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#21 EDITOR

It's showtime again as Interwire heads for the Georgia World Congress Center, Atlanta, Georgia, next month.

The bi-annual show is the ideal platform for companies debuting new machines and developments, and with more than 350 exhibitors, it is the ideal venue for business in the ferrous, non-ferrous and electrical segment of the industry.

Organizers, the Wire Association International, has also lined up National Football League great Hines Ward to give the keynote address at the luncheon on Tuesday, April 23rd. The Pittsburgh Steelers Star was starting wide receiver in the 2006 Super Bowl, was selected to four consecutive NFL Pro Bowls (2001-2004) and is the only player in Pro Bowl history to score a touchdown on an onside kick.

Interwire runs from Tuesday, 23rd April to Thursday, 25th. Our show coverage starts on page 42 in what is our largest wiredInUSA to date. There you can check on which companies are exhibiting and their booth numbers.

David Bell
Editor

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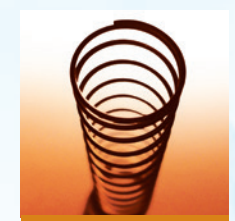
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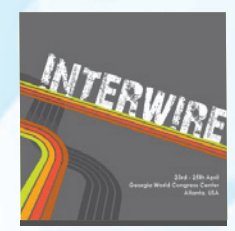
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#21

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DIARY SHOW EVENTS

2013

MARCH

7 March: **AMI Cables Conference**
Cologne, Germany
Conference
www.amiplastics.com

APRIL

23-25 April: **Interwire 2013**
Atlanta, Georgia, USA
Exhibition
www.wirenet.org

JUNE

16-18 June: **Guangzhou Wire and Tube**
Guangzhou, China
Exhibition
www.julang.com.cn

25-28 June: **wire Russia 2013**
Moscow, Russia
Exhibition
www.wire-russia.com

SEPTEMBER

17-19 September: **wire SE Asia 2013**
Bangkok, Thailand
Exhibition
www.wire-southeastasia.com

OCTOBER

1-3 October: **wire South America**
São Paulo, Brazil
Exhibition
www.tubotech-online.de

NOVEMBER

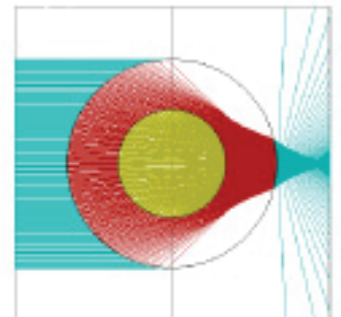
3-5 November: **Cabwire 2013**
Milan, Italy
Conference
www.cabwire.com

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

OPTICAL FIBRES

Measurement Instruments

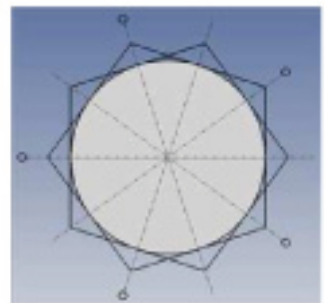
LIS-G: **Laser Interferometric Sensor for Glass fibre**
Diameter repeatability : $\pm 0.005\mu\text{m}$, 50kHz
Diameter uncertainty : $\pm 0.15\mu\text{m}$
Defect detection 75kHz, event recording
Ultra fine air line detection, $0,7\mu\text{m}$ 400Hz
Fibre position: $\pm 0.01\text{mm}$, 1 kHz
Spinning frequency profile
Non circularity measurement



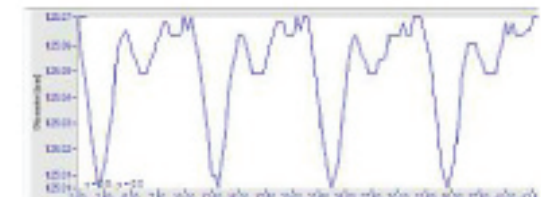
NCTM : **Drawing force**
Birefringence principle
Non Contact Tension Measurement
0-400 grams $\pm 1\text{gram}$, 1 kHz
 $\pm 1\text{ gr}$ within 10-40°C ambient



CM5: **Coating Monitor 5 axes**
Diameter, lump & neck, defects detection, coating asymmetry
Absolute diameter: $\pm 0,15\%$, 50-400 μm , 400Hz
Lump & Neck: $\pm 2\mu\text{m}$, 500kHz
Internal defect detection: 400 kHz
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MAKING THE NEWS



New power transmission lines in US

American energy utility Delmarva Power plans to build a \$31.3million high voltage transmission line between Millington Church substation and Wye Mills substation in the US. The project is designed to improve service reliability on Maryland's eastern shore, particularly for customers in Queen Anne's, Talbot and Caroline counties.

The existing 69,000V, single overhead transmission line will be replaced by 138,000V and 69,000V, double-circuit power lines. Construction will commence in January 2014 with completion by June 2015. The firm is seeking coordination

for the project from other utilities, local municipalities, and the Maryland state highway administration.

Delmarva Power region vice president, John Allen, noted that extended power outages could be avoided with new transmission lines. "This project is one of several similar transmission upgrade projects planned for the Delmarva Peninsula over the next several years, all of which demonstrate Delmarva Power's commitment to continue to provide safe and reliable electric service for our customers," he added.



Southwire securing efficiency

As Southwire Company works to remain competitive in the face of market declines, the company has announced its intention to undergo significant changes during 2013, including the closing of the its manufacturing plant in Stouffville, Ontario, and the relocation of its Canadian headquarters.

“We continue to face challenges in the North American wire and cable market,” said Eric Schmidt, president of Southwire Canada. “While we feel the market has settled, we do not see significant improvements in the near future, leaving us with excess capacity and decreased production efficiency.”

Southwire intends to close the Stouffville operations this year and shift product orders to plants in other areas. The move will allow the company to reduce excess capacity, while taking advantage of the closer proximity of other facilities to raw materials.

Southwire purchased the Stouffville facility, which employs about 150 people, from Cable Tech in 2006. “The closure is not a reflection on our people, their performance or the quality of their work,” Schmidt said.

“As our business continues to be affected by several factors, this is one of the tough decisions that allow Southwire Canada to remain profitable in an increasingly competitive market.”

To further the focus on efficiency, Southwire will consolidate its Canadian business units in Mississauga, Ontario in late April.

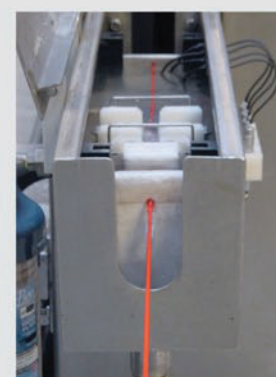
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Growing CCCA membership

The Communications Cable and Connectivity Association (CCCA) board of directors has confirmed and welcomed The Siemon Company as a new member, following its winter 2013 board meeting.

Bill Kloss, CCCA chairman of the board, said: "We at CCCA are thrilled that Siemon has chosen to add its voice to ours and become a member. Siemon's brand recognition, and well established reputation for quality, fits perfectly with our membership goals and mission."

Siemon's Bob Carlson, VP global marketing, said: "The Siemon Company has followed the CCCA and has been impressed with its initiatives and focus on education and creating awareness. We view CCCA as a strong industry association and an excellent platform for Siemon, and other members, to address issues important to the structured cabling industry."

Concurrent with Siemon joining the CCCA, a new data center committee has been formed, which Mr Carlson has volunteered to chair.

Optimal acquisition

AFL has acquired optimal Cable Services, Melbourne-based manufacturer of fiber optic cable and provider of connectivity products.

Kurt Dallas, vice president and general manager, global cable systems, for AFL, said of the acquisition: "AFL's products and services are now in use in over 120 countries around the world. We currently manufacture our products in multiple locations, and adding Optimal greatly extends our manufacturing capabilities in the South Pacific."

Optimal's product portfolio is an exceptional complement to AFL's current portfolio. At its facility in Melbourne, Optimal manufactures uni-tube, stranded loose tube, armored loose tube, high-count loose tube, riser and all-dielectric self-supporting (ADSS) cables in addition to composite, cords and ancillary products. Optimal also provides patch cords, pigtailed connectors, adaptors, tooling, test equipment and media converters.



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AWC Charity Week results

Allied Wire and Cable's Charity Week 2012 raised **\$17,419**. The majority of proceeds benefited the American Cancer Society, with additional donations going to the Make-A-Wish Foundation and American Society for the Prevention of Cruelty to Animals (ASPCA).

On 23rd January, American Cancer Society representatives Jennifer Sabo and Laura Hilbert visited Allied Wire and Cable's headquarters in Colleagueville, PA, to accept a check for \$15,419.

The 2012 Charity Week was dedicated to celebrating family, and Allied wanted to be sure that no member of the family was forgotten. Smaller donations went to charities whose missions support children and pets. **\$1,000** was given to the Make-A-Wish Foundation, which grants the wishes of children with life-threatening illnesses, and another **\$1,000** donation went to the American Society for the Prevention of Cruelty to Animals (ASPCA), an organization which rescues animals from abuse, fights to pass humane laws, and supports animal shelters across the US.



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German power project employs superconductor

American Superconductor Corp (AMSC) is to supply high temperature superconductor wire for a German project to distribute electricity in major cities. The Essen-based project, called AmpaCity, involves Nexans, the RWE Group, and the Karlsruhe Institute of Technology.

The partners aim to install what will be the longest superconductor cable in the world.

At present, electricity is distributed through cities by networks of transformer stations. Replacing the old technology with AmpaCity would "lead to greater efficiency as well as lower operating and maintenance costs while simultaneously reducing land use," a Nexans statement explained, adding that dismantling the many transformer stations now needed to distribute power would

help free up valuable space in inner city areas.

AMSC said that plans for AmpaCity call for using its high temperature superconductor, or HTS, wire to be used in what is called a superconductor fault current limiter, or SFCL. An SFCL is a surge protector to ensure smooth operation when AmpaCity is connected to the power grid.

"As electricity demand and generation are steadily growing, and power grids are becoming more interconnected, the magnitude of fault currents on power grids is increasing significantly," AMSC said in a press release. "By lowering the fault current levels, SFCLs enable utilities to defer or eliminate equipment replacement, increase equipment life, and enhance system operation."

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Successful joint venture

Gauder America (a subsidiary of Gauder sa) and Lloyd and Bouvier Inc have announced a successful first year for their joint venture. The joint venture's latest sale is of a Ceeco tubular 1+6/30" delivered and commissioned to an established American cable producer in December 2012.

The two companies look forward to a busy 2013, continuing to offer their customers many options in the used machinery market.

Gauder sa supplies used machinery for wire and cable, with over 1,000 items in stock in its Belgium warehouse. Lloyd and Bouvier specialize in new, used, and rebuilt machinery for the wire and cable industry.

New president



Teknor Apex has appointed William J Murray as its new president, succeeding Jonathan D Fain, who remains CEO and will become chairman of the board. Mr Murray has also been appointed president of Singapore-based Teknor Apex Asia Pacific.

"In 35 years with Teknor Apex, Bill has come to understand all phases

of our company and has been a key force in its development as a global enterprise," said Mr Fain. "As president he will draw on his wealth of experience to strengthen our mission of serving customers as a unified team, with one focus across all disciplines and in all manufacturing operations."

William Murray assumes his new position after serving as executive vice president of the company since 2006. He joined Teknor Apex in 1978 as a project engineer. Subsequent positions included those of plant engineer, plant manager, and corporate director of engineering. He was promoted to vice president of manufacturing in 1992 and to senior vice president of manufacturing in 2002.

Mr Murray holds a Bachelor of Science degree in mechanical engineering and applied mechanics from the University of Rhode Island and an MBA from Bryant University.

New staff for Tulsa and Teknor Apex



Tulsa Power has made new appointments in its vital engineering and design teams.

Jack McCready has joined as a mechanical design engineer. With experience in testing and equipment repairs, Jack is able to find efficient solutions for customers' engineering problems. Graduating with honors, he worked with NASA's material processes department, and has extensive knowledge in testing and designing for many different applications.

Gary Thompson is the new engineering manager. Gary has a bachelor's degree in mechanical engineering, and a master's in engineering management, from Washington State University. He has a strong background in new product development.



Teknor Apex has appointed a manager of new business development for thermoplastic elastomers (TPEs) in the Asia-Pacific region.

Working with the TPE business manager at Singapore-based Teknor Apex Asia-Pacific Pte Ltd, Dr Hang Gao will manage new business development programs.

Sachin S Sakhalkar, director of strategic marketing and new business development for the TPE division, said: "Hang Gao's outstanding twenty year career in plastics and chemicals includes experience in polymer research and development, application development, marketing, and sales. His multifaceted understanding of plastics will enable him to provide valuable support for the international operations of our OEM customers."

Dr Gao has held research and teaching positions in plastics with the University of South Florida (Tampa), where he obtained his masters and PhD in physical chemistry. He holds a bachelors degree in materials science and engineering from East China University of Chemical Technology (Shanghai) and is the author of numerous papers in the field of polymer science.



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New COO for ASPI

Assembly Specialty Products (ASPI), a designer and manufacturer of swage wire rope fittings and custom fabricated assemblies, has welcomed Steve Konig back to the team as chief operating officer.

Steve brings 25 years of management and team building expertise to ASPI. "His previous role as a business coach and past experience in the industry [are] a great asset. He was our plant manager back in the 80s and since that time he has gained considerable knowledge in working with organizations to streamline operations and create cooperation between departments and staff," commented ASPI president and CEO Attila Nagy.

Assembly Specialty Products is a family owned and operated business, undertaking the design and fabrication of almost any type of fitting, wire rope component, or assembly.

Call for papers

The IWCS has issued a call for papers for the 62nd IWCS international cable•connectivity symposium, taking place 10th to 13th November 2013 in Charlotte, North Carolina.

For over 60 years the symposium has been a leading conference for peer reviewed papers and presentations on technologies and trends in wire, cable and connectivity for the communications, data, electronics, power, industrial, automotive and aerospace industries. The annual event attracts participants from around the world with a comprehensive program including the technical conference, suppliers' exhibition, professional development courses and an executive track. The 2012 event drew over 1,100 attendees, and featured more than 120 paper presentations.

The topical scope of the program has been broadened beyond wire and cable in recent years by merging the IICIT Symposium with IWCS. Full details are available from the IWCS website.

Ontario PV projects change hands

KKR and Co LP has purchased 69MW DC (60 MW AC) of solar photovoltaic plants in Sault Saint Marie, Ontario, from affiliates of Starwood Energy Group Global LLC. The three SSM solar plants currently have 20-year contracts with the Ontario Power Authority through its renewable energy standard offer program (RESOP).

"Ontario has been at the forefront of encouraging new development to bring additional renewables capacity online, and with this acquisition we are playing a meaningful role in the growth of renewables in the province," said KKR head of North American infrastructure Raj Agrawal.

EDF Renewable Energy will continue to handle operations and maintenance for the SSM projects, and Starwood affiliate Nautilus Solar Energy will provide asset management services. The SSM plants comprise over 300,000 Q-Cells crystalline silicon Q.BASE PV modules.

New fasteners

Simpson Strong-Tie has expanded its fastener range with the XEQ #10 x 3/4" hex-head self-drilling screw, designed for exterior metal framing applications.

Designed specifically for use with Simpson Strong-Tie® connectors and cold-formed steel framing, the new XEQ screw features what is believed to be a unique heat treatment. It has a hardened tip at 52 HRC and a load-bearing, threaded shank at less than 34 HRC. This dual-hardened heat treatment results in a more ductile screw, less prone to hydrogen embrittlement.

The XEQ screw meets ASTM C1513 drill-time performance, and is the only fastener load rated for Simpson Strong-Tie L70Z and LS70Z connectors. It also features a proprietary Quik Guard® double-barrier coating for corrosion resistance in exterior applications.

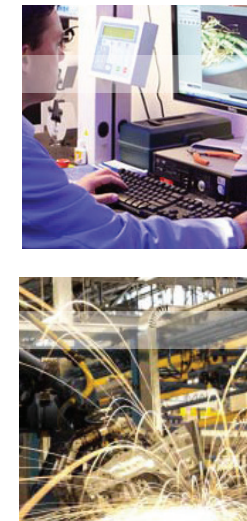
REVERSE STOCK SPLIT PROPOSAL

Superconductor Technologies Inc has revealed its intention to have a reverse stock split in March, according to a filing with the US Securities and Exchange Commission.

The company has said that the proposed reverse split is due to its stock price being well below the minimum level set for stocks listed on the NASDAQ capital market exchange. Superconductor Technologies could do a reverse split in the range of one-for-two shares outstanding and not greater than one-for-12 shares. It presently has 55.5 million shares outstanding.

Company officials said: "We believe the low market pace of our common stock has reduced the effective marketability of those shares because of the reluctance of many leading brokerage firms to recommend low-priced stocks."

The company develops superconducting wire for use in power transmission lines and in wind power generators, but has lost money in recent years. For the nine months ended September 2012, it lost \$8.7million on revenue of \$2.2million.



Ted Bill, president of Pelican Wire

NEW STAFF AT PELICAN

Pelican Wire, an employee-owned company specializing in resistance wire, thermocouple and RTD wire, has new sales personnel.

Although new to the wire and cable industry, Sander Steele has over twenty years of sales experience and is busy learning about Pelican Wire's manufacturing processes and thermocouple cable applications. Steele said: "Pelican Wire is a great company, and their custom engineering is really impressive."

Ted Bill, president of Pelican Wire, commented on the sales team's newest representative: "Sander impressed me during his first few weeks on the job."

Nancy Sarafian, who has joined Pelican Wire as sales manager, has over 30 years of sales management experience in the cable industry. Sarafian said that learning more about the resistance heating applications of Pelican Wire and the specialization in fine wire diameters has broadened her knowledge of wire and cable.

Fastener Tech 2013

The third staging of the fastener industry trade show, Fastener Tech, will take place at the Donald E Stephens Convention Center in Rosemont, Chicago, from 10th to 12th June 2013.

The exhibition itself opens on the 11th, but there will be an all day fastener technology workshop presented by the Fastener Training Institute on the 10th. Seminars and presentations on matters of importance to the fastener industry, together with receptions and networking opportunities, will be held over the next two days.

In addition to the Fastener Tech schedule, SUR/FIN 2013 (the surface finishing industry's largest trade show and conference) presented by the National Association for Surface Finishing (NASF) and a National Fastener

Distributors Association (NFDA) meeting are being co-located in Rosemont.

The NFDA meeting plans to include educational sessions for owners and executives of fastener distribution companies, the annual update from the Institute for Trend Research and many opportunities to develop business relationships. "We chose this time and location for many reasons," explained NFDA president Jay Queenin of Specialty Bolt and Screw. "The greater Chicago area is an easy travel destination for NFDA members, and by adding our meeting to the Fastener Tech show we hope to increase the value to our meeting attendees."

Full details will be available from Fastener Tech 2013, NASF and NFDA websites.

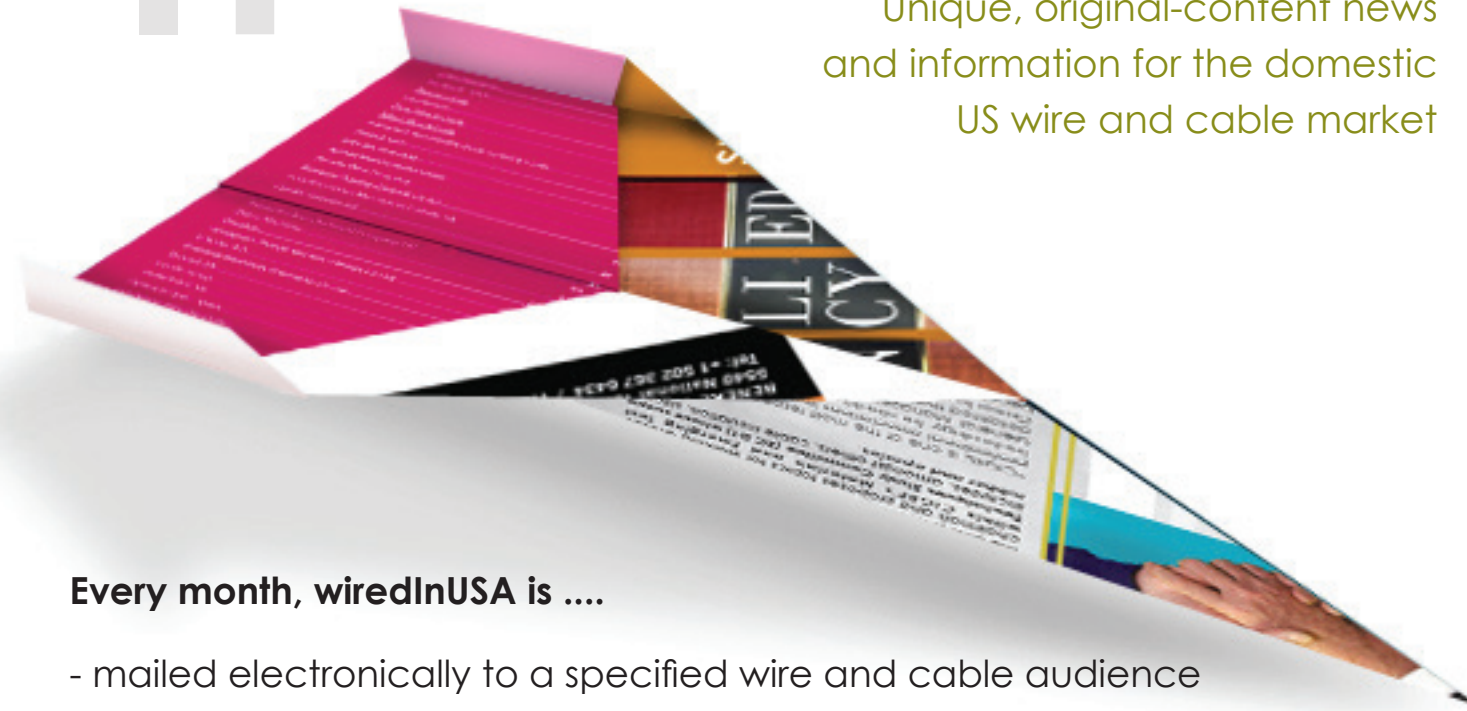
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WWF calls for 45 percent renewables

The World Wildlife Fund (WWF) has released a report, concluding that the EU can and must meet 35 percent of its heating needs and 65 percent of its electricity needs with renewable energy by 2030 in order to reach a society powered 100 percent by renewable energy in 2050.

"Re-energising Europe: Putting the EU on track for 100% renewable energy" caps the contribution of wind and solar at 45 percent of electricity supply at that date. The report also states that ongoing effort and strong political will are needed to reach these goals.

"We must now decide how our energy system will develop after 2020, so that current benefits are maximized, not squandered," added Jason Anderson, head of climate percent energy at WWF's European policy office.

"Our report clearly shows that the EU has untapped potential for cutting energy use, taking full advantage of renewable sources that could deliver cheaper and more secure energy, and ensuring that a 100 percent renewable European energy system by 2050 remains within reach."

This level is similar to conclusions reached by the US department of energy's national renewable energy laboratories in a May 2010 report. "Western wind and solar integration study" found that a five-state grid in the western US could accommodate 30 percent wind and 5 percent solar without significant new energy storage or transmission.



Broadband's €7bn budget cut

Funding for the development of high-speed broadband across the EU has been reduced by €7 billion. The cuts have been criticized by campaigners who argue that much needed connection projects will be abandoned, suppressing further investment and growth in the wider sectors within Europe.

The budget for rural broadband had been cut from €8.2 billion to €1 billion. Brian Condon, a director of the UK's Community Broadband Network, said: "It's a giant leap backwards. In the UK, broadband policy is being dictated by the big players, which is characterized by two things: incrementalism and centralization."

The Connecting Europe Facility (CEF) had initial plans to provide speeds of up to 100Mbps for at least half of the population in Europe by 2020, with the rest on at least 30Mbps. The plans may be abandoned, however, if the budget cuts are implemented.

The European parliament may intervene to block the plans.



Connecting Lithuania with Poland

Lithuanian state owned operator Litgrid has contracted ABB to supply and install a high voltage direct current (HVDC) converter station in Lithuania. The 500MW HVDC station will help connect the 330kV Lithuanian grid to the 400kV Polish grid, integrating the electricity networks of the Baltic states with the continental European power grid.

Scheduled to become operational in 2015, the HVDC convertor station will be built near the city of Alytus in Lithuania. A 160km 400kV AC overhead power line will connect the station with a substation close to the Polish city of Elk.

ABB, power systems division head, Brice Koch, commented: "In addition to facilitating energy trading between Poland and Lithuania, this link will strengthen grid stability and security of power supply in the region."

Currently, the Lithuanian electricity system is connected with the Latvian and Estonian grids. The latest link will bolster the NordBalt HVDC connection with Sweden.

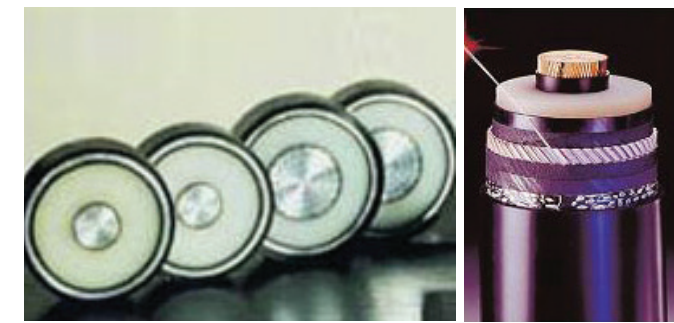


Increasing Russian networks

Alcatel-Lucent has tripled broadband network capacity and speeds for Russia's largest cable TV operator, National Cable Networks (NCN).

NCN won tenders to install the video surveillance system designed to enhance safety in the city under the municipal 'Information City' program. NCN will use its network to carry video feeds from the surveillance cameras installed in porches, courtyards and other public places, to the Moscow department of information technology's data processing center. The deployment of Alcatel-Lucent's 100 gigabit per second fiber optic technology will support the live relay of high definition video feeds across the city.

Alcatel-Lucent's 100Gb fiber optic technology supports a capacity of up to 8.8 terabits per second - the equivalent of 1.32 million HDTV channels streamed at the same time - over a single optical fiber. In addition to supporting increased video traffic from the surveillance cameras, it will also sufficiently boost NCN's network to allow it to offer broadband customers enhanced 'triple play' video, high-speed internet access and voice services.



Wire & cable solutions at Middle East Electricity

Borouge and Borealis took the opportunity of the Middle East Electricity exhibition, held in Dubai during February, to introduce advances in insulation, semi-conductive and jacketing materials.

Responding to increasing global demand for cross-linked polyethylene (XLPE) Borouge will be producing 350,000 tonnes of low density polyethylene (LDPE), per year at its new plant, currently under construction in Abu Dhabi, as part of the Borouge 3 expansion project. This will be a significant addition to the existing high pressure LDPE plant, inaugurated in Sweden in 2010.

Roland Janssen, vice president marketing center for wire and cable at Borouge, commented: "We are committed to continue producing innovative solutions that benefit the wire and cable industry and to be a fully long-term reliable partner of choice. With Borstar, and now the Borlink technology, our product range is able to meet the industry's most stringent needs."



Management changes

General Cable has announced the appointment of Dr Günther Schöffner as MD of its subsidiary Norddeutsche Seekabelwerke GmbH (NSW). Dr Schöffner will succeed Rudolf Stahl, who has led the company since General Cable's acquisition of NSW. He will assist Dr Schöffner in the transition and might continue as an external consultant.

Dr Schöffner has an MBA, a PhD in engineering, and nearly ten years of senior management experience in energy transmission and distribution with Siemens.



Wire rope tech center

The wire rope manufacturer Bridon International has opened a technical facility at its Doncaster, UK, site. The Bridon Technology Center (BTC) will design and test some of the largest ropes in the world, and is thought to be among the most advanced facilities of its type.

Bridon has invested over \$7.5million in the facility's testing and analysis equipment, which will evaluate rope constructions for their suitability for use in punishing conditions and enable the development of increasingly sophisticated ropes to meet the needs of customers across a range of industry sectors.

The center is set to create five new skilled positions, and support the work of Bridon's global production capability including the Doncaster Wire Mill, where the company recently invested in equipment upgrades.



Russian rebar

A statement from the Russian steelmaker Novolipetsk Steel reports that the company's long steel division shipped approximately 110,000 metric tons of rebar during January 2013. Around 200 metric tons was exported, and the balance sold into the domestic market. Results are expected to be similar for February.



FTTH focus for Middle East

Responding to increasing rate of fiber to the home (FTTH) deployments by providers in the Middle East, Reichle and De-Massari (R&M), a Swiss structured-cabling specialist, is increasing its focus on this growing market.

Jean-Pierre Labry, executive vice president of R&M Middle East, Turkey and Africa, has confirmed that the company has been working closely with telecom providers in Saudi Arabia, the United Arab Emirates and Oman on large-scale FTTH projects.

Mr Labry also revealed that the company is to launch new products to expand its FTTx portfolio, including the new Venus FXXL solution with an integrated single circuit management (SCM) system and field connectors.

"The FTTH market in the Middle East is growing at a rate that far surpasses even that in mature IT markets. A report from the FTTH council MENA has shown that the UAE already leads the global rankings with an FTTH penetration of 64.8 percent. Other countries in the region, in particular Saudi Arabia, Oman, Qatar, Morocco, Algeria, Egypt and Turkey, are also investing in this technology and we are sure to see widespread penetration within a few years," said Mr Labry.



IWMA

CabWire World Conference – Call for Papers



ACIMAF, CET, IWCEA, the IWMA and WAI – joint organizers of the CabWire World Conference 2013 in Milan, Italy – are inviting authors to submit an abstract to help define its 2013 conference program. Both technical and practical topics are welcome.

This one-and-a-half-day wire and cable conference in Italy, 4th-5th November 2013, will provide an international platform for trade industry information exchange on innovations driving the worldwide wire and cable markets.

Accepted authors receive:

- complimentary meeting registration
- a copy of the conference proceedings materials
- access to the conference sessions, tabletop exhibits, and reception
- industry exposure

Why not share your expertise, your current research findings, and your viewpoint with your industry colleagues at CabWire World Conference 2013?

The abstract deadline for the conference is 15th May 2013 and the acceptance notification will be sent out on 12th June. Manuscript deadline is 3rd September.

www.iwma.org

ABSTRACT SUBMISSION & PAPERS

In order for the CabWire World Conference 2013 organizers to properly assess the scope and content of your proposed technical article, please submit a 75 word abstract.

Accepted speakers will receive an Author's Guide with details about manuscript and presentation preparation via e-mail. Only original papers not previously published will be accepted for Wire Association International paper awards and possible publication in *Wire Journal International*.

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CALL FOR PAPERS

—DEADLINES—

**Abstract
 Deadline:
 15 May 2013**

**Acceptance
 Notification:
 12 June 2013**

**Manuscript
 Deadline:
 3 September 2013**

Picture: Alessandro Paiva

ASIA & AFRICA NEWS



China refuses power investment for Azad Kashmir

In a briefing by Pakistan's National Electric Power Regulatory Authority (Nepra) to the senate's standing committee on water and power, an official explained that the Chinese government has refused to allow China's Three Gorges Company to invest in power projects in Azad Kashmir, citing the area's disputed status.

During the briefing, Nepra member Khwaja Mohammad Naeem said that the Chinese company was also putting pressure on Nepra to increase the tariff for the Karoot power project, but that as the tariff increase did not fall under the domain of Nepra it could not be addressed. He added that the authority was negotiating because it

realized that once the project was lost, it would not be taken up again for at least 15 years, which was "unaffordable."

The committee expressed concern over an increase in power tariff for distribution companies, saying that the authority was mandated to safeguard consumers' interest, but that increasing the tariff would "add to the miseries of the common man."

The committee also expressed annoyance over fluctuations in the power tariff determined by Nepra, and directed the authority to submit a report regarding tariff variability during the past year; also asking if any relief had been given to the people.



Cable faults cause Internet blackout

Tanzania experienced almost a day of Internet failure after two submarine cables experienced technical problems.

In an interview with the Daily News, the acting CEO of the Tanzania Telecommunication Company Limited (TTCL), Dr Kamugisha Kazaura, said the problems occurred at Alexandria where the cables are connected to others linking the continent to Europe.

"Our two submarine cables Easy and Seacom are connected to other cables to Europe. The problem occurred in a stretch of eight kilometers offshore of...Alexandria. Easy was the first to experience the problem at about 1.30pm and it was followed by Seacom an hour later," Dr Kamugisha said in a telephone interview.

While most East African countries were affected by the Internet breakdown, Kenya was least affected as it uses the Teams cable, according to Dr Kamugisha. With a capacity of 1.2Gb per second, the submarine cables are almost 20 times faster than satellite connections.



Rooftop PV

A subsidiary of China Gogreen Assets Investment Ltd has entered into an agreement with the government of Xuchang to build 60MW of rooftop solar photovoltaic (PV) projects in the city. The plants will demand an investment of \$115 million, funded by China GoGreen with internal resources and subsidies through the nation's Golden Sun program.

Subsidiary Beijing Jun Yang Investment Company Ltd plans to build the plants in phases, with the first 30MW of PV plants to be completed in July 2014, and the entire project completed in December 2015. A subsidiary of Beijing Jun Yang will provide operations and maintenance services.

The Xuchang government will assist Beijing Jun Yang with the necessary approvals, as well as applying to become a Golden Sun demonstration project and coordinating the sale of electricity.



Iraq's cable project

Iraq Business has reported an announcement by the Iraqi communications ministry of the completion of a submarine cable project.

The two-year, \$36m project to link Iraq with other countries was completed by Gulf Bridge International (GBI), and is planned to provide Internet, telephone and television services at lower prices and with higher quality, the ministry statement said.



FTTH, but copper still in play

Israel's Internet provider, Bezeq, has begun work on a fiber optic network in Ness Ziona, Ramat Hasharon, and Modi'in, and expects to have the cities fully wired within a few months.

Although Bezeq has announced its intention to accelerate the replacement of its copper wire network with fiber optics, it will not yet provide fiber optic telecommunications services pending a decision on the technology. It is therefore laying the cables, but will postpone the installation of smart boxes at its centers and customers to a later date.

Bezeq's FTTH project is intended to meet customers' growing demand for high speed Internet. Bezeq plans to replace its entire copper wire network within eight years, to provide most customers with an unlimited high speed Internet connection.



Renewable moves in Japan

After the earthquake and tsunami that devastated Fukushima Daichi nuclear power plant in 2011, the Japanese government is to phase out nuclear power by 2030.

In order to meet an ambitious goal, Japan has introduced tariffs to subsidize renewable energy and initiated its first major project. Seven of the largest Japanese conglomerates, including Mitsui and Toshiba, are to build the plant in Tahara City and bring it online by 2014.

The plant will generate an annual 67,500 megawatt hours of electricity - equivalent to the annual power consumption of 20,000 homes.

The project will demand the collaboration of experienced teams with knowledge of large-scale solar and wind power generation, infrastructure for generation and connective systems, and the creation of new technology.

The Japanese government has already approved a number of additional new plants, and is expecting to spend \$700 billion on renewable energy by 2030.



LS Cable enters new European market

LS Cable & System is to supply 150kV submarine cables and 150kV and 275kV extra high voltage underground cable and connection materials to Dong Energy, a Danish state enterprise and the largest wind power generation company in Europe. The submarine cables will be used in an offshore wind power generation complex to be built by Dong Energy in Westernmost Rough on the south-eastern coast of the UK; the extra high voltage underground cables will transmit the energy generated at the complex to an inland transmission site.

The order marks LS Cable's entry into Europe's offshore wind power generation market, and the company is forecasting a sales increase in the European submarine cable market following its recent performance in the US and the Middle East.



Malaysia levies anti-dumping tax

The Malaysian government has imposed anti-dumping duties on steel wire rod imports from China, Taiwan, Indonesia and South Korea. The levies are expected to be in force for five years.

The decision was made after the ministry of international trade and industry completed an investigation into complaints by a domestic producer that steel wire rod imports from the countries, sold at a much lower price, were hurting the domestic industry.

China's Jiangsu Shagang International Trade Co Ltd and Jiangsu Yonggang Group Co Ltd, and Indonesia's PT Ispat Indo are exempted from the duty.



Fiber optics for NZ

Three New Zealand telecommunications companies are to spend \$60 million on a fiber optic cable to link New Zealand with Australia. Telecom, Vodafone and Telstra have announced that they plan to complete the subsea cable by the end of 2014.

The cable's capacity of 30 terabits per second is approximately 300 times New Zealand's current data needs, but will improve the country's slow Internet speed and, the partners hope, offer a boost to the New Zealand economy.

At present, New Zealand relies primarily on one main cable, the Southern Cross cable that extends from Sydney through Auckland and on to Hawaii, to connect to the world. A second, older cable connects Auckland and Sydney and runs near capacity.

Anticipation is already building ahead of this year's Interwire in Atlanta, Georgia, next month.

INTERWIRE 2013

23rd - 25th April
Georgia World Congress Center
Atlanta, USA

On the ball for Atlanta

The exhibition – at the **Georgia World Congress Center** – sees the largest wire and cable show in America touchdown from **23rd-25th April**.

And touchdown is a familiar word at this year's exhibition, as **Pittsburgh Steeler Hines Ward** will deliver the keynote speech to delegates at the Tuesday luncheon.

The National Football League great and Superbowl winner is the only player in NFL Pro Bowl history to score a touchdown on an onside kick. Other sporting activity in addition to the exhibitions is a golf tournament and charity 5k road race.

The opening reception takes place in the Omni Hotel Atrium from 6.30pm to 8.30pm on Tuesday.

The exhibition runs from 10am to 5pm on Tuesday and Wednesday, and 10am to 3pm on Thursday.

Interwire 2013 Exhibitor List as at 2nd January 2013

Ace Metal Inc	620	CMEC International Exhibition Ltd	1706b
ACM AB	1512	CMEC International Exhibition Ltd	1706c
Advantage Austria	1050	CN Wire Corp	624
Advaris GmbH	1070	Cogebi Inc	149
AEB International Inc	240	Collins & Jewell Company Inc	1860
AEI Compounds Ltd	252	Cometo SNC	424
AESA SA	120	Cometo SNC	1351
AIM Inc	1014	Commission Brokers Inc	705
All Forming Machinery Inc	770	Condat	1650
Amacoil Inc	713	Conductix Wampfler	1955
Amaral Automation Associates	2034	Conneaut Industries Inc	715
American & Efird Inc	606	Continuus Properzi SpA	940
American Kuhne	1723	Continuus Properzi SpA	1818
Anbao Wire & Mesh Co Ltd	331	Cortinovis Machinery America, Inc.	1739
Appliance Materials Co Ltd	143	CPA Wire Technology GmbH	763
ATE	1814	Custom Downstream Systems Inc	765
AW Machinery LLC	1723	Custom Machining & Fabrication LLC	770
AXIS Computer Systems Inc	1503	Daloo - Gauder Group	1932
Axjo America Inc	1940	Davis-Standard LLC	1350
Aztech Lubricants LLC	569	DEM Costruzioni Speciali Srl	1712
B&H Tool Company	1916	Design & Engineering LLC	812
B&Z Galvanized Wire Industry Inc	1602	Die Quip Corp	1003
Baloffet Die Corporation	114	Domeks Makine Ltd Sti	1340
Bartell Machinery Systems LLC	749	Dunst GmbH	1050
Baum's Castorine Co	2128	Dynamex Corporation	2124
Beijing Orient Pengsheng Tech Co Ltd	116	Ebner Furnaces Inc	1661
Bekaert Corporation	423	Eder Engineering GmbH	1050
Bergandi Machinery Co	701	EJP Maschinen GmbH	1351
Besel Basim San Tic Ltd Sti	457	Electron Beam Technologies Inc	112
Beta LaserMike	631	Enercon Industries	453
Blachford Corp	506	Enkotec Co Inc	570
Bock GmbH & Co KG	1512	Engineered Machinery Group Inc	702
Bogimac Engineering	2144	ERA Wire Inc	302
Boockmann GmbH / The Slover Group	164	Er-Bakir™ Elektrolitik Bakir Mamulleri A.S.	624
Bow Technology - Gauder Group	1932	Estane Engineered Polymers/Lubrizol	618
Boxy SpA	2133	Esteves Group USA	806
Breen Color Concentrates Inc	2114	Etna Products Inc	235
Brookfield Wire Co	2015	Euroalpha	1812
Buhler Wurz Kaltwalztechnik GmbH	740	Eurobend GmbH	1058
Butt Welders USA	2148	Eurolls SpA	1739
Caballe SA	212	Eurowire Magazine	1655
Cable Consultants Corp	1024	George Evans Corp	139
Calmec Precision Ltd	2056	E V G	140
Candor Sweden AB	124	Evolution Products	2011
Canterbury Engineering Co	858	Fabritex Inc	650
Carris Reels Inc	1524	Fasten Group Import & Export Co Ltd	264
Cary Compounds LLC	2111	FIB Belgium SA	2117
Ceia USA	134	Fil-Tec Inc	1502
Cemanco LC	717	Filtertech Inc	863
Central Wire Industries Ltd	1949	Finoptics Inc	970
CeramTec AG	717	Fine International Corp	1040
Chase / NEPTCO	564	Fisk Alloy Wire Inc	2140
Chase Wire and Cable Materials	564	Flymca & Flyro	215
Chemetal US / Chemetal Oakite	352	FMS USA Inc	616
Chengdu Centran Industrial Co Ltd	970	Foerster Instruments Inc.	549
Cimteq Ltd	2032	Fort Wayne Wire Die Inc	1532
Clayton Industries	1064	Fortune Machinery Corp	866
Clifford Welding Systems	1731	OM Frigerio	1512
Clinton Instrument Co	901	Frontier Composites & Castings Inc	2012
CM Furnaces Inc	553	FSP - One Inc	2118
CMEC International Exhibition Ltd	1706a	Fuhr GmbH & Co Kg	1856

G C R Eurodraw SpA	1712	Leoni Wire Inc	640
Gauder Group Inc	1832, 1932	OM Lesmo Group	424
Gavlick Machinery Corp	866	Lesmo Machinery America Inc	412
Gem Gravure Co Inc	706	Lesmo Machinery America Inc	424
Genca	858	Lisciani	1816
GH Induction Atmospheres LLC	771	Lloyd & Bouvier Inc	1832
W Gillies Technologies LLC	1832	Lors Machinery	115
Gimax Srl	1024	Lubrimetal Corp	458
GMP Slovakia sro	558	The Lubrizol Corp	618
Guill Tool & Engineering Co	211	LUKAS Anlagenbau GmbH	206
Guney Celik	764	Macromeric	252
H Folke Sandelin AB	740	Madison Steel Inc	1862
Hall Industries	1314	Magnetic Technologies Ltd	217
Hangzhou JR Exhibition Co Ltd	850	Maillefer Extrusion Oy	932
Hangzhou JR Exhibition Co Ltd	306	Maklada Europe	252
Hangzhou JR Exhibition Co Ltd	232	Mali GmbH, Niederlassung Wien	1050
Hangzhou JR Exhibition Co Ltd	233	Manner Plastics LP	401
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Hearl Heaton - Pentre Group	2149	Medek & Schorner GmbH	1050
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Howar Equipment Inc	1512	The MGS Group	1314
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Huestis Industrial	332	Microdia USA	1824
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Ideal-Werk	1731	Mossberg Industries Inc	2061
iim AG Measurement & Engineering	1170	Nano-Diamond America Inc	123
INHOL LLC	402	Nanjing Capatue Chemical Co Ltd	2120
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Inosym	1320	Nextrom OY	1050
International Wire & Machinery Association	902	Niagara Composites International	724
International Wire Group	440	Niehoff Endex North America Inc	740
InterWire Products	318	Maschinenfabrik Niehoff GmbH & Co KG	740
Intras Limited	1655	Northampton Machinery Co (USA)	1314
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Langfang Supower Diamond Technology Co Ltd	113	Pittsburgh Carbide Die Co	1065
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Lenzing Plastics GmbH	1050	Plymouth Wire Reels & Dies Inc	705

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Precision Fasteners LLC	1962	T & T Marketing Inc	305
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Rainbow Rubber & Plastics	2050	Tramev SRL	424
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Reel Options by Vandor Corp	654	Tubular Products Co	1550
Reel-O-Matic Inc	1164	Tulsa Power Inc	1840
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RichardsApex Inc	540	United Wire Co Inc	301
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Rosendahl Maschinen GmbH	1050	Verband osterr, Draht und Kabelmaschinen-	
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Advaris GmbH
Booth 1070

The Advaris modules for product data management, manufacturing execution and enterprise resource planning (ERP) guarantee smooth integration and the optimisation of processes for companies in the cable industry which are not able to exploit their potential with conventional ERP systems.

Advaris provides optimised industry-specific processes and functions from cable design and the issuing of quotations to manufacturing, quality control, delivery and invoicing.

Advaris GmbH – Germany
Website: www.advaris.com

AEI Compounds
Booth 252

Having developed and manufactured wire and cable compounds for over 30 years, AEI Compounds is able to offer a comprehensive range of compounds to meet many of the main wire and cable applications for the European, Asian, Middle Eastern and Far Eastern markets.

The company also works with customers to develop compounds that require compliance to more local and specialized applications such as in the US market.

Products include insulation and sheathing compounds and an extensive range of halogen free grades. Manufacturing both thermoplastic and crosslinkable types, AEI offers the cable designer a wide choice of products to fulfill requirements of most common cable constructions.

AEI Compounds – UK
Website: www.aeicompounds.com

AIM Inc
Booth 1014

AIM will be presenting the newest innovation in wire bending: the Synchro bender. This patented bender allows complex forms to be made without sophisticated tool configuration. In addition to the Synchro, AIM will present the new Accuweld line with exclusive features.

The company also specialises in completely automated robotic work cell solutions that take wire from coil, and form, weld and systematically arrange the finished parts. In all instances, wire can be fed directly from a coil, straightened, bent and cut using a software package that provides flexibility and simplicity in programming and is offered in all 'universal languages'.

AIM Inc – USA
Website: www.aimmachines.com

Anbao Wire & Mesh Co, Ltd
Booth 331

Anbao is a manufacturer and exporter of steel wire products, galvanized steel wire and strands, Galfan wire and strands, including ACSR wire and strand, overhead ground wire and message strand, message/guy/stay/span wire and strand, aluminum-clad steel wire and strand, armoring cable wire and braiding wire.

The company also supplies stainless steel wire for weaving, braiding, knitting and

lashing wire, and is also engaged in various metal wire mesh products. Anbao operates under the ISO 9001 and 14001 quality control system.



Anbao (Qinhuangdao) Wire & Mesh Co, Ltd – China
Website: www.anbao.com

Aztech Lubricants
Booth 569

Aztech Lubricants is a global provider of wire drawing and lubricant solutions. With over 125 years of cumulative expertise, the company provides a full line of calcium, sodium and potassium stearate drawing powders, RP oil, drawing oils and precoats.

Key name brands that will be showcased at this year's Interwire include EZDraw, EZClean and EZCoat. The company also offers a complete line of AZWipe spiral brushes, for an easy method to remove excess scale, rust or coatings from wire.

Aztech Lubricants has manufacturing and distribution capabilities in the USA, South America and Asia.

Aztech Lubricants – USA
Website: www.aztechlube.com

B&H Tool Company
Booth 1916

B&H Tool Company provides tooling solutions to improve the quality of extruded products and reduce scrap and set-up.

At Interwire, the company will showcase the BH25A MicroCrosshead with Spiral Deflector, claimed to be the industry's lowest area micro crosshead, delivering microextrusion performance for insulated fine wire, fiber optics, and microbore tubing. Major medical equipment manufacturers have documented significant improvements in micro extrusion process capability and stability using the BH25A MicroCrosshead.

For FEP applications, the BH25A crosshead insulates fine wire with a finished OD of 0.00471" and core OD of 0.00157". Tolerances depend on process and material, but are in the range of +0.0005".

The company will also display its plastic extrusion tooling, including adjustable center crossheads, fixed center crossheads, multi-layer crosshead assemblies, tips and dies, and accessories, including extrusion heaters and striping attachments.

B&H produces plastic extrusion tooling for insulated wire, jacketed cable, tubing, hose, pipe and profiles, specializing in practical solutions that minimize life cycle costs, reduce set-up and scrap, and meet specific needs such as lowering temperature profiles and increasing line speeds. The company provides comprehensive engineering, production and technical support to companies who manufacture wire, cable, tubing, hose, pipe and profiles.

At Interwire, B&H Tool Company will offer four important free tools: a crosshead

replacement calculator, tip and die cost calculator, tooling calculator, and DDR/DRB calculator.



The company's Extrusion Process Analysis Package can quickly and efficiently identify the root causes of difficulties related to surging, dimensional variation, crystallisation, knit lines, and other problems not covered by equipment manuals or material spec sheets.

B&H Tool Company – USA
Website: www.bhtool.com

Baloffet
Booth 114

Headquartered in France, Baloffet has been manufacturing dies since 1870 and has three subsidiary companies in the USA, UK and Germany, as well as a worldwide network of agents. The company has maintained all its die production in Europe.

The company produces natural diamond dies from 6µ to 3mm, synthetic mono-crystalline dies from 6µ to 1mm, poly-crystalline (PCD) dies from 50µ to 30mm, compacting, stranding and special shaped dies, enamelling guides, extrusion tooling (guides and dies), special tooling with

diamond insert and repolishing machines and equipment.

Baloffet also offers repolishing, training of operators and technicians in its own training center and showroom or at the customer's plant, and control and technical report of customers' dies.

Baloffet – France
Website: www.baloffetdie.com

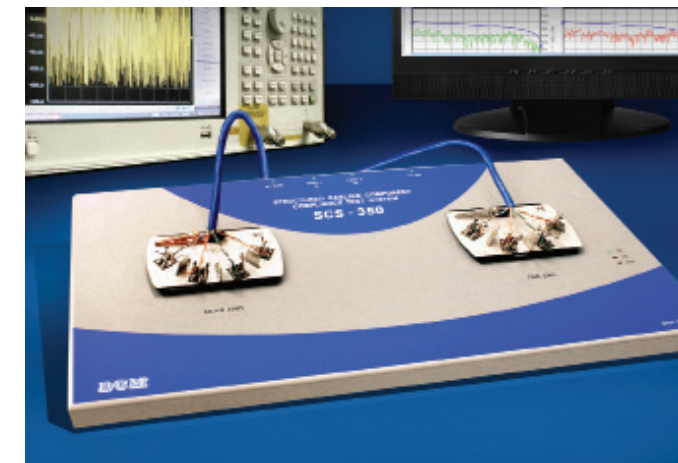
Beta LaserMike
Booth 631

Beta LaserMike, a provider of precision measurement and control solutions, will exhibit its complete system solution for the in-process measurement and automated quality control testing of communication cable at this year's Interwire.

"In these competitive times, when cable manufacturers are worried about how they can be more profitable, we believe it is more important than ever to educate them about the power of an integrated measurement and controls system," said Bob Stockholm, Beta LaserMike's director of sales for the Americas. "We want to demonstrate that by implementing highly accurate measurement and control solutions along the critical points in the cable extrusion process, manufacturers can significantly increase productivity, reduce waste, and improve product quality to successfully grow their business."

Beta LaserMike plans to display a complete cable extrusion line measurement and control system with gauges in place from the extruder through the puller station. The integrated system solution includes: pre-heater system for uniform, in-process

wire heating to eliminate insulation voids in primary cables; AccuScan system for precise on-line measurement of cable diameter and ovality; CapScan system for accurate on-line measurement of cable capacitance; CenterScan system for accurate, reliable monitoring of insulated cable diameter and eccentricity of conductors; lump and neckdown detector system, including the new LN3015 3-axis gauge; and high-frequency spark tester for on-line detection of faults in cable insulation, such as voids and pin holes.



Also included is the LaserSpeed system for non-contact length and speed measurement of moving product with ±0.05% accuracy and ±0.02% repeatability; BenchMike bench-top system for fast, accurate dimensional measurement of cut product samples; DataPro process controller and data management system; LayScan system for accurate, consistent cable lay length measurement of twisted pairs; and SRL Pro on-line structural return loss (SRL) prediction and analysis system.

Beta LaserMike will also be displaying its line of bench-top DCM testing systems for LAN/data cable, such as the DCM Model ES-2G for quality testing 4-pair category cables up to 2 GHz, and DCM Model SCS-350B for quality testing 4-pair category

cables up to 600 MHz. The DCM line of cable testing systems includes bench-top and fully integrated turnkey solutions for accurately and reliably testing LAN/data, telecom, coaxial, and aerospace/defence cables.

Beta LaserMike – USA
Website: www.betalasermike.com

Blachford Corp
Booth 506

In 2008, a Georgia, USA, sugar mill suffered a devastating explosion due to the presence and subsequent ignition of a combustible dust cloud. The accident resulted in the deaths of 13 people and changed the way industrial manufacturers manage and mitigate dust-related risk.

This accident illustrated the risk associated with combustible dusts and soon thereafter OSHA began an intensive review of workplace safety in dust producing processes. At the same time, wire manufacturers intensified their search for ways to reduce both the creation and accumulation of dust in their facilities. As part of their search, a number of wire drawers asked Blachford Corporation for technological developments that would reduce dust creation during steel wire drawing.

For over 50 years Blachford has been active as an innovator and a technical solutions provider for the global wire drawing industry. The company tailors lubricant programs to the technical specifications of customers' processes. Blachford provides new technology products to wire producers in support of their ever-changing needs.

Blachford's efforts led to the development of its newest technology products: Low Dust Drawing Lubricants. These dry lubricants reduce the creation of observable dust, and in some processes can result in increased drawing speeds, reduced lubricant consumption and extended die life. There is the additional potential of providing improved corrosion resistance.

At Interwire Blachford will present a technical paper on "The Potential for Lubricant Dust Explosions in the Wire Drawing Industry", and will share information with customers at the company's booth.

Blachford Corp – USA
Website: www.blachford.com

Bow Technology
Booth 1932

Bow Technology is the answer to cable makers concerned by quality and long-life reliable bows for all brands of double twist machines.

With a comprehensive range of over 500 designs in constant evolution, the division offers a global service from conception to production. The company is the owner of the patented GreenBow, a unique design enabling important energy savings.

Bow Technology – France
Website: www.bowtechnology.com

CM Caballé, SA
Booth 212

With over 60 years of experience in the design and manufacture of rotating

machinery for the production of power and telecommunication cables and steel ropes, CM Caballé provides the cable industry with a wide array of stranding, twinning, bunching and cabling machinery. The firm is constantly developing new, high quality equipment to meet the ever-changing needs of the wire and cable industry.



The company's portfolio includes equipment for power cables (double twist stranders, rigid stranders, drum twisters, single twist stranders, bow skip stranders, tubular stranders, planetary stranders and SZ stranders); telecom and LAN cables (double twist pairing-quadding machines, single twist cabling lines, group twinners, drum twisters, shielding-jelly filling-sheathing lines and SZ stranders); steel ropes (double twist stranders, tubular stranders, planetary stranders and bow skip stranders); and ancillary equipment (payoffs, take-ups, capstans, caterpillars, taping machines and binders).

At Interwire, the company will show a new range of rigid stranders and drum twisters that have been redesigned and upgraded in collaboration with energy cable producers to manufacture products such as compacted conductors of copper and aluminum for LV, MV, HV and EHV insulated conductors; sector conductors (Milliken) of copper and aluminum for high and extra high voltage insulated conductors; aluminum overhead conductors (AAAC, ACSR) with round or trapezoidal wires; screening with

copper wires (single or multi-wire) for MV and HV conductors; and armoring with galvanized steel wires.

CM Caballé, SA – Spain
Website: www.cmcaballe.com

Candor
Booth 124

Candor Sweden AB and its US representative Kinrei of America will be introducing the new design of Candojet, for high speed hot water and steam cleaning of wires. The unit is compact and offers efficient cleaning after drawing or rolling mill process.

Other new design developments will include a modular design of high speed



copper coating plant for welding wires; single wire plating plants for nickel, silver, tin and zinc plating on non-ferrous wire and also available for stainless and carbon steel; ultrasonic and electrolytic cleaning plants for single- and multi-wire applications; and multi-wire nickel or copper coating plants for stainless steel spring wires or CHQ wires. The new enhanced design of the multi-wire coating plant allows high current densities and individual control of each wire with differing speed and plating thickness.

Candor Sweden AB – Sweden

Website: www.candorsweden.com
Carris Reels
Booth 1524

At Carris Reels, safety and strength are of utmost concern when it comes to products, especially its line of plywood reels and spools. In addition to providing strength and durability with optional hardwood flanges, Carris offers reelply, a hardboard-clad plywood.

For over half a century, Carris Reels has provided its customers with high-quality cable reels and spools including plywood reels, plastic reels and nailed wood reels for the wire and cable industry.

Carris Reels – USA
Website: www.carris.com

Chengdu Centran
Booth 970

Centran Industrial is a global supplier of raw materials for the cable and wire industry. It is one of the largest manufacturers of water-blocking tape, water-blocking PET and E-glass yarn, polyester yarn and flame retardant and marking tape in China, and was established in 1997.

The manufacturing facilities located in Chengdu and Wuxi have a total capacity of 5,000 MT for water-blocking tape and yarn. With emphasis on quality and customer satisfaction, the company is ISO 9002 certified and has become a reliable source of quality products in the international market, exporting to more than 45 countries worldwide.

Centran's tapes and yarn are used for power cable, optical cable, copper telephone

cable, data cable and submarine cable, as binding, bedding, barrier and separating functions.

Chengdu Centran Industrial Co, Ltd – China
Website: www.china-centran.com

Cimteq Ltd
Booth 2032

CableBuilder, Cimteq's cable design and quotation software application, helps companies to design wire and cable faster, quote faster and avoid costly mistakes that lead to scrap and re-work.

The application can produce 2D, 3D and profile drawings, and is easy to use and to implement, with features such as fast cable design for all types of cables; easy to use mass-update tools; version control



with version comparison; work-flow and approval control; completely customisable configurations; integration to ERP systems; integrated Crystal Reports engine from SAP; and data import/export with spreadsheets. Other features include fast quotation generation, packaging calculations, length-based costing, production of professional datasheets and manufacturing instructions, cable configuration/variant generator, what-if analysis of value engineering, bill-of-material and routing

generation, and alternative bill-of-material and routing.

Successfully implementing software is a partnership between the cable maker and the software provider. Cimteq states that it understands the requirements of the industry, and is able to provide companies with the flexibility they require.

Cimteq Ltd – UK
Website: www.cimteq.com

Clinton Instrument Company
Booth 901

Clinton Instrument Company, a leader in spark testers for the wire and cable industry, has expanded its high voltage pinhole detection technology to include new quality control tools for manufacturers of plastic- and dielectric-coated materials.

A Clinton pinhole detection system performs a 100 per cent inspection on the manufacturing line, ensuring product reliability and averting further processing of substandard material. Clinton engineers are available to discuss your pinhole detection application.

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

Condat Corp
Booth 1650

Condat's lubricant and surface technology range covers all metal forming applications and the company's commercial network services the metal forming industry worldwide. With over 150 years of expertise in

the lubricant business, Condat continuously improves and upgrades its formulations for better value and in order to match the most advanced environmental regulations.

Condat Corporation is the US-based division of Condat SA. With extensive production capabilities, the subsidiary offers the flexibility and reactivity to fully serve the North American market.

A team of experienced sales engineers can help customers with the wide selection of innovative products and services on offer. Condat recommends the best lubricant solutions combining technical and environmental aspects, as well as economic considerations.

At Interwire Condat will present its latest developments in lubricants and products for wire drawing industries, including Vicafil wire drawing lubricants, Steelskin lubricants for demanding applications, Galvasmooth charcoals for hot dip galvanizing, and Condaclean cleaners for all metal types.

The show will be an opportunity for Condat to promote several recently developed new products, including Vicafil TN 1674 T and Vicafil TN 1608 T, two new sodium-based soaps for high speed drawing of carbon steel grades. TN 1674 T is free of lime and calcium compounds.

The company will also be promoting Vicafil TS 4770 W, a non-reactive pre-coating specifically developed to address the demanding application of in-line coating of stainless steels, immediately in front of the drawing bench.

Condat Corporation – USA
Website: www.condatcorp.com

Daloo
Booth 1932

Daloo is a supplier of equipment for cable producers wanting simple and reliable machines. While the design is based on European experience, the manufacturing is performed in China following strict quality criteria.

The company's complete stranding lines and accessories for the production of power and communication cables are delivered worldwide, including rigid cage stranders, taping lines, rewinding lines, take-ups and payoffs, and pulling caterpillars.

Daloo – China
Website: www.daloo-machines.com

Die Quip
Booth 1003

Many factories take a disposable approach to their dies, looking for a way to reduce cost. This low purchase cost model can have hidden charges that affect the production cost and quality of a mill's efficiency.

High overnight freight and two-way freight fees are regularly absorbed from rush orders when dies are needed quickly or customer requests demand changes to stock. Large inventories, hidden labour and disposal of good dies from short runs are common areas where production costs are increased but not controlled.

An internal die shop can easily eliminate these expensive problems. With the right training and machinery each die is quickly sized for production and can be adjusted immediately to accommodate production runs. Correct die geometry solves many

production problems and good dies pull more wire.



Production costs decrease with an efficient internal die shop, and Die Quip has the expertise, training, support and machinery to get you there. The company's extensive training products include on-site machine training, die making instruction and die design programs for operators and plant management.

Each machine is supplied with Die Quip's exclusive Die Making Handbook that has reference charts, procedures, formulas and die production instructions.

Die Quip – USA
Website: www.diequip.com

Eder Engineering GmbH
Booth 1050

Depending on the quantity of drawn wire and also on the care under which the die tools are being used, all dies are subject to wear. Their best economy and efficiency is achieved if the dies are taken out of the machine for a fast re-polishing when an onset of wear is visible in the drawing cone, where the incoming wire establishes first

contact with the die. By doing so, the die tools can be used successfully and largely with their initial bore diameter for a long time, prior to having to enlarge them to their next larger usable size.

In today's highly competitive wire drawing industry, and with the growing use of multi-wire drawing machines with up to 48 wires drawn on a single machine, a well-equipped and efficiently functioning modern die-workshop is an absolute must, if drawing efficiency and economy is to be maintained at the highest possible level. Unique concepts, such as Eder's USP-Twin and HGM-21 equipment, have been developed to meet all these demands.

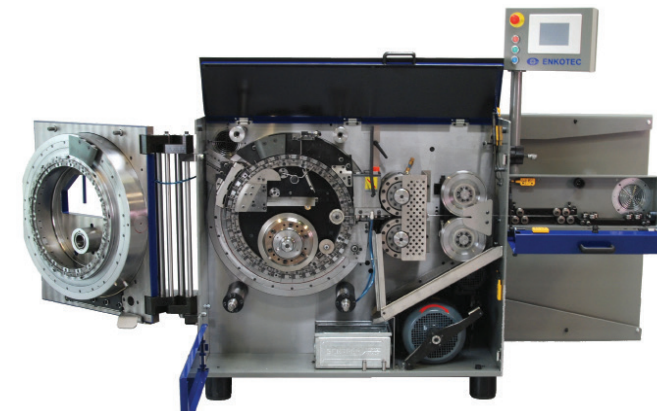


Eder-Austria offers a variety of easy to understand and operate state-of-the-art die-reconditioning machines, and its high degree of inherent automation can reduce the number of personnel and the levels of skills formerly required, while at the same time offering longer die life, higher tonnages of drawn wire, and lower operational cost. Correct refurbishment of dies regularly undertaken in time and with appropriate machines can prolong the service life of costly die tools and as such can contribute to the economic welfare higher net product value in a wire and cable plant.

Eder Engineering GmbH – Austria
Website: www.eder-eng.com

Enkotec A/S
Booth 570

At Enkotec's booth, staff will be ready to present news from the area of high-performance machinery for nail production. The company's product range includes various complementary machines supplied as standalone units or in ENKOLine in-line systems.



This year Enkotec will launch an upgrade of the complete ENKONail+ high-capacity nail machine series. The upgrade includes many advantages, including: disco variator replaced by robust and maintenance-free servomotor drive; more user-friendly software; improved system for insertion timing with easy and quick adjustment; larger eight-groove feed rollers with improved lifetime; pedal for manual drive of machine; exhaust air connections allowing efficient evacuation of dust; improved cooling of machine due to powerful extraction of air; electrical cabinet rubber damping supports to reduce vibration; and a box for nibs inside the machine.

Enkotec nail machines are based on a rotary forming principle, allowing wire feeding, wire cutting and head forming to take place in one continuous process of rotating movements, and offering the possibility of unmanned production.

The company claims that the output-per-minute rate of the ENKONail+ series is the highest in the market, without affecting the production stability. The dimension range is as wide as $\varnothing 1.8-4.2\text{mm}$ (0.071" to 0.165") x nail lengths 32-130mm (1¼" to 51/8"). The machines incorporate a compact, space-saving design and a user-friendly PLC control system with touch screen operator interface, which is easy to navigate and allows quick setup of nail parameters.

Tooling changeovers and maintenance routines are easy to carry out owing to the user-friendly open-door machine design. At the same time, Enkotec's machine concept allows the implementation of an environment-friendly production with a low noise level, small energy consumption and an oil-free manufacturing process, eliminating the need for subsequent nail tumbling.

Enkotec A/S – Denmark
Website: www.enkotec.com

Esteves Group
Booth 806

The Esteves Group is a global company with almost 100 years of expertise in the production of dies, extrusion tools, machines for die reconditioning and refurbishing services.

The group is committed to continue expanding and strengthening its worldwide network of production and service facilities in order to support customers in optimising their processes.

Esteves Group – USA
Website: www.estevesgroup.com

Eurolls

Booth 1739

Over the past year, Eurolls SpA has been conducting several studies on the use of rolling cassettes versus dies, for special applications. With the cooperation of several key customers, the company has been able to perform these tests with optimal results.

Consequently, in 2012 Eurolls supplied a large quantity of rolling cassettes to major producers of welding wire and special alloys. Eurolls can guarantee very precise tolerances, not only for materials made of low, medium and high carbon, but also on wire made by special materials. The latest Eurolls rolling cassettes are able to achieve final diameters smaller than 1mm.

The Italian company has demonstrated throughout the years its commitment to evolving the rolling cassette technology, since it was first introduced by Eurolls in 1996. Eurolls completely understands the wire production process, and claims to be the only rolling cassette manufacturer that produces all of its own internal parts, including the cassette body and the rolls.

In 2013, Eurolls plans to introduce its latest innovative rolling cassettes to the world market.

The company has recently closed important orders throughout the USA, Mexico and Canadian markets, for different Eurolls products, including machinery and equipment for the wire sector, and roll tooling for the tubing sector. Thanks to a new working agreement, Eurolls will soon provide regrinding services for tube mill rolls in the USA, and will continue to provide wire and tube mill regrinding services at the Eurolls De Mexico facility, located outside Monterrey, Mexico.

Eurolls SpA – Italy

Website: www.eurolls.com

Flymca and Flyro

Booth 215

For many years Flymca has been producing standard and traditional rotating machines such as rigid, tubular, skip, and planetary stranders as well as drum twisting lines, bow cablers, and double twist bunchers.

The company, which produces payoffs and take-ups for bobbins up to 8,000mm/650 tons, is now also involved in the production of special equipment used for submarine, offshore and umbilical cables production, as well as machinery for steel rope manufacturing.

Flyro is also buying and selling used equipment for the wire and cable, tube and bar industry.

Flymca and Flyro – Spain

Website: www.flymca.com

Gauder America

Booth 1832

The newly created Gauder America will be present on the Lloyd & Bouvier, Inc booth, since the companies entered into a joint venture agreement for better serving the USA and Canada used machines markets.

The Belgium-based supplier has in stock more than 1,000 machines ready to manufacture wires, conductors, cables, ropes and steel products. A large stock of equipment and any new entries can be viewed in real time at the company's website.

Gauder America – Belgium

Website: www.gauderamerica.com

Gauder Group, Inc

Booth 1932

With over 20 years of continuous presence and after several recent major machine installations in the USA, the Interwire 2013 show is an opportunity for the Gauder Group, Inc to highlight the joint rebranding of its Pourtier and SETIC product range as a combined entity, Pourtier & SETIC of America.

Based in France, both are leaders in rotating machines for the non-ferrous wire and cable industry. Gauder Group, Inc develops its support and parts services (including high technology bows) to the North American market from Greensboro, North Carolina.

Gauder Group, Inc – USA

Website: www.gaudergroup.com

Gem Gravure Co Inc

Booth 706

Marking the surface of fluoropolymers is a challenge. Typically a contact wheel has been used to place information such as manufacturer or specification on the surface. While effective, this technique limits variable information. During 2012, Gem chemists developed two ink jet inks for these materials.

BKG7761 Black and GNG7765 Green are designed for use on fluoropolymers in continuous manufacturing processes. Codes are applied prior to sintering ovens,

and heat exposure is required to complete adhesion to the jacket surface. Common industrial fluoropolymers used in industry include PTFE, FEP and ETFE.



The newly formulated inkjet inks show adhesion that is comparable to the traditional gravure inks. After processing, codes survive MIL-W-227598 adhesion testing. A sewing needle with a diameter of 0.025" is pulled back and forth over the code for 60 cycles.

The length of the stroke is 3/8". A small weight of 500g is attached to the top of the apparatus to hold the needle in place. 125 cycles should be performed; passing codes remain legible after this test. Results may vary with manufacturing and surface conditions, and customer testing is required to confirm performance.

Gem Gravure Co Inc – USA

Website: www.gemgravure.com

GMP Slovakia
Booth 558

GMP Slovakia produces take-apart reels, including the Easycoil Plus reel. This patented reel can also be used as a coil lifter: with lifting rings in "lifting" position, the barrel expands during the lifting operation and lifts the coil. With lifting rings in "free" position, the barrel collapses during the lifting operation and sets the coil free.



Easycoil Plus is completely machined on the parts in contact with the wire, and can be customized according to customers' requirements. It can be supplied with slots in the flange to fit cardboard barrels, or with changeable flanges to make coils of different widths. Easycoil Plus can be balanced, and to prevent wear problems due to the high rotation speed, hardened changeable bushings are recommended.

GMP Slovakia – Slovakia
Website: www.gmp-slovakia.com

H Folke Sandelin AB
Booth 740

H Folke Sandelin AB (HFSAB) from Motala, Sweden, will be a co-exhibitor with Niehoff Endex North America Inc.

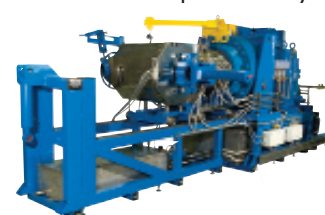
(HFSAB) has played a leading role globally for over 50 years, supplying continuous lead extrusion equipment and know-how for trouble free lead sheathing of cables thus providing a perfect moisture barrier.

The latest design extruder is horizontal, floor-standing, easy to install and maintain, fully automatic, extremely reliable with its state-of-the-art control system, enabling continuous operation for weeks with little or no variation in temperatures and wall thickness/concentricity.

The lead wall thickness can be kept to a minimum with corresponding savings in lead. A range of die blocks are available to cover an extensive diameter range of 6-225mm (over lead), and a range of Melting Pots are available for 10, 18, 35 and 60 tonne capacities.

Additional equipment includes the cable repair and recovery system, CRRS, which has the possibility of:

Removing individual layers, such as the outer jacket, lead sheath or triple layer XLPE insulation, without causing any damage to the subsequent layer below.



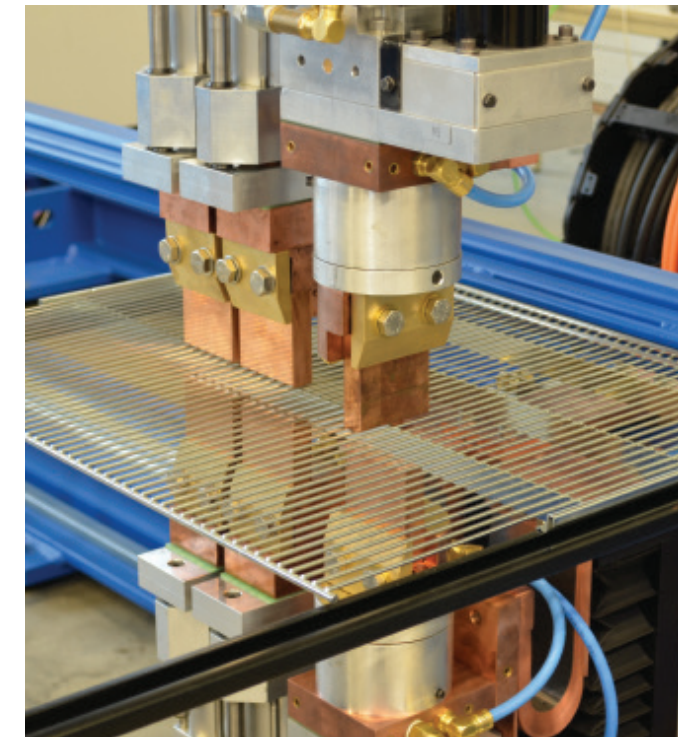
the outer jacket, lead sheath or triple layer XLPE to be reapplied and the cable repaired. Even if the cable is just going to

be scrapped, the metal price differences for insulated or un-insulated cables are very large and the equipment would have a very short pay-back period, if the metals are scrapped in their "bright" form.

H Folke Sandelin AB – Sweden
Website: www.hfsab.com

Ideal Welding Systems
Booth 1731

Ideal Welding Systems is a supplier of Ideal and Clifford automated equipment to the sheet metal and wire industry. The company's product offering includes reinforcing and industrial mesh welders, CNC jig welders, butt welders, straightening and cutting machines, wire drawing machines and grating welders.



The company will be exhibiting the advanced Ideal CSR102 CNC jig welder. This automated positioning and welding system is suitable for resistance welding both sheet metal and wire components on the same machine. In line with Ideal's range of 'green' welding equipment, the CSR102 jig welder is equipped with efficient MFDC (medium frequency direct current) welding technology, along with the latest servo motors and drives from Siemens.

The CSR102 also offers the latest in available options and tools to become the most

versatile machine the company has built, incorporating horizontal and vertical welding, along with automatic adjustment of welding heights, and a pincer welding tool for welding in the vertical plane, facilitating the welding of 3D sheet metal and wire components.

A rotating weld head is also included, allowing for welding at any angle in the horizontal plane, suitable for the efficient welding of wire products such as fan guards. The machine on display will also have the largest welding envelope ever displayed by Ideal: 118"(w) x 80"(d) x 15"(h).

Ideal Welding Systems – USA
Website: www.idealweld.com

Inhol BV
Booth 402

Inhol's principal focus at Interwire will be the introduction of an additional range of specialty cross-linkable wire and cable compounds, suitable for various cross-link systems and irradiation. The new PTL-brand compounds will be based on one of the four major cross-link systems: silane-grafting/moisture cross-linkable, peroxide-based mold-curable, peroxide based CV-curable and E-beam radiation cross-linkable compounds.

Inhol/PTL's extended compound portfolio also includes thermoplastic compounds, abrasion testers and a new designed hot-set (hot-creep) test oven.

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

InnoVites BV
Booth 2131

InnoVites highly values interaction with the wire and cable industry, and after attending Interwire 2009 and 2011, the company will be present for a third time in 2013. The company will showcase its ERP solution for the cable industry: InnoVites for Cable, based on user-friendly Microsoft Dynamics AX technology.

Based on the long experience of its team, InnoVites, headquartered in The Netherlands, developed software that addresses the specific business issues in the industry, such as length and tolerance management, product data management and copper management.

Benefits of InnoVites for Cable include increased customer satisfaction, via reliable delivery dates with the fully cable length-based logistics management, and length information including length tolerance managed in sales, planning, purchase and production operations. The system can reduce business risk by managing the impact and risk of metal price volatility (Cu, Al, etc) in quotations, sales and purchase orders, and keeping price lists up to date with the material prices at the commodity exchanges (eg LME and Comex).

Faster response to customer enquiries is provided by the ability to search quickly through the hundreds or even thousands of available items, using the cable design attributes that the customer requires (eg cross section area, number of cores, design standard or armoring type). Length-based production planning and scheduling result in optimal production lengths and optimal loaded resources.

A personal demonstration during the fair can be arranged via the company's website.

InnoVites BV – The Netherlands
Website: www.innovites.com

Inosym Ltd
Booth 1320

Inosym has been supplying reels to the cable and wire industry for 12 years, and to over 48 countries. Specializing in steel and plastic reels that are manufactured to European and USA standards, Inosym can offer reels to meet all the varying needs of modern manufacturing plants.

The company's reels were developed to provide cable and wire manufacturers with a product that was realistically priced and of high quality. Several of the company's product ranges are detailed below.

- ABS plastic reels from 250 to 1,000mm for insulating, group twinners, stranding, bunching and jacketing
- MF (metal flange) pressed metal process reels in sizes from 100 to 1,250mm, made from high quality steel plate and tube. Applications include universal take-up and payoff reels, bunching, stranding, insulating and jacketing
- SM (semi machined) double-wall high-speed reels are available in sizes from 315 to 1,250mm and are made of high-quality steel plate and tube. Applications include drawing, bunching, stranding and insulating
- FM (fully machined) steel high-speed reels in sizes ranging from 100 to 1,000mm, manufactured from high-quality steel plate and tube. Applications include high-speed single-wire drawing, high-speed multi-wire

drawing, bunching and enamelled wire coating

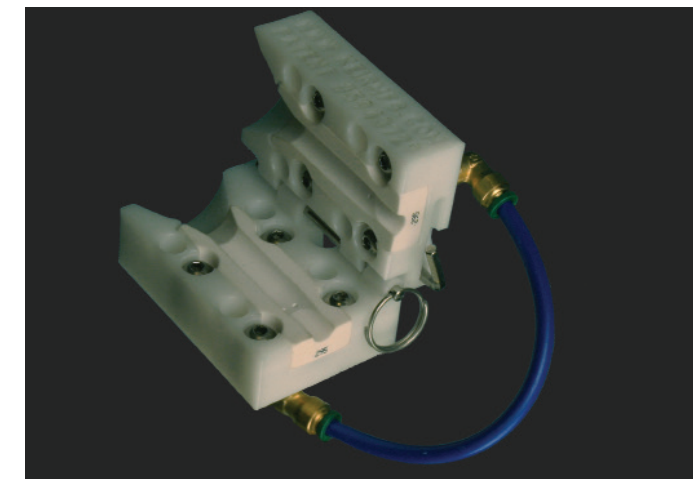
- SD (steel drum reels) are large steel process and shipping drums available in sizes ranging from 800 to 4,500mm. SD steel drum reel options include flat sided flanges, corrugated flange and break-down reels. Applications include drum twisting, stranding, insulating and jacketing

With more than 350,000ft² of production space, Inosym can provide customers with rapid delivery of both large and small reel orders.

Inosym Ltd – New Zealand
Website: www.inosym.com

Keir Manufacturing, Inc
Booth 703

Keir Manufacturing, Inc is a US-based manufacturer of high-purity 99.8% alumina ceramic guides, the Frontiersman™ line of



air wipes, and composite flyer bows, serving the global wire and cable industry. The company is dedicated to making products that enable manufacturing processes to run more efficiently and productively through the application of leading edge materials.

Its solutions are focused on continuous process improvement, energy savings and longer operating life.

Keir's patented SureShot and SplitShot air wipes provide an effective drying method that does not depend on high-volume air consumption. The efficient design yields effective drying using a very low volume of compressed air and is claimed to last longer than other brands due to the rugged ceramic insert lining the wire path, equating to over 25 percent reduction in compressed air usage and an operating life of years versus months.

The company's triaxially braided composite standard and BackBone™ flyer bow constructions have greater durability than layered/laminated designs, allowing them to take more hits and endure higher stress, yielding increased operating life and less machine downtime. The more aerodynamic BackBone design functions at lower power consumption and higher TPM with improved wire quality and a further reduction in bow breakage. Up to 40 per cent less energy (amps) is used, along with a decrease in wire scrapped.

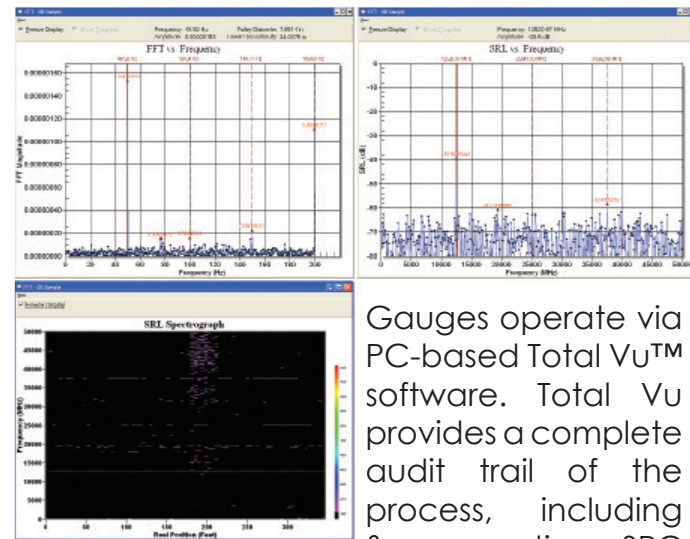
Keir Manufacturing, Inc – USA
Website: www.keirmfg.com

LaserLinc Inc
Booth 1850

LaserLinc's accurate and adaptable non-contact laser and ultrasonic systems measure OD, ID, wall, eccentricity and concentricity for the wire, cable and fiber industries.

High-speed three-axis laser gauging for ovality and flaw detection, plus features

such as FFT and SRL prediction, help reduce scrap, increase production efficiency, and improve quality. The UltraGauge+™ ultrasonic wall thickness measurement system uses hardened stainless steel fixtures designed to withstand harsh wire and cable manufacturing environments, and UltraLock™ Auto Setup provides automatic configuration.



Gauges operate via PC-based Total Vu™ software. Total Vu provides a complete audit trail of the process, including flaw reporting, SPC charts and Excel-based user-designed reports, along with real-time analysis with run and trend charts, graphical cross-section display and measurements in configurable, easy-to-read panels. Other features include in-process tolerance checking, feedback control and recipes.

Laser gauges measure diameters from 0.035 to 120mm (0.0014" to 4.7"), and feature compact models and the highest measurement rates available. With the UltraGauge+, wall thickness can be measured at up to eight positions, with up to 2,000 measurements per second.

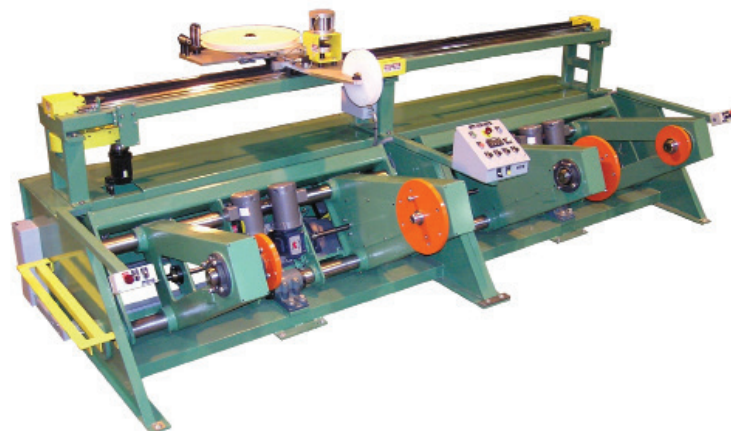
LaserLinc micrometers and the UltraGauge+ digital signal processor have a four-year parts and labour warranty. If a micrometer needs warranty repair, LaserLinc will overnight deliver a temporary replacement.

LaserLinc, Inc – USA
Website: www.laserlinc.com

Lloyd & Bouvier, Inc
Booth 1832

Lloyd & Bouvier now offers a 50" shaftless dual reel take-up, consisting of two 50" welded plate frames bolted together with common traverse mounted on dual linear bearings, with a continuous belt drive activated with a servo motor. A clamp and pulley system can be incorporated into the traverse system to direct and hold the wire during crossover.

The take-up accepts reel diameters from 24" to 50" and reel widths from 20" to 40". Reel lifting is accomplished through dual pneumatically loaded cylinders to lift reels up to 5,000lb. Gate arm positioning for various reel widths is achieved through dual AC gear motors with automatic centering via Acme threaded rod activation.



Power is provided by a 10 HP AC motor with in-line reducer to provide maximum torque. A NEMA panel houses the 10 HP AC Vector main drive and all related electrical components, and operator controls are mounted on gate arms for

easy access. Pintles and drive rotors are provided and customized to individual customer requirements. A 72" version is also available.

The shaftless dual reel design offers a safe and efficient alternative to the older shaft style dual reel take-ups, eliminating operator handling of heavy shafts, and removing the problem of damaged locking collars when loading and unloading reels.

Lloyd & Bouvier supplies new, rebuilt and used equipment to satisfy virtually all wire and cable equipment needs.

Lloyd & Bouvier, Inc – USA
Website: www.lloydbouvier.com

Magnetic Technologies
Booth 217

Magnetic Technologies Ltd has added electric hysteresis brakes to its product offering. Available in sizes up to 220lb per inch, these brakes complement the extensive offering of permanent magnet hysteresis, and eddy current brakes and clutches offered by the company.

Electric hysteresis brakes can be integrated into closed loop tension control systems. A working model of such a tension control system will be displayed at Interwire, where a variety of permanent magnet brakes for the wire industry will also be on show.

Magnetic Technologies – USA
Website: www.magnetictech.com

Maillefer
Booth 932

Maillefer is exhibiting at Interwire to share new developments and improvements with its partners and friends.



Maillefer has a broad portfolio of extrusion systems for energy cable, fiber optic and telecom cable and tube manufacturing systems. In Atlanta the focus will be on energy and fiber optic applications for higher productivity, more compact layouts, longer production runs, improved manufacturing quality and clean insulation material handling.

Maillefer has supplied fiber optic manufacturing equipment since the late 1970s, providing solutions for every stage of the fiber optic cable process. Tight buffering, secondary coating, SZ stranding and jacketing lines are available for producing FTx cable with low fiber counts and short lengths, and technology such as the compression caterpillar with tension feedback keeps accurate control of excess fiber length.

Maillefer Extrusion – Switzerland
Website: www.mailleferextrusion.com

Mathiasen Machinery, Inc
Booth 333

Mathiasen Machinery Inc (MMI) buys and sells used wire and cable machinery internationally. Machinery is purchased for inventory or it can be sold on an exclusive basis.

MMI has interest in locating individual machines, complete lines or entire plants. Consignments, warehousing, appraisals and liquidation services are also offered. MMI has buyers seeking all types of good quality used wire and cable machinery, and serves the domestic and international ferrous and non-ferrous wire machinery markets.

The company's booth will display photos of a wide variety of second hand machinery. Customers are asked to bring their surplus machinery list and photos for evaluation.

Mathiasen Machinery, Inc – USA
Website: www.mathiasen-machinery.com

Medek & Schörner GmbH
Booth 1050

Medek & Schörner will be presenting the following state-of-the-art cable marking machines at Interwire 2013:

Cable marking machines: high quality gravure printers (LAN cables, control cables) for speeds up to 1,200m/min; water misting unit for the application of fine water dust for pre-cooling of hot wire immediately after the extruder; embossing meter markers/hot foil sequential meter markers for high accuracy of length measurement (power cables, telecommunication cables, optical fiber cables); high performance

ring markers for marking telephone wires, switchboard wires, automotive cables and LAN cables; video system for monitoring the print quality of fast-running cable printing machines, eg allowing real-time inspection for bad quality and/or missing prints; and laser marking system for cables.

Optical fiber coating systems: top speed optical fiber processing systems; optical fiber color coding up to 3,000m/min; ring marking of optical fibers; tight buffering up to 1,300m/min; fiber ribbon production with excellent ribbon planarity, for speeds up to 1,000m/min; CFU production of compact fiber units; copper wire insulation with UV varnishes (enamel wire); and manufacture of dimension-sensitive precision micro flexible flat cables (FFC) using UV resins.

Medek & Schörner covers virtually the entire spectrum of machines for marking cables and coding optical fibers, in particular for power, telecom and data cables.

Medek & Schörner GmbH – Austria
Website: www.medek.at

Nextrom Oy
Booth 1050

Nextrom is a supplier of optical fiber glass preform manufacturing equipment. The company produces fiber draw towers and associated machinery for the global fiber market using MCVD, OVD and VAD technologies. As well as providing optical fiber equipment, Nextrom is a supplier of fiber optic cable production lines.

Rosendahl is a global supplier of high-tech wire and cable manufacturing solutions, offering products and turnkey solutions in

the fields of extrusion, corrugation, fiber optic cable and SZ stranding. Out of these competences, Rosendahl developed the product segments power cable, automotive wire, LAN cable, coaxial cable and fiber optic cables. Rosendahl's most recent completion of its product portfolio is the Crosshead Series.



At Interwire 2013 Nextrom and Rosendahl will present the latest advancements and technology highlights, including recent developments for the production of fiber optic cables, energy, automotive and communication.

On the American market Nextrom and Rosendahl work closely together with their agents, Finoptics Inc for Nextrom products, and Camarena, Inc US and JJ Lowe Associates, Inc for Rosendahl products.

The companies' partners have been involved in the cable and wire business for many years and therefore have long-term experience in this area.

Nextrom Oy – Finland
Website: www.nextrom.com

Niehoff
Booth 740

Niehoff Gruppe and its subsidiary Niehoff Endex (NENA) will present equipment including an MMH 121/RM 201.S multiwire

drawing line, a BMV 124 rotary braiding machine, and a D 1001 double twist bunching machine.

The MMH 121 multiwire drawing machine is designed to simultaneously draw 16 wires with a final diameter of up to 0.2mm (32 AWG), which can be processed to intermediate multiwire bundles. It is possible to directly fill one spool with seven wires to be stranded into a 19-wire construction. Spool handling is simplified, and the lower



number of payoff stations can reduce capital investment. Customer-specific MMH machines adapted to each application and each type of non-ferrous metal can be built.

The 24-carrier lever arm rotary braiding machine BMV 124, a heavier version of the BMV 24 model, has a central passage of 55mm and can carry spools with a weight of up to 5.5kg. BMV braiders can work for a long time unattended and without operator intervention. The machines are designed to process round or flat wire of bare or coated copper, aluminum and stainless steel with

a single-wire diameter ranging from 0.05 to 0.3mm (40-28 AWG) as well as artificial yarn and fibers. With an integrated central taping device, the braiding and subsequent taping processes are completed in one step.

The D 1001 type single-bow double twist bunching machine is designed for the manufacture of strands of up to 50mm² (1/0) cross section for copper and up to 60mm² (3/0) cross section for aluminum conductors with a lay length of up to 300mm (11.8") and a maximum rotational speed of 3,200 twists/min. Due to their one-bow design, the D series machines' energy consumption and noise emission are reduced when compared to conventional bunching machines.

Niehoff's 'After Sales Original +' service provides expert know-how, a remote maintenance service, modernization and upgrading measures, machine operator and maintenance training courses, and fast and reliable supply of wear and spare parts. Specially developed machine components can also be obtained.

Maschinenfabrik Niehoff GmbH & Co KG – Germany
Website: www.niehoff.de

Niehoff Endex North America Inc – USA
Website: www.niehoff-usa.com

Pan Chemicals SpA
Booth 1911

Pan Chemicals is a manufacturer and supplier of high-tech drawing lubricants and coating to the wire industry. The company's production program includes:

- Dry drawing lubricants (Panlube S series): a full range of calcium, sodium and combined products for low and high carbon steel, non-ferrous and stainless steel
- Wet drawing lubricants (Panlube L series): a complete range of oils, greases and pastes for wet drawing of low and high carbon, welding wire, stainless steel and non-ferrous wire
- Lubricant carriers (Pancover series): phosphates and non-reactive coatings
- Flux for galvanizing (Panflux series): developed to improve the efficiency of the galvanizing process by a more uniform control of the reaction between the two metals, reducing operation costs and improving the quality of the zinc coating
- Auxiliary products (Panchem series): degreasing agents, pickling inhibitors, protective products, activated charcoal and wiping pads

Pan Chemicals has a strong emphasis on technical collaboration with its customers, and is focused on the research and development of new products and solutions for specific applications. Particular attention is dedicated to the development of ecological products according to the new international regulations (borax-free lubricants and coatings).

In addition to chemical and auxiliary products, the engineering department can offer different solutions for mechanical descaling, coating and drying units, rotating die holders and die reconditioning equipment.

Pan Chemicals offers its highest quality drawing lubricants and coatings, state-of-the-art drawing processes and solutions, long experience and specialized technical service.

Pan Chemicals SpA – Italy
Website: www.panchemical.com

Pave Automation Ltd
Booth 1612

Pave Automation reports that it has enjoyed success with its new range of CNC bending equipment since the launch around 18 months ago. The driving force behind the family-owned business, brothers Antonio Perna and Silvio Perna, are dedicated to the innovation and development of these new machines.

The focus has been to supply bending machines to the marketplace that are fast, small and economical. The experience



that the company has gathered over the past 30 years of manufacturing over 1,000 machines, coupled with the latest software and hardware technologies, has created a successful combination.

Pave will be exhibiting its machines at this year's international wire shows, and invites new and old customers to visit its booths with products that they wish to be formed; the company will then program these products to provide accurate on-site cycle times for their manufacture.

The products to be covered will range from 20mm to 3m long, in diameter 3 to 10mm wire.

Pave Automation Ltd – UK
Website: www.pave-wire.com

Pentre Group
Booth 2149

The Pentre Group, celebrating 25 years in the wire and cable industry, will be exhibiting at Interwire with JJ Lowe Associates, the group's exclusive sales agent for North America Canada, and Mexico.

The Pentre Group designs, manufactures and supplies a comprehensive range of high-speed steel and plastic ABS process reels, steel shipping reels, steel process drums, steel and timber shipping drums, offshore shipping drums, plywood reels, cardboard reels, and wholly-molded plastic spools.



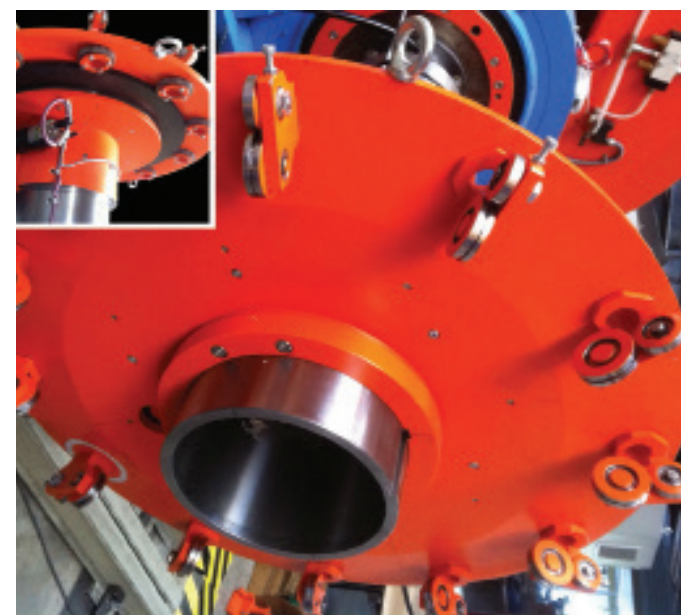
Pentre Group – UK
Website: www.pentregroup.com

Phifer
Booth 753

Phifer Incorporated, a manufacturer of aluminum round wire, with more than 60

years of experience, will display its range of American-made drawn wire products. Phifer has diverse capabilities, producing custom wire from numerous alloys in diameters from 0.11 to 11.1mm for a wide variety of applications.

The company's 0.127mm, 0.16mm, 0.254mm and 0.32mm aluminum wire (0.005", 0.0063", 0.01" and 0.0126") is used all over the world as coaxial cable braid shielding, shipboard cable armoring and hose braiding. Other applications include weaving wire, industrial knitting, tea bag staples, semiconductor bonding, medical devices, stranded power cables and lightning protection cables.



improved Phifer's selection, especially for manufacturers of rivets, staples and other fasteners. Chemical processing and cleaning is offered for improved appearance and enhanced performance.

Phifer also offers new precision-winding capabilities for aluminum thermal spray and metallizing applications. Packages include coils and stem carriers from 14 to 680kg, fiberboard drums, and more than 40 spools and reels.

The ISO registered company employs a large international sales staff fluent in many languages, and exports to more than 100 countries.

Phifer Inc – USA
Website: www.phifer.com

Pourtier of America
Booth 1932

Pourtier of America is the new name chosen by the Gauder Group, Inc to promote the sales of its Pourtier product range.

The line of equipment includes Pourtier's rigid stranders and drum twisters for producing high quality Milliken conductor for high voltage and extra-high voltage power cable (AC) and conductors for DC cables (round compacted and trapezoidal wires), as well as large equipment required for the production of submarine and umbilical cables.

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

For wire forms, food packaging clips, automotive moulding reinforcement, vacuum metallizing and more, Phifer offers aluminum wire in larger diameters 0.81 to 11.1mm (0.032" to 0.4375"). Innovative machinery has expanded and

PWM Ltd
Booth 1066

British manufacturer PWM will be exhibiting its comprehensive range of cold pressure welders, including its best-selling EP500 rod welder, at Interwire 2013. The PWM range will be presented at booth 11666 by Joe Snee Associates, exclusive distributor of PWM cold welding equipment, spares and dies in the USA and Canada.



machines are suitable for wire and strip 0.1 to 1.8mm (0.0039" to 0.071"). The BM10 and BM30 models, for use on a workbench or trolley, are suitable for similar wire sizes.

PWM machines and dies, standard or custom made to suit round or profile wire and rod, are designed and precision engineered in the company's own UK workshops, ensuring total quality control and accountability. All PWM cold welders provide a fast, cost-effective method of welding non-ferrous materials, using the multiple upset process to create a strong permanent weld stronger than the parent material.

Video demonstrations of PWM's cold welders can be viewed on the company's website.

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

PWM's powerful electro-pneumatic EP500 cold welder provides a cost-effective method of welding large non-ferrous rod sections. Energy efficient, clean and easy to operate, the EP500 is designed for wire and strip 5 to 12.5mm (0.197" to 0.492") copper, and 5 to 15mm (0.197" to 0.590") aluminum.

The smaller, manually operated M101 cold welder, for copper wire and strip 1 to 3.6mm (0.04" to 0.141") and aluminum 1 to 5mm (0.04" to 0.197"), can be used on a workbench or supplied with a trolley, enabling it to be wheeled quickly to the work area. Durable and reliable, the heavy duty M101 is simple to maintain due to the low number of component parts.

For joining fine wire in confined spaces, PWM's M10, M25 and M30 hand-held

Qunye
Booth TBC



Qunye, a leading reel manufacturer in China, has all types of metal and plastic reels for wire and cable.

The company's reels are suitable for use in many areas: high voltage, middle voltage and low voltage XLPE power cables, optical fiber cables, telecommunication cables, steel wires, steel rope, bead wires and cutting wires, as well as in the textile industry.

Qunye – China
Website: www.qunye.com.cn

Rautomead Ltd
Booth 234

Rautomead, a specialist in continuous casting technology, processes and machinery, will be exhibiting the latest advances in copper magnesium alloy wire rod production technology, for automotive wiring harness and high speed rail contact wire applications.



DHP copper tube shell 'Castube' production technology will also be on show, which features in the new Compactube process being promoted by SMS Meer GmbH for the small scale manufacture of air conditioning and plumbing tubes. Rautomead's CuOF

wire rod production technology for fine wire, enamelled wire and shaped wire manufacture (by rotary extrusion) will also be available.

Having recently launched its new Advancing Metals Technology division, Rautomead now offers direct access to an extensive network of partnerships at specialist universities, research establishments, key institutions and industry corporations, to develop imaginative, innovative and economic processing technologies for new and different alloys and applications.

Rautomead Ltd – UK
Website: www.rautomead.com

Rockford Manufacturing Group
Booth 2156

Rockford Manufacturing Group (RMG) Fastener Engineers and Lewis Machine's integrated in-line wire processing solutions are the epitome of lean manufacturing. RMG's straighten and cut machines have introduced many revolutionary concepts including VF AC drives, 3 die arbors and the patented "clutchless" cutting technology.

On the booth will be the Lewis 1SHVF straighten and cut machine with the 4VPS16 overhead wire payoff. The 1SHVF has been redesigned to include many updated features including: variable frequency drive technology, a light weight release and length control system with micro fine adjustment specifically for small diameter material and completely independent control of feed speed – arbor speed – cutter speed, to maximize productivity.

The in-line wire processing equipment is being used by many manufacturing

processes, including fastener production, nail making, wire bending, concrete products, steel bar processing, welded wire products, screw machine parts and wire straightening and cutting.

RMG provides integrated systems for the processing of hot-rolled rod into descaled and drawn wire that is regularly used in a variety of production machines and processes to reduce material cost.

Rockford Manufacturing Group – USA
Website: www.rmgfelm.com

Rosendahl Maschinen GmbH
Booth 1050

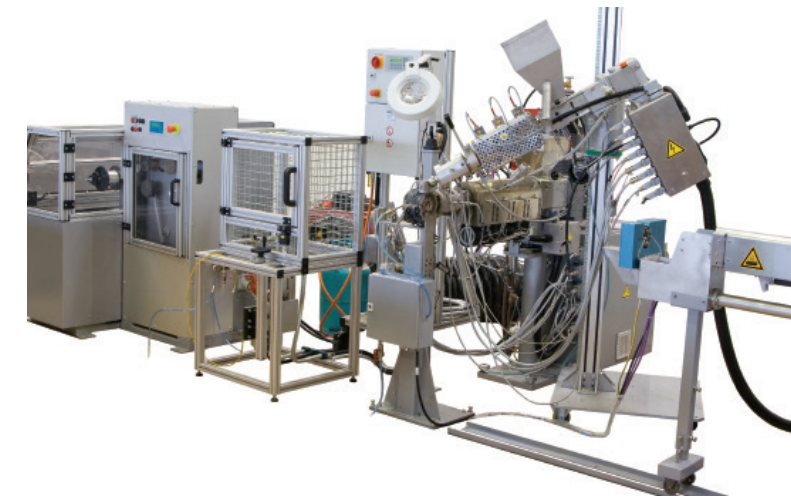
Rosendahl is a global supplier of high-tech wire and cable manufacturing solutions, offering products and turnkey solutions in the fields of extrusion, corrugation, fiber optic cable and SZ stranding. Out of these competences Rosendahl developed the product segments power cable, automotive wire, LAN cable, coaxial cable and fiber optic cables. Rosendahl's most recent completion of its product portfolio is the Crosshead Series.

Nextrom is a supplier of optical fiber glass preform manufacturing equipment. Nextrom produces fiber draw towers and associated machinery for the global fiber market using MCVD, OVD and VAD technologies. As well as providing optical fiber equipment, Nextrom is a supplier of fiber optic cable production lines.

At Interwire 2013 Rosendahl and Nextrom will present the latest advancements and technology highlights, including recent developments for the production of energy,

automotive, communication and fiber optic cables.

On the American market Rosendahl and Nextrom work closely together with their agents, Camarena, Inc US and JJ Lowe Associates, Inc for Rosendahl products, and Finoptics Inc for Nextrom products.



The companies' partners have been involved in the cable and wire business for many years and therefore have long-term experience in this area.

Rosendahl Maschinen GmbH – Austria
Website: www.rosendahlaustria.com

S&E Specialty Polymers LLC
Booth 652

S&E Specialty Polymers LLC will display compounding solutions for the wire and cable industry, including a new line of concentrates.

S&E's compound brands include: TuffFlex™ flexible TPE compounds for wide temperature ranges; TuffTech™ vinyl-based compounds; TufGuard™

flame-retardant polyolefin compounds, including TPE/CPE compounds; TufShield™ plenum compounds; and TufPrene™ SBS and SEBS compounds.

In addition, the company has recently expanded its custom compounding facilities. S&E can now produce active masterbatches with up to 85 percent active ingredients.



S&E is producing approximately 15 different olefin-based flame retardant, ultraviolet, blown agent and other concentrates. By expanding its product line from custom compounds to include concentrates, S&E believes it can assist injection molding and extrusion customers to reduce their purchasing costs, reduce numbers of SKUs, and improve production flexibility.

S&E Specialty Polymers – USA
Website: www.sespoly.com

SETIC of America
Booth 1932

As part of its rebranding activity, the Gauder Group, Inc now markets its SETIC product line as SETIC of America.

This range of equipment offers large and small double twist bunchers for PC and automotive industry, as well as a complete line of machines for the production of LAN and special cable with enhanced performances in one step or two steps according to product mix.

SETIC of America – USA
Website: www.gaudergroup.com

T&T Marketing, Inc
Booth 305

At Interwire this year, T&T Marketing, Inc will be celebrating its 25th anniversary. T&T is a single source supplier to the wire and cable industry, distributing everything from bare copper to shielding, filling, insulating and jacketing products. The company was founded in 1988 and has grown over the years into an international distributor. T&T will also be introducing new product offerings that were recently added to its portfolio, and will be highlighting Vistamaxx, Irogran A 95 P 5003 DP and PP 4874.

Vistamaxx™ is used as a “blend partner” for polypropylene based compounds. It helps achieve enhanced flexibility, clarity, impact strength and adhesion while reducing or eliminating stress whitening. It is manufactured by ExxonMobil Chemical.

Irogran® A 95 P 5003 DP, manufactured by Huntsman TPU, is a non-halogen, flame

retardant TPU that consistently passes the VW-1 flame test. The compound has an LOI of 34 percent for VW-1 applications, a Shore A Hardness of 94, and meets UL1581 requirements.

PP 4874 is a polypropylene compound used for the solid insulation of data cables with superior hardness as desired in CAT 6A and 7A applications. Manufactured by Borealis, it exhibits high speed extrusion and provides process stability with regard to diameter and geometry as well as good conductor adhesion.

T&T Marketing's booth will be staffed with knowledgeable salespeople who will answer any questions visitors may have regarding the aforementioned products. Data sheets are available upon request, and samples are available for order. The T&T booth will also have literature to distribute, showcasing the company's diverse portfolio of wire and cable offerings, which include but are not limited to PVC, polyethylene, nylon and Santoprene™.

T&T Marketing, Inc – USA
Website: www.ttmarketinginc.com

Tensor Machinery Ltd
Booth 218

Tensor Machinery is a designer and builder of cabling equipment for the wire and cable industry. The company provides a wide variety of solutions to manufacture fiber optic or copper cable, including individual pieces of equipment to complete cable manufacturing lines ready to produce cable.

Products include UV coloring lines, loose tube manufacturing, SZ stranding lines, armoring line, yarn serving, payoffs, take-ups and jacketing lines for indoor and outdoor cable products. Tensor equipment is engineered to withstand the daily demand placed on it by production, and the company uses the latest in mechanical, electrical and electronic technology.

Tensor Machinery Ltd – Canada
Website: www.tensorfiber.com

Troester GmbH & Co KG
Booth 340

Troester, a supplier of machines and lines for the cable manufacturing industry, will present a variety of information and new developments in the field of CCV lines and VCV lines for XLPE and rubber cables, one step silane lines for LV and MV cable applications, as well as high speed insulation lines and sheathing lines.



Technical solutions for CV tube components, heavy duty cable jacketing and submarine cable equipment will be introduced.

Troester also represents its subsidiary, X-Compound, which supplies compounding plants for cable compounds such as PVC, HFFR, XLPE, semi-conductive material and special applications.

Troester GmbH & Co KG – Germany
Website: www.troester.de

Tulsa Power
Booth 1840

Tulsa Power has released a new line of high performance coilers. The automatic cut and transfer (ACT) series of coilers incorporates a dual spindle turret winder, designed for winding stranded, flexible wire and cable from 18 AWG to 4/0 inline in an extrusion process, or coupled with other ancillary devices on a rewind application. The addition of a payoff, dancer/accumulator, gauging and spark test allow for a complete rewind line, or can be used without the payoff for extrusion applications.

The systems can coil or spool as a standard (coiling heads are an option). The fully automatic system has a cut and transfer feature that, upon receiving a signal from



the total length counter, quickly clamps, cuts and transfers the product from full reel to empty reel without process interruptions. An ultrasonic dancer locates the position of the product and assures a smooth functioning of tension controlled winding for even the most sensitive products.

The ACT series coilers can reduce labor by utilizing one operator for several extrusion lines. Special control features and a touch screen interface allow convenient operator controls with near perfect switchover reliability at high speeds. The automatic design avoids product from accumulating on the floor, as required on manual switch-over machines, saving the operator time, minimizing scrap rates, improving wind appearance and product quality while improving safety.

Tulsa Power – USA
Website: www.tulsapower.com

Windak Inc
Booth 1940

Windak specialises in automatic packaging solutions for the wire and cable industry, and has offices in Sweden, USA, Australia and Estonia.

The company will introduce its new automatic reeler AR18-DB line at Interwire. The Auto Reeler AR18-DB is a fully automatic reeler developed for automatic packaging of cable and wire products on spools or reels between 216 and 460mm (8.5" to 18") in overall diameter. It can be run both in-line (direct connection with extruder) and off-line, and loads and unloads the empty reels automatically. The line includes stretch wrapping of the spool to contain



to make a complete automatic spooling line with a short investment payback. The company will also show the winding process and palletizing of the finished spools.

Windak will also present the latest information about its full range of products, including payoffs, take-ups, rewind lines, coiling and spooling solutions, accumulators and palletisers.

Windak – USA
Website: www.windakusa.com

Zumbach Electronic AG
Booth 1540

Zumbach will showcase its broad range of dimensional measurement and inspection systems for rod and bar mills, and wire drawing, wire insulating and cable jacketing processes.

Existing technology to be featured includes, Odac® laser scanning diameter gages; DVO 2 oscillating device for Odac® gauges; Odex® non-contact diameter and eccentricity system; Capac® for in-line dielectric testing and FFT/SRL analysis; Wallmaster in-line ultrasonic wall thickness and concentricity systems; Rayex® for

the cut end, and the output of the machine is two reels per minute.

At Interwire Windak will combine the AR18-DB reeler with the integrated palletizer GP5, payoff and accumulator,

diameter, wall thickness and concentricity for CV power cable applications; WST and AUTAC preheating and conductor temperature sensors; and Sparkmaster spark tester solutions.

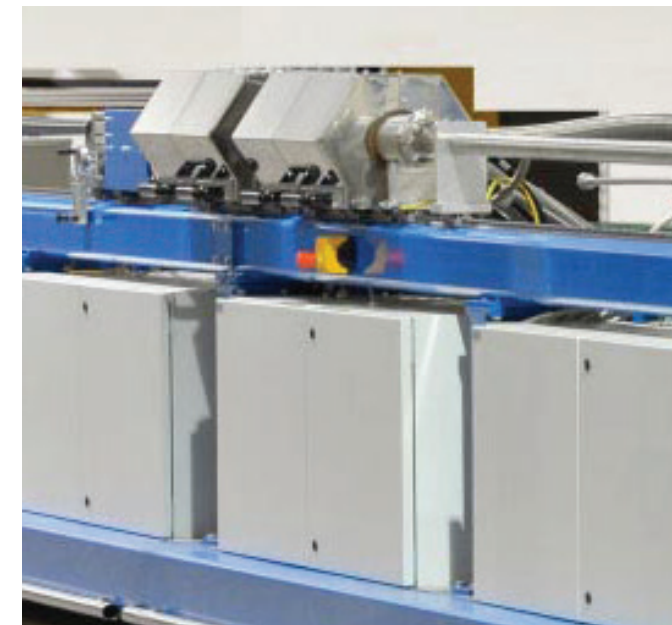
New developments to be introduced include the new modular USYS IPC line of processors and controllers; Steelmaster Rotation (SMR) for in-line hot and cold rod and bar mills; Simac® 63 for in-line surface faults and defects; KW 13TRIO for lump and neckdown detection for fine dimension applications; and Profilemaster® PMM 30 for in-line profile measurement of non-round products for fine dimensions.

Zumbach Electronic AG – Switzerland
Website: www.zumbach.com

PRODUCTS - MACHINES
& TECHNOLOGY

Plasma annealer

A new plasma annealer, designed for stainless steel and nickel alloy wire, tube and rope and with cross-sections from 20mm² and below, is available from Plasmat. This new unit is said to offer higher continuous annealing speeds for stainless steel and nickel alloys – over 15m per second for fine wire sizes. Annealing can be performed in-line with drawing or rolling, substituting multiple lines of a traditional tube furnace.



Efficient energy coupling in the plasma process allows for a compact design of the plasma chamber and results in high-energy conversion efficiency. Annealing power is controlled accurately and instantaneously via the power supply.

Rapid heating and reduced recrystallization time results in fine grain size with uniform crystal structure in the longitudinal and transversal

direction, improving the material's susceptibility to cold working and its resistance to surface cracking. Ion bombardment or ion sputtering on the material surface results in fine dry surface cleaning and surface oxide removal, of particular benefit to applications with demanding surface requirements in sectors such as medical, welding or aerospace.

Unlike the traditional tube furnace, the plasma annealer can cold start production in just a few minutes and can be stopped immediately. This avoids lengthy heating-up and cooling-down times and the associated energy costs of a conventional furnace.

The gas cooling section in the plasma annealer has a closed loop design to minimize purging gas consumption.

Emirates expands to 40mm

Emirates Steel, producer of high quality rebar, wire rod and heavy sections, has now enhanced its facility in the Industrial City of Abu Dhabi to manufacture 40mm reinforcing steel bars to meet growing demand in the region. Emirates Steel's range includes rebar and rebar in coil, wire rod, and hot rolled structural steel sections.

"We are happy to announce that we have added a new 40mm size to our existing range of 8mm to 32mm rebar," said Engineer Saeed G Al Romaihi, CEO of

Emirates Steel. "We want to make sure that we provide the market with its requirements of steel rebar in all sizes to cover the needs of our customers and to bridge the gap in the market," he added. Prior to this, all requirements for 40mm rebar were covered by imports, mainly from Turkey.

AMEinfo reports that statistics released by Emirates Steel show consumption of rebar in the UAE reached 160,000 metric tons per month during 2012. Of that, consumption of 40mm rebar, which is used mainly in constructing huge building towers, sizable manufacturing units and bridges, stood at around two percent. These figures are expected to remain unchanged in 2013.

Emirates Steel is certified to manufacture Grade B500B rebar and coil, in addition to Grade 460B.

Verifying category 8 copper cabling

In a step towards a 40GBASE-T system for data center applications, CommScope has tested and verified a possible solution for a viable 40GB ethernet channel by utilizing prototype category 8 RJ-45 connectors and copper twisted pair cables. The components for the concept were designed by engineers at CommScope.

The demonstration took place at the International Electrical and Electronics Engineers (IEEE) 802.3 NGBASE-T study group

meeting in Phoenix, where a technical contribution to the study group, "Category 8 structured cabling channel demonstration by CommScope" detailed the the concept.

"This contribution highlights CommScope's commitment and continued leadership to bring next generation copper cabling and connectivity solutions to market," said Richard Mei, director of transmission solutions, CommScope. "We believe this demonstrated solution shows the real market potential for customers to eventually take advantage of 40GB transmission rates over copper twisted-pair based media with cable and connector types they are familiar with today."

Active optical cable assemblies

Active optical cable (AOC) assemblies from 3M are expanding Amphenol's high-speed 10GB and 40GB product portfolio. This powerful new optical QSFP/QSFP+ cable series will be available online through Amphenol's Cables on Demand division.

Nick Blas, product marketing manager for Amphenol Cables on Demand, commented that active optical cables for CX4 and QSFP/QSFP+ applications are a logical evolution of Amphenol's popular copper range of high-speed cable assemblies: "There are upwards of half a million Amphenol brand passive copper

cables deployed worldwide for CX4 and QSFP/QSFP+ applications," he said, noting that despite the popularity and cost effectiveness of using copper-based interconnect systems, there are distinct design limitations that should be considered perhaps the most critical design limitation of copper interconnect technology being cable length.

Mr Blas emphasized: "Amphenol's passive copper CX4 cables, operating at 10 gigabits per second, are designed to operate at distances no longer than 15 meters in length. Passive copper QSFP/QSFP+ cables, operating at quadruple that data rate, are designed to operate at distances of 7 meters maximum. These lengths work for intra-rack cabling applications, but modern data centers often demand lengthy cable installations between racks or clusters."

New wire pre-feed unit

Artos Engineering Company has launched its Artos PF-10 pre-feed equipment for heavy-duty reel applications.



Designed as a companion to the Artos CS-327 and other large wire processing machines, the PF-10 heavy duty wire pre-feed unit handles reels with a diameter of up to 1.2m (48") and weights of up to 1,134kg (2,500lb) and features a shaft-driven system for precision unwinding and rewinding of wire.

The safety guard on the PF-10 lifts up for easy access, to simplify set-up and reel changeover. The touch of a button activates the motor to raise and lower the reels, and a two-pulley system minimizes wire threading to further shorten set-up time.

The PF-10 senses wire reel diameter and acceleration and automatically adjusts the feed rate, creating a consistent wire outflow of up to 2m per second to meet machine demand. A standard machine interface communicates system errors and emergency stops.

HD digital video cables

Belden Inc has extended its range of coaxial digital video cables and connectors with the introduction of HD digital video cables with improved electro-magnetic compatibility (EMC) performance. Duobond Plus cables are designed to deliver SD, HD and 3G video with guaranteed signal integrity over longer transmission distances, helping to save both installation time and costs.

The cables are said to offer the performance of standard Belden HD digital video cables but with improved EMC performance for greater confidence in the signal integrity when used at data rates of 3GB/s. An outer layer of foil features a unique shorting fold, which creates the effect of a solid metal conduit. The fold provides metal-to-metal contact, so improving the high frequency performance of the cable, and prevents a slot opening from being created in the shield, thereby preventing signal egress or ingress. The outer foil is bonded to the jacket, making stripping and connecting easier.

Cables for robots

Developed for mobile video conference and telepresence robot applications, Cicoil's ultra-flexible flat silicone cables are halogen free and flame retardant, and designed to perform in confined areas. Their design is said to offer premium current carrying capacity, reduced skewing effects, weight and space savings, tighter bend radius and consistent electrical performance.

Cicoil's proprietary extrusion process allows individual components to be placed in a flat cable, precisely controlling the spacing of the inner components, the insulation thickness and the overall cable shape. The silicone is self-healing from small punctures, and cable jacket

damage can easily be repaired in the field. In addition, the non-contaminating, silicone encapsulation will not delaminate or degrade with exposure to steam, water, alcohol, UV light, high heat (+260°C), humidity, mechanical stress, vibration, shock and many chemicals.



The lightweight cables can incorporate any variety of power conductors, shielded signal pairs for superior EMI/RFI suppression (Cat 5e, USB, FireWire) and coax conductors in a single, compact cable design. In addition to every type of electrical conductor, the cables can also include single and multi-lumen tubing, and other design elements, such as Cicoil's StripMount™ fastening strip, all in the same cable and so precisely controlling the inner component spacing, jacket thickness and overall cable shape.

Flightlink for aircraft systems

OFS has launched two new products in its FlightLink™ series of cables for use in commercial aircraft systems. In addition to the existing FlightLink 62.5, qualified to the



ARINC 802 standard, the new 50µm OM3 and bend-optimized single mode products are available for increased bandwidth options in system designs. FlightLink OM3 can support 100Gb ethernet up to 100 meters, a

length believed to exceed typical aircraft optical fiber interconnect lengths.

All FlightLink cables are qualified to 200°C and are designed with identical tight buffer construction to eliminate the kinking to which loose tube cables are prone.

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