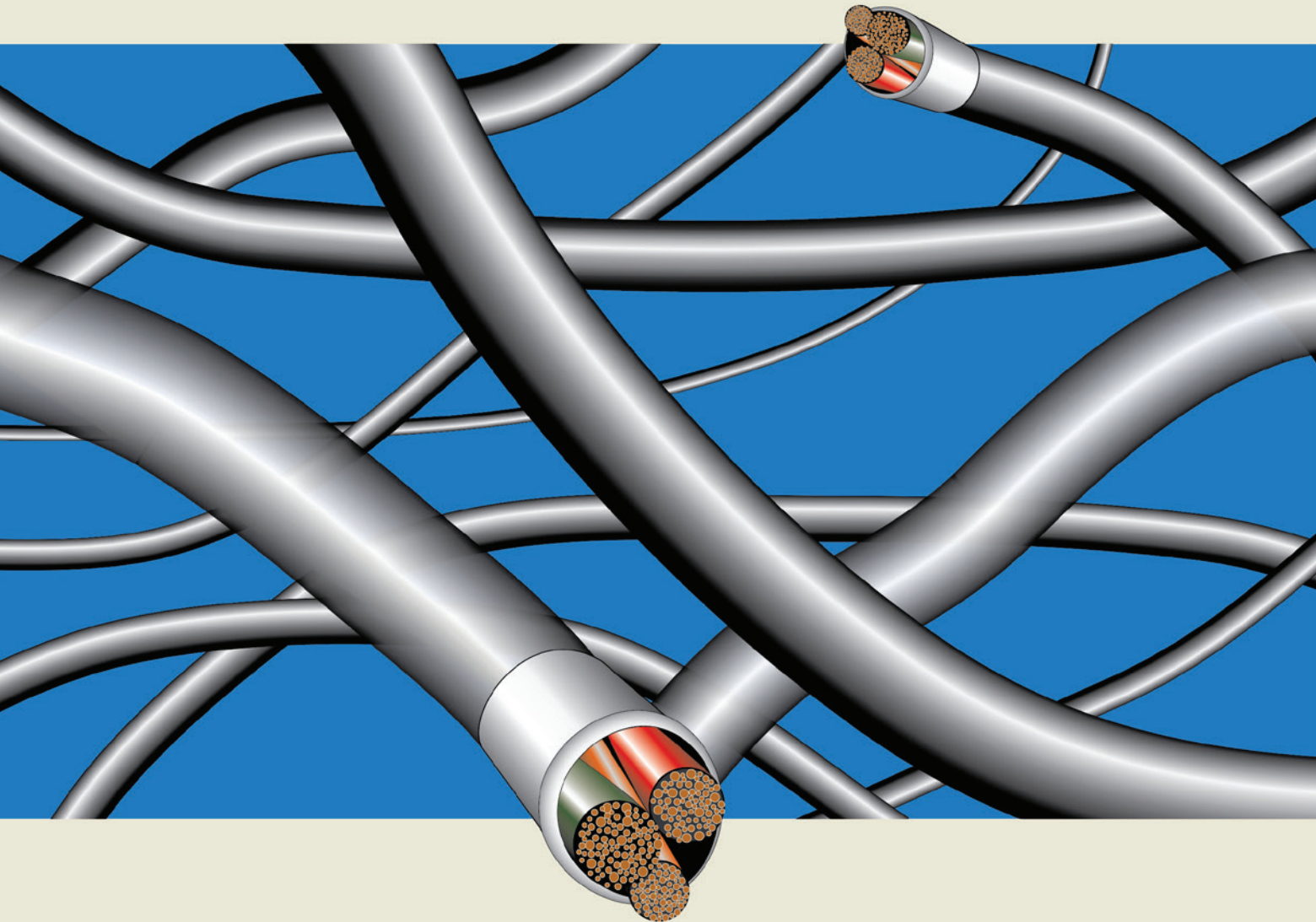
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NOVEMBER 10-13, 2013

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MAKING THE NEWS

Colorado wire flying high

Colorado Wire & Cable Co has provided wire and tray cable for the multimillion dollar "High Roller" Ferris wheel, in Las Vegas.

The wheel, which is 100 feet taller than the London Eye, 30 feet taller than China's Star of Nanchang and 9 feet taller than the Singapore Flyer, will carry 3.5 million pounds of steel and feature 1,500 LED lights. Located between the Flamingo and Harrah's hotel-casino, it is expected to be the main attraction of Caesars Entertainment Corporation's outdoor Ling project when it becomes operational in early 2014.

With the outer shell of the wheel now complete, builders are preparing for the next phase of construction, the installation of 28 glass-enclosed cabins. Denver-based

Colorado Wire & Cable Co supplied the electrical wire and control cable that will help power each of the 44,000lb observation pods.

The pods, which will include multiple flat screen TVs and iPod docks, have been manufactured and assembled by Grand Junction's Leitener Poma factory with a majority of American parts, including Colorado Wire & Cable Co's instrumentation cable and control cable.

Visitors will be able to hold events in the cabins, while the wheel rotates one foot per second. Installation of the cabins, which feature 300 square feet of laminate glass, will begin before the end of the year.

Berk-Tek appointment

Berk-Tek, a manufacturer of network copper and fiber optic cable products, has announced the appointment of Ron Lindsay as its new fiber optics product business manager. He will head the fiber optic cable product line whilst also serving as the interface between clients, internal sales teams, representatives, manufacturing and engineering.

Lindsay served Sumitomo Electric for over 22 years in a variety of roles

spanning product management, product development and applications engineering. He was most recently the director of engineering and quality assurance for Sumitomo Electric Device Innovations USA, in charge of applications engineering for optical transceivers and corporate quality assurance.

Lindsay has a Bachelor of Science degree in mechanical engineering from North Carolina State University.



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Arctic Fiber's seven cable landing points

Arctic Fibre has identified seven cable-landing points across Nunavut as part of its 15,700km subsea fiber optic network through the Northwest Passage between London and Tokyo.

A team of Arctic Fibre staff, AECOM environmental consultants, civil works contractor Ledcor Industries, network design engineer WFN Strategies, Ajungi Consulting, and TE SubCom traveled 4,150 miles to visit the communities of Iqaluit, Cape Dorset, Hall Beach, Igloolik, Taloyoak, Gjoa Haven and Cambridge Bay to hold information sessions and consultations.

Douglas Cunningham, CEO of Arctic Fibre, said: "We obtained input and local knowledge from residents that led us to modify our landing locations in Cape Dorset, Igloolik and Taloyoak to spots better suited to avoid ice scour, wave action and not interfere with local activities."

Arctic Fibre also modified its terrestrial crossing of the Boothia Peninsula based on the physical inspection by two of its surveyors, supported by local guides.

The revised route will now parallel the northwest shorelines of Middle and Angmaluktok lakes before rising through the hills and entering Lord Mayor Bay.

Arctic Fibre will now submit its landing plans to all appropriate bodies, and seek approvals for a subsea marine survey in 2014 that will be one of the most comprehensive ever undertaken in Nunavut waters. Company officials will also work with the appropriate agencies to ensure that its network does not interfere with any historical or archeological sites. Installation of the cable is expected to be undertaken in 2015.


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SUCCESSFUL 400G TRANSPORT TRIAL

Alcatel-Lucent and SaskTel have successfully trialled a fiber-optic data transmission that could enable the delivery of data at speeds of up to 400G over a network originally built for 10G traffic.

The trial took place on a live network between Regina, the provincial capital of Saskatchewan, and Saskatoon, over 250km away. The trial could lead to the deployment of the Alcatel-Lucent technology, allowing SaskTel to stay ahead of increasing demand for broadband access by offering an immediate upgrade to 100G transmission, and a move to 400G as, and when, needed.

Ron Styles, CEO of SaskTel, said: "This trial demonstrates the commitment SaskTel has to being a leader in broadband and providing the best and fastest communications network to our numerous stakeholders including consumers, government and our region's diverse private industries. Because it utilizes our existing network, Alcatel-Lucent's scalable solution will efficiently allow us to meet customer needs today and for those in the future as well."

Alex Giosa, president of Alcatel-Lucent Canada, said: "Our 1830 PSS solution has been enabling customers to effectively transform their networks to address increasing demands for high speed broadband for several years. The combination of the 1830 PSS enhanced with the new 400G PSE which we have trialled at SaskTel will allow us to continue to provide the kind of transformative solutions our service provider customers require to meet their customers ever growing needs for faster and faster connectivity."

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Solar development for Utah

Energy Capital Group is investing around \$600m in the construction of a 300MW solar plant on 1,754 acre of land leased from the Utah School and Institutional Trust Land Administration (SITLA). The project, called ECG Utah Solar 1, is likely to create around 200 construction jobs and generate substantial tax revenue for local and state governments.

ECG Utah Solar 1, which will receive engineering support from Victor Rojas and Power-Tech Engineers, will generate enough electricity to power an estimated 80,000 homes and will benefit Utah's K-12 grade school children through lease payments to SITLA.

Pending approval from Millard County, the project is in the Utah

Alternative Energy Development Incentive (AEDI) application process, having completed the required biological study and cultural survey as well as entered the interconnection queue.

Energy Capital Group CEO Josh Case said that the project will benefit the Utah school children, Millard County's economy, Utah's economy and the California utilities, adding: "The ECG team has made great strides to date, and we are reaching more project milestones at a rapid pace. The support from SITLA, Millard County, the state of Utah and other organizations in this whole process has been very much appreciated and we see this as a huge win for all parties involved."

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Beta LaserMike's ActiveScan measurement system outperforms traditional stationary and motion-based diameter gauges used to measure cables with unique profiles. ActiveScan effectively monitors and controls the **height and width of flat, sector, and special shaped cables** with the highest precision regardless of product alignment or angular rotation. Its unique, **non-contact oscillating measurement method** ensures repeatable accuracy, faster product changeovers, and higher productivity for greater profits.

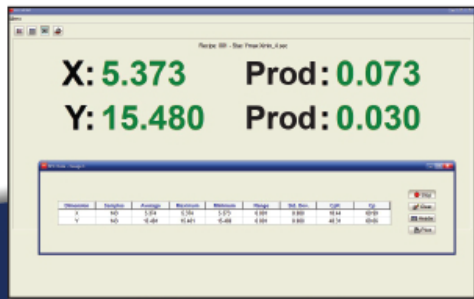
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Kansas Transmission line approval

Westar Energy and ITC Great Plains, a transmission utility, have won approval from the Kansas Corporation Commission to build a 345kV transmission line between Saline and Cloud counties.

At an estimated cost of nearly \$113 million, the 60 mile stretch will connect Westar's Summit substation (about five miles northeast of Assaria) to ITC's Elm Creek substation (four miles northwest of Aurora). Westar's share of the cost is around \$66 million, with ITC picking up the balance.

The line is planned to "improve electric reliability and efficiency in central Kansas, and ensure electricity is available to support economic growth in the area." Construction is expected to begin in mid-2014, and the targeted completion for the line will be late 2016, according to the Westar release.

The project costs will be absorbed over 40 years from customers in the Southwest Power Pool region, which includes Kansas, Oklahoma, and parts of Nebraska, Texas, New Mexico, Arkansas and Missouri. Initially, Westar's portion of the project will cost Southwest Power Pool customers 65 cents a year, and 45 cents a year from ITC, according to spokesman Joe Kirik. That amount will depreciate by roughly 2.5 percent a year, added Gina Penzig, the Westar spokeswoman.

Fiber sales strengthening

Alliance Fiber Optic Products Inc is anticipating that Q3 sales will exceed its previous outlook, the result of stronger-than-expected customer orders during the period.

Shares improved 14 percent to \$23.15 in recent trading. Through the close, the stock has surged since the start of the year and risen 72 percent in the past three months.

The company, a manufacturer of the high performance fiber optic components and integrated modules

used by communications equipment manufacturers, is now expecting net sales above \$22 million, compared to its previous forecast of between \$19.5 million and \$20.5 million.

"With increased demands for datacomm applications, customer orders have been stronger than expected," said chief executive, Peter Chang.

The company expects to release its Q3 financial report and fiscal Q4 outlook during October.

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First Solar starts Gen 2

First Solar has begun construction on the 150MW AC Solar Gen 2 project in Imperial County, California. Once operational, the project is expected to generate sufficient electricity to power over 60,000 typical homes. San Diego Gas & Electric (SDG&E) has a 25-year power purchase agreement for the electricity generated by the project. Construction of the plant is likely to be completed by July 2014.

Solar Gen 2 comprises three neighboring sites, Sonora, Arkansas, and Alhambra, and is hoped to boost the local economy by generating about \$150,000 in property taxes and \$4.6m under the public benefits agreement.

First Solar acquired the project from Energy Power Partners, an affiliate of The Goldman Sachs Group, and a third equity partner, in April 2013. It is First Solar's third project in Imperial Valley.

First Solar's construction director, Anthony Perrino, said: "With the support of county officials, IID and SDG&E, we are helping to deliver thousands of green jobs, millions of dollars in economic benefits, and clean, renewable energy for Southern California homes."

Mexico distributor for Redaelli

Delta Rigging & Tools Inc has reached an agreement with Redaelli to be the sole Redaelli distributor for the Gulf of Mexico. The agreement gives sales and marketing exclusivity to Delta for Redaelli's compacted, non-rotating and multi-strand steel wire ropes.

Redaelli wire ropes are used in many onshore and offshore sectors, including steel wire rope for offshore cranes, abandoning and recovery winch systems, A-frames, ROV and diving bell systems, anchoring and towing systems, and deployment winches.

Redaelli is possibly best known for its world record-breaking Flexpack, based on a modular strand concept with the compaction of all strands. Flexpack wire rope is utilized in subsea applications where high non-rotating characteristics are required. The company has twice been awarded the Guinness world record for the heaviest wire rope ever manufactured.



STAND 1024 AT WIRE SOUTH AMERICA 1-3 OCTOBER 2013

At the Exposições Imigrantes Exhibition Centre in São Paulo, Brazil



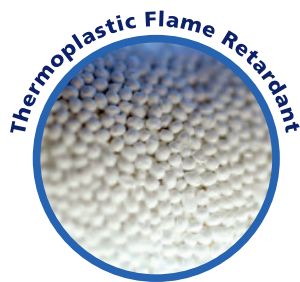
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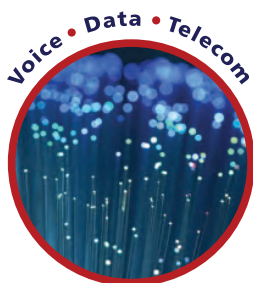
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PRODUCTS



INDUSTRIES





Electric utility turned ISP

The Washington Post reports that some high-end Internet subscribers in Chattanooga are browsing the web at a gigabit per second. By the end of September, some 39,000 residents will see their mid-tier connections increase from the current 50 megabits per second to 100, and won't need to pay for the upgrade.

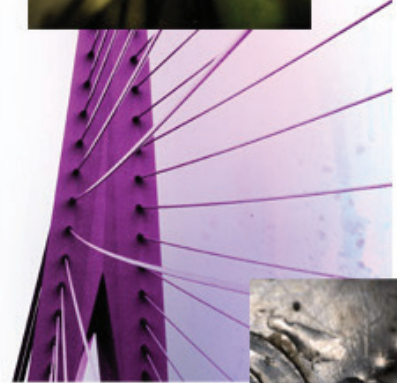
It's all because the city's electric company, EPB, needed a way for its systems to monitor and communicate with new digital equipment installed on the grid, but the country's biggest phone and cable companies don't yet provide an adequate service.

EPB made the decision to become an ISP, and now operates 8,000 miles of fiber for 56,000 commercial and residential Internet customers. The gigabit service will cost \$70

a month, compared to \$300 a month a year ago. Chattanooga spent \$330 million on its new network.

"What that gives us today is the ability to put 10 gigabits per second in any home or business in our service territory," said Harold DePriest, EPB's CEO. "That could be a manufacturer or office building, or it could be a trailer in a small lot on the back side of Soddy Mountain."

DePriest explained to the Washington Post that EPB's fiber network is "a great profit center." In the four years the service has been active, the utility company has increased its mid-tier speeds three times, now at 100Mbps. Around 2,500 elite users will enjoy 1GB speeds by the beginning of October.



Geothermal agreement for California

The Imperial Irrigation district (IID) has signed a ten-year power purchase agreement with Southern California public power authority (SCPPA) for 12MW of geothermal energy from the Heber-1 geothermal power plant in Heber, California. The agreement follows a ten-year agreement signed between the project's owner, Ormat Technologies, and SCPPA to deliver electricity from Heber 1 beginning 16th December 2015.

The Ormat/SCPPA agreement calls for the supply of 46MW, of which the Los Angeles department of water and power will receive 34MW and IID will secure the remaining 12MW.

With the receipt of 12MW power from Heber 1, IID will serve approximately 7,400

homes in its service territory and curb greenhouse gas emissions by 70,500 metric tons per year. The additional geothermal power increases IID's renewable resource mix to approximately 25 percent from the current 20.4 percent.

It will also help IID to meet the California law that requires utilities to generate and retail 20 percent renewable electricity by 2013, increasing to 25 percent by 2016 and 33 percent by 2020.

Interim energy manager at IID, Carl Stills, said that the agreement will help IID to diversify its energy portfolio by integrating renewable energy, and that the company was "thrilled" to have contracted the supply of geothermal power from a local resource.

Allied welcomes new reps

Mike Phelan, Nancy Prior, and Alexandra Brown have joined Allied Wire & Cable in locations across the US.



Mike Phelan (*photo above*) is the newest member of the Allied family in Merrimack, New Hampshire. Phelan has worked his way through the ranks of the industry, holding positions as a warehouse associate, a sales assistant, in inside sales, and as a manager.

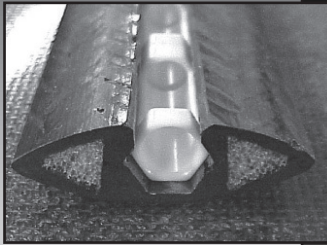
When asked the secret to his success over 40 years in the industry, Phelan explained: "I have found that service and accountability has always been a great foundation in keeping all customers happy. The product is important, but the satisfaction the customer receives is priceless."

Nancy Prior has joined the Las Vegas, Nevada, branch of Allied Wire & Cable as a sales assistant. Prior began her career in the wire and cable industry with Vertex Technologies in 1984, and also held positions with Anicom and Elcan Technologies, where she managed their southern California office. More recently, she worked in inside sales at Anixter.



Alexandra Brown (*photo above*) is the latest addition to the sales team at Allied's headquarters in Collegeville, Pennsylvania. A recent graduate of East Stroudsburg University, Brown said: "I am very new to the wire and cable industry, but I am very excited to learn more from everyone at Allied."

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S&E finds much to “Play Fore”

S&E Specialty Polymers LLC sponsored a July charity golf tournament at the Sterling National Country Club in Sterling, MA in support of Life is good Playmakers, the non-profit action arm of the Life is Good Corporation. The first annual tournament, called ‘Play Fore Playmakers,’ was reported to be a resounding success and all profits have been donated directly to the Playmakers organization.

On 26th August, Duane Shooltz, president and COO, and Jay Munsey, national sales director of S&E, presented Life is good Playmakers with a check for \$14,000. S&E has announced that due to both the success of this inaugural event and their commitment to support the organization long term, the second 'Play Fore Playmakers' tournament is already scheduled for 21st July 2014.

Life is good Playmakers is a non-profit organization dedicated to helping children overcome poverty, violence, and illness. They provide play-based training, support, and resources to frontline professionals who have dedicated their lives to healing and strengthening children.

These professionals include teachers, social workers, therapists, and hospital workers, through whom children are able to reconnect, engage, and explore the surrounding world through playful and positive

relationships between adult and child.

"We were overwhelmed by the fantastic turnout and support in the tournament's first year," said Duane Shooltz. "It was a great event for a worthy cause that S&E is truly proud to have organized and sponsored. We can't wait to see it grow even further next year."

Left to right: Jordan Gill (director of community fundraising at Life is Good), Jay Munsey, Steve Gross (executive director at Life is Good Playmakers), Duane Shooltz, and Ben O'Meara (training coordinator at Life is good Playmakers)

Solar Pioneer program gets funding boost

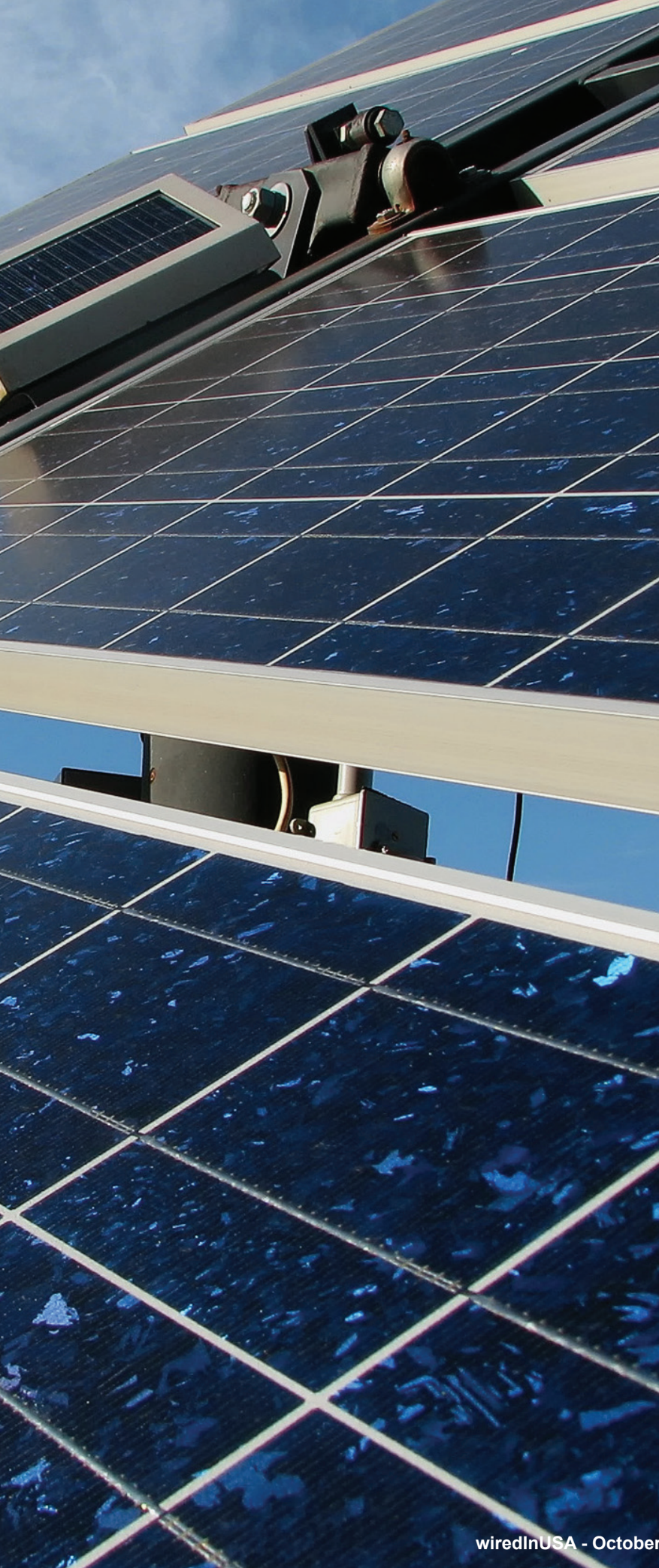
The Long Island power authority (LIPA) is to receive \$5m in funding from the New York state energy research and development authority (NYSERDA) to restart its residential Solar Pioneer program. NYSERDA will use proceeds from regional greenhouse gas initiative (RGGI) auction to fund the LIPA program.

Under the program, eligible homeowners can purchase or lease a new solar PV system and in doing so reduce the amount of electricity they purchase from LIPA.



The program has been subject to several readjustments to its rebate structure over the past year and was suspended on Labor Day weekend owing to continued high market demand and budget constraints.





In addition, NYSERDA is seeking approval from the Public Service Commission to work with the department of public service and



LIPA to identify the benefits of a more coordinated statewide PV incentive program. NYSERDA and LIPA are currently offering separate solar incentive programs.

LIPA COO, John McMahon, confirmed that the authority had secured additional funds for its Solar Pioneer program. "These funds will enable LIPA to re-open its residential solar rebate program, making solar more affordable to our customers while sustaining a growing clean energy economy on Long Island and helping to further advance our goals under the governor's NY-Sun initiative," he added.



EUROPE NEWS

Picture : www.bigstockphoto.com 'Spring' Photographer - 'Rafal Steciuk'



First phase completed at Nordsee Ost

In mid-September VSMC completed the first phase of laying infield cables for the Nordsee Ost offshore wind farm. VSMC started work on 3rd August 2013, and completed the installation of the 25 cables within a month and ahead of schedule.

VSMC was able to bring the start of the project forward by temporarily using the CLV Normand Flower, which had finished

the cable installation at Meerwind Süd/Ost offshore wind farm ahead of schedule. The works at Nordsee Ost will continue as planned into 2014.

The Nordsee Ost wind farm consists of 48 wind turbines and has a total capacity of 295MW. Nordsee Ost OWF is situated in the German Bight, the south-eastern part of the North Sea.



Subsea contract for JDR

UK-based JDR Cables has been awarded a major contract by Petrofac, of the United Arab Emirates. JDR will design and manufacture five subsea power and communication cables, and associated accessories, for the Satah Al Razboot (SARB) Package 3 project located around 80 miles north west of Abu Dhabi.

Petrofac has contracted JDR to produce a comprehensive system to maintain power and communication between the field's platforms. JDR chief executive Andrew Norman said: "JDR is delighted to be working with Petrofac on their first venture offshore in the UAE."

"Having partnered with Petrofac on previous projects, I believe JDR's latest contract reflects their trust in our ability to deliver comprehensive solutions for complex projects."

The Petrofac deal is for over 30 miles of cables, and the longest single cable in the contract will be 13 miles long. JDR will also provide technical accessories such as custom-designed terminations, cable hang-offs and pull-in heads.

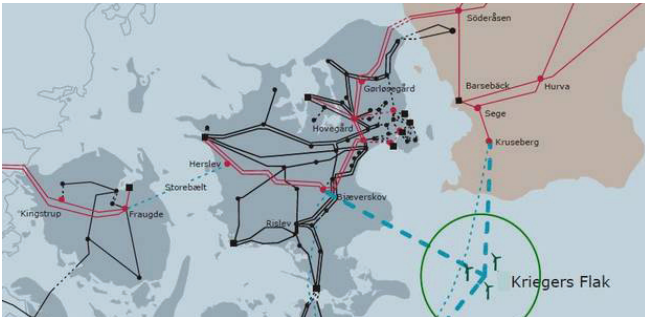


Ukraine cable recycling plant

The Danish recycling equipment company Eldan Recycling has delivered and commissioned an Eldan E2000C cable recycling system to a company operating in the Ukraine. The new system will be integrated into the customer's existing production program to supply copper feedstock for the company's new copper and wire cable production process.

"The customer chose Eldan because of the high purity of the copper fraction," explained Vadim Michagin, Eldan's area sales manager. "The purity of the copper fraction is imperative for the successful production of high quality copper wire."

Eldan has been developing, refining and optimizing the cable recycling process since 1971, when it first introduced equipment for the task.



Kriegers Flak tenders

Energinet is seeking cables for the Kriegers Flak wind farm, east of Denmark, due to be operational by July 2018. Energinet has already shortlisted firms for the construction of converter facilities.

The contracts will be tendered in two lots, with the first comprising the supply and installation of 320kV high-voltage direct-current submarine cables, involving two, 80km long, extruded or single core cables and one armored fiber optic cable. The transferred power will reach a minimum of 600MW.

The second lot relates to the supply and installation of a 150kV high-voltage alternating-current (HVAC) three-core subsea cable, at around 10km long with 500m of spare length. The cables should be adequate to handle transferred power of 200MW.

This second lot also includes the supply and installation of a 150kV HVAC platform connection, which will comprise six single-core lead sheathed cables, measuring 100m in length with an additional 100m.



TenneT seeks UXO

TenneT has granted the Swedish marine survey specialist MMT with an unexploded ordnance (UXO) search and clearance project in the German Bight.

TenneT offshore GmbH (TOG) will be responsible for the electrical connections between offshore wind parks within German territorial waters in the German Bight (North Sea) and the German electricity distribution network. A UXO threat was identified in the threat and risk assessment for the HelWin 2 HVDC and HVAC cable route, so raising a need for a geophysical survey for the offshore platform and all cable routes.

The HelWin 2 offshore cable route, including the HVDC platform area, will be surveyed from the MMT survey vessel Triad, using a magnetometer array to detect anomalies. The survey will be followed by an identification and removal operation and possible detonation later in 2013 and early 2014.

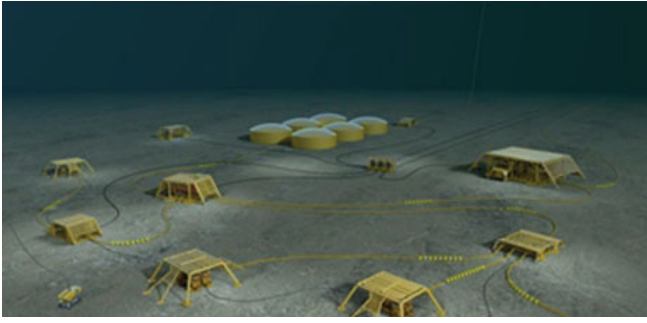


ABB and Statoil to work together

ABB has entered a joint industry program with Norwegian oil and gas company, Statoil. The program will develop solutions for transmission, distribution and power conversion systems designed to power and control subsea pumps and gas compressors at depths of 3,000m and over vast distances.

The five-year program is pivotal to the development of technologies required to power and control large-scale subsea pumping and gas-compression projects planned for the Norwegian continental shelf, the Gulf of Mexico and other places around the world.

The program is expected to provide solutions for the transmission of electrical power up to 100MW over distances up to 600km and to depths of up to 3,000m. This is important for the development of remote oil and gas fields located far from other infrastructure. This subsea electric power distribution technology enables several electric loads, such as pumps and compressors, to be supplied through a single power cable reducing investment costs significantly. The new technology, for example, could make savings of over \$500 million, if eight loads are linked through a single cable over a distance of 200km from other infrastructure.



New vessel for Van Oord

Van Oord has ordered a new cable-laying vessel, to be built at Damen Shipyards' wharf in Romania. The new ship will be ready at the end of 2014.

The ship is intended for the installation of electricity cables for offshore wind farms. Van Oord is making preparations for the Gemini wind park project, planned for a site 60km north of Schiermonnikoog, one of the Dutch Wadden islands.

The investment is for a multi-purpose vessel with a dead weight of 8,500 tonnes, a length of 120m, a beam of 28m and a DP-2 (dynamic positioning) system. It will have a cable carousel with a capacity of over 5,000 tonnes and an offshore crane that will enable it to lay heavy and long export cables. It will have on-board accommodation for 90 people.

The new cable-laying vessel forms part of the Van Oord strategy to offer a complete package for the construction of offshore wind parks as an EPC contractor.



Latest ABB acquisition

ABB has acquired Istanbul-based ELBI Elektrik, in a move to improve its position in the Turkish low-voltage products segment and to expand its existing business in Eastern Europe.

ELBI Elektrik designs and manufactures electrical wiring accessory products for the Turkish market, and exports to Eastern Europe through its own local sales organization. By complementing its existing wiring accessories portfolio with ELBI Elektrik's products, ABB hopes to serve those markets outside Europe that it has been unable to access with its existing product range.

The acquisition follows ABB's recent purchase of French software company Newron System SA. Like Newron, ELBI Elektrik will be integrated into the wiring accessories sector of ABB's low-voltage products division.



New Czech cable factory

Czech cable manufacturer Lamela Electric has plans to build a new cable plant in Sušice, in the Czech Republic's south-western Pilsen region. Zdeněk Houdek, chief executive of Lamela Electric, confirmed the plan to reporters and said that the Sušice project is expected to cost around \$78m. Lamela Electric manufactures rubber and plastic-insulated cables and wires. The company's product portfolio includes power, communication and data cables in addition to cables used in the automotive industry, photovoltaic systems and public transportation facilities.

Established in 1970, and originally called Kabelovna Chyšě, Lamela Electric changed its name in 2004. The company is headquartered in Chyšě, Czech Republic.



Bright future ahead for the IWMA

IT'S a bright new look for the International Wire and Machinery Association – the world's largest and most influential membership association for our industry.

A new logo, website and corporate identity have all been designed to mark the association's new phase of growth and development.

The new corporate design, to set colors, typography, images and marketing material such as literature and exhibition stand design, will help drive the growth of the IWMA, now in its 43rd year.

The new logo design will help promote a more consistent, professional and recognizable global image for the association. With a more dynamic



and modern appearance, the IWMA is ideally placed to help its members worldwide.

New foreign language sections – catering for German, Russian, Italian, French, Spanish and Chinese – can also be accessed from www.iwma.org

A new section – with a members, log-in area – provides access to industry news, market information and analysis, databases, video and question and answer forums with board members.

“The new corporate image is being introduced to standardize branding and

marketing material across the association and help to reinforce our position as the largest and most influential corporate membership association for the wire, cable and wire product industries,” said executive manager Andy Lewis.

“This new image signals the start of a new phase of growth and development for the association, and the new logo and website emphasize our unique platform to promote new technology and growth within the industry.”



The 6th biennial world conference at the Palazzo Turati in Milan, Italy, on the 4th November 2013.

This year’s theme will be **“Innovations driving worldwide wire and cable markets”** and will feature a panel of both ferrous and non-ferrous expert speakers, presenting papers on the latest technological developments within the industry.

For more information, **visit the website**, email info@iwma.org or telephone: **+44 (0)1926 834680**.

www.cabwire.com



ASIA & AFRICA NEWS



New power plant connects Jaffna peninsula to grid

Sri Lankan president Mahinda Rajapaksa has officially opened a new thermal power plant in the Northern province, connecting the Jaffna peninsula to the national grid. The president inaugurated the Chunnakam grid substation after a lapse of two decades.

After 23 years of isolated operation, the peninsula will receive the power from the national grid when the 67km transmission line from Kilinochchi to Chunnakam connects the newly built 63MVA Chunnakam grid substation with Kilinochchi grid substation.

The new Chunnakam substation will supply 63MW of power to around 120,000 houses as well as small and medium scale industries in

the area. Previously the Jaffna Peninsula was powered from the Lakshapana hydropower plant but, following terrorist activities in 1990, the north was powered through large-scale private generators.

The Northern Spring development program, initiated on the directive of president Rajapaksa after the end of the war in May 2009, started a program to supply electricity to all households in the Jaffna peninsula. The lack of connection from the national grid to power the region was an obstacle to establishing industries. The connection of the new power plant is expected to boost economic development in the peninsula.



China solar grid connection

Goldpoly New Energy Holdings has connected its 20MW Qinghai Gonghe solar photovoltaic power plant, located in Qinghai province, to the power grid. The project, which has an estimated operating life of around 25 years, generates 32.054 million kWh of electricity annually and has increased the proportion of renewable energy within western China.

The Qinghai province site has an average of around eight hours of daylight per day, 2,910.6 hours of daylight per annum; suitable for the construction of a large scale PV plant. The solar project is likely to utilize approximately 1,700 hours per year.

Alan Li, Goldpoly executive director and CEO, said that the company has also grid-connected a further solar power plant that will contribute to its operating goal of 5GW of solar power plants within five years.

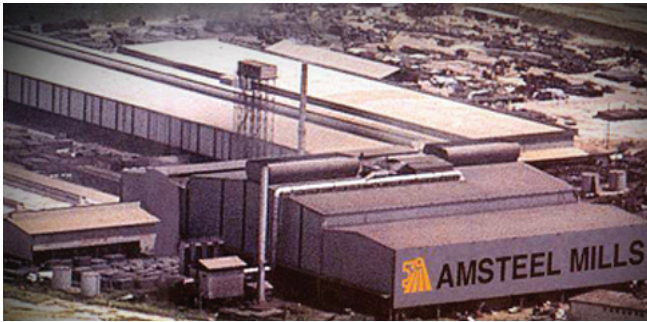


OF production increase

Furukawa Electric Co is to invest \$18 million in its Brazilian subsidiary to expand the manufacture of optical fiber cables.

With Brazil set to host the 2014 soccer World Cup and 2016 Summer Olympics, the country is anxious to improve its communications systems, with the installation of more broadband networks.

Furukawa Industrial SA Produtos Eletricos' plant in Sorocaba near São Paulo is expected to expand production in late 2014 to 2.3 million kilometers of optical fiber cables a year, representing 40 percent of Brazil's anticipated annual demand.



Amsteel upgrades wire rod mill

German manufacturer SMS Meer has upgraded the core components of a wire rod mill at Amsteel Mills in Banting, Malaysia. The modernization is anticipated to roll surface quenched and tempered rebars at up to 105 meters per second. The original plant was delivered by Danieli in 1995.

SMS Meer replaced the plant's ten-stand wire rod block, high-speed loop laying head, and the water-cooling section. A process model for optimum temperature control will now ensure that the demanded microstructure properties are reliably achieved while maintaining the close tolerances.

Amsteel belongs to the steel division of the Lion Group, a conglomerate with headquarters in Kuala Lumpur and one of the largest companies in Malaysia.



Undersea cable for Palawan

The Philippine telecommunications provider, Globe Telecom, has completed the rollout of a submarine fiber optic backbone in Palawan, Philippines. The 400km undersea cable system serves as a transmission system of telecommunication services between the province and the main island of Luzon, enhancing Palawan's connectivity with the country and the rest of the world.

The Palawan cable system will provide high-speed Internet connection and a network for text and voice calls. The undersea cable system is designed to transmit 40 wavelengths at 40GB per second capacity per fiber pair and is upgradable to 100GB per second DWDM system, allowing the company to accommodate future traffic growth.

The Palawan cable system has a total transmission capacity of 19.2TB per second. The transmission upgrade in Palawan forms part of Globe Telecom's \$700 million network transformation initiative, involving the nationwide roll-out of around 12,000km of optical fiber lines.

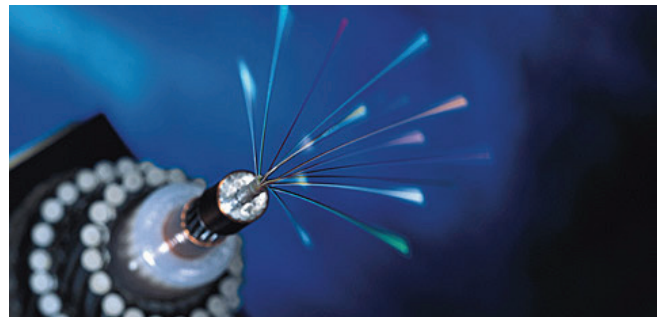


Getting connected, offshore

Abu Dhabi Marine Operating Company (Adma-Opco), which operates offshore fields in Abu Dhabi, is to build a fiber optic wide area network (WAN) project in conjunction with Zakum Development Company (Zadco), aimed at improving communications between the company's offshore and onshore sites.

The new submarine fiber optic infrastructure will improve real time transmission systems, represented by voice, video and data, to ensure business continuity, full redundancy, high reliability and availabilities for such services as well as enabling new capability of added services like high definition surveillance video cameras for close circuit television systems, said Adma-Opco.

The newsletter said the linkage from Umm Shaif to Das will be included as part of the planned power cable project between Das and Umm Shaif, and Nasr connectivity will be included in the Nasr power cables.



APX-West secures its cable

TE SubCom and SubPartners Pty Ltd have signed a system supply contract for the APX-West submarine cable system to deliver low-latency, diverse capacity between Australia and Singapore.

APX-West will use a four fiber-pair system to connect Perth, Australia, to Changi North, Singapore, with planned branches to Jakarta, Indonesia and Christmas Island. The system is approximately 4,700km long and has an initial design capacity of up to 32Tbp/s. It is expected to be operational by mid-2015.

"Today's announcement marks a major step forward in our vision towards a more diverse and resilient Asia Pacific region," said Bevan Slattery, CEO of SubPartners. "Our model of selling spectrum directly to major telecommunications and content providers gives the flexibility and benefits of infrastructure ownership without the significant capital investment required of a single entity in undertaking such a project. I am pleased that TE SubCom and SubPartners are able to work together on this unique project to change the international capacity market for the better."



TE SubCom clinches cable contract

Hawaiki's plan for a submarine cable to link Australia and New Zealand with Hawaii continues to make progress with the signing of a supply contract with TE SubCom.

The deal will see the supplier design and lay fiber capable of transmitting 10Tbps per fiber pair on the Australia–New Zealand to Hawaii trunk. The design will allow for Pacific Island nations near the main cable to connect to the network.

Although no specifics about the price of the deal have been revealed, it is likely to be hundreds of millions of dollars.

Hawaiki said in a statement that TE SubCom has a fleet of cable ships to lay the cable, and that the supplier has experience with local permitting practices – something that could become critical as the project develops.

Although the contract is no guarantee that the project will be completed, Hawaiki plans continue to be that the cable will be in place by late 2015.

The cable will be based on 100Gbps wavelength technology, in common with the Southern Cross cable which states it operates at 100Gbps.



Tanzania's optic fiber network attracts the neighbors

Tanzania's National ICT Broadband Backbone (NICTBB) fiber network is attracting interest from neighboring countries such as Mozambique and Uganda, now in connection talks with Tanzania, while some Kenyan companies are due to sign agreements to utilize the network.

The Tanzania Telecommunications Company Ltd (TTCL) chief of marketing and sales officer Peter Ngota told journalists during the recent Capacity Africa 2013 conference in Dar es Salaam that the trend is encouraging.

“A lot of people attending this international conference praise the expertise used to construct our optic cable fiber network... we should congratulate the government for this,” he said.

Through the NICTBB, Tanzania has been connected with East Africa's submarine cable networks including SEACOM, EASSY and SEAS. Ngota said that Africa is planning to utilize submarine cable networks in the continent to build an Internet center to serve the continent.



IWCS 2013



Charlotte, NC, USA
10th - 13th November 2013

Charlotte Convention Center
5015 College St Charlotte, NC28202

The 62nd staging of the IWCS Conference takes place this November at the Charlotte Convention Center, Charlotte, North Carolina.

Over three days, engineers and specialists will be presenting papers on a range of subjects and technological developments made within the industry. Running alongside this is a table-top exhibition featuring more than 100 businesses from around the world.

Here are just some of the companies taking part.

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Stewart Group	319
T & T Marketing Inc	301
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Teijin Aramid USA Inc	115
Teknor Apex Co	313
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Web Industries	401
Weber & Scher Mfg Co Inc	114
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Wire Association International	406
wiredInUSA Ezine	tbc
Yangtze Optical Fibre & Cable Co Ltd (YOFC)	420
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AlphaGary
Booth 107

AlphaGary specializes in the design and development of PVC, TPE, and TPO compounds – a wide variety of blends and alloys. It is a custom compounder, often developing a material to meet a specific customer requirement. The company services its global customer base through a dedicated sales team and worldwide network of distribution partners and representatives.

AlphaGary – USA
Website: www.alphagary.com

Beta LaserMike
Booth 514

Beta LaserMike introduces its latest non-contact measurement solutions. The latest offerings from the company enable wire and cable makers to measure product with higher precision and speed for increased productivity, improved quality, and material savings.

The new AccuScan 5000 series diameter and ovality gauges perform ultra-fast measurements at 2,400 scans per second per axis. But, the increased scan rate is of little use without each scan being accurate and usable. The improvements in the AccuScan 5000's single-scan calibration algorithm mean that each scan is highly accurate to provide the most reliable high-speed tolerance checking on a single scan.

This ensures lumps and necks are consistently detected. When using the STAC (stranded, twisted, armored, and corrugated) measurement mode,

AccuScan outputs accurate maximum/minimum or enveloped readings at a higher rate, allowing for faster process control of complex cable constructions.

At Booth 514, Beta LaserMike offers a range of AccuScan 5000 Series models to measure diameters up to 80mm (3.15"). AccuScan 5000 Series gauges support a wide range of communications protocols, including RS-232, Ethernet/IP, DeviceNet, Profibus, and Profinet. An integrated air purge system keeps windows clean from dust and debris for maximum uptime and reduced maintenance. An ultra-bright display and operator interface enables users to easily configure and view measurement data. All AccuScan gauges are ruggedly constructed and sealed to IP 65 (NEMA 4) standards, providing effective protection in the harshest environments for long service life.



Beta LaserMike will also exhibit its new three-axis LN3040 lump and neckdown detector. This advanced gauge provides more precise detection of short-term faults in the product diameter than two-axis systems. The new LN3040 detector measures product diameters up to 40mm (1.57") and detects flaw height

down to 0.05mm (0.002") at line speeds up to 3,000m/min (9,842ft/min).



The LN3040 is designed with a user-friendly operator interface, accepts a range of inputs, and can be easily connected to a host PC or PLC using RS-232, Ethernet/IP, DeviceNet, Profibus, and Profinet. Beta LaserMike also offers the three-axis LN3015 lump and neckdown detector with the same robust features, flaw detection capabilities, and communications as the LN3040, but with a smaller footprint. The LN3015 measures product diameters up to 15mm (0.59").

In addition to the new product releases, Beta LaserMike will present its solutions for automated cable testing. On display is the DCM Model SCS-350B for quality testing 4-pair Category LAN/data cables up to 600MHz. This compact, bench-top system efficiently tests Cat 5/5e/6/6A unshielded (UTP) and shielded (STP/FTP) twisted-pair cables with a high degree of precision.

The company offers a full line of DCM cable testing solutions for testing LAN/data, Telecom, RF/coaxial, and aerospace/defense cables. Products include fast, reliable solid-state switching technology to automate cable-testing functions and

can be integrated with powerful vector network analyzers (VNAs) for a complete high-performance testing system. The DCM line of cable testing systems is engineered to deliver the highest quality results, performance, and value for the investment.

The company will also be delivering a technical presentation to cable producers on the latest in coupling attenuation testing and how it complies with current industry specification requirements for Category 8 cable.

The paper, entitled 'Coupling Attenuation (CA) Testing for Category 8 Compliance', will be co-presented by Rafael Herrera, chief engineer for DCM Cable Testing Systems and Nadim Kafati, systems engineer at Beta LaserMike, in session four during the morning.

The paper highlights the use of tri-axial chamber technology to determine the minimum and maximum limits for CA measurements, and also presents data from testing F/UTP and S/FTP cables from 30 MHz to 2 GHz. The data acquired will be compared with the proposed Category 8 specification limits, and will show how the tested cables compare to the proposed specification requirements.

In addition, the paper looks at differential-to-common mode conversion and its effect as a noise source in LAN cables. The noise performance of a LAN cable is directly related to the pair balance. Transverse Conversion Loss (TCL) is a parameter that is used to specify the pair balance requirements of LAN cables.

The paper provides TCL measurement results of the tested cables. Finally, the paper presents a technique that was devised to evaluate the noise floor of the CA tri-axial

system. This noise floor shows the head room available to validate the accuracy of the CA data measured.

Beta LaserMike – USA

Website: www.betalasermike.com

Cable Components Group

Booth 413

Cable Components Group LLC (CCG) is a 14-year-old manufacturer of high performance plastic extruded products for the wire and cable, fiber optic, industrial non-woven and textile, and industrial tubing markets.

CCG runs 29 high temperature and specialized extrusion lines to focus on producing components that provide enhanced fire and smoke safety performance, electrical performance, and chemical resistance, among other properties.

Materials used are primarily fluoropolymers (FEP, MFA, PFA, ECTFE, ETFE, and PVDF). The company also offers fire retardant polyolefins (LSOH, FRPE) and other high performance materials (PEEK, PPS, LCP).

During 2009, the company introduced FluoroFoam® thermally foamable fluoropolymer compounds; FluoroSpun® fluoropolymer staple fibers, yarns, and fabric; and also became a stocking sales representative for Assaf Conductors Ltd, an Israeli-based producer of multi-wire conductors.

For data and electronics wire and cable producers, CCG supplies proprietary and standard crosswebs, tapes, and other separators and fillers that are specified for

Category 6, 6e and 6a LAN cable designs to meet stringent plenum and riser test requirements for fire retardancy, low smoke generation, and electrical performance.

For industrial and electronic cable producers, CCG offers fillers and separators including rods, tubes, tapes, fibrillated tapes, monofilaments and fibers, and yarns. All products can be made with solid materials or with CCG's FluoroFoam® or FluoroSpun® materials.

For fiber optic cable producers, CCG offers blown fiber and furcation tubing, and splitter kits, and can engage in the private branding of buffered optical fiber and fiber optic cable components. CCG's newest products include fluoropolymer and hybrid yarns suitable for use as ripcords or fire retardant bedding materials in premise optical fiber cables requiring a plenum rating.

For other industrial markets, CCG now offers standard and co-extruded multi-wall tubes as well as various types of FluoroSpun® yarns, fibers, and fabrics that provide chemical resistance, thermal stability, and hydrophobic properties for end use applications in the filtration, HVAC, air purification, gasket, fluid handling, and other markets.

Cable Components Group – USA

Website: www.cablecomponents.com

Clinton Instrument Company

Booth 400

Clinton Instrument Company has expanded its high voltage pinhole detection technology to include new quality control tools for manufacturers of plastic and dielectric-coated materials. A Clinton

pinhole detection system performs a 100 percent inspection on the manufacturing line, ensuring product reliability and averting further processing of substandard material.

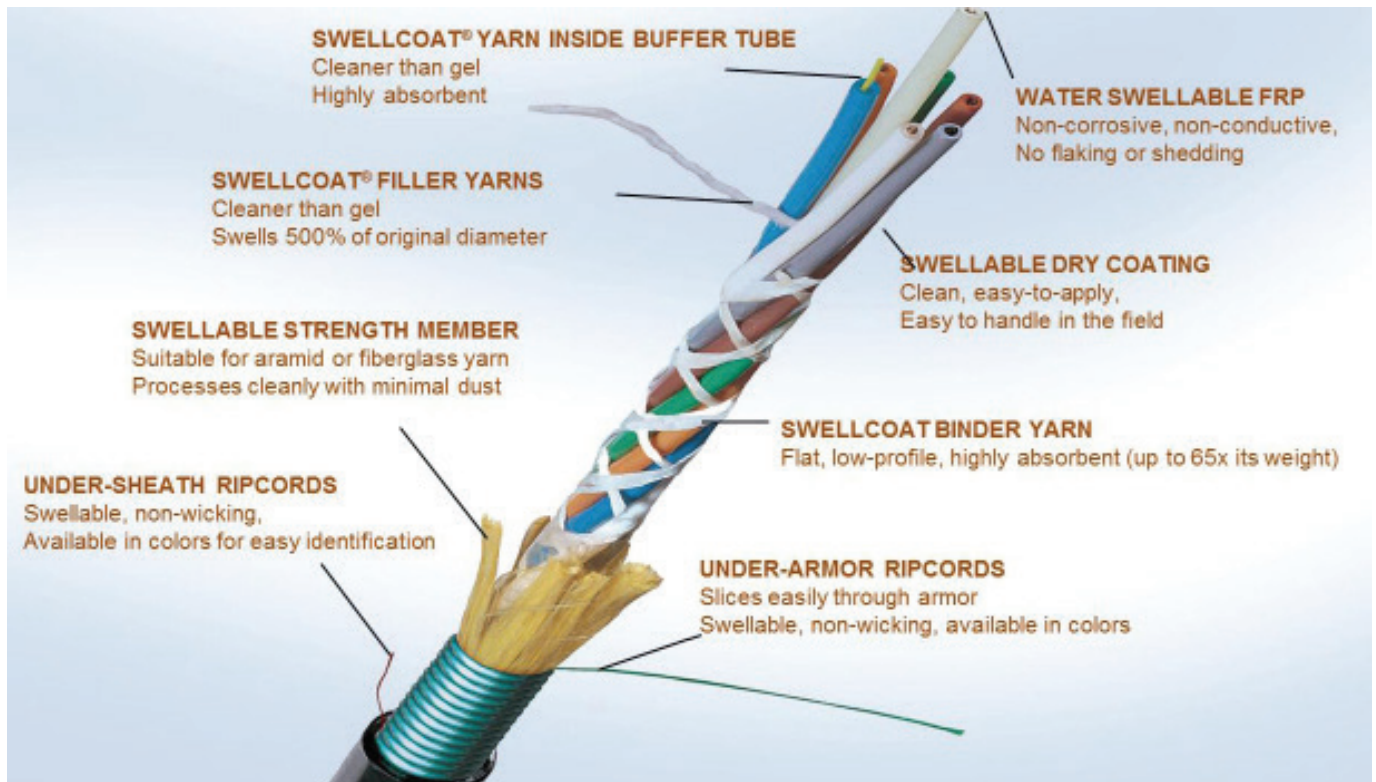
Clinton Instrument Company – USA
Website: www.cicsparkers.com

Fiber-Line
Booth 213

Fiber-Line improves the performance of fibers with its extensive processing and coatings capabilities.

For over 25 years, Fiber-Line has provided science-driven expertise that improves the performance and the end-use processing of high performance fibers. Its products enable the search for new energy reserves and extend the life of fiber optic telecommunication cables.

This can also add important characteristics, such as Swellcoat® water-blocking, water repellence, adhesion, glow-in-the-dark properties, and wear, color, and UV-resistance to these and many other applications. The company believes that its on-going commitment to protect the environment, to remain at the forefront of



The company has experience using many fibers, including aramid, carbon, glass, HMPE, polyester, and LCP. Its coatings center utilizes neat, water-based, solvent-based, hot melt, and fluidized bed technologies, and it has three manufacturing facilities in the US and Europe.

fiber and coating technology, and to 'treat others as we want to be treated' will drive the success of its customers, shareholders, and employees.

Fiber-Line LLC – USA
Website: www.fiber-line.com

Huestis Industrial
Booth 402

For over 80 years, Huestis Industrial has built and supplied high quality machines and ancillary equipment to industrial companies around the world.

From military to wire and cable and every industrial application in between, the world has depended on Huestis Industrial to provide low cost, rugged and long lasting solutions to meet manufacturing demands for an ever-changing business environment.

Whether it is airwipers, cable jacket strippers, pay-offs and take-ups, accumulators, or custom machines – Huestis' performance is renowned



Huestis Industrial – USA
Website: www.huestis.com

Maillefer Extrusion OY
Booth 119

Maillefer provides high-end manufacturing solutions for every stage of the fiber optic cable process. The portfolio includes tight buffering, secondary coating, SZ stranding and jacketing lines available

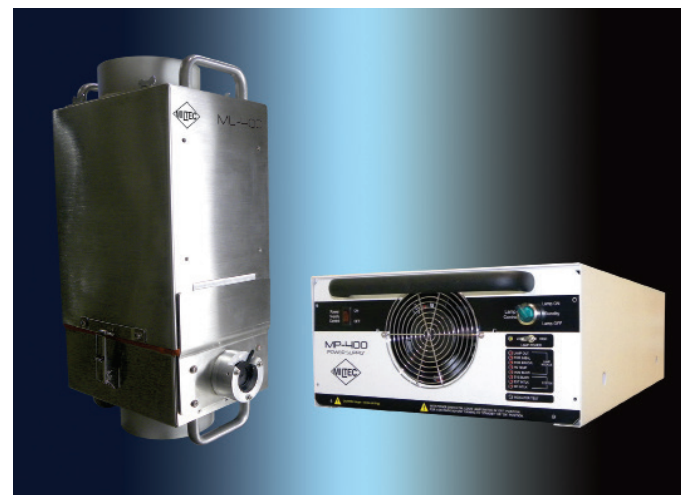
for a production ranging from long haul cables to FTTx with low fiber counts and short lengths.

The company's high performance solutions offer a wide variety of innovations. For example, the compression technology with tension feedback serves to keep precise control of excess fiber length on the secondary coating line OEL 40.

IWCS is an important venue for the cable and connectivity industry. Maillefer is proud to join the panel of experts in bringing technical content to the conference. Dr Mikko Lahti will present his paper entitled 'Nonlinear Modelling of Excess Fibre Length of Dry Polypropylene Tubes', on Wednesday, 13th November, at session 10: Cable Materials & Processes. He will be available during the whole conference to discuss the results of his work and the manufacturing solutions currently available.

Maillefer Extrusion Oy – Finland
Website: www.mailleferextrusion.com

Miltec UV
Booth 214



Miltec UV will be highlighting its MPI-400 UV curing system at November's IWCS Conference in Charlotte, North Carolina. The MPI-400, used for curing coatings on optical fiber, allows for more efficient curing and large reductions in operating costs. This new and advanced solution will be visible on Booth 214 at the conference between 10th and 13th November.

Miltec is a manufacturer of high performance UV curing systems used in optical fiber draw towers for coating, coloring, and cable marking. For over 20 years, it has provided the industry with superior quality and service, serving both domestic and international markets. Miltec also offers superior technical support and a full line of replacement parts.

Miltec UV – USA
Website: www.miltec.com

Pourtier & Setic of America
Booth 620

Pourtier and Setic, manufacturer of rotating machines for the non-ferrous wire and cable industry, has re-branded its new machine division in Greensboro, North Carolina.

With over 20 years of continuous presence and after several recent major machine installations in the USA, the Gauder Group Inc subsidiary will now promote the sales of its Pourtier and Setic product range under the name 'Pourtier & Setic of America'.

This product line includes Pourtier's successful rigid stranders and drum twisters for producing low, medium, and high voltage cable and conductor, as well as Setic's large and small double twist bunchers, and complete line of machines

for the production of LAN and special cable.

For the used machines market, USA and Canada sales are managed with the subsidiary 'Gauder America' which has a joint venture agreement with Lloyd & Bouvier.

Pourtier & Setic of America – USA
Website: www.gaudergroup.com

PWM Ltd
Booth 512

PWM's comprehensive range of manual cold welders will be presented by Joe Snee Associates, exclusive distributor for PWM's machines, spares and dies in the US and Canada, on Booth 512 at the IWCS Conference in Charlotte, North Carolina.



Visitors will be able to watch demonstrations of the cold welding technique and try out the machines for themselves during the conference, being held from 10th to 13th November.

The M101 is the largest model in PWM's manual range and has been one of the

company's best-selling machines for many years. Designed to produce strong, reliable welds on copper wire 0.04" to 0.141" (1mm to 3.6mm) and aluminum 0.04" to 0.197" (1mm to 5mm), the M101 can be used either on a workbench or supplied with a trolley, enabling the operator to move it quickly to the work area. Low maintenance and easy to operate, the M101 is also commonly used to weld profiles and strips for armoring lines.

The smaller BM10 and BM30 manual welders, also for use on a workbench or with a trolley, are robust, durable machines with capacities ranging from 0.0039" to 0.071" (0.1mm to 1.8mm).

PWM's manual range also includes three hand-held models. Comfortable to hold and use, the M10, M25 and M30, for copper/aluminium wire sizes 0.0039" to 0.071" (0.1mm to 1.8mm), are suitable for welding wire breaks in confined spaces.

PWM's full range includes air/hydraulic, electro/hydraulic, pneumatic and electro/pneumatic cold welders, with capacities up to 25mm (0.984") copper and 30mm (1.181") aluminum.

PWM's cold welding equipment is designed and made to high quality standards in PWM's own UK workshops. Dies are individually hand-made in matched sets, in standard or custom sizes, to suit round or profile wire.

PWM Ltd – UK
Website: www.pwmltd.co.uk

Roblon A/S
Booth 509

From the Arctic to Australia – products, projects, local representatives and customers in over 100 countries, Roblon develops, produces and sells high-quality products to several professional industries and is characterized by a pioneering approach to research and development, product development and manufacturing: intelligent design, innovative use of technology, ground-breaking product functionality, open data and full documentation.

An old-fashioned approach to sales, support and customer service, impeccable service, rapid response, open and honest communication, expert information and expert technical support from staff.

The products are divided into four groups:

- Cable – cable machinery and fibers
- Rope-making equipment – rope-making and twine equipment
- Offshore and composite solutions – fiber composite solutions
- Lighting – LED and fiber optic lighting

The Roblon Group puts credibility and honesty before short-term profits. Every day, it works hard to further its reputation as a deeply reputable, solid and progressive company. To ensure continued organic growth, Roblon prioritizes market and product development. The company continually explores opportunities for new acquisitions, strategic partnerships or licensing rights with its business areas.

Roblon A/S – Denmark
Website: www.roblon.com

Sikora AG
Booth 501

Sikora is a well-respected manufacturer and supplier of measuring and control technology for the wire and cable, and hose and tube industries. With 199 employees worldwide, 12 offices and more than 30 regional representatives all over the world, the medium-sized company provides customers with innovative product solutions and individual service.

The measuring and control systems are exclusively made at the headquarters in Bremen, Germany. Innovation, product quality and customer satisfaction drives the daily activities at the company.

Sikora AG – Germany
Website: www.sikora.net

Teknor Apex
Booth 313

Teknor Apex is a privately held company founded in 1924 and headquartered in Pawtucket, Rhode Island, USA. It manufactures for eight divisions in eight locations in the US, and one each in Singapore, China, Belgium and the United Kingdom.

Teknor Apex is a diversified material science company using complementary technologies to serve common markets. The following divisions have been the logical evolution of its growth:

- Vinyl
- Thermoplastic elastomer
- Nylon
- Bioplastics

- Teknor Color Company
- Chemical
- Toll and specialty compounding
- Garden hose

Teknor Apex Company – USA
Website: www.teknorapex.com

Zumbach
Booth 106

Zumbach Electronic is a leading manufacturer of in-line measuring, monitoring and control systems for the wire and cable industry, (from wire drawing to fiber optics, including extrusion of insulation and jackets), for plastic extrusion lines (mono filaments, catheter, tubing, pipe or profiles) and for the metal industry (hot and cold rolling, continuous casting, turning, grinding, polishing to QC inspection stations).

Zumbach – Switzerland
Website: www.zumbach.com

PROMOTE YOUR COMPANY AND PRODUCTS

If your **company is exhibiting at IWCS 2013**, you are invited to submit an editorial describing the products that you will be displaying on your stand at the show.

To make sure your editorial is published in the November edition – send us the details **by 24th october**.

All editorial should be sent to editor David Bell at david@wiredinusa.com



PRODUCTS - MACHINES

& TECHNOLOGY

Steel wires for offshore fields

ArcelorMittal's Bourg-en-Bresse facility is developing a partnership to supply highly resistant steel for use in the manufacturing of flexible sheaths for Technip, with the aim of strengthening its wire activities.

Technip and ArcelorMittal have signed a five-year contract for the supply of high-performance steel wires, ArcelorMittal's most significant European contract for its wire activities.



*Photo: ArcelorMittal corporate headquarters.
Photo courtesy of ArcelorMittal*

ArcelorMittal's site in Bourg-en-Bresse is part of its distribution solutions division, and will fabricate highly resistant, semi-manufactured rolled products to be used on flexible sheaths for the development of ever-deeper oil and gas fields. The site supplies Technip's manufacturing plants in France, Brazil and Malaysia.

This major contract strengthens ArcelorMittal's wire activities in Bourg-en-Bresse, which will see a significant

increase in its production to support the buoyant offshore market.

New fusion splicers

Fujikura Europe has launched two new fusion splicers, the 19S and the 19R.

The 19S was developed as a lower cost alternative to the 70S fusion splicer, launched earlier this year, and features a shrink time of only 14 seconds. It is fully ruggedized for resisting shock, dust and moisture and has a fixed v-groove, which follows the previous successful design. The design also streamlines the steps required to complete splices, resulting in greater productivity.

The features include an automatic and fully programmable wind protector, a multi-function transit case with integrated workstation and a sheath clamp for fiber holder operation.

"Fujikura Europe prides itself on delivering quality, reliable splicing products to the market. These products add even more options for our customers. The 19S is a similar but a lower cost alternative to our 70S so enables those with a smaller budget to be able to buy and use our revolutionary products while still getting better splicing times," said Neil Bessant, fusion splicer divisional director at Fujikura Europe.

Alongside the 19S, Fujikura Europe has launched the 19R. The 19R is a four-fiber ribbon fusion splicer with a wind protector, a 40-second tube heater and a high capacity Lithium-ion battery pack which can last for 110 splices/shrinks.



Fujikura's 19s fusion splicer. Photo courtesy of www.fujikura.co.uk

Fiber optic guide

Mayflex has produced a comprehensive fiber optics solutions product guide. The guide highlights the company's full fiber optic offering, together with the complementary products available.

There are also informative articles, including an overview of fiber optic cabling systems designed to guide customers when

choosing products for specific projects, and an overview of fiber cabling standards.

Mayflex offers a wide range of fiber products from stock, including bulk fiber, OM1, OM2, OM3 and OM4 along with OS2 for single mode transmission. Many stocked items are available in loose tube and tight-buffered construction types. Fiber patch leads complementing all grades of fiber are kept with various connector configurations and can be offered in lengths from 0.5m to 30m. The Sirocco blown fiber system is also available from stock.

Mark Simmons, sales director at Mayflex, said: "This guide is an excellent tool to convey to both our existing and potential customers the full extent of the fiber products Mayflex both provides and supports. This is yet another way in which Mayflex is highlighting the breadth and depth of products and services available offering our customers a true converged IP solution."

Micro-distribution cables

Opticonx has developed a new line of micro-distribution cables to add to its fiber optic product range. The new cables are designed to be high density, compact and cost effective for high-density pre-terminated MTP trunks, hybrid MTP/LC trunks, and LC/LC trunks for data center applications. They can also be field terminated when used with Opticonx's line of breakout kits.

"These cable designs complement our ribbon cable offering and provide our customers with a more complete choice for their pre-terminated, field terminated or fusion spliced installation," said Brian Keane, vice president of Opticonx.

Three new cable versions on offer include optical fiber non-conductive plenum (OFNP) indoor cables, optical fiber conductive plenum (OFCP) indoor armored cables, and optical fiber non-conductive riser (OFNR) indoor/outdoor cables from 2-72 fibers. All are available with OS2 single-mode and OM1 - OM4 fibers and can be customized for hybrid single-mode/multi-mode combinations.

Thunderbolt cables go optic

Corning Incorporated's optical cables have been Thunderbolt certified by Intel Corporation. Thunderbolt™ Optical cables by Corning are said to be the first all-optical fiber cables for the Thunderbolt community. Compatible with both Intel's Thunderbolt and Thunderbolt 2 computer and peripheral connectivity protocols, the optical Thunderbolt cables have undergone a rigorous certification process. They will be made available in varying lengths, starting at 10m. Thunderbolt Optical cables by Corning are designed specifically for Thunderbolt technology and allow users to easily manage the demands of high-bandwidth applications. The

electrically isolated, noise-reducing cables are up to 50 percent smaller in diameter and 80 percent lighter than comparable copper Thunderbolt cables.

"Based on Intel's Thunderbolt protocol, Corning is providing a fast, innovative cabling solution designed for data-intensive connectivity," said Bernhard Deutsch, vice president, product line management, optical connectivity solutions, Corning Telecommunications.

"[They] empower users to quickly access and move data between devices at distances copper cables cannot."

"Thunderbolt transforms the way users connect devices to their PCs, dramatically increasing data transfer rates," said Jason Ziller, director, Thunderbolt marketing, Intel Corporation. "Corning's new optical fiber cables should help accelerate Thunderbolt adoption by enabling faster media capture, editing, and backup at distances beyond ten meters."

New epoch for superconductors?

Epoch Wires Inc, a company specializing in superconducting wires, has announced the completion of experiments to produce an infinitely long magnesium diboride wire with excellent physical properties. The new wire is said to be producible at the lowest market price and with high production capacity to

meet mass-market demand. The company plans to begin production in early 2014.

Dr Serdar Atamert, founder and CEO of Epoch Wires Inc, explained: "Working with magnesium diboride as our base material guarantees low production and operating costs, however the main challenge we met was to make an infinitely long wire from this material in a high speed production line." He added: "We have overcome the conventional barriers of superconductivity in large-scale energy applications."

One of the immediate applications of the new Epoch Wire is in MRI machines. Manufacturers of MRI machines are troubled by the increasing costs of superconducting wires. In addition, operational costs of MRI machines are increasing due to the shortage and hence the upward trending price of liquid helium, which is used as the coolant. Magnesium diboride wire, cooled with cheap liquid hydrogen, could yield huge benefits for the medical industry.

Prof Bartek A Glowacki, co-founder and director of Epoch Wires, said: "Magnesium diboride wire presents a unique opportunity for energy applications, especially in conjunction with the emerging hydrogen economy both as a coolant and as an energy vector," adding: "Low manufacturing and operational costs are a typical blue print for revolutionizing the energy sector."

Automatic wire twister

Eraser's new WT300 automatic bench wire twister can twist two or more wires up to 20 feet in length. This durable twister is made for high production to achieve a repeatable number of twists per inch on a bundle of wire up to the equivalent of two 16 AWG uninsulated wires.



The WT300 has a reversible motor that enables it to twist, or untwist, in either direction, with a variable speed control that can be adjusted to perform from 0 to 26 turns per second. The WT300 is supplied with one wire entry guide and a set of steel clamp jaws that enable it to firmly grip magnet wire, very fine, and slippery wires.

XLPE-insulated motor cable

Helukabel® has extended its Topflex® product line with the introduction of Topflex 620 VFD. This flexible-PVC, XLPE-insulated power cable is designed for applications with high voltage spikes and long cable runs.

Built for industrial sectors that require the use of on/off or slow down/speed up VFD motor applications, the special PVC jacket is extremely resistant to oils, coolants and solvents, making it suitable for exposed runs, installation in pipes, or burial in the ground.

In areas where electrical interference may be an issue, Topflex 620 VFD is double-shielded for effective protection against electrical disturbances and the resultant failures. It has been rated for both 600V and 1000V applications, and can operate in temperature environments from -25°C to $+105^{\circ}\text{C}$, having passed both -25°C cold impact and -40°C cold bend tests.

This robust VFD cable is also suited to industrial environments such as petroleum refineries, and gasoline storage and dispensing areas. In the event of an explosion or fire Topflex 620 VFD is self-extinguishing and flame retardant in accordance with CSA FT4 and NFPA 79.

Topflex 620 VFD power cable is available in a four-conductor configuration in sizes from 16-2AWG.

Out of sight, not out of power

Ossia Inc took advantage of the main stage at September's TechCrunch Disrupt San Francisco to reveal its wireless power technology, Cota.

Cota technology, believed to be the first commercially viable remote wireless power system, is said to redefine wireless power by automatically delivering targeted energy to multiple devices from as far away as 30 feet, without requiring line of sight.

A 30-foot range is sufficient distance to cover an average two-storey home, establishing a new paradigm in power distribution that allows people to use Cota to charge or power a wide range of devices including phones, remote controls, cameras, video game controllers, flashlights, and smoke detectors.

During his onstage demo at TechCrunch Disrupt, Ossia CEO Hatem Zeine lit LEDs and recharged a smartphone from a distance of 10 feet using a prototype Cota-powered transmitter.

"We have been developing the Cota technology in stealth for the last six years," said Zeine. "By revealing for the very first time real wireless power that is remote, efficient and safe, Ossia expects to change everything you think you know about wireless power. Cota will unleash the imagination of product designers and entrepreneurs globally to innovate and create new products that only exist in a completely wireless state – one that is always on and always ready."

Ossia's patented smart antenna technology uses phased arrays to transfer power without

the use of inductive coils, ultrasonic waves, magnetic resonance, charging pads or mats.

Halogen-free alternative for flexible and appliance wire

A new low-smoke, flame-retardant thermoplastic elastomer compound, announced by Teknor Apex Co, could enable manufacturers of power cords for appliances and consumer electronics to produce non-PVC insulation and jacketing that does not contain phthalate plasticizers or halogen additives.

Halguard® E 59001 HFFR compound is designed for flexible cords, meeting UL 62 requirements, and for appliance wire that complies with UL 758. In addition to appliance wire, potential uses include power cords for computers, HDMI cables for televisions, wiring for device chargers and USB connectors.

The new compound enables cables to meet the requirements of UL VW-1 and cable flame tests, as well as the IEC 61034 smoke test. When tested in accordance with UL 1581, Halguard E 59001 meets deformation and heat shock requirements at 150°C, compared to 121°C for PVC. As a TPE-based formulation, Halguard E 59001 is inherently elastic, eliminating the need for plasticizer.

“Halguard E 59001 is based on proprietary polymer chemistry that yields a better balance of properties than standard HFFR cable compounds based on polyolefins,” said Mike Patel, industry manager for Teknor Apex. “At the same time, our new compound exhibits mechanical and electrical performance comparable to that of PVC while meeting the needs of wire and cable manufacturers who require an alternative to halogenated, plasticized materials.”



**PRODUCTS - MACHINES
& TECHNOLOGY**

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Send us the details and a photograph for our new Products, Machines & Technology section in wiredInUSA.

To make sure your editorial is published in the November edition – send us the details by **24th october.**

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