

Digital .
Networking .
Monthly .

wiredIn
USA

November 2013 issue - No 29

READ
WATCH
SHARE
IT

www.wiredinUSA.com



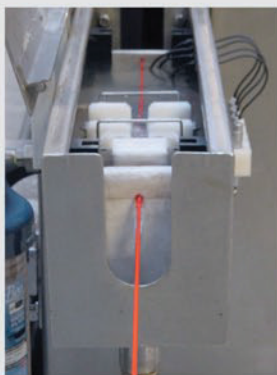
Well done is better than well said

Benjamin Franklin

Pioneer since more than 55 years of non-contact, in-line measurement, we stand for state-of-the-art solutions for your extrusion process under tight control. And when we say control, we mean control. Our experience and success in this field are the corner stone for modern, price-performance-oriented measuring systems.

When looking for impeccable control in all kinds of extruded cables, plastic/rubber tubing and hoses – Zumbach is your perfect partner. Our cost-effective ODAC®/ UMAC®/ WALLMASTER systems for OD/ID/WALL measurement and control are your optimum guarantee for best results.

Contact us – and get the future under control: askme@zumbach.ch



- Super high rate mode allows up to 15'000 measurements/s
- Up to 5 layer measurement (depending upon materials)
- Rapid die centring and production set-up



ZUMBACH Electronics

Switzerland, Argentina, Benelux, Brazil,
China, France, Germany, India, Italy,
Spain, Taiwan, UK, USA
www.zumbach.com

#29 EDITOR

There is always something satisfying seeing stories about the creation of new jobs and investment. So it's with little wonder that our main story this month concentrates on Southwire's \$95m expansion project in Carroll County, Georgia.

That investment will lead to a further 375 jobs – in addition to the 689 already created in Carroll County and Coffee County over the last two years. It's also fantastic to see the area's politicians and authorities working in harmony with the company in a bid to drive the region's economy and safeguard jobs.

This, it seems, is recognized by all parties concerned with Southwire president CEO Stu Thorn praising the hometown of Carrollton, which "has contributed immeasurably to our success." You can read the full story on page 9.

There's also a large section of this issue devoted to the IWCS technical symposium and exhibition, which starts on page 44. For those of you attending the show in Charlotte, North Carolina, please stop by booth 605 where you can get your free CD copy of wiredInUSA, and copies of sister publications EuroWire and Wire & Cable ASIA.

David Bell
Editor

CONTENT



#29

News

Editor

David Bell
david@wiredinusa.com

Features Editor (USA)

Dorothy Fabian

Features Editor (Europe)

Gill Watson

Editorial assistant

Christian Bradley

Design/Production/

Free Subscription

Hélène Phillips
helene@wiredinusa.com

Sales & Marketing (International)

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

Advertisement

Coordinator

Liz Hughes

Accounts Manager

Julie Case

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

28



06

SHOW DIARY
2013 and 2014

09

MAKING THE NEWS
Industry news from the USA

30

EUROPE NEWS
The latest news from Europe

36

INDUSTRY TRADE ASSOCIATION
Spotlight on awards, education and events

38

ASIA & AFRICA NEWS
The latest news from Asia & Africa

44

IWCS 2013
Charlotte, USA

60

PRODUCTS, MACHINES AND TECHNOLOGY
The latest news from machine industries

32



40



53

26



DIARY SHOW EVENTS

2013

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

MAY

6-7 May: **Wire Expo 2014**
Indianapolis, IN, USA
Exhibition
www.wirenet.org

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



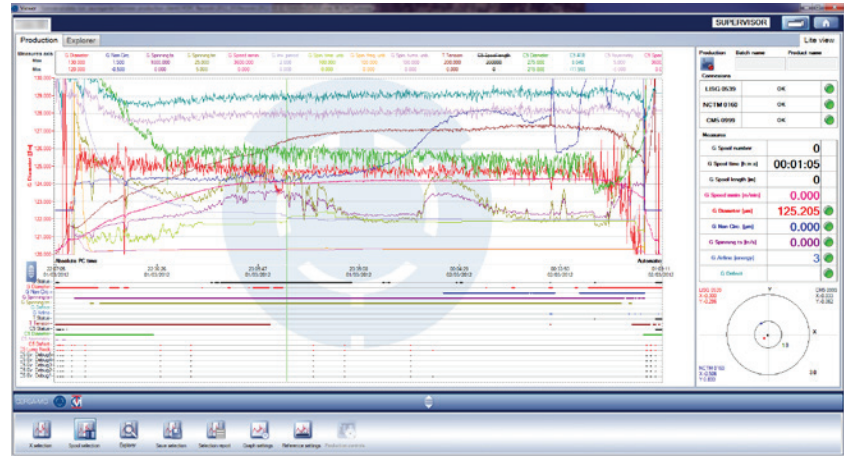
Measure & Control Instruments

OPTICAL FIBRES

Measurement Instruments

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:

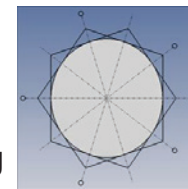
Non Contact Tension Measurement (Drawing force Birefringence principle)

- 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:

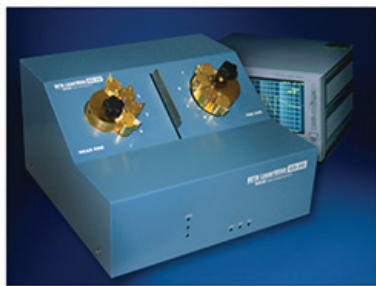
- AIR (AIRline detector)
- LDS-T (Laser Diffraction Sensor for transparent product)

Are You Spending Too Much Time Testing LAN/Data Cable?

If you are, there's a faster, simpler, and more reliable way.

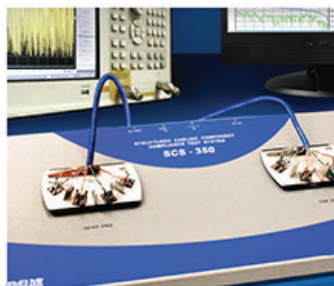
Come visit us at:
IWCS, Booth 514

DCM automated testing solutions can help you test more LAN cable in less time for higher quality results.



Test 4-Pair Cables up to 2.2 GHz DCM Model ES-2G

- Test Cat 7/7A ISTEP cables with Unshielded Twisted Pair (UTP) option for Cat 5 and Cat 6 testing
- Automatic 4-pair switching system
- Suitable for testing upcoming 40 Gigabit Ethernet applications including Cat 8 cable
- Simple, easy-to-use software for automated testing



Test 4-Pair Cables up to 600 MHz DCM Model SCS-350B

- Test Cat 5/5e and Cat 6/6A cables
- Automatic 4-pair switching system
- Simple, easy-to-use software for automated testing
- Test Unshielded (UTP) and Shielded (STP/FTP) Twisted Pairs
- Automatic internal calibration routine completed in seconds



Test 4-Pair to 28-Pair Cables up to 1 GHz DCM Model 3S-XLD

- Test Cat 5e, Cat 6/6A, and Cat 7 cables
- Highly reliable, fast, accurate solid-state switching technology
- 28-pair platform tests Alien Crosstalk in minutes
- Test seven 4-pair cables in one operation
- Simple, easy-to-use software for automated testing
- Time-saving, single-connection for HF and LF testing
- Automatic internal calibration routine completed in seconds

Contact us today to learn how DCM can automate and optimize your cable testing.



Scan QR code to learn more

BETA LaserMike
DCM Cable Testing Solutions

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

Get the datasheets at www.betalasermike.com/dcm

MAKING THE NEWS

\$95m investment and 375 jobs

Southwire is to invest \$95m and create 375 jobs by expanding its presence in Carroll County, Georgia, over the next four years.

The company, a manufacturer of wire and cable used in the distribution of electricity, has purchased a 144,000ft² facility in Villa Rice and has entered into a contract with Sony Music Holdings to purchase its 635,000ft² facility in Carrollton. The purchase is contingent upon completion of a 120-day due diligence period.

Governor Nathan Deal, in announcing the expansion, said: "Southwire continues to expand its presence within Georgia. This homegrown company was founded here decades ago, and its growth in Georgia reflects the advanced skills of our dedicated workforce as well as its overall satisfaction with our business-friendly environment."

Founded in 1950, Southwire remains headquartered in Carrollton and has a long track record of creating and retaining jobs in the state. In 2011 and 2012, the company created more than 600 jobs in Carroll County and 89 jobs in Coffee County.

"Southwire continues to pursue meaningful growth across all of our markets as we strive to become and remain leaders in each of those businesses," said Southwire President and CEO Stu Thorn.

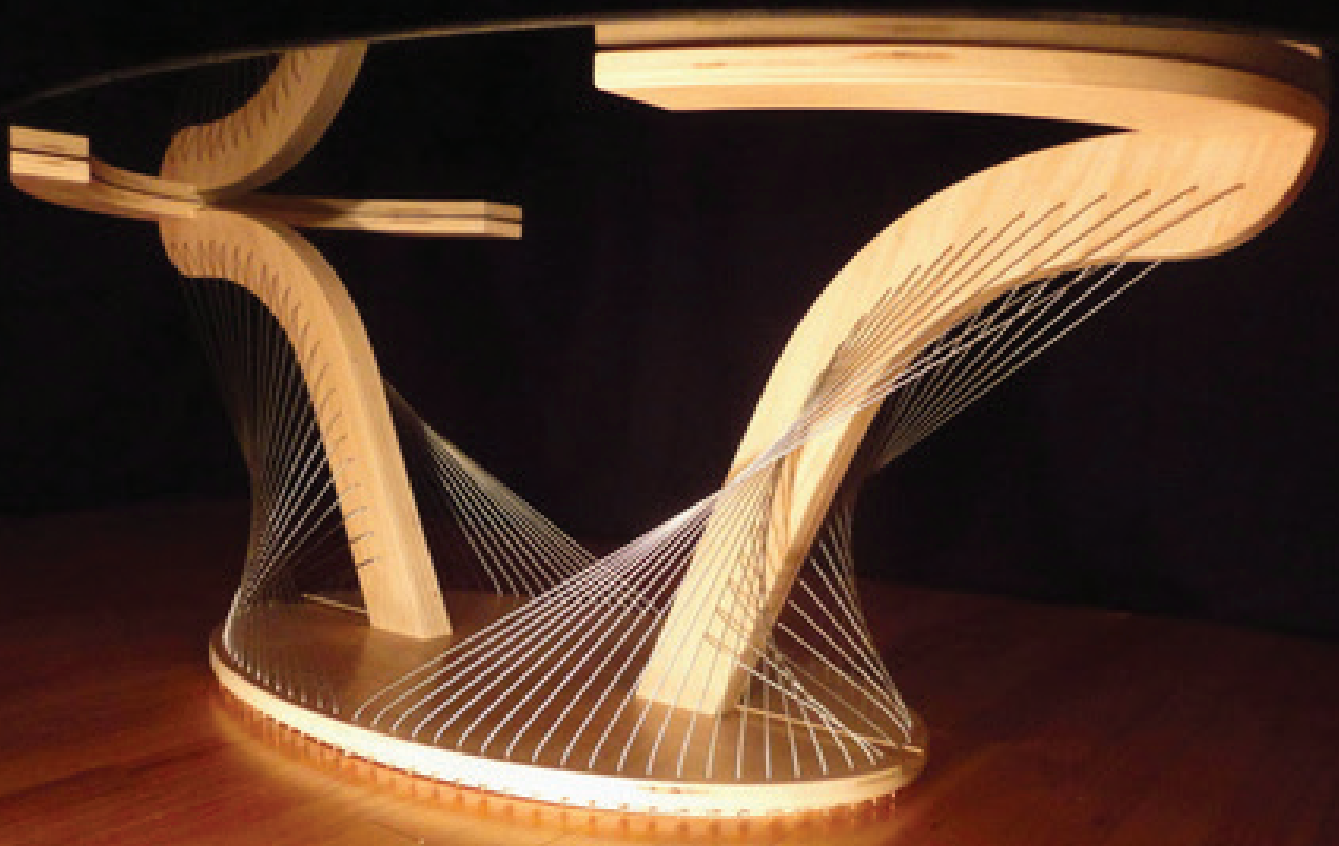
"These facilities and the new jobs they provide are tangible proof of that commitment. They also demonstrate our commitment to focus new growth in our hometown of Carrollton, which has contributed immeasurably to our success."

Southwire delivers power to millions of people around the world. In fact, one in three homes built in the United States contains wire made by the company. Half of the utility cable used to distribute electricity throughout the country is manufactured by Southwire. The company also provides cable and wire solutions for the commercial, industrial and OEM markets and recently launched a line of electrician's tools to complement its Maxis brand of contractor equipment.

Cables for comfort

The Verge.com reports on the San Francisco-based designer Robby Cuthbert, who creates architectural furniture made from wood and steel cables. The rows of cables in his chairs, lamps, and tables are precisely placed to maintain stability and strength through tension alone, similar to a suspension bridge.

None of the pieces use adhesives or fasteners to stay intact for a furniture-meets-sculpture effect. Cuthbert explains on his website that laser cutters and 3D printers are key to his work.



Allied teams up with students in need

Allied Wire & Cable has joined forces with Business Leadership Organized for Catholic Schools (BLOCS) to provide scholarships to students of local Catholic schools. Allied's donation of \$250,000, will enable BLOCS to award over 100 scholarships to students in need.

The scholarships provide funding to students that would otherwise be unable to afford a private education at Pope John Paul II High School and other Catholic schools in the Philadelphia area.



Allied has made a two-year commitment to the BLOCS program, and will be making another \$250,000 donation in 2014. Tim Flynn, co-owner and president of Allied Wire and Cable, was also offered a position on Pope John Paul II High School's advisory board.



Go the **fast way** to enter **new markets**

SPECIALTY WIRE & CABLE COMPOUNDS MADE IN THE U.S.A. (INHOL LLC), EUROPE AND FAR EAST



EN 50264
EN 50306



MIL-C-17
MIL-DTL-24640



MIL-DTL-24643
MIL-PRF-85045



MIL-W-22759
MIL-W-81044



NEK 606
TUV 2Pfg 1169



VG 95218/20
VG 95218/28

Inhol B.V. • Zuidergracht 12 • NL-3763 LV Soest • The Netherlands • E-mail: office@inhol.com
 Phone: (+) 31 3560 33 234 • Fax: (+) 31 3560 33 235 • www.inhol.com

Military put at risk by faulty fasteners

A man has admitted in federal court that he sold defective self-locking nuts to the US department of defense for use in military aircraft.

The nine-count indictment said that Martin Dale Geyer had supplied counterfeit nuts, bolts and screws to the military in 2009 through his company, Wellworth Fastener Products. Invoices submitted for payment stated that the parts met government specifications, but they did not, the indictment stated.

Investigators also found steroids, nine guns and 3,000 rounds of ammunition when they searched Geyer's home in 2010, reported Michael E Hampp, a special agent with the defense department's defense criminal investigative service.

Hampp said the defective parts were considered to be "critical application items" and that failure of the parts could lead to injury or death. The parts were also used in nuclear power plants.

Geyer could be sentenced to 20 years in prison and ordered to pay a \$250,000 fine for mail fraud, a year in prison and a fine of \$100,000 for steroid possession, and 10 years in prison and a fine of \$250,000 for the firearms crime.

According to FedSpending.org, a website that tracks federal contracts, Wellworth received \$157,285 for federal contracts during 2009.

Get connected

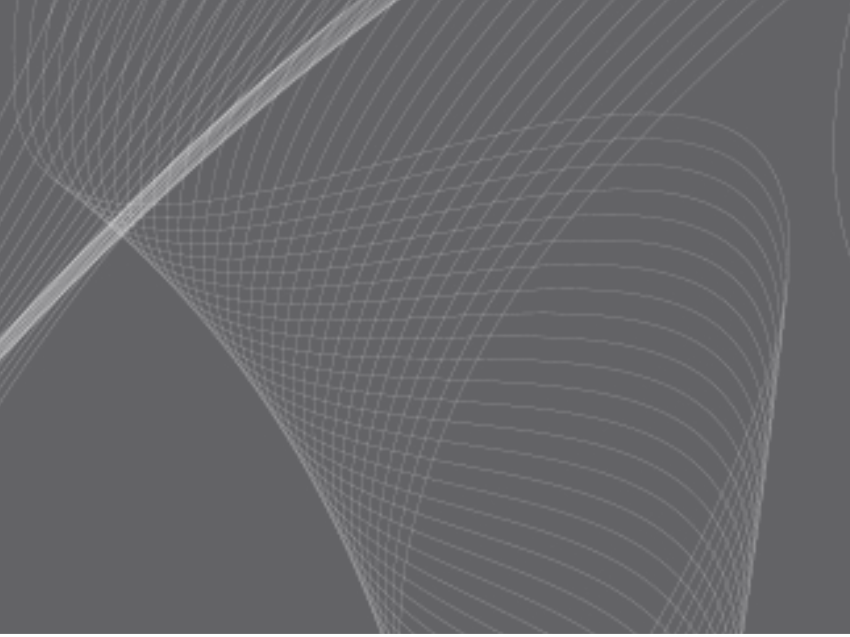
Conductors for Aerospace & Defense



LEONI has been drawing copper wire for centuries. Now after 20 years of manufacturing in the US we have one of the most comprehensive programs of conductor material for the cable industry, with world-wide availability. Bare, tin, silver and nickel-plated copper wires and stranded conductors with excellent extrusion properties as well as copper flexibles for electric and electronic components.

The Quality Connection

LEONI



Wire mill upgrade

Loos and Company has completed upgrades to its wire manufacturing operation with the installation of a third new, in-line, ultrasonic wire cleaner. The new equipment adds 24 additional lines of capacity to complete a wire mill expansion project which began in spring 2013.

“We’re very excited to have the additional capacity,” said wire mill general manager, Joe Stagon. “We’ve been able to both improve product quality, increase output, and continue to support our expanding customer base.”

The additional capacity marks a continuance of planned upgrades that Loos & Company is making to its equipment and facilities. Following the recent expansions of its medical wire drawing operation and wire mesh knitting capacity, the cleaning line upgrade will provide more throughput of upstream wire products into the company’s specialized product manufacturing divisions.

“We have seen an increase in business across our entire product line over the last few months,” said wire mill sales manager Mike Fredrickson. “Our new equipment has allowed us to keep up with customer demands, in both quantity and quality.”

Loos is planning to make additional investments before the end of the year, focusing on the expansion of wire drawing and coiling capacity for products destined for resource recovery and energy production.

IWCS

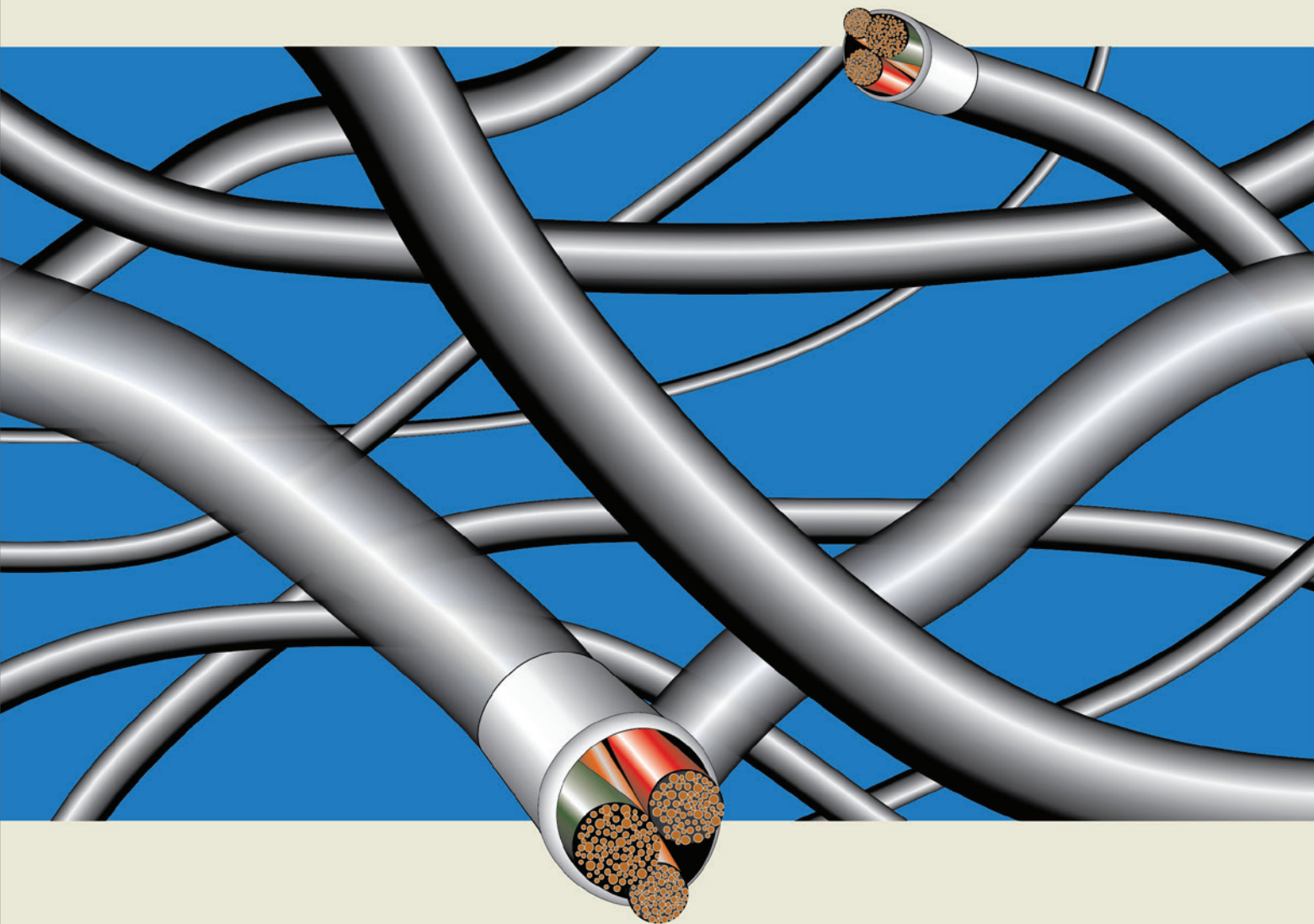
THE
**International
Cable • Connectivity
Symposium**

Industry Leadership, Innovation
and Professional Development

2013 62ND IWCS

INTERNATIONAL CABLE • CONNECTIVITY SYMPOSIUM

The world's leading conference for peer reviewed technical papers and presentations on technologies and trends in wire, cable, connectivity and assemblies for the communications, data, electronics, power, industrial, automotive and aerospace industries.



NOVEMBER 10-13, 2013

CHARLOTTE CONVENTION CENTER
501 S. COLLEGE ST. CHARLOTTE, NC 28202

New appointment at Scovill

James I Pinto has joined the board of Scovill Fasteners, a part of The Gores Group portfolio of companies. Following his announcement, Craig Stoudt, chief executive officer of Scovill Fasteners, said: "I'm pleased to have someone of Jim's caliber and experience join our board, and am excited for our team's opportunity to work with him."

Scovill is a manufacturer of closures and fasteners for a range of markets, including sporting goods, military, marine and medical.

"I look forward to partnering with Craig and the Scovill leadership team," said Pinto. "The business has made significant progress during the past year, and I look forward to assisting the team with continued top line growth and operational improvements."

Pinto has held various operational and supply chain roles throughout his career across a variety of aerospace and industrial businesses including Textron Lycoming, Greenlee Textron and Textron Fluid and Power as well as Tyco International's electrical and metal products business unit.

AECOM wins Mauritania contract

AECOM has been awarded a \$2.3 million contract by Société Mauritanienne d'Électricité (SOMELEC) for an electricity transmission and distribution (T&D) project.

The project, financed by the Arab Fund for economic and social development, will include feasibility and engineering studies, tender documents and assistance to the owner for the construction of 90kV and 33kV transmission lines and associated substations.

"Through this project, we will help the government of the Islamic Republic of Mauritania reach its objective of increasing the urban and rural electrification rates and the energy offer through the extension of the electrical network," said Damien Tholomier, AECOM's regional energy business line leader in Canada.

"We have put together a team of highly experienced T&D professionals, and we are confident that their talent and expertise will provide the expected results for this project, which is important to the country's economy."


TUBE

São Paulo



Moscow



Shanghai



Bangkok



Dubai

WIRE


Mumbai



join the best

w o r l d w i d e

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.mdna.com>

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

Messe
Düsseldorf



PolyOne to expand in India

PolyOne Corporation is to expand its operations in India.

PolyOne has begun construction on a new facility in Pune, India, that will manufacture specialty materials, including solid masterbatch, liquid colorant and additives. The facility will operate development labs, sales and a customer service center for the region, and is expected to open in the first quarter of 2014.

“With advanced design capabilities and enhanced manufacturing flexibility, we will offer customers in India an even broader array of solutions and improved delivery times,” said Vikas Vij, managing director for PolyOne’s operations in India.

“Demand for advanced specialty solutions in India is increasing – particularly in automotive, packaging, wire and cable and healthcare – and our expanded presence will position PolyOne exceptionally well to collaborate with and serve our customers.”

Robert M Patterson, executive vice president and chief operating officer, added: “Consistent with PolyOne’s globalization strategy, our investment in India augments other recent announcements, including a new joint venture specialty colorant facility in Jeddah, Saudi Arabia, and plans to begin thermoplastic elastomer production in São Paulo, Brazil.”

Digital .
Networking .
Monthly .

wiredIn
USA

EASIER QUICKER LIGHTER

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



Delivered direct
to your email inbox
or available online

FREE...
so pass on
to colleagues!

Register online at

www.wiredinUSA.com

Financing closes for 1,000MW transmission project

JCM Capital has closed development financing for an underwater high voltage direct current (HVDC) transmission project with Lake Erie Power Corp (LEPC) to connect Ontario to Pennsylvania.

The project, known as the Lake Erie CleanPower Connector, would bring hydroelectric, wind, solar, natural gas and nuclear energy to the PJM grid, which supplies electricity to 13 states and the District of Columbia. The privately funded project is estimated to cost \$1 billion. Commissioning is targeted by the end of 2017.

"JCM Capital is excited and proud to be financing and providing co-development services for this early stage and high profile HVDC transmission project," said Martin Ritchie, JCM Capital's CFO. "The new inter-tie will allow Canada to transmit surplus clean energy power generated via Ontario's Green Energy Act to the PJM markets where there is a demand."

To complete the Lake Erie CleanPower Connector, two solid, six-inch transmission cables will be placed beneath Lake Erie, from Nanticoke, Ontario to Erie County, a distance of approximately 65 miles.



Sylvin takes up UN initiative

Sylvin Technologies has amended its material safety data sheets to comply with the Globally Harmonized System of classification and labeling of chemicals – the United Nations' new method of classifying and labeling chemicals. "The major benefit will be that every hazardous chemical will be evaluated in the same way, throughout the world, and the

information on the safety data sheets will be in the same format," said John Schlitzer, Sylvin's director of product development.

According to the occupational safety and health administration (OSHA) full compliance to the Globally Harmonized System is required by 1st June 2016.

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



PARAMOUNT DIE

Drawing Systems for the Wire Industry

www.paradie.com

1206 Belmar Drive • Belcamp, Maryland 21017 • USA



Perryman announces expansion program

Perryman Company has announced a \$40 million expansion of its titanium products capacity. The expansion will take place at both Perryman company sites—Houston, PA and California, PA – and will effectively double the company's capacity to produce aerospace fastener stock material and ingot, bar, coil, fine wire, net shapes, and hot rolled products for medical and other markets.

"We are preparing for the future and want to have

capacity in place well before it is needed. Our current capacity is more than adequate for current demand levels as well as for the next several years. This initiative is aimed at demand peaking in the 2016-2018 timeframe," said Frank Perryman, president and CEO.

"The foundation for the investment centers on Perryman's dedication and support of its two key markets – aerospace and medical. Demand for new,



more efficient, commercial aircraft continues to grow at record rates.



“Production rates have been steadily increasing and our forecast models project a rising need for titanium fastener stock material. Our expansion is intended to support and align with our customers’ growing needs for Perryman material.”

The new Boeing 787 and Airbus A350 twin aisle aircraft will consume a higher number of titanium fasteners. “Increased aircraft production rates translate into higher demand for titanium fastener stock – a segment where Perryman is firmly established as a major supplier. Our decision to make this investment is in support of that demand,” Perryman added.

Optical network in the Amazon

TIM Brasil has selected and deployed 100G optical networking equipment supplied by Xtera Communications Inc for a long-haul transmission infrastructure to connect three Amazon states in the northern part of Brazil.

Xtera's Nu-Wave Optima™ 100G optical networking platform is providing the high capacity and long-span capabilities necessary to expand reach through the Amazon region.

This new optical backbone network was built using the tower transmission lines and power substations of the LT Amazon consortium to transport the TIM Brasil cables across 27 cities in the states of Amazonas, Pará and Amapá. Due to the challenging geography of this environment, five out of the 14

spans that make up this infrastructure exceed 200km between sites where active optical equipment is positioned. The longest of these spans is almost 260km.

Xtera's Nu-Wave Optima platform is a modular optical transport system, designed to lower the total cost of ownership by using a common, integrated set of modules for long-haul, unrepeated and regional repeated submarine applications.

For terrestrial backbone networks, the Nu-Wave Optima equipment delivers a line capacity of 15 Tbit/s over 3,000km with no intermediate regeneration. For unrepeated applications, a capacity of 8 x 100G was recently transmitted over a 481km cable.

At the Exposições Imigrantes Exhibition Centre in São Paulo, Brazil



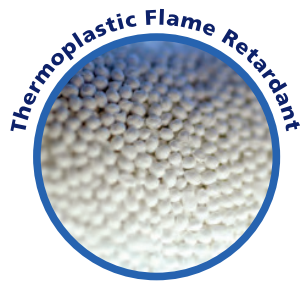
a division of *sāco polymers*



sācopolymers.com

APPLIED EXCELLENCE IN COMPOUNDING

PRODUCTS



INDUSTRIES



AEI COMPOUNDS LIMITED :: SANDWICH INDUSTRIAL ESTATE :: SANDWICH :: KENT :: CT13 9LY :: UK

+44 (0) 1304 616171 tel :: +44 (0) 1304 616170 fax :: sales@aeicompounds.co.uk :: www.aeicompounds.com

Fiber route linking US to Brazil

Sunesys LLC has been selected by Seaborn Networks to provide a diverse backhaul solution in the US for the Seabras-1 submarine cable project.

Seabras-1 is a 40Tbps submarine cable system currently under construction for Seaborn Networks by Alcatel-Lucent Submarine Networks. The system will provide the first direct route between São Paulo and New York, with a branch landing in Fortaleza, Brazil.

Sunesys, a dark fiber and lit network services provider with over 8,900 fiber route miles in the US, will shortly begin the construction and delivery of a new diverse fiber backhaul network to provide Seaborn Networks with

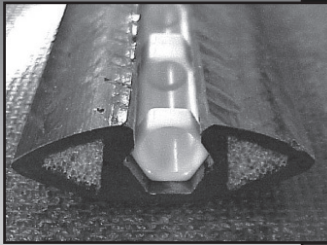
connectivity from Seabras-1's US landing station to CoreSite and Equinix facilities in New Jersey.

"Seaborn is building one of the largest bandwidth submarine cable systems in the world and Sunesys is honored to provide the terrestrial cornerstone of that network in the US," said Alan Katz, senior vice president of Sunesys.

"Our new diverse fiber network will be ready towards the end of 2014 to ensure the high quality and reliability of the end-to-end solution provided on Seabras-1."

Seabras-1 is scheduled to begin service during in 2015.

KEIR - BackBone™ Flyer Bow



Features:

- Improved bow strength (no holes)
- Wire is out of the airstream
- Bow shaped like a wing for improved aerodynamics and low cw factor
- Wear strip eliminated and replaced by wear bushings with windows for easy inspection and dust cleaning
- Wear bushings can be changed while bow is mounted on the rotor

Advantages:

- Lower power (amps) consumption and reduced noise
- Higher TPM - maintaining wire quality
- Reduced elongation @ higher TPM
- Reduced bow breakage
- Increased life on wear surfaces reducing down-times and maintenance
- Wire breaks are contained within the bow - extending bow life

US Patent #6,233,513
#5,809,703 and Other
Patents Pending



KEIR Manufacturing, Inc.

Phone: +1.828.885.8444
 Phone USA: 800.992.2402
 Fax: +1.828.884.7494
 Email: sales@KEIRmfg.com
 Website: www.BackBoneBows.com
 www.KEIRmfg.com



Beautification project relocates power cables

The Canadian district of Sparwood and BC Hydro have commenced work on a beautification project that will relocate overhead power cables underground to improve the aesthetics of the community's downtown area.

Commenting on the initiative, Mayor Halko said: "This is the first of two such beautification projects which will enhance the look and feel of our downtown area, as well as improve the routing of power to certain areas and businesses in the downtown core. We are pleased to have had the support of BC Hydro through their beautification grant."

The \$350,000 project follows the recent announcement of a range of significant

investments in Sparwood and is one of a number of infrastructure projects that will facilitate further investment in the community.

BC Hydro's beautification program assists municipal governments in achieving their objectives towards environmental concerns, improving visual aesthetics or to accommodate a public redevelopment project. BC Hydro shares up to a third of the electrical cost with municipalities to relocate overhead distribution lines underground.

BC Hydro contacts municipalities every year, outlining the program criteria and application requirements.

DOWNLOAD IT ...

2014
Media Pack
Now available



In print
On-line
CD Rom
Apps



Eurowire magazine 

@EOW_magazine 

... and book
your advertising
now

www.read-eurowire.com



EUROPE NEWS

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



voestalpine plans thoroughly modern mill

voestalpine Austria Draht is set to have completed an ambitious new mill project by 2016 – the construction of what could be Europe’s most modern wire rolling mill at voestalpine’s Leoben-Donawitz site.

On start-up, the mill will produce around 550,000 tons of wire rods each year for the automotive and energy sector. The investment will secure the long-term future of the Donawitz site, headquarters of the voestalpine Group’s metal engineering division.

In recent years, the group has invested over one billion euros in its eight sites in Styria. During the last business year, around 8,000 employees in the metal engineering and special steel divisions in Styria generated revenue of €3.3 billion. 800 new jobs were created and 360 apprentices trained in the region.

The contract to build the new rolling mill was awarded to the Italian constructor Danieli, and the new walking beam furnace will be supplied by Styria’s Andritz AG.



“In future, voestalpine will primarily expand in regions outside

Europe, in growing markets such as Asia or North and South America. At the same time, however, investments such as this also secure existing Austrian sites over the long term,” explained Franz Kainersdorfer, member of the management board of voestalpine AG and head of the metal engineering division to which voestalpine Austria Draht belongs.



Croatian wind farm

President of the Croatian Republic, Ivo Josipović, has inaugurated the 30MW Jelinak wind farm. It is the first to be installed by ACCIONA Energía in the country and is capable of covering the electricity demand of over 30,000 Croatian households. ACCIONA is the first Spanish wind power developer to put a wind farm into service in the country.

Located in the region of Split-Dalmatia, the Jelinak wind farm utilizes 20 1.5MW turbines. It will produce around 81 million kilowatt-hours per year, and replace fossil fuel equivalent to about 48,000 barrels of oil in the same period. It will also avoid the emission of 77,841 metric tonnes of CO₂ into the atmosphere from conventional coal-fired power stations, with a cleaning effect on the air similar to that of almost four million trees.

This wind farm is the first of a series that ACCIONA Energía plans to implement in Croatia. The company is currently applying for a further two wind farms in the country, with a total capacity of 78MW.



Steel wires on the up – and down

The third steel rope in the history of the funicular railway in Saint Hilaire du Touvet, France, is currently in production at ArcelorMittal's site in Bourg-en-Bresse, France.

The 1,600m high-tensile strength steel wire cable, due to be installed later this year, will connect the towns of Saint Hilaire and Montfort, in the Rhône-Alpes region. Around 40,000 people use the railway every year.

Inaugurated in 1924 the railway has 80 percent of its slope on a 45 percent incline, and at its steepest reaches an 83 percent incline. The rope was replaced for the first time in 1972, and is now due to be replaced again after 41 years.



Delfingen's Kartar acquisition

French company Delfingen Industry has acquired the Pune, India-based Kartar Wire Industries Pvt Ltd.

The acquisition is expected to strengthen Delfingen's position in automotive wiring harness protection solutions, while supporting its local and international customer base in the growing Indian market.

Kartar Wire Industries was established in 1981 as a manufacturer of PVC profiles, beadings and corrugated tubes, including profiles and sleeves used to protect electrical wiring harnesses. The company's manufacturing plants are located in Pune and Gandhinagar and its products are supplied solely to the domestic automotive industry.

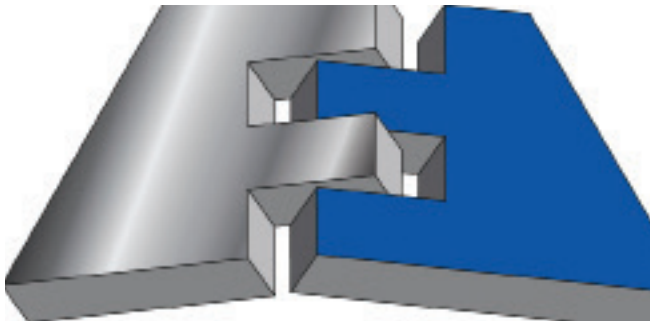


New facility starts production

As part of its expansion into the Russian market, Prysmian Group has opened its new medium and high voltage cable production facility in Rybinsk, in the Russian Yaroslavl region.

The Rybinsk plant, which also produces cables for the oil and gas industry, fire performance (LSZH) cables and auto wires, will shortly supply the full range of applications in the energy cable business, including medium voltage cables up to 35kV and high voltage cables up to 330kV with 2,500mm² maximum cross-section and cross-linked polyethylene insulation.

The new production area extends across 120,000m², and will add 10,000 tonnes of annual production capacity. The Yaroslavl region will become Russia's main area for cable and wire production, with the total production capacity of the region's cable manufacturers meeting 20 percent of Russia's energy cable demand.



Fastener Fair Russia 2014

Following the successful launch of Fastener Fair Russia, the next event will be held in Moscow from 14th to 16th May 2014. The event will once again bring international suppliers of fastener and fixing technology together with Russian distributors, wholesalers, users and manufacturers.

The exhibition profile of Fastener Fair Russia covers industrial fasteners and fixings, construction fixings, assembly and installation systems, fastener manufacturing technology, storage and logistics services.

Fastener Fair Russia is part of the Fastener Fair series of targeted trade exhibitions for the fastener and fixings industry, which includes Fastener Fair Turkey, Fastener Fair Mexico, Fastener Fair Hannover, Fastener Fair Brasil, Fastener Fair India, and the flagship event Fastener Fair Stuttgart.



Skanska wins ABB contract

Skanska has signed a contract with ABB AB to construct test facilities for high voltage cables. The facilities will be built at the ABB high voltage cable site in Karlskrona, Sweden, and is believed to be the world's largest cable test facility.

The project will comprise the construction of a 12,000m² facility and is a part of ABB's investment for increased production capacity at the Karlskrona site.

Construction is planned to begin during autumn 2013, and the buildings will be completed at the end of 2015.



Fastener company looks further afield

A manufacturer in the UK's Black Country region is furthering its international expansion after recent investments in staff and machinery.

Hague Fasteners is set to more than double its exports by supplying markets in Asia, Australasia, Europe and the Middle East.

The fastener and component maker has bought a 4-axis CNC machining center, launched a new website and started an online marketing campaign. Managing director Jon Hague said: "We've had our best ever year since relocating to Willenhall in 2008, with international sales now accounting for almost 50 percent of our business – more than double the levels we enjoyed prior to moving.

"There has been a massive shift in purchasing attitudes and customers are now actively seeking British-made products and we've had to move quickly to take advantage of this."

Hague Fasteners is expecting a further 20 percent increase in sales by the end of 2013.



Harnessing the power of Swansea

Swansea Bay Tidal Lagoon, expected to be completed in 2017, will be the world's first purpose-built tidal energy lagoon, capable of generating predictable, renewable electricity for more than 120,000 homes over 120 years.

Designed by LDA Design, the £750 million energy generating scheme also features new beaches and areas for water sports, as well as links to Swansea University's new waterside campus, with a visitor center and sports facilities.

The power of the Welsh tides will be harnessed to provide reliable and long-term electricity. Plans include low-cost electricity tariffs for local homes, and a share offer.



First wire South America successfully concluded

wire South America - International Wire and Cable Fair – was held for the first time from 1st to 3rd October 2013, at the Exposições Imigrantes exhibition center in São Paulo with 173 exhibitors from 26 countries.

Brazil's boom in the construction, automotive and consumer electronics industries has led to a marked increase in the demand for wire, cable and tube products. The approximately 15,000 trade visitors registered during the three days of wire South America and TUBOTECH confirmed that there is an increasing interest in an international trade fair for these sectors on the South American continent.

Exhibitors presented their innovations covering 32,000m² of gross exhibition space in total. wire South America served as an ideal platform for presenting innovations in wire and cable manufacturing and processing to the international trade audience.

The event has been an outstanding opportunity for visitors from Brazil and its neighboring countries to obtain information on their own continent, while international exhibitors have had an ideal opportunity to present themselves to South America as an important and attractive market of the future.

The organizers, Messe Düsseldorf and Grupo Cipa, were pleased that wire South

America attracted not only international market leaders but also group stands from the United States, Italy and China.

The International Wire & Machinery Association (IWMA) was delighted to support wire South America and Steven Rika, chairman, confirmed that the trade fair had gone well: "As on other occasions, this gave us an opportunity to support the members of our association at this renowned event in São Paulo.

"wire South America – a project which is jointly organized by Messe Düsseldorf and Grupo Cipa – is still in its infancy, and we therefore found the positive response of our members very encouraging for the future. We are confident that this exhibition will become a very clear fixture in the trade fair calendar of the industry. As an industry association, we will promote the next wire South America events among our membership."

The trade fair in São Paulo benefits from the experience previously gathered by Messe Düsseldorf through its leading international trade fair – wire, the International Wire and Cable Fair which will be held again for the 14th time at the Düsseldorf Exhibition Centre from 7th to 11th April 2014.

The next wire South America will be held from 6th to 8th October 2015 in São Paulo.

Promoting new technology, education and growth

Here at the IWMA we consider our primary function is to promote new technology, education and growth within the wire and cable industry.

Our conferences and educational seminars provide an international forum for the exchange of technology, regular focused meeting places for the industry and excellent reference sources from our library of past papers.

As a proud industry partner of Messe Düsseldorf GmbH, we offer assistance to members wishing to exhibit at the best international wire exhibitions as well as helping provide excellent publicity opportunities through the "Wire & Cable News" newsletter and wirefirst.com directory web site.

The IWMA also realizes how important it is not to rest on its laurels and keep one eye very firmly on the future. Through both the IWMA's Educational Trust Fund and its Travel Award scheme we actively encourage the gaining of new skills and experience for future rising stars in the industry.

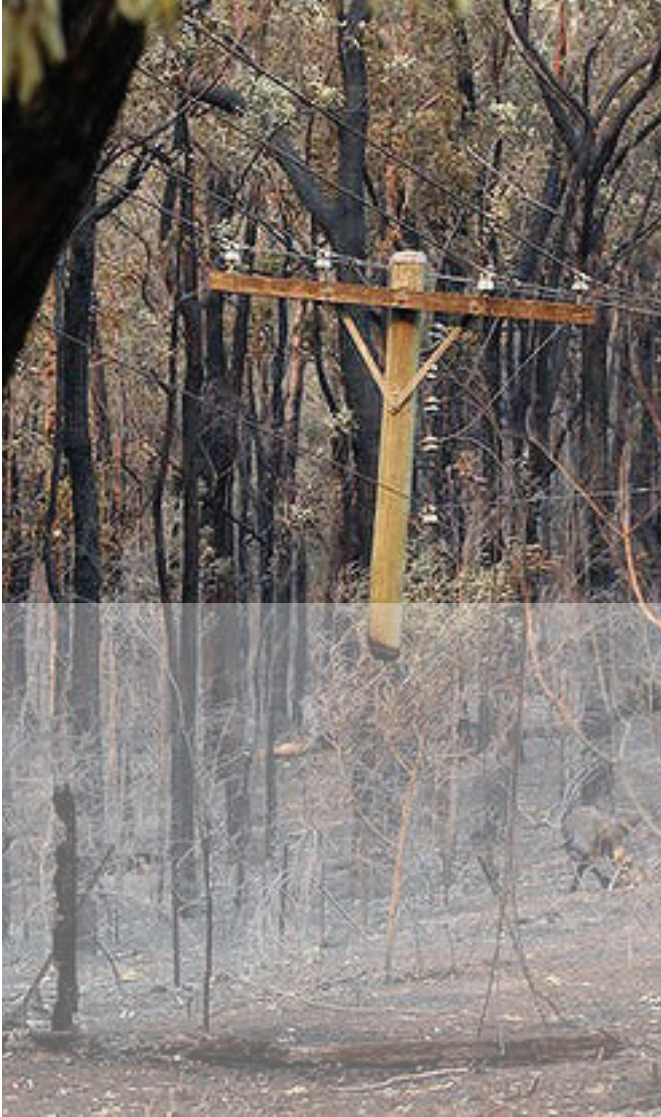
Visit www.iwma.org for further information on the services provided

Lunch date for members

IWMA members will again have the opportunity to invite their guests to the traditionally successful "meet the industry luncheon" held at the Mere Golf & Country Club, Knutsford, Cheshire, UK on Wednesday 12th February.

This year's luncheon will be held following the association's 43rd annual general meeting and is an excellent opportunity to network with fellow industry associates and discuss the latest issues over a drink and lunch.

ASIA & AFRICA NEWS



Warning of cable at heart of Springwood inferno

The Blue Mountains, New South Wales, Australia, bushfire that claimed almost 200 properties might have been prevented if required tree maintenance had been carried out.

A tree with cables running through its branches is believed to be the seat of the fire that jumped a road then engulfed houses in Springwood, Winmalee and Yellow Rock. Fairfax Media established that an order to prune the tree had been issued by the power company in July.

A resident said she heard noises that sounded like cables arcing, before the fire jumped across the road to ignite bush cover.

Ms Stubbs' property adjoins the property with the tree in Linksvie Road, Springwood, the site used to identify a fire that burned out over 2,000 hectares and which reached a state-of-emergency status.

Ms Stubbs said that, earlier in the year, she had received a notification from Endeavour Energy asking her to cut back foliage near electric cables, which appeared to relate to a straggly red bottlebrush plant near the wires. She said her neighbor, a tenant, told her he had received a similar document relating to the large tree at the front of his landlord's property.



Bhutan's winter power shortfall

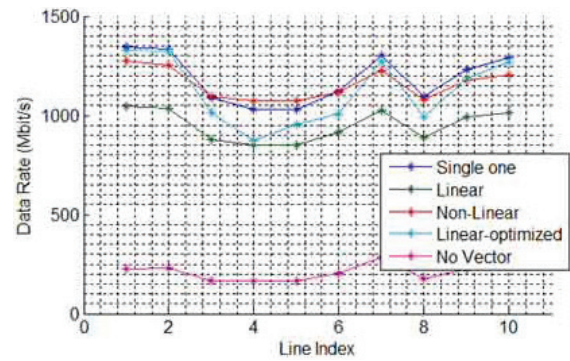
Bhutan is looking to import up to 200 million units of power this winter, probably from India.

With an estimated exploitable potential of 23,760 MW in hand, Bhutan's present installed production capacity is around 1,500MW. Despite its own generation of around 6,500 million units against an average annual domestic demand of only 1,500 million units, Bhutan needs to import power.

As Mr C Rinzin, managing director of Druk Green Power Corporation (DGCP) explained, with most hydropower plants of Bhutan being on 'run of the river' schemes, generation is entirely water flow dependent. Water flow is at its lowest level during the dry winter season.

This winter Bhutan's wintertime import need is expected to reach 200 million units, with the upward trend likely to continue until 2016 when the 1,200MW Phunatshangchu project begins operation.

Bhutan earns 45 percent of its total revenue and 20 percent of GDP from hydropower export.



BT trials G.FAST

Huawei has announced a fiber to the distribution point (FTTdp) G.FAST technical field trial in partnership with the UK's BT.

G.FAST technology allows existing copper connections to reach speeds comparable to optical connections, with the potential to facilitate Gigabit per second broadband speeds to domestic and commercial customers without causing the major upgrade disruption associated with Fiber-to-the-Premises technology. By maximizing the potential capacity of existing copper wire infrastructure, successful deployment of G.FAST technology could accelerate the rollout of ultrafast broadband in the UK.

The G.FAST trial, located close to the BT Adastral Park R&D centre in Ipswich, UK, has seen multi-port G.FAST equipment installed in underground distribution points. G.FAST permits the last leg of an ultrafast network connection to be carried out with copper wire where previously only optical cable was capable of reaching adequate speeds.



Airlines expand wire harness production

Boeing and Ethiopian Airlines have announced an agreement to double wire harness production at Ethiopian Airlines' wire harness facility in Addis Ababa. The agreement was signed at the Corporate Council on Africa's 9th biennial US-Africa business summit in Chicago, designed to develop closer business relationships between African and US industries.

The Ethiopian Airlines facility currently supplies seat-to-seat wire harnesses for all Boeing commercial airplane programs. Following the announcement, Boeing and Ethiopian Airlines will place additional work at the facility to manufacture more varied and complex wire harnesses and so expand its value as an aerospace supplier.

Also in 2012, Ethiopian Airlines' facility was recognized by Boeing for its outstanding performance and awarded a gold rating in Boeing's performance excellence awards – the highest rating a Boeing supplier can achieve.



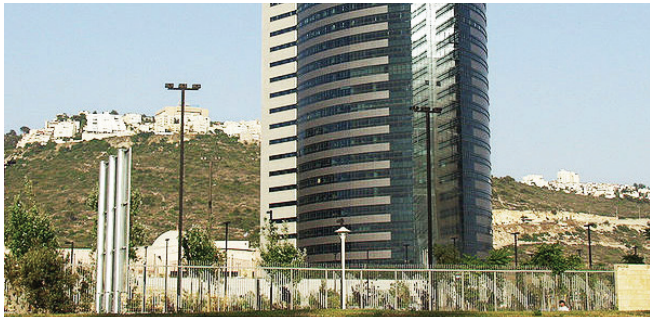
Subsea joint venture

Subsea cable installation companies Global Marine Systems and PT Ketrosden Triasmitra are to form a joint venture to provide subsea cable engineering and installation services to the telecommunications and oil and gas industries in the Indonesian market.

The partnership between the two companies will see the installation of over 600km of cable this year as they collaborate on the Luwuk-Tutuyan and Jambi-Batam submarine cable projects. They will install a further projected 2,000km during 2014.

The joint venture will own and operate cabotage compliant vessels and provide feasibility studies, marine surveys, shallow and deep water installations and burial solutions.

Triasmitra founder and chief executive officer Ketut Romadhi said: "Global Marine, with its unparalleled history in the provision of services to the submarine cable industry, is the ideal partner to expand our expertise and quality of service for our customers in Indonesia."



IEC workers get 10 percent

Israel Electric Corporation (IEC) employees will receive 10 percent of a fiber optic venture in which the utility is a partner. IEC owns 40 percent of IBC, the venture that will deploy a nationwide fiber-to-the-home network. Sweden's ViaEuropa AB and a consortium of Israeli companies own the remaining 60 percent.

Sources said that in talks between IEC's management and workers committee, it was agreed that employees would receive 15 percent of IEC's stake in IBC for free (amounting to six percent of IBC), and that they can buy up to another 10 percent of IEC's stake (four percent of IBC) at its economic value.

IEC needs the full participation of its employees for the fiber optic venture to succeed. The company plans to hire 150 employees for the venture who will work under a special collective agreement, the terms of which have not yet been settled. IEC also plans to transfer scores of tenured employees to IBC to carry out work in addition to their regular jobs.



Steel cord plant closure

Bridgestone Corporation is to close its steel cord facility in Kuroiso, Japan, within the next 12 months and consolidate production into its remaining Japanese steel cord plant, Saga.

Bridgestone says it previously "implemented a number of initiatives" to increase the Kuroiso site's competitiveness and overall profitability, but is now taking the step of closing the facility and consolidating production in Saga.

At the start of 2013 the 42-year old Kuroiso plant had a 47,000 ton per annum steel cord capacity, 6,200 ton per annum hose wire capacity and 29,000 ton per annum bead wire capacity. Bridgestone has not indicated how much of this capacity will be transferred to the Saga facility's overall capacity, nor has it indicated if any of the 355-member Kuroiso workforce will be offered employment at Saga.

As of January 2013 the Saga plant, which commenced operations in 1982, was capable of producing approximately 90,000 tons of steel cord and 700 tons of cable bead wire a year. Bridgestone anticipates a workforce of 539 in Saga by the end of this year.



Fiber optic cables to boost revenue

Kenya Power plans to connect its two million customers with fiber optic cable in a move set to change Internet connectivity in the country. The firm plans to expand its existing infrastructure and lay fiber optic cables to its clients in its bid to protect earnings, which have dropped by 5.7 percent.

The power distributor's acting managing director said the firm is now focusing on expanding and leasing fiber optic to its client list in a bid to diversify revenues.

Safaricom, Jamii Telcoms, Kenya Data Network and Wananchi are among the power distributor's clients, which is also looking to sign up new clients including its sister parastatal, KenGen, and the mobile phone service provider Airtel.

The firm is also in talks to sign up a company from Uganda, signaling the growing opportunities in regional countries.

Kenya Power plans to roll out about 25,000km of fiber optic network across the country. In 2012 the firm laid only 200km of fiber, but had received contracts to lay 400km of fiber this financial year. It now has over 1,800km of fiber optic connection.



Korea Metal Week

Korea Metal Week 2013 opened on 16th October 2013 at KINTEX (Korea International Exhibition Center).

Korea Metal Week 2013, said to be the largest event in Korea for the fastener sector, comprised five individual shows integrating all metal production technologies: "Fastener and wire Korea"; "Die casting and foundry Korea"; "Automobile and machine parts Korea"; "Press and forging Korea"; "Tube and pipe Korea"; "Metal surface treatment Korea" and the "Korea composite show".

As a leading international trade fair in Korea, Korea Metal Week 2013 attracted around 288 exhibitors from across the world to display their latest products. Most were local exhibitors from Korea, with 62 companies from mainland China, including Shanghai Jingyang, Pinghu Kangchengda, Eagle Metalware, Shanghai Rivet, Ningbo Exact, Boito Meta, Ningbo Jinding, Ningbo Hexin, Chinafast, Tandl, and Haiyan Sanma.



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.

Exhibitor List *as at 20th September 2013*

AGC Chemicals Americas Inc	204
AlphaGary Corp	107
American & Efird Inc (A&E)	112
Arkema Inc	202
Artofil	118
ASI/Silica Machinery LLC	300
BASF – The Chemical Company	504
Beta LaserMike	514
Borealis Compounds Inc	305
Cable Components Group	413
Cable Consultants Corp	500
Carris Reels	312
Cary Compounds LLC	108
CERSA-MCI	201
Chengdu Centran Industrial Co Ltd	203
Chromatics Inc	110
Clinton Instrument Co	400
Commission Brokers Inc	408
Conneaut Industries Inc	407
CRI-SIL Silicone Technologies LLC	601
CST of America Inc	117
Daikin America Inc	405
DeWal Industries Inc	306
Dow Chemical Co	318
DSM Desotech Inc	101
EuroWire Magazine	605
Fiber-Line LLC	213
FiberHome Technology	120
Fil-Tec	518
Freudenberg Nonwovens	521
Fusion UV Systems Inc	105
Gem Gravure Company Inc	209
Gendon Polymer Services	515
Gotex	502
Huber Engineered Materials	304
Huestis Industrial	402
Huntsman International LLC	517
Inhol BV	216
International Wire & Cable Symposium (IWCS)	602
j-fiber GmbH	418
Joe Snee Associates	512
Kalmark Integrated Systems	121
Shanghai KECHEN Wire & Cable Machinery Co Ltd	621
Kuraray America Inc	513
LaserLinc Inc	507

LKAB Minerals Inc	221
Lubrizol Corporation	218
Maillefer Extrusion Oy	119
Masterchem Solutions	212
Medek & Schörner	608
MGS Manufacturing Inc	309
Miltec UV	214
Mitutoyo America Corporation	321
Nabaltec AG	404
NEPTCO (A Chase Corporation Co)	100
Netzsch Instruments NA LLC	606
OFS	104
Lumen Dynamics (OmniCure®)	612
OptEM Engineering Inc	207
Optogear Oy	519
PE fiberoptics	508
Photon Kinetics Inc	307
Pittsfield Plastics	122
Pourtier & Setic of America	620
PrintSafe	223
Queins Machines GmbH	503
Roblon A/S	509
Rosendahl Nextrom Technologies	506
S & E Specialty Polymers	403
Saco Polymers	116
Saint-Gobain Performance Plastics Corp	607
Shenzhen Delifeng Trading Company Ltd	219
Sikora International Corp	501
SSCP USA	205
Stewart Group	319
T & T Marketing Inc	301
Technical Marketing	200
Teijin Aramid USA Inc	115
Teknor Apex Co	313
Tensor Machinery Ltd	505
Thermoplastics	520
UNC Charlotte	616
Unigel Inc	419
Unitape (USA) LLC	421
Web Industries	401
Weber & Scher Mfg Co Inc	114
Windak Inc	302
Wire & Cable ASIA Magazine	605
Wire & Plastic Machinery Corp	206
Wire Association International	406
wiredInUSA Ezine	605
Yangtze Optical Fibre & Cable Co Ltd (YOFC)	420
Zumbach Electronics Corp	106

AlphaGary Booth 107

AlphaGary's wire and cable materials offer high standards in electrical, mechanical, thermal and fire performance, complying with the most rigorous global codes and testing procedures. The company's comprehensive product portfolio includes solutions in sheathing and insulating materials, including low smoke vinyl alloys, halogen free olefin blends, fluoropolymer compounds, thermoplastic urethanes and a variety of thermoplastic elastomers.

Products on display will include Smokeguard™ LSR PVC low smoke, fire retardant vinyl alloys; Megolon™ halogen-free sheathing and insulation materials for low smoke and fume emissions; Garaflex™ thermoplastic elastomer compounds, including styrenic, nylon, vinyl, olefin/EPDM, and vulcanizate blends; Garathane™ thermoplastic urethane blends and alloys; and the GW series of specialty fire retardant vinyl compounds.

AlphaGary – USA
Website: www.alphagary.com

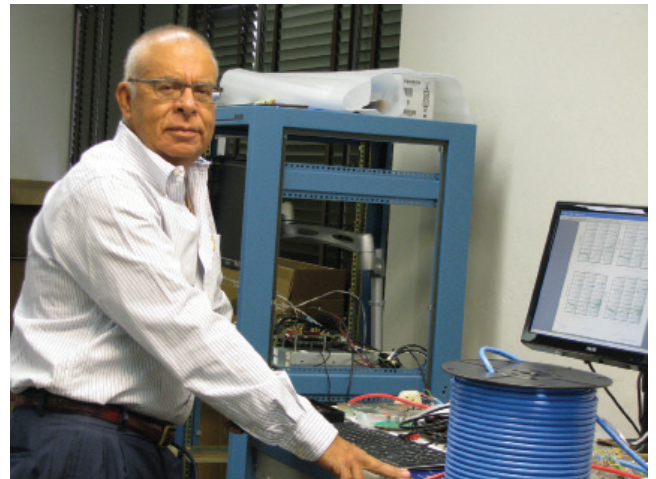
Beta LaserMike Booth 514

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 (LS0H, 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 will display a new automatic spark test calibration system, the STCAL. This unit allows for quick and accurate voltage calibration of AC, both mains and high frequency, as well as DC units up to 30kV. It will calibrate spark testers from any manufacturer.

The STCAL operator interface is a Windows-based tablet that shows hook-up details in photos, diagrams and words making it easy to be sure the unit is connected correctly. The operator can choose the voltages to be calibrated. Once finished a calibration certificate can be printed or downloaded for archiving.

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

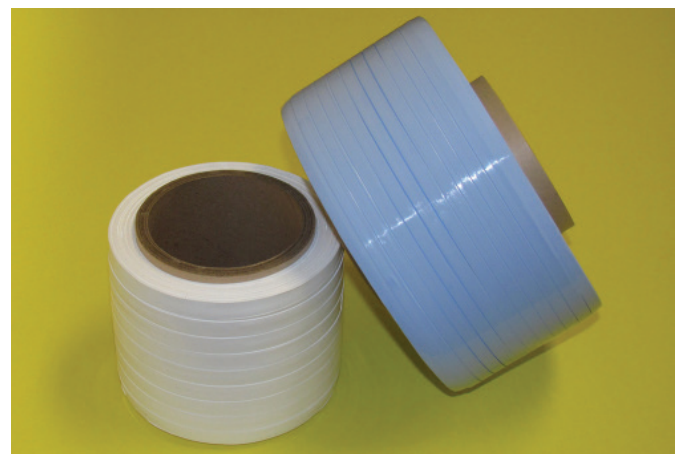
DeWAL Industries Inc
Booth 306

Founded in 1974, DeWAL Industries designs and manufactures high performance PTFE

and UHMW-PE films and pressure sensitive tapes for a diverse range of markets and applications.

DeWAL has developed a range of UHMW-PE and PTFE custom thin films used for abrasion resistance, low friction, and extended product life. DeWAL films may be filled, bonded, sintered or porous and prepared with a variety of surface treatments.

In addition to extruded unsintered PTFE, low-density PTFE and sintered skived PTFE, DeWAL can provide fluoropolymer laminates with dissimilar materials to custom specifications and to tight tolerances.



The most recent addition for PTFE film used in wire wrap, DeWAL's Solid Pack® allows for the largest amount of material to be wound onto a single spool. Solid Pack spools are designed to payout more smoothly compared to traditional packaging, so eliminating breakage. Long lengths promote extended production runs, and increase manufacturing efficiency.

DeWAL Industries – USA
Website: www.dewal.com

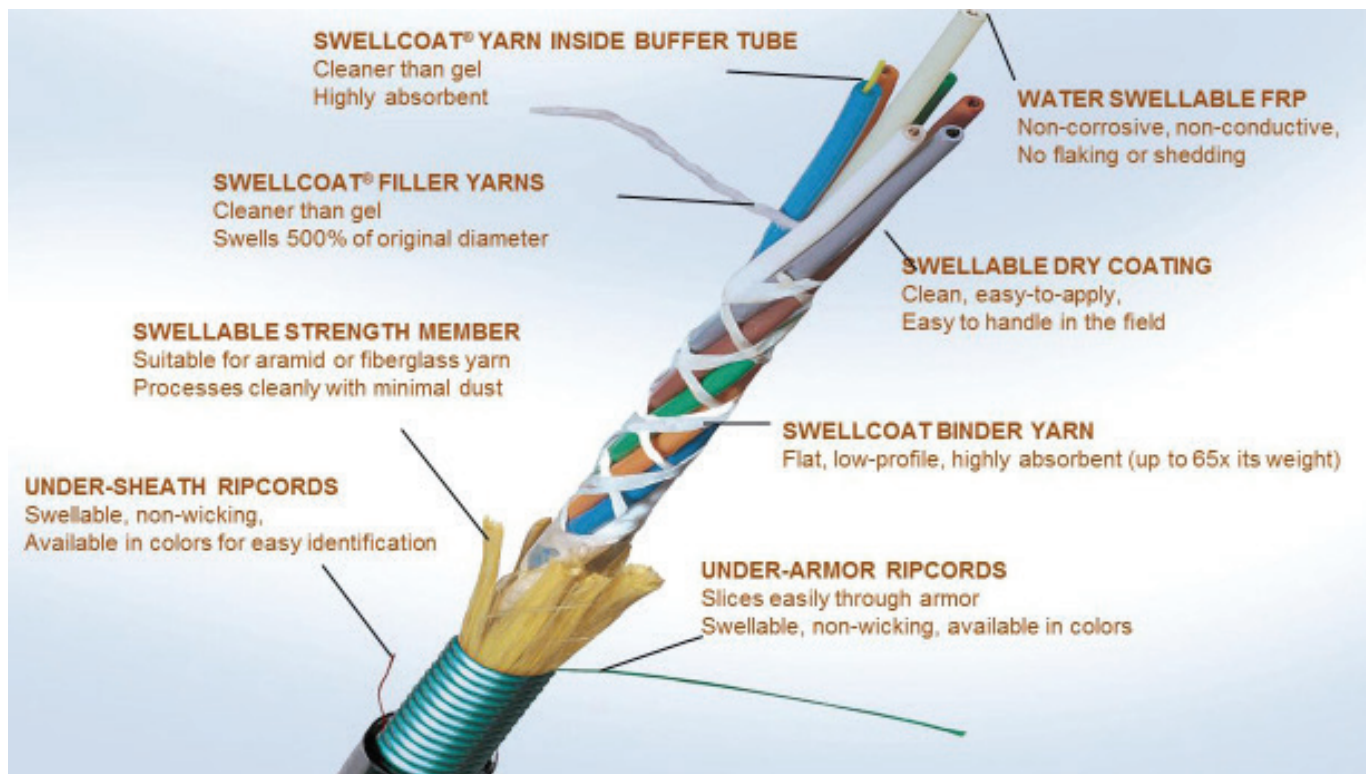
Fiber-Line
Booth 213

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

The company has experience using many fibers, including aramid, carbon, glass, HMPE, polyester, and LCP. Its coatings center utilizes neat, water-based, solvent-based,

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



hot melt, and fluidized bed technologies, and it has three manufacturing facilities in the US and Europe.

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

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

Gotex SA
Booth 502

Gotex SA has supplied fiber-based solutions since 1947. The standard product range includes a wide selection of coated and uncoated roving, yarns, tapes and composite materials to suit a variety of industrial applications.

Custom solutions are also available utilizing twisting, narrow weaving, coating, winding, splicing and molding technologies.



Gotex SA – Spain
Website: www.gotexweb.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

Inhol BV/PTL
Booth 216

In 2014 Inhol BV/PTL will put major focus on sustainability by designing a wider range of superior compounds that offer excellent properties and environmental protection. Improved economical use of compounds by application of social science will finally result in a safer world and savings of chemical resources. Today many PTL compounds have been approved by the cable industry by offering non-toxic and non-corrosive zero halogen solutions for extreme performance. For instance PTL-compound RDX 20521 for jackets meets UL 1277 Oil Res. I & II, UL TC rating, UL 1309, FT4, ICEA S 73-532, ICEA S 33-655, IEEE 1202, ER rated (Exposed run), IEC 60754-1, -2 Acid Gas Emissions, etc.

RDX 20521 is non-melting when exposed to flame at high temperatures, protecting workers, machines and environment. RDX 20521 offers an economical solution by maximum safety, minimum downtime and longer service life for applications in marine, oil and gas, petrochemical, transportation and mining.

Another development is a zero halogen thermoplastic PTL-compound NHFR –M -21013. This jacketing compound is flexible, torsion resistant and meets UL 1277 Oil Res I & II Oil resistance (IRM 902) properties up to 302°F/150°C. This compound complies with UL requirements for a 105°C/221°F jacket. Inhol’s classical high grade compounds PTL XL-ETFE RDX 42759 is increasingly in demand to meet specifications like MIL-W-22759 (SAE AS22759), VG 95218 Part 20, 21,22 and 23. Also popular is the radiation cross linkable fluoroelastomeric based compound for high continuous operating temperature (225°C/440°F) and extreme fluid resistance. RDX 4225-JA-F2 compound can be

processed as a thermoplastic compound on standard PE or PVC extruder. Typical applications include the automotive, military, aerospace and chemical industry.

Inhol BV/PTL – Netherlands
Website: www.inhol.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

The MGS Group
Booth 309

The MGS Group, consisting of MGS Manufacturing, Hall Industries and Northampton Machinery Co, is an international supplier of automation and technology solutions for product handling and twisting systems.

A full range of products and accessory equipment will be featured at IWCS, including an automatic dual takeup with a robotic handling system for depalletizing and palletizing, and the new Northampton triple twist twinner.



MGS Group – UK
Website: www.mgstech.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

**OptEM Engineering Inc
Booth 207**

OptEM Cable Designer is a software tool used to design and model copper cables, such as unshielded and shielded twisted-pair, quad, ribbon, subsea umbilical

cables and flex circuits from DC to 10GHz for telecommunication and data transmission applications.

OptEM Cable Designer uses hierarchical-design techniques where existing design elements are building blocks (instances) in constructing higher level designs. Built-in libraries of materials (frequency and non-frequency dependent) and object definitions are used in construction and can be easily customized.

The software uses an EM field solver to analyze high frequency skin and proximity effects in wires, eddy currents in shields, and dielectric losses in insulation. Frequency dependent data is also incorporated by identifying variations in material properties at different frequencies. On output the software provides ASCII reports for LRCG parameters, and plots S-parameter data for RL, IL, NEXT, FEXT, ELFEXT, and PS-NEXT and PS-FEXT.

Enhanced features of the software include importing cable geometry from an Excel spreadsheet that supports custom libraries of wires and strands, and the design advisor modules Pair Advisor and Lay Length Advisor.

OptEM Engineering – Canada
Website: www.optem.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

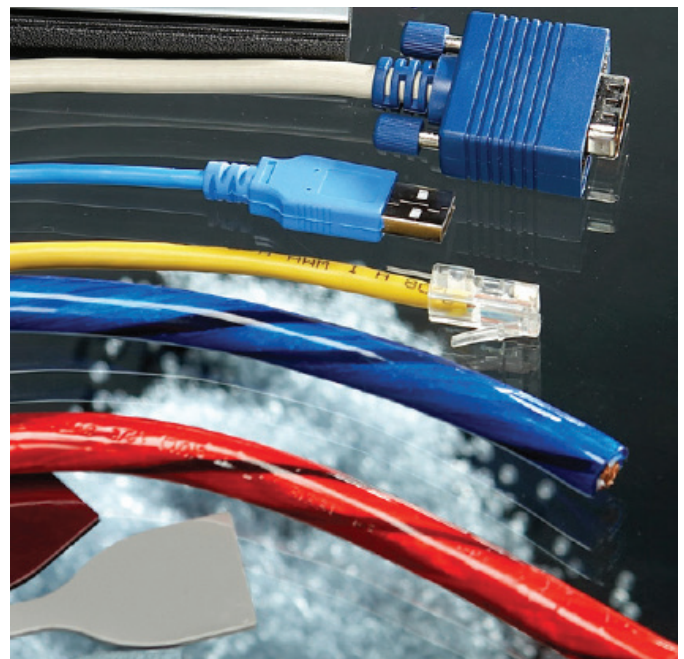
Website: www.roblon.com

S&E Specialty Polymers

Booth 403

S&E Specialty Polymers LLC will display its compounding solutions, including a new line of concentrates.

S&E's brands of compounds for wire and cable applications include TufFlex™ flexible TPE compounds for wide temperature ranges; TufTech™ vinyl-based compounds; TufGuard™ flame retardant polyolefin compounds for extrusion applications; TufFill™ highly-filled polyolefin based compounds; TufShield™ plenum compounds; and TufPrene™ SEBS and SBS compounds.



The company has recently expanded its custom compounding approach to include concentrates, and can now produce active masterbatches with up to 85 percent active ingredients.

S&E Specialty Polymers – USA
Website: www.sespoly.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 will introduce a new PVC jacket compound, made flexible with a plasticizer based on renewable plant-based resources.

Fireguard® FG 910B-01 plenum compound is recommended for categories 5e and 6 LAN cable and fiber optic jackets. It incorporates

the phthalate-free Dow Ecolibrium™ bio-based plasticizers, manufactured by Dow using plant byproducts.

Mike Patel, industry manager for the vinyl division of Teknor Apex, explained: “By incorporating into Fireguard FG 910B-01 a plasticizer that is based on a naturally occurring renewable resource rather than on petrochemicals, Teknor Apex has made a significant reduction of the carbon footprint in comparison with standard flexible PVC compounds.”

He added: “And since PVC resin itself is over 50 percent derived from seawater, this new compound has much lower greenhouse gas emission potential compared to non-PVC alternatives.”

The RoHS- and REACH-compliant product includes no bromine or antimony flame retardants and has a low VOC content. In tests for acid gas generation, Fireguard FB 910B-01 compound exhibits an acid gas content of 18 percent, which is below the 24 to 25 percent range that is typical for standard PVC.

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

Windak Inc
Booth 302

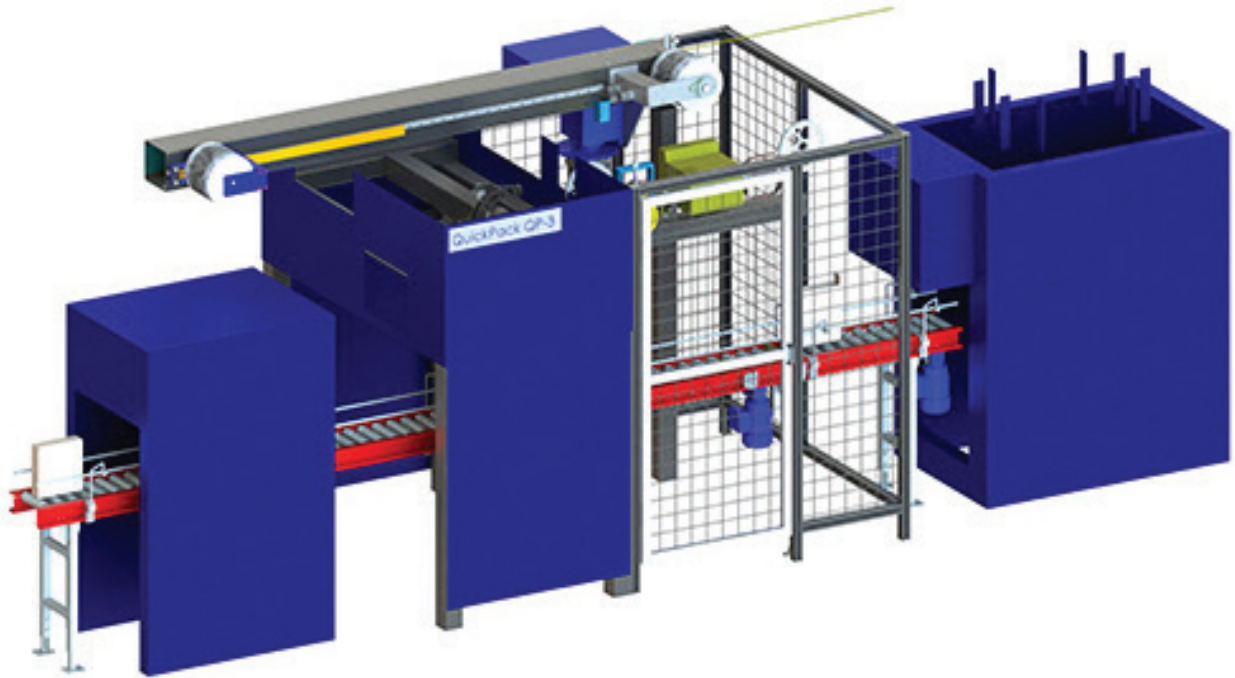
Windak specialises in automatic packaging solutions for the wire and cable industry and will be presenting the latest information about its new products – Quickpack QP3 and automatic coiler AC3.

Quickpack is a fully automatic cable coiling and packaging machine, designed to accommodate product diameters up

to 7mm with maximum speed of eight coils per minute.

The Windak AC3 is a shrink filmed coil with a hole in the center allowing the user to carry

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



the coils on the arms or be put on a rack for transport. The AC3 allows for a faster coiling process than traditional coiling lines with coil wrapping. It is developed for 1mm to 6mm single conductor and a maximum 300mm (outside diameter) coil size.

Windak will also show a range of pay-off, takeup and other material handling and packaging machines.

Windak – USA

Website: www.windakusa.com

Zumbach

Booth 106

Zumbach Electronic is a leading manufacturer of in-line measuring, monitoring and control

industry (hot and cold rolling, continuous casting, turning, grinding, polishing to QC inspection stations).

Zumbach – Switzerland

Website: www.zumbach.com

VISIT US AT IWCS 2013

Head along to Booth 605 at the IWCS symposium to get your free CD copy of the November issue of *wiredInUSA*.

International sales manager Jason Smith will be manning the booth at Charlotte Convention Center, Charlotte, North Carolina, from 10th to 13th November.

You can also get your free copies of sister publications *EuroWire* and *Wire & Cable ASIA* magazines.



PRODUCTS - MACHINES

& TECHNOLOGY

Flexible cat.6A

Category 6A cables have long supported fast data transmission rates in industrial Ethernet systems, but lacked the continuous flex or torsion design features necessary for moving machine applications. Lapp Group's new Etherline® cat.6A cables have been designed to remove these limitations.

In what is believed to be an industry first, the new Etherline cables combine cat.6A's 10Gbits per second data transfer rates with continuous flex and torsion performance suitable for robotics, machine vision systems, wind turbines and other industrial machines with motion systems.

Previous continuous flex industrial Ethernet cables offered data transfer rates of up to 1Gbit per second.

Etherline cat.6A is available in continuous flex and torsion versions. The continuous flex version is suitable for use in cable tracks and is tested for over a million bending cycles, while the torsion version is optimized for torsion applications.

Cable management solutions

Siemon has released its new RoutelT® vertical and horizontal cable management solution.

Available in single- and double-sided vertical managers in a range of widths, and in horizontal managers with either 4" or 6" management fingers, the RoutelT cable managers provide a system solution for routing and protecting both horizontal cables and patch cords. The high capacity, field-replaceable fingers can easily accommodate 48 category 6A cables to

work seamlessly with high-density patch panels and high-density blade switches, while offering a finger radius that prevents deformation of cable.

"As part of our commitment to offer a comprehensive line of cable management systems, we introduced the new RoutelT vertical and horizontal cable managers to specifically address high density cabling systems in a variety of telecommunications spaces," said Dave Valentukonis, cabling support systems business unit manager for Siemon, adding: "The RoutelT vertical cable managers are extremely flexible. They come in 6, 10, 12 and...16 inch widths, and the divider brackets can even be positioned to taper capacity from the front to the rear."

The RoutelT vertical and horizontal cable manager solutions also feature a range of mounting points for optional Siemon ¼-turn management accessories, fiber management spools and cable ties, for easy segregation of media types.

RoutelT cable manager. Courtesy of www.siemon.com

Making connections under water

Amphenol Industrial Global Operations is offering high performance, rugged and reliable



underwater electrical connectors for deep submersion applications. The Submariner series of subsurface wet- and dry-mate connectors can be used in depths up to 6,000m, at underwater pressures of up to 600 bar.

The connector is designed for use by the military and government, diving equipment manufacturers, remotely operated vehicle (ROV) and autonomous underwater vehicle (AUV) manufacturers as well as deep submergence science and research projects.

The Submariner series is fully compatible with similar products in the industry, and can be interchanged with existing connections in an ROV, for example, without replacing all of the vehicle's connections.



The new product series uses Amphenol's molding and adhesion expertise to offer an optional molded-to-cable feature. This feature ensures that the seal between the cable and connector remains intact under water. All polymer-to-metal bonding surfaces are carefully sandblasted, cleaned, primed and molded. The rugged metal shells and recessed pins assure reliable performance in the most demanding environments.

Available in three different shell sizes and a variety of configurations, Amphenol's Submariner series features wire gauges from 10 AWG to 20 AWG, a maximum operating voltage of 600V and operating temperatures ranging from -5°C to 65°C.

For longer life and prolonged mating cycles, each connector is designed with gold-plated contacts per MIL-G 45204 at 30 microns.

Mini cable for easy management

Manufacturer CABLExpress has added a mini category 6 (CAT6) copper trunk to its cabling product set. With a significant reduction in diameter, the mini copper trunk decreases cabling congestion and allows for increased airflow in the data center.

The mini CAT6 copper trunk bundle has an outer diameter of 0.62" (compared to its original diameter of 1.2"). The copper trunk breakout legs have a diameter of 0.148", reduced from 0.29".

"This product will be very beneficial for those looking to create a well designed structured cabling system that maximizes space in the data center," said Peter Belyea, president of CABLExpress. "While the use of fiber cabling has been steadily increasing to keep up with faster network speeds, copper cabling is still a main component in many data center platforms. We're excited to offer a copper trunking solution that provides the high performance of CAT6 with the manageability of a slimmer design."

Features of the new CABLExpress mini CAT6 copper trunk include options for even or staggered breakouts to reduce excess cable; customizable trunk and breakout

lengths; a design that directly integrates with the recommended TIA-942 structured cabling standard; and factory-terminated and pre-tested cabling to allow simple plug-and-play installation.



The mini CAT6 is also available as a patch cord.

PowerUp by 5 percent?

GE's PowerUp is a customized software-enabled platform designed to increase a wind farm's output by up to five percent, taking environmental conditions into account. For the average US wind farm operator using GE's 1.5-77 turbine, a five percent increase in energy output could mean a 20 percent increase in profit per turbine. PowerUp is available for turbine models across GE's installed base.

Anne McEntee, president and CEO of GE's renewable energy business, said: "To put things in perspective, today our customers have more than 9,000 GE 1.5-77 turbines running in the United States. Even a one percent energy output increase on this installed base would generate more than 420,000 megawatt hours of additional energy each year, which would provide the equivalent power used by 33,000 average US homes."

When PowerUp is activated, a GE software program performs a complete before-and-after wind farm power performance analysis, validating the performance improvement. By adjusting performance dials that include speed, torque, pitch, aerodynamics and turbine controls, PowerUp can maximize the power output of a wind farm.

With the introduction of the first generation of GE's PowerUp platform, wind farm operators have the option to participate in a continuous PowerUp platform to further increase output as new software and hardware upgrades are introduced.

Fiber optic junction boxes for harsh environments

Micronor's MR398-JB series fiber optic junction boxes are designed to join and protect two fiber optic cables. The product provides system designers with a turnkey solution for installing optical interconnect "hard points" or can be used in harsh environment fiber optic cabling applications – including cranes, mines and steel mills.

The boxes allow the link designer to use less expensive, non-environmental connectors in harsh environments by providing sealed, environmental protection. This approach offers cost savings over the use of military-style harsh environment fiber optic connectors; the junction boxes seal the incoming cables while accommodating the varying diameters of optical cable that might be used in the field.

The junction boxes have a maximum temperature rating of -40°C to +100°C and provide IP65 ingress protection – limited

by the fiber optic cable and connectors used. The product housings are molded from impact-resistant, chemical-resistant UV stabilized polycarbonate and are UL94-HB flame retardant.

The MR398-JB series complements Micronor's range of harsh environment fiber optic encoders and industrial grade PUR-jacketed optical cabling. Standard models include LC duplex to LC-duplex, and ODVA LC to ODVA LC; special configurations can be engineered for interfacing other connector and cabling types.

Smaller, more durable reeling cable

TPC Wire & Cable Corp has introduced a new addition to its Trex-Onics® series of cables. The new Trex-Onics extra-heavy duty reeling cable was designed with a smaller diameter and lighter weight to reduce wear and tear on reels, connectors and the cable itself.

In addition to providing excellent abrasion resistance, the heavy duty TPE dual-layer jacket contains a reinforcing aramid braid between the layers. This braid provides greater than 1,800lb of tensile load capability, which practically eliminates cork-screwing under tension and the premature cable failure common to standard multi-conductor cables. The cable offers UV resistance and flexibility to -50°C.

The Trex-Onics reduced diameter, extra-heavy duty reeling cable can be used in any application where a cable is pulled in tension, either hanging or retracting from a reel, such as cranes

and hoists, power tracks or cable carriers, industrial elevators and festoon systems.

"This new reeling cable was designed to provide exceptional performance while dramatically reducing the overall cable weight," said Todd Hadbavny, product manager at TPC.



PRODUCTS - MACHINES & TECHNOLOGY

ALL the publicity you can get...

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 December edition – send us the details by **25th November**.

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



Wire & Cable ASIA 线缆亚洲

Come and see us at IWCS

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

The international magazines for the wire & cable industries



www.read-eurowire.com

www.read-wca.com



...and pick up your FREE magazines

INTERNATIONAL SALES

Tel: +44 (0)1926 334137 - www.read-eurowire.com - eurowire@intras.co.uk

AECOM	p16
Allied Wire & Cable	p11
AlphaGary	p48
Amphenol Industrial Global Operations.....	p61
ArcelorMittal	p32
Beta LaserMike	p49
Bridgestone Corporation	p42
Cable Components Group	p50
CABLExpress.....	p62
Clinton Instrument Company	p51
Delfingen Industry	p33
DeWAL Industries Inc	p51
Fastener Fair Russia 2014.....	p34
Fiber-Line	p52
GE's renewable energy	p63
Gotex SA	p52
Hague Fasteners	p35
Huawei	p40
Huestis Industrial.....	p53
Inhol BV.....	p53
IWCS	p44
IWMA.....	p37
JCM Capital	p20
Korea Metal Week 2013.....	p43
Lapp group	p61
Loos and Company	p14
Maillefer Extrusion OY	p54
Micronor	p63
Miltec UV	p55
OptEM Engineering Inc	p55
Perryman Company	p22
PolyOne Corporation	p18
Pourtier & Setic of America	p55
Prysmian Group	p33
PWM Ltd	p56
Roblon A/S.....	p57
S&E Specialty Polymers LLC.....	p57
Scovill Fasteners.....	p16
Siemon	p61
Sikora AG	p58
Skanska / ABB	p34
Southwire	p9
Sparwood / BC Hydro	p28
Subsea cable	p41
Sunesys LLC	p26
Sylvin Technologies	p21
Teknor Apex Co.....	p58
The MGS Group	p54
TIM Brasil	p24
TPC Wire & Cable Corp.....	p64
voestalpine Austria Draht.....	p31
Windak Inc	p58
Zumbach	p59

EDITORIAL INDEX

AEI Compounds p25

Beta LaserMike p8

Cersa Mci p7

Inhol BV..... p11

IWCS p15

Keir Manufacturing p27

Leoni p13

Messe Düsseldorf p17

Paramount Die p21

Zumbach p2

ADVERTISING INDEX

Marketing:

Contact Jason Smith, wiredInUSA,
 46 Holly Walk,
 Leamington Spa, Warwickshire,
 CV32 4HY. United Kingdom
 Tel: +44 (0) 1926 834684
 Email: jason@wiredinusa.com

News:

Contact David Bell, Editor, wiredInUSA,
 46 Holly Walk,
 Leamington Spa, Warwickshire,
 CV32 4HY. United Kingdom
 Tel: +44 (0) 1926 334137
 Email: david@wiredinusa.com



INTRAS ISSN 2046 - 9497

Publishers of Eurowire and Wire & Cable ASIA magazines

EDITORIAL CONTACT

Digital .
Networking .
Monthly .

wiredIn
USA

David Bell, Editor, wiredInUSA,
46 Holly Walk,
Leamington Spa, Warwickshire,
CV32 4HY. United Kingdom
Tel: +44 (0) 1926 334137
Email: david@wiredinusa.com

Target the USA market by advertising in wiredInUSA

MARKETING CONTACT

Contact Jason Smith, wiredInUSA,
46 Holly Walk,
Leamington Spa, Warwickshire,
CV32 4HY. United Kingdom
Tel: +44 (0) 1926 834684
Email: jason@wiredinusa.com

www.wiredinusa.com

