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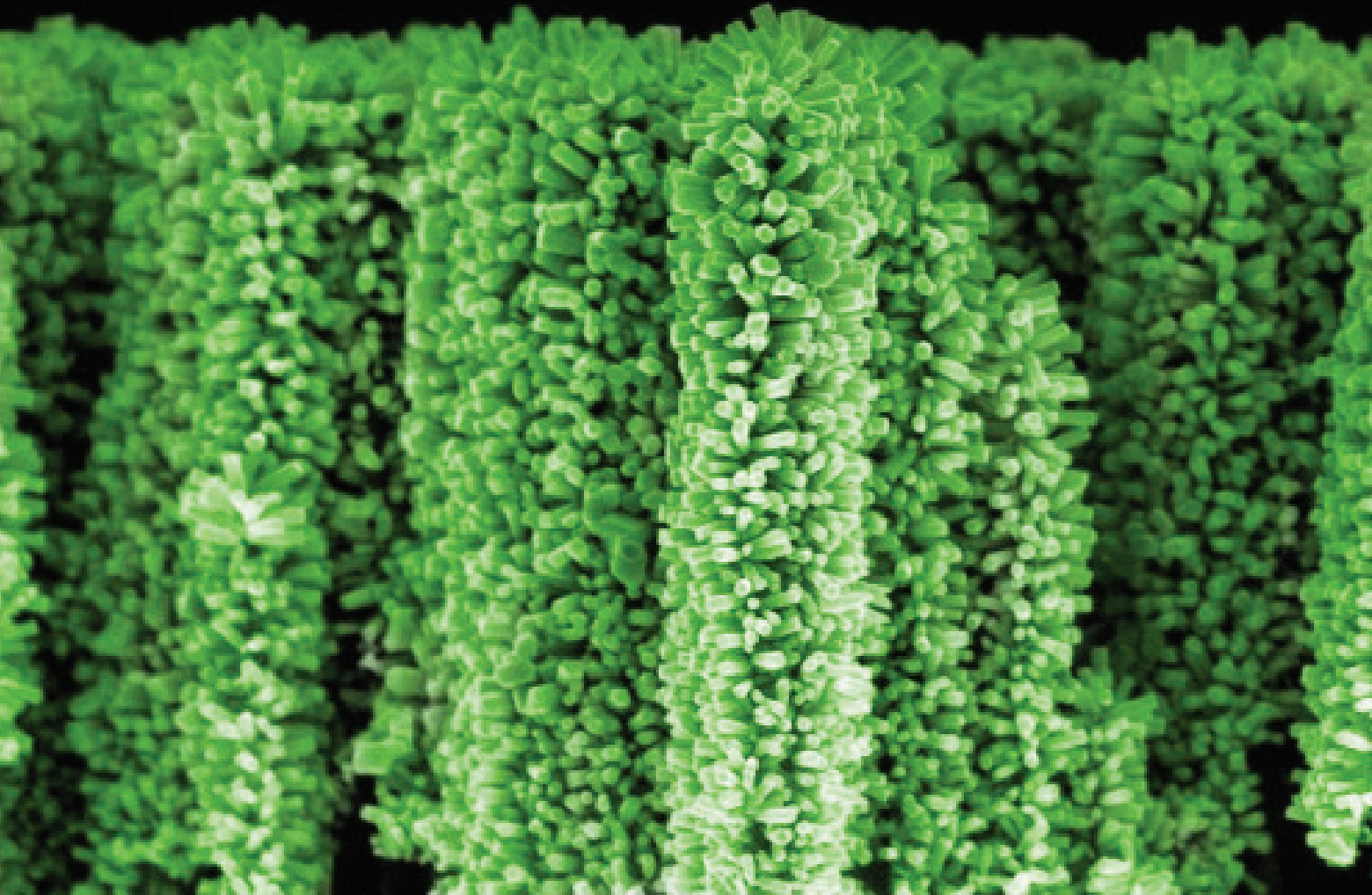
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May 2012 issue - No 11

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Research team's forest of nanowire trees



Acc.V Spot Magn Det WD
5.00 kV 2.0 20000x TLD 4.3

1 μ m
SIS XL TIF

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#11 EDITOR

WE'VE all heard of 'going green' but scientists are taking it to the limit at the University of California by creating a forest of nanowire trees to harvest solar energy (see page 9).

This is just the first of a number of 'green' stories in the May issue of wiredInUSA, which also features a look at this year's Wire Expo taking place later this month in Dallas, Texas. This can be found on page 48.

Also on the green side, Cenergy Power has completed a photovoltaic system for almond processor Hughson Nut at its processing facility in California (see page 11).

This issue is also tinged with sadness with news of the death of Edgar Danciger, founder of Florida Wire and Cable Co. The 94-year-old, who developed new processes for making stranded wire and cable, died after a battle with cancer. You can read the full story on page 14, where he is described by a longtime friend as 'amazing'.

Not wanting to end on a sad note, congratulations must go to Steve Maguire, president of Maguire Products, who has received the annual Business Management award from the Society of Plastics Engineers (see page 16).

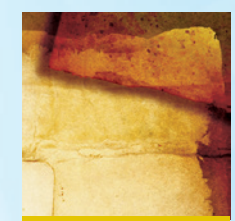
David Bell
Editor

Picture : Mike Gieson

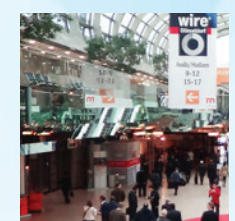
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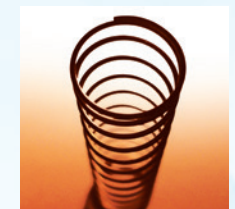
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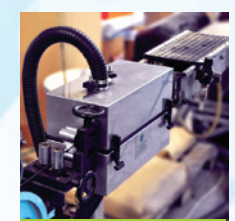
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Wire Expo
22nd - 23rd May 2012



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#11

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DIARY SHOW EVENTS

2012

MAY

9-10 May: **2012 National Electrical Wire Processing Technology Expo**
Milwaukee, Wisconsin, USA
Exhibition
www.expoproductionsinc.com/wire_home.htm

21-22 May: **AWPA Conference**
22-23 May: **Wire Expo**
Dallas, Texas, USA
Exhibition
www.wirenet.org

SEPTEMBER

10-12 Sept: **International Manufacturing Technology Show**
McCormick Place Convention Center,
Chicago, Illinois, USA
Exhibition
www.imts.com

OCTOBER

3-5 Oct: **Spring World 2012**
Chicago, Illinois, USA
Exhibition
www.wireworld.com/events/

2013

APRIL

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

MAY

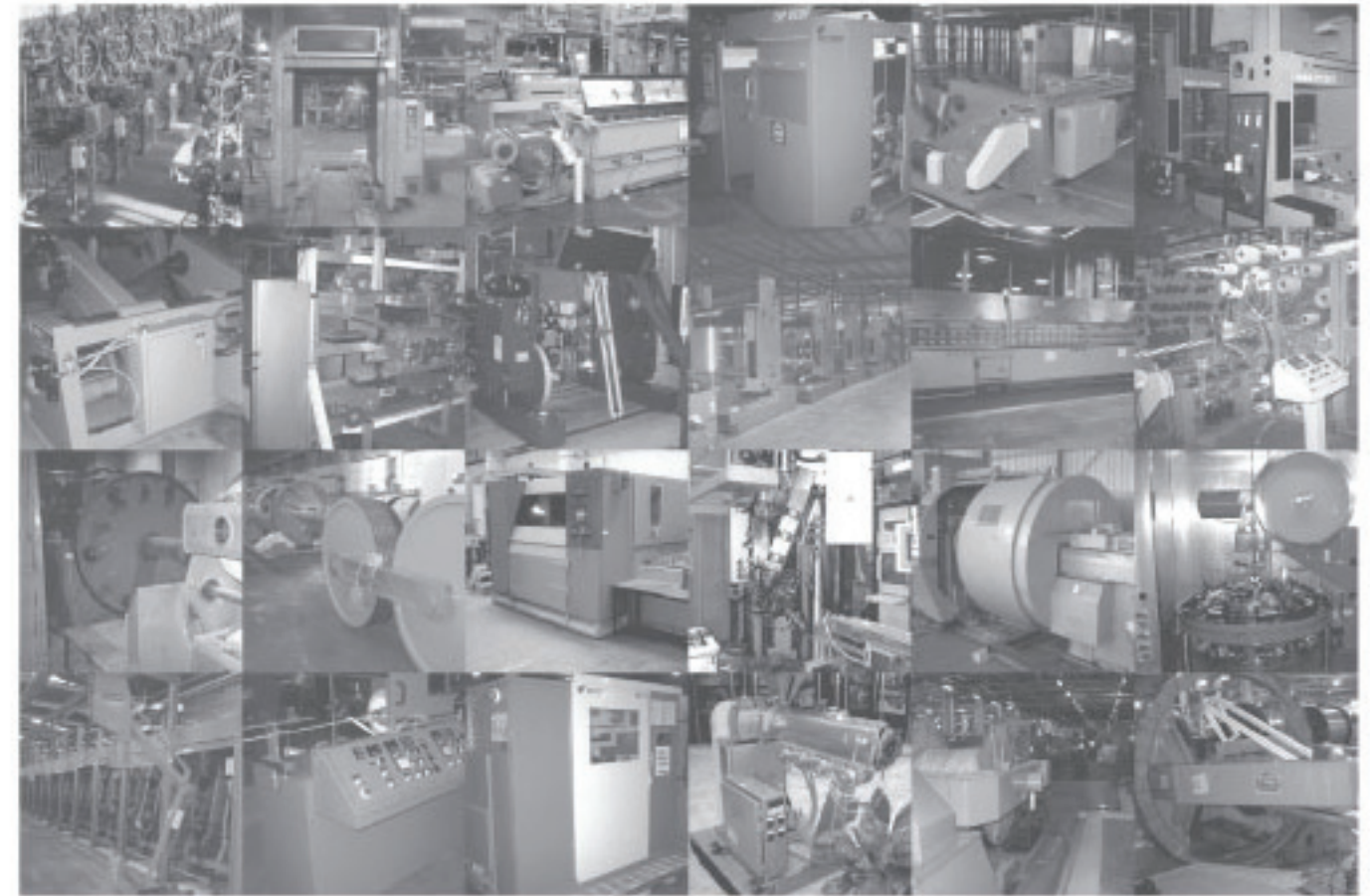
TBA: **wire Russia 2013**
Moscow, Russia
Exhibition
www.wire-russia.com

SEPTEMBER

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

OCTOBER

8-10 Oct: **wire South America**
São Paulo, Brazil
Exhibition
www.tubotech-online.de



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testing, plant relocations or even precision alignment, it will now be easier than ever to take advantage of everything Teknikor has to offer. Call Tim today at 859.760.8617.



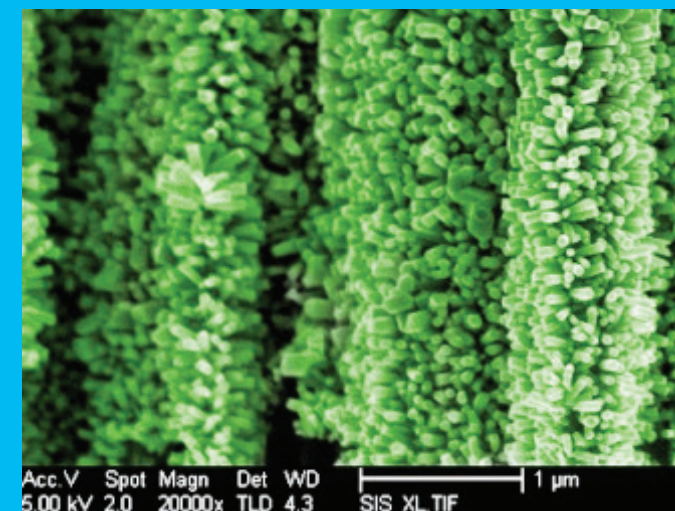
See us at booth #117

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MAKING THE NEWS

Nanowire captures more energy

A research team at the University of California, San Diego is creating a forest of nanowire trees to harvest solar energy for generating hydrogen fuel without utilizing fossil fuels.



Electronic microscopic image of a nanoforest, or 3D branched nanowire array

According to the team, nanowires made of commonly available materials such as zinc oxide and silicon can be used as a low-cost source for generating hydrogen fuel on a large scale. The study findings have been published in the journal, *Nanoscale*.

Deli Wang, one of the researchers, explained that light is grabbed and adsorbed by the vertical structure and branches of the nanowire trees, but is reflected by flat surfaces. The research team imitated this nanostructure in its 3D branched nanowire array, which utilizes a photoelectrochemical water-splitting process to generate hydrogen gas without any greenhouse gas by product.

The vertical nanotree structure also improves the output of hydrogen gas by rapidly extracting very tiny hydrogen gas bubbles, and the vertical branch structure increases the surface area at least 400,000 fold for chemical reactions.

The research team's next step is artificial photosynthesis. The team plans to imitate this process to harvest carbon dioxide from the surroundings in order to decrease carbon emissions and produce hydrogen fuel from it.



Warning: new project contains nuts

Cenergy Power, a unit of BAP Power Corp, has completed a 586kW solar photovoltaic (PV) system for almond processor Hughson Nut at its 50,000ft² processing facility in California, US.

The 586kW solar PV system is expected to produce over 970,000kWh of solar energy annually for the blanching, dry roasting and cutting lines that produce sliced, slivered, diced and milled almonds. The energy produced is said

to be equivalent to removing about 730 tons of CO₂ from the atmosphere. Cenergy Power will provide scheduled operations and maintenance for the system for ten years.

Hughson Nut principal, Martin Pohl, said, "Cenergy Power did a great job on an initial 504kW solar project for a related nut hulling business over a year ago, so we were very confident in their capabilities on this second solar project."



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General Cable CEO pay rise



Greg Kenny, CEO of General Cable, had his compensation package increased to \$5 million in 2011, up 31 percent from \$3.8 million in 2010, stated the company's recent proxy statement filed with the Securities and Exchange Commission.

Every component of Kenny's compensation increased except his bonus under General Cable's annual incentive plan, which fell 34 percent to \$568,400. He received a \$75,000 increase in base salary during the year "due to his strong global leadership during the economic recession and his continued pursuit of our company's short and long-term strategic objectives," the proxy stated.

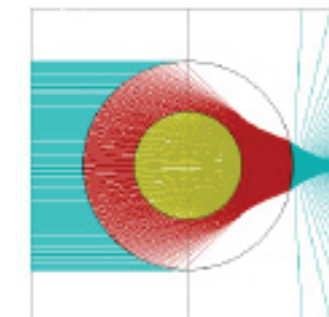
The bulk of Kenny's increased compensation came in the form of performance-based long-term equity awards of stock and options. Those awards in 2011 totaled \$3.4 million, up 69 percent from \$2 million in 2010.

Sales for General Cable, a manufacturer of cable and wire products, increased 21 percent in 2011 to \$5.9 billion. Net income also increased 21 percent to \$84 million. Earnings per share rose 20 percent to \$1.57, compared with \$1.31 in 2010, but the company's stock price declined 29 percent during 2011, from \$35.09 to \$25.01 at the end of the year.

OPTICAL FIBRES

Measurement Instruments

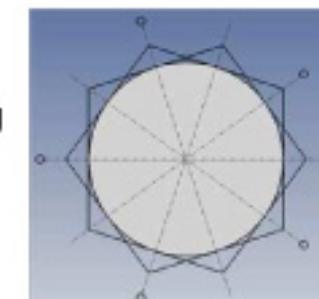
LIS-G: Laser Interferometric Sensor for Glass fibre
Diameter repeatability : $\pm 0.005\mu\text{m}$, 50kHz
Diameter uncertainty : $\pm 0.15\mu\text{m}$
Defect detection 75kHz, event recording
Ultra fine air line detection, $0,7\mu\text{m}$ 400Hz
Fibre position: $\pm 0.01\text{mm}$, 1 kHz
Spinning frequency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



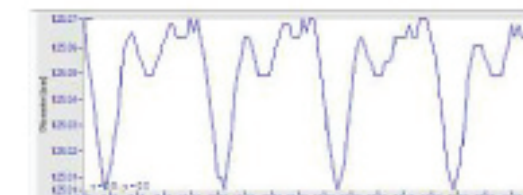
NCTM : Drawing force Birefringence principle
Non Contact Tension Measurement
0-400 grams $\pm 1\text{gram}$, 1 kHz
 $\pm 1\text{ gr}$ within 10-40°C ambient



CM5: Coating Monitor 5 axes
Diameter, lump & neck, defects detection, coating asymmetry
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Lump & Neck: $\pm 2\mu\text{m}$, 500kHz
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Edgar Danciger dies at 94

Edgar Danciger, founder of Jacksonville-based Florida Wire and Cable Co and who developed new processes for making stranded wire and cable, has died after a battle with cancer. He was 94.

From a modest beginning with only four employees, Florida Wire grew to 500 and commanded a sizable market share for its pre-stressed concrete strand. Landmarks such as the old Gulf Life Tower, the Dames Point bridge and the new Fuller Warren Bridge were built with products manufactured by Florida Wire. The company was sold in 1988.

Edgar Danciger legally entered the United States in 1941. He worked as a ship rigger during the day and studied mechanical engineering at night at Pratt Institute of Technology in Brooklyn.

In 1944 he enlisted in the US Army, serving as an intelligence specialist using his knowledge of German and Russian. After returning to civilian life in 1947 he worked for plants specializing in rigging, splicing and manufacturing of wire rope while continuing his studies at night.

Danciger's longtime friend, Lester Varn, described him as: "One of the most amazing people I've known. He was extraordinarily intelligent, a hard worker, an honest person, straightforward and imaginative enough to put something together."

General Cable acquires Brazilian manufacturer

General Cable Corp, a global manufacturer of copper, aluminum and fiber optic wire and cable products, has acquired Delphia Produtos Eletricos Ltda, a Brazilian manufacturer of automotive ignition wire harnesses.

"Over the past several years, through our expansion strategy and continuous improvement culture we have

enhanced our service capabilities in a wide range of transportation and industrial applications for original equipment manufacturers, suppliers and distributors," General Cable CEO Gregory Kenny said in a news release.

Delphia will continue to operate as Delphia under the umbrella of General Cable Automotiva Brasil.

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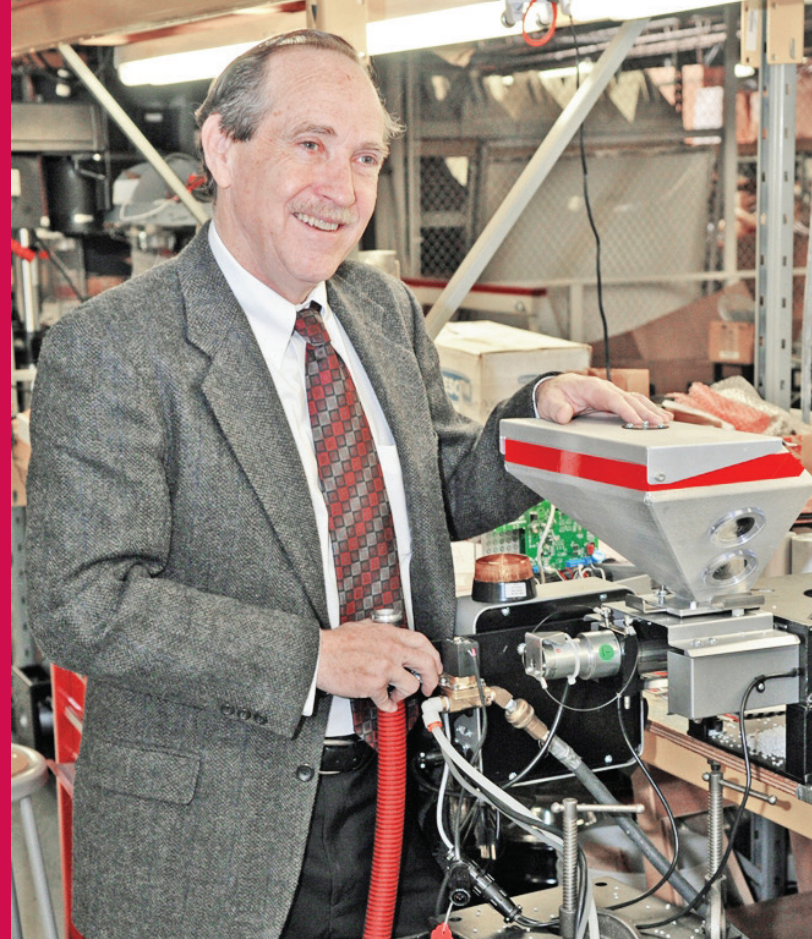
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Maguire president receives SPE award



The Society of Plastics Engineers (SPE) has presented its annual Business Management award to Steve Maguire, the president of Maguire Products, and a pioneer in the field of plastics auxiliary equipment systems.

"Steve built Maguire Products into a leading worldwide plastics auxiliary equipment company by supplying machinery of his own design that has transformed the way manufacturers manage raw materials and meter them into processing machines," said B Patrick (Pat) Smith, vice president of marketing and sales.

"He has succeeded because of his determination to make auxiliary equipment simpler, more reliable, and easier to operate, and he has achieved these goals by completely rethinking the design of this equipment, developing his own unique operating concepts, mechanical systems, controls, and software."

In Steve Maguire's business philosophy, product design is the most important consideration in that better products are the key to growth, but the human factor is critical. According to Maguire, "There has to be genuine respect for all those involved in our business—our employees, our suppliers, and of course our customers. All have mutually shared interests. It is easy to see that with everyone pulling in the same direction, it is hard to fail."

New officials for IFI

The Industrial Fasteners Institute (IFI) has elected Mr David Monti of Fall River Manufacturing Co Inc. as chairman of the Institute's board of directors, and Mr Steve Paddock of Böllhoff Inc as vice-chairman of the board for the current year.

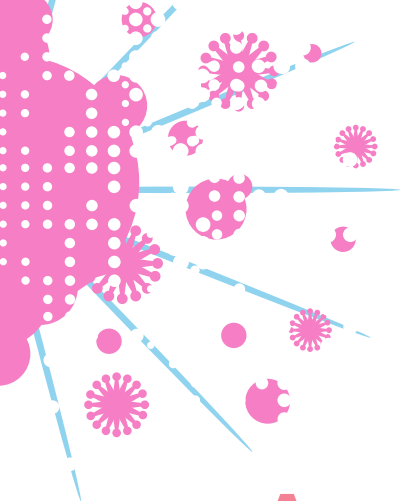
Mr Monti is vice-president and general manager of Fall River's plant. He has been a board member of the IFI for three years and recently served as associate chairman of the National Fastener Distribution Association (NFDA).

Mr Paddock is president of Böllhoff's operations in the USA and has served as chairman of IFI's Automotive division.

New Board members are JJ McCoy of Nucor Fastener and Nilo Urbani of Nylok for the Industrial Products division; Pat Wells of The Young Engineers for the Aerospace division and David Lomasney of MacLean-Fogg for the Automotive division.

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American Transmission proposal approved



The Illinois Commerce Commission (ICC) has approved American Transmission Co's (ATC) proposal to build a new \$31m transmission line project in the US.

The 345kV Pleasant Prairie-Zion Energy Center project will stretch 5.8 miles from the Pleasant Prairie Substation in Wisconsin to the Zion Energy Center Substation in Illinois.

ICC approved ATC's application for the Illinois portion of the line which includes a 1.8 mile preferred route and two alternatives. The preferred route begins

at the Illinois-Wisconsin border, travels south along the eastern portion of railroad right-of-way west of the Trumpet Park Subdivision, and ends at the northeast side of the Zion Energy Center Substation.

The company filed an application for the Wisconsin portion of the line to the Public Service Commission of Wisconsin in October 2011 and anticipates a decision next month.

Construction will begin later this year and the line is expected to be in service during 2013.

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The Wire Association International, Inc.

Solar cable on video

Allied Wire & Cable has added a solar cable video to its educational video series on YouTube.

www.youtube.com/user/awcwire

The two most popular types of solar cable are USE-2 and photovoltaic wire (PV wire); and PV wire did not appear in the National Electric Code (NEC) until 2008. Both cables are approved for use in outdoor photovoltaic arrays, but there are many differences between the two which determine which is more appropriate for a particular solar project. The new video explores variations in construction, features, ratings, and UL and NEC recommended usage.

Allied uses a combination of animation and on-site footage of solar cable applications to give a multi-dimensional view of both USE-2 wire and PV wire.

Though these types of solar wire are the focus of the video, it also covers some of the benefits of turning to solar energy, and provides a quick introduction to custom solar cable.

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FTTP expansion in Louisiana

NTS Inc has begun expansion of its fiber-to-the-premises network in southern Louisiana. The service provider plans to roll the FTTP network through the communities of Hammond, Ponchatoula, Natalbany, Tickfaw, Independence, and Amite, and pass approximately 11,500 potential FTTP subscribers.

A WiMAX overlay will be used to bring broadband services to towns in the St Helena, Washington, and Tangipahoa parishes, NTS adds.

The company has access to approximately \$36.1 million in broadband stimulus grants and loans to fund the FTTP footprint expansion.

"We are very excited to have construction underway on our fiber network in southern Louisiana," Guy Nissenson, chairman, president and CEO of NTS commented. "During the past year we have made excellent progress expanding the reach of our FTTP network to underserved communities in Texas and we are pleased to have the opportunity to bring our high speed broadband voice, video, and Internet offerings to similar markets in Louisiana."

NEVADA WIND FARM LAWSUIT SETTLED



Pattern Energy has settled a lawsuit with environmental groups that sought to block the 150MW Spring Valley wind farm in Nevada.

In 2011 a coalition of environmental and tribal groups, including the Center for Biological Diversity and Western Watersheds Project, filed a lawsuit against the project over its potential environmental and cultural impacts. The group claimed that the Bureau of Land Management had not adequately considered the wind farm's impact on a colony of rare bats living near the farm, or on sacred American Indian sites nearby.

Pattern Energy has announced that the lawsuit has been settled privately but it would not disclose the terms of the settlement. Pattern chief executive Mike Garland said: "We are starting to see that all renewable energy projects, no matter how well-planned, are being questioned. We are pleased to be able to reach agreement with the concerned parties. The settlement should give more confidence to these concerned parties and the community that the project is well designed."

Work on the Spring Valley is due to be completed in July this year and will be Nevada's first wind farm of any significant size.

Hubbell profit beats estimates



Electrical and electronics products maker Hubbell Inc has posted a better than anticipated quarterly profit for the eighth time in succession, and raised its 2012 sales growth forecast.

The Connecticut-based company, which makes lighting fixtures, wire and cable, insulators and measurement equipment, now expects sales to grow 6 percent to 8 percent in 2012, above its earlier outlook of 4 percent to 6 percent.

Hubbell said it expects its recently completed acquisitions - one in the first quarter and another in early April - to add about \$25 million in sales in 2012 to the electrical segment.

For the three months ended 31st March, net income attributable to Hubbell was \$63.2 million, or \$1.05 per share. Net sales were up 10 percent at \$723.8 million, compared with a figure of \$706.8 million expected by analysts. Sales at the electrical segment, which contributes about 70 percent to total revenue, rose to \$505.1 million from \$466.1 million.

Pattern Energy has announced that the lawsuit has been settled privately but it would not disclose the terms of the settlement. Pattern chief executive Mike Garland said: "We are starting to see that all renewable energy projects, no matter how well-planned, are being questioned. We are pleased to be able to reach agreement with the concerned parties. The settlement should give more confidence to these concerned parties and the community that the project is well designed."

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



EUROPE NEWS

Offshore cabling contract

Cable supplier Nexans has been awarded the contract to supply a total of 57km of high voltage subsea power export cables to Northwind NV in the North Sea. The project comprises 14km of cable to connect Belwind Phase 2 to the Northwind wind farm, together with a further 43km of cable to transfer a total of 381MW produced by both wind farms to the onshore grid connection at Zeebrugge.

In addition to the design, type testing and supply of the XLPE subsea cables, Nexans will also supply the onshore transition joints to connect the subsea cables to the land cables, the accessories for the two platforms, comprising hang-off and GIS (gas insulated switchgear) terminations, and four repair joints.

The Northwind wind farm will comprise 72 wind turbines, to deliver 216MW installed capacity to the Belgian electricity network.



The 14km section of 245kV cable connecting Belwind Phase 2 to Northwind will consist of three copper cores, each with a cross section of 400mm². The majority of the 43km, 245kV connection from Northwind to Zeebrugge will comprise of three 1,000mm² copper cores.

For a length of the cable route the cable will be buried 9 meters below the seabed for protection from dredging activity. To maintain the electrical performance of the cable along this channel, the copper cross section will be increased to 1,200mm² on a 4km section. This section of cable will have an outer diameter of 265mm and will weigh 130kg per meter.

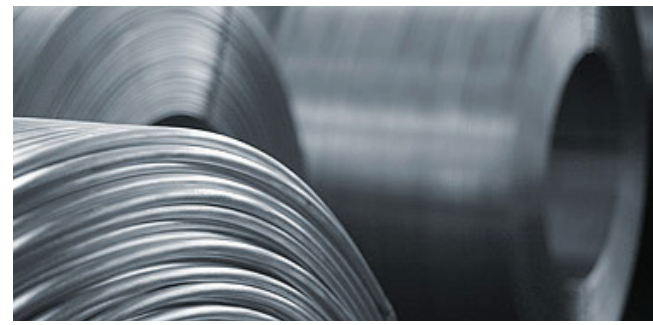


Power for Ireland

Irish state-owned electric power transmission operator EirGrid has unveiled its €500m Grid Link power line project, constructing a new power line linking Leinster and Munster in Ireland.

EirGrid has identified three sites and considers a line linking Knockraha in Cork, Great Island in County Wexford and Dunstown in County Kildare is best suited for the project.

The proposed project study area within which the planned 400kV alternating current (AC) grid link corridor will be located (Carlow, Cork, Dublin, Kildare, Kilkenny, Laois, Limerick, Tipperary, Waterford, Wexford and Wicklow) is now the subject of public consultation. The corridor is likely to be overhead, covering a length of 250km with pylons every 4km to provide a secure, long-term electricity supply across the south and east of the country. EirGrid states it has carried out a detailed analysis of the national transmission grid to identify the level of reinforcement required to ensure a secure electricity supply and identified a capacity shortfall in the south and east of the country.



Alro plans aluminum mill

Romanian aluminum producer Alro plans to add a new mill to increase capacity for aluminum wire production, despite an anticipated drop in the total aluminum production in 2012 due to a shortage in energy supply. Alro's wire production will increase by 17.8 percent, to 87,000 tonnes in 2012.

"Estimations for 2012 are based on the entry into production of a Properzi mill to increase wire production, given the higher demand from Europe and the US, as the wire is the most profitable product made by the primary aluminum division," according to a statement from the company.

Alro expects its aluminum production to fall by 4.4 percent this year, to 249,000 tonnes. This will be mainly triggered by the lack of energy, as its main supplier Hidroelectrica reduced energy deliveries in October last year due to drought. To compensate for the lack of energy, Alro plans to introduce 7,000 tonnes of aluminum waste into the production cycle in 2012, increasing to 60,000 tonnes of waste a year by 2016.



Volcanic energy in the UK?

UK energy minister Charles Hendry has revealed that the UK is in negotiations with the Icelandic government to purchase geothermal energy, and is developing plans to connect Iceland and the UK via a high voltage cable. "We are in active discussions with the Icelandic government and they are very keen," said Hendry to The Guardian newspaper.

Plans are already underway to connect continental Europe's grid with the UK and North Africa. Interconnection allows low-carbon energy, such as solar from the Mediterranean and offshore wind from the North Atlantic, to be used across Europe, overcoming the weather-related intermittenencies to which some renewable technologies are prone.

EU countries are committed to sourcing 20 percent of their energy from renewable sources by 2020. Iceland, which is positioned over a gap between two of the earth's plates, has derived all its electricity from geothermal sources since 1970.



New distributor for PWM

Pressure Welding Machines has announced the appointment of Joe Snee Associates as its exclusive distributor for the United States and Canada.

Steve Mepsted, managing and sales director of PWM said: "Joe Snee has been working in the North American wire and cable industry for over 15 years, during which time he has acquired a wealth of specialist knowledge about cold welding technology and its applications. His specialist product expertise and understanding of manufacturers' requirements will ensure we continue to provide all our customers with the very best advice, support and service, and help us grow our market share within the US and Canada."

Joe Snee, president of Joe Snee Associates, said: "I have been associated with the PWM line for the past twelve years and I have found that their product and service are second to none. I look forward to working with Steve and the PWM team, and the opportunity to serve the industry."



Ipsen's quench furnace

Ipsen, a company specialized in heat treatment of steel, has recently supplied its ATLAS quench furnace to Dokka Fasteners, a Norwegian manufacturer of heavy-duty fasteners.

The furnace will be installed at Dokka's new heat treatment plant in Auburn Hills, Michigan. Dokka will utilize the quench furnace to manufacture hot-formed steel fasteners for applications in the wind turbine industry.

Ipsen's ATLAS technology focuses mainly on a customized heat treatment process to produce steel parts with the material characteristics required for the application. The fasteners depend on the technology of high-tension bolt assemblies, which are produced using high performance, heat-treated steel alloys.

These alloys provide fasteners with the capability to resist high loads of turbine operation and to remain unaffected by frost, storms and salt water during the estimated 160,000 thousand hours of wind turbine operation for 17 billion load cycles and over 20 years.

Dokka's Auburn Hills-based heat treatment facility includes sealed quench furnaces for hardening of steel, tempering furnaces, handling tools for component loads and cleaning systems. Ipsen's AutoMag 4.0 automation software is used for automatic operation of the furnaces.



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Troy Cable's connectivity project nears completion

Troy Cable received a grant totaling \$26,068,284 in 2010 to assist in the \$34 million Southeast Alabama SmartBand Project to deploy a fiber optic Middle Mile network across 595 miles in the region.

Troy Cable special projects director, Jimmy Copeland, said more than 380 miles (over 60 percent) of the project is complete. The Dothan Eagle reports that officials expect the entire project to be complete by the summer of 2013.

"Getting 500 miles of fiber run in rural Alabama has been a significant undertaking, but as time goes we believe we can take what we're building and move beyond the initial project," Mr Copeland said.

"Power companies and cooperatives have been extremely helpful to us and understand the significance and need of such a project in the rural setting we have in southeast Alabama."

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There's never been a better time to join the International Wire and Machinery Association and explore opportunities in the Far East.

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For further details contact the IWMA now by fax on +44 1926 314755 or email info@iwma.org

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|---|--|

wire China

Dragon Exhibitor Package

The IWMA is offering members a superb package deal for this year's wire China on 25th-28th September at the Shanghai New International Expo Centre.

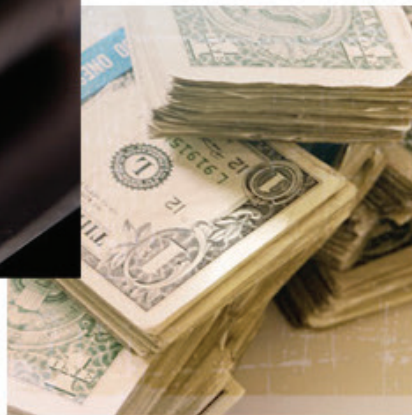
The '**Dragon exhibitor package**' is a 12m² (130ff²) fitted and carpeted stand at a cost of €4,300, complete with:

- Three leather chairs
- Lockable counter
- Square table
- Waste basket
- Three spotlights
- 1 x 220v power socket
- Fascia with company name (max 20 English/12 Chinese letters)
- Daily stand cleaning
- Prime location in IWMA area
- Meet and greet service at Pudong Airport for a maximum of four people to SNIEC area hotels
- Interpreter/Hostess (English/Mandarin)
- Overnight security for items left on IWMA stand
- Free Internet, hospitality, beverages, and additional interpreter service at IWMA stand
- Continuous assistance with preparation and advice via IWMA office
- Free visa invitation letters for anyone booking hotel rooms via Pacific World Shanghai (IWMA official travel agents)

OPTIONAL EXTRAS:

- Very special room rates at the Eton Hotel, convenient for SNIEC via Pacific World Shanghai
- Additional fittings, extra interpreters, meet and greet service to Shanghai city center hotels
- Other stand sizes: 15m² €5,250 - 18m² €6,300 - 24m² €8,150

The Dragon exhibitor package is offered at cost to members, subject to availability, without a management fee. Non-members fee €195 (Includes one year's free membership of IWMA).



Anti-dumping duties imposed

The US International Trade Commission has approved anti-dumping duties on steel nails from the UAE, Reuters has reported.

The decision on the steel nails is a victory for Mid Continent Nail Corp, a Missouri-based firm that said it is the largest supplier of fasteners to the wooden pallet and crating industry in the US.

The US imported about \$120m worth of nails from the UAE in 2011, up from \$50.1m two years earlier.

New at Daikin

Daikin America Inc has announced the appointment of Jim McAlaney as executive vice-president of sales and marketing. Jim's background includes over 30 years of chemical industry experience in various senior management roles, including a four year assignment in France, where Jim was responsible for Arkema's Global Polyamide business. Jim is married with four children and will be relocating to Orangeburg. He has a bachelor's degree in chemical engineering.

Daikin America Inc is among the largest fluoropolymer producers in America, and a wholly owned subsidiary of Daikin Industries Ltd of Osaka, Japan.

New company for distribution

Joe Snee has announced the formation of Joe Snee Associates, Inc of Seekonk, Massachusetts.

The company will serve as the exclusive North American distributor for the Pressure Welding Machine (PWM) line of cold pressure welders, dies and spares.

In use throughout the world the PWM line offers a variety of models to handle a range of sizes from fine wire as small as 40AWG (0.0031") to 1.181" diameter rod.

Snee has nearly 20 years, experience in the wire and cable industry and has sold cold welding products since 1992. He has been affiliated with PWM in various capacities since October 2000.

Wyrepak joins Huestis

Huestis Industrial has purchased Wyrepak Industries in a cooperative agreement. The acquisition will provide customers with a wider choice of equipment for the wire and cable industry, while benefiting from technology and support from Huestis Industrial.

Wyrepak Industries has a strong reputation and is an established supplier of high quality machines for the wire and cable industry.

Howard Fancher, of Huestis Industrial, said, "I have the greatest confidence that the Wyrepak brand will continue to grow and complement the Huestis Industrial product lines of pay-offs, take-ups, jacket strippers, and of course, air wipers, while giving the customer more choice."

Allied adds more reps

Allied Wire & Cable welcomes five new sales representatives to the company.

Kyle Bechter will join Allied's headquarters in Collegeville, PA with Buck Nicolai and Ruthann Simpson. Don Houck is the newest addition to the Las Vegas branch, with over 17 years of experience in the voice, data, and security market; and in New Hampshire, recent graduate Bill Stecchi joins the team.

US smart grid project

Burlington Electric Department (BED) in Vermont, US has selected Itron's management solution for a smart grid project to include 20,000 Itron smart meters and network communication infrastructure. The project, which is scheduled to be completed in early 2013, is funded through an American Recovery and Reinvestment smart grid investment grant.

Itron's smart grid solution will help BED streamline its meter data collection and billing operations, provide more granular system load data and enhance energy forecasting.

Picture: Alessandro Paiva

ASIA & AFRICA NEWS



New subsea cable for west Africa

The 14,000km West African Cable System (WACS), the first new subsea telecommunication cable on Africa's west coast since Sat-3 was launched 11 years ago, will be launched officially in May 2012.

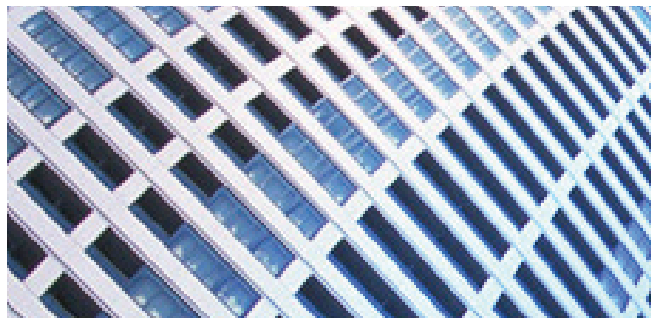
Angus Hay, co-chair of the WACS management committee and chief technology officer at Neotel, says testing of WACS has progressed well and that the system is "essentially ready" for commercial service.

An official launch function will take place at Yzerfontein, the site of the cable's South African landing north of Cape Town. Commercial traffic should begin flowing across the system at the same time or

shortly thereafter, promising to put further downward pressure on broadband prices in South Africa.

The cable, which has a design capacity of 5,1Tbit/s and has cost \$600m to build, will probably have in the region of 400Gbit/s of capacity when it becomes available for commercial service — more than the total design capacity of the older Sat-3 cable at 340Gbit/s.

Hay says the WACS management committee is in the process of "accepting" the cable from the supplier, Alcatel-Lucent Submarine Networks. This entails signing off the final contractual agreements. "Final testing is now taking place," he added.



Nippon Steel agrees licensing deal

Nippon Steel Materials Co (a company in the Nippon Steel Group) and subsidiary Nippon Micrometal Corp have signed a patent licensing agreement with Heraeus Materials Technology GmbH & Co KG for a palladium-coated copper bonding wire to be used for LSI packaging. Heraeus Materials Technology is a bonding wire manufacturer in Germany.

The new copper bonding wire, EX1, features greatly reduced precious metals and results in lower packaging costs. The patent, which has been licensed, was invented by Nippon Steel Corp and developed to production level by Nippon Micrometal.

EX1 is believed to be the world's first copper bonding wire in practical use, such as for ultra-high-density LSI packaging. The product has overcome longstanding problems of copper bonding wire in regard to connectability and reliability through its coating structure.

EX1 costs a fraction of the price of gold wire and received the Ichimura Industrial prize in March for having the same performance as gold bonding wire at a much lower cost.



Abu Dhabi's GHC plans investment

Reuters reported on 21st April that the Abu Dhabi government-owned General Holding Corporation (GHC) plans to invest 5.8 billion dirhams (\$1.58 billion) in three industries to boost manufacturing as the oil-rich emirate tries to diversify its economy.

The plans include 3 billion dirhams to expand capacity at Emirates Steel, 800 million dirhams in downstream aluminum extrusion and 2 billion dirhams in manufacturing seamless pipes for the oil and gas industry.

GHC, which has industrial assets totaling 23.7 billion dirhams, has interests in sectors including steel, oil and gas fabrication, cables, food and building materials. It is considering new industries such as aluminum and copper. "Our strategy is to help speed industrial growth in Abu Dhabi, which is targeting a 25 percent contribution from industry to the emirate's GDP by 2030. Today, it is below 15 per cent," Hussain al Nowais told press.



Sewedy announces profit drop

Australia's largest solar photovoltaic (PV) power project reached a major construction milestone recently as contractor and technology provider, First Solar Inc, joined owners Verve Energy and GE unit GE Energy Financial Services to mark the commencement of panel installation at the Greenough River Solar Farm. Western Australia energy minister Peter Collier, landholders, members of the Geraldton community and local contractors were present to help celebrate.

"The demonstration of this proven technology in WA on a commercial scale should encourage the development of larger projects and reduce renewable energy costs in the medium to long term," said the minister. Construction of the 10MW solar farm, 50km south of Geraldton, began four months ago. With above-ground electrical work completed and structural supports now installed, the next phase of construction will see local workers install approximately 150,000 First Solar PV modules. The project is scheduled for completion in mid-2012.



Fujikura acquires Nistica

Fujikura, a Japanese wire and cable manufacturer, has acquired Nistica in a move to expand its presence in the growing optical equipment market segment.

The acquisition will complement its portfolio of optical fibers, cables and optical devices. Among the products that Nistica offers are its Full Fledge series of wavelength selective switches (WSS) and its newly launched high port-count Fourier modules.

Fujikura has invested in Nistica since 2007. As part of the purchase agreement, Fujikura will acquire the remaining shares in Nistica and the company will become a Fujikura subsidiary. NTT Electronics will maintain its share in the company.

PRODUCTS - MACHINES
& TECHNOLOGY

Fasteners for lightweight construction

Alufast® aluminum screws from Arnold Umformtechnik are designed for joining lightweight magnesium components, and where material pairs are exposed to thermal stress, they are said to significantly improve the security of threaded fastener joints. The aluminum screws weigh only a third of the equivalent steel screws. Particularly with large volumes the weight savings can amount to the equivalent of several metric tons of steel per year.



The type 6056 aluminum alloy used for Alufast fasteners has a proven track record of durability for joining magnesium components with threaded fasteners.

The Alufast product line has good characteristics for thermal expansion, corrosion resistance and recycling, while fulfilling stringent requirements for retention of clamping force, thermal stability and weight reduction. Alufast®

products are especially suitable for joining magnesium components exposed to thermal stress and corrosion stress.

Unlike steel screws, which require over-dimension head bearing areas when joining magnesium components, standard dimensions are sufficient with the Alufast fasteners.

Improved compounder

Compounding and extrusion specialist Coperion, of Germany, has made several improvements to its STS compounder series. The STS 96 advanced compounder with 96 mm diameter twin screws is equipped with a new STS die head and a twin screw side feeder. This machine configuration is ideal for the compounding of engineering or biodegradable polymers and cable compounds. Typical applications for the STS 35 advanced are the development of products and processes in the laboratory and the production of a wide diversity of polymer compounds in small batches, such as color masterbatches.

The STS advanced compounders cover all standard applications in the compounding of plastics. The modular design of the screw barrels and the screw elements permit process lengths of 24 to 68 D. Featuring five different machine sizes, the STS advanced series makes production throughputs of up to 3,800kg/hour possible, depending on the actual compounding application.

The new STS die head features an improved heating system and optimized flow geometry. Heater cartridges running transversely through the die head ensure a uniform temperature across its entire width and the rate of melt flow is uniform across the entire die head, thus ensuring that the individual strands discharge from the die head at the same rate.



The process section of the STS advanced will offer a powder metal composite for the screw elements, while the screw barrel can be provided with oval liners in hard cast chromium steel for improved wear and corrosion resistance.

Prysmian targets data centers

Prysmian Group has unveiled a new line of bend-insensitive multimode fiber-optic cable under the Draka brand. The UC-Future multimode cables are designed to exceed

modern data center space and bandwidth growth requirements while providing the handling ability of copper. The Draka UC-Future bend-insensitive cables come with either OM3 or OM4 multimode fiber using Draka's BendBright technology. The family includes four cables, in counts up to 144 tightly buffered fibers within a 9mm cable diameter. Prysmian believes the cables are particularly well suited for use as distribution cables inside data centers as well as for the central exchanges of telecommunication systems.

Prysmian says that, alongside the continued evolution of OM4 multimode fiber standards, bend-insensitive fiber has inspired new, reduced-size cable designs that are lighter in weight, improve cooling efficiency, and offer reduced environmental footprints.

The resulting compact cable cabinets reduce cost of ownership, while smaller diameter, flexible cables enable increased cabling density. Draka introduced the first versions of BendBright in 2002, in singlemode.

The company unveiled its MaxCap-BendBright-OM3/4 multimode bend-insensitive fiber in 2009. Prysmian says the demand for bend-sensitive fiber and cable is intense, with singlemode bend-insensitive cable production alone exceeding 3 million kilometers.

Wire stripper

Schleuniger's RotaryStrip 2400 is a programmable single step rotary wire stripper. Wire sizes between 36 AWG and 10 AWG (0.013 to 6mm²) can be processed without requiring blade changes or other mechanical adjustments. The RotaryStrip 2400 can strip wires with various insulation types including Kapton, Fiberglass and Teflon. The RotaryStrip 2400 can also strip and twist the inner strands of wires 14 AWG (2.5mm²) and smaller. Stripping of jacketed cables with an outside diameter of up to 0.275" (7mm) is also possible.

An integrated library of standard wire sizes and an intuitive menu-guided touchscreen user interface make the RotaryStrip 2400 very user-friendly. All parameters (strip length, strip diameter, pull-off length, rotary speed, gripper pressure, twisting direction) are fully programmable and can be stored or recalled in seconds. Excellent ergonomics, including focused LED lighting, provide a high level of operator comfort.

Carbon neutral cable

Brand-Rex has announced that its GigaPlus category 5e and Cat6Plus category 6 boxed cable ranges are now completely carbon neutral.

This move forms part of its PAS 2050 certifications, which provide methods for assessing the lifecycle greenhouse gas

(GHG) emissions of its products and sets out a defined strategy for reducing them year on year. The company began this process over two years ago and has calculated the carbon emissions created in the development and manufacture of these two products.

"Getting to a point where we can describe GigaPlus and Cat6Plus as carbon neutral has been a complex but highly worthwhile exercise," said Kennedy Miller, development manager at Brand-Rex. "By establishing the emissions we create – from the sourcing of the base materials, through to transportation and manufacture, and finally to delivery to the customer – we can ensure that we offset this with projects that support and develop renewable energy sources."



Cable case study

C&M Corporation, a vertically integrated manufacturer of bulk cable, coil cords, and cable assemblies, has announced the release of a new case study entitled, "Cable management solutions for micro-inverters".

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Written in conjunction with a leading designer and manufacturer of utility grade micro-inverter solutions for the OEM photovoltaic solar market, the paper focuses on the use of C&M's Helios Spine Cable™ as part of a solar installation. Qualified by ETL to UL standards 817 and 9703, the Helios Spine cable is a "Plug and Play" interconnect solution designed to reduce material cost, installation time, and labor associated with residential and commercial installations. Wiring diagrams that outline several connection methods as well a discussion of the features and benefits of the system are also included as part of the document.

The new white paper is available for download from the C&M website.

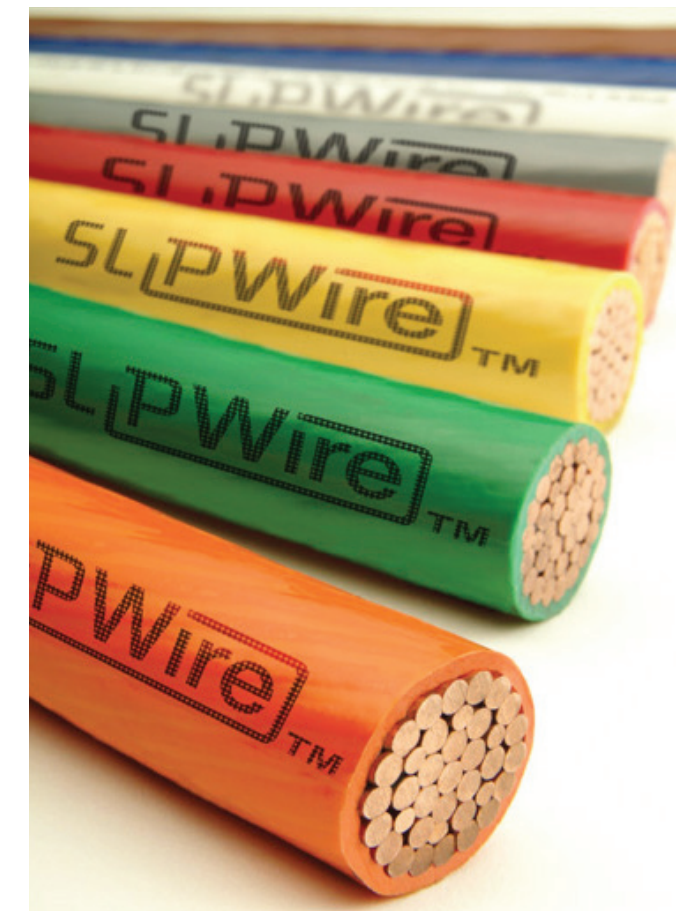
Cerro gives installers the slip

Wire and cable manufacturer, Cerro Wire, offers SLiPWire®, a thermoplastic high heat-resistant nylon-coated (THHN) cable, jacketed with a self-lubricating polymer for an improved, lower co-efficient of friction.

SLiPWire is designed to reduce the time, labor and cost for installation, eliminating the materials and labor needed for lubricating the wire.

SLiPWire also uses Cerro Wire's True Sequential Footage™ technology, a sequentially printed cable reel that provides accurate wire length with each cut. True Sequential Footage avoids the need to carry

excess cable inventory, providing precision length, accurate footage, and cost control. It also uses Cerro Wire's Max Print® identification system to quickly identify the size of the cable.



Fantastic plastic

Chromis Fiberoptics, producer of the first commercial gigabit plastic optical fiber, has announced the commercial availability of the world's first low-cost HDMI active optical cable (AOC) produced with plastic optical fiber. "This new solution takes AOCs from being a very expensive, super-premium HDMI solution to being a very affordable one," said Whitney White, the CEO of Chromis

Fiberoptics. "Our HDMI AOC offers the same high performance as glass fiber at a price point that enables wider usage including connections for digital signage, and also in class rooms, conference rooms, home theaters and videophile installations."

Chromis' HDMI AOC is said to offer all the benefits of active optical cables for HDMI 1.3 high speed functionality, but without the high cost of glass fiber active cables. It uses both high-speed plastic optical fiber and copper wires to deliver 10.2Gb per second video bandwidth as well as all HDMI features. The cable is much smaller and lighter than comparable copper HDMI cables or extenders.

Wire stripper

Designed for production, Eraser's Model C200 twin blade rotary wire stripper and twister is designed to remove insulations such as Teflon, PTFE, PVC, nylon, rubber, KEL-F and more from solid and stranded wires, and can twist stranded wire as it removes the material. Depending on the material, the unit can produce strip lengths up to 2.5". Belt reversal allows the unit to be operated in either a clockwise or counterclockwise rotation.

The stripping head incorporates a pair of accurately adjustable tungsten carbide stripping blades that remain on center to provide fast, clean and efficient stripping.

SIMpull solution

The introduction of the Southwire SIMpull Wirebarrel™ circuit management system is said to offer electrical contractors an advancement in the installation of branch circuit wiring. The system includes NoLube® SIMpull® THHN, made available for the first time in circuit-sized conductors, a new Maxis BarrelTRUCK™ hand truck, and a Maxis BarrelTAP™ wire-guide. This combination of products and tools is designed to improve home run circuit installations through the entire process.



Southwire's SIMpull Wirebarrel system essentially replaces the wire cart and multiple reels, thus removing the difficulties associated with maneuvering the cart and repeatedly handling heavy reels. The Maxis BarrelTRUCK and BarrelTAP pay-off device are both equipped with a universal wire-guide feature. This feature allows for a smooth and consistent means of guiding the paralleled conductors out of the Wirebarrel package, thus requiring very little effort by the installer.

Sylvin expands into rigid PVC

Sylvin Technologies Inc has commissioned a twin screw compounding line to enable the company to develop a new line of rigid PVC compounds for profile extrusion and injection molding processors.

Six standard rigid PVC compounds are now available. RP 3201 has been developed for general purpose profile extrusion applications and RP 3300 for general purpose injection molding. RP 3107 clear 8414 is ideal for point of purchase (POP) price tag displays and other clear extruded articles.

RP 3403 White 1518 is a profile extrusion grade suited for applications that require excellent color retention outdoors such as window profiles and sporting equipment parts.

RP 3504 White is an outdoor injection molding grade for fence caps, pool fittings, and other articles used outside. Lastly, RP 3301 is suitable for intricate injection molding



applications that require very high material flow characteristics.

Sylvin Technologies, Inc manufactures a diverse line of vinyl compounds for the wire and cable market.

Make sure your new machine or product receives all the publicity it can get!

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

To make sure your editorial is published in the June edition – send us the details by **24th May** to ensure its publication.

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

WAI OPERATIONS SUMMIT WIRE EXPO 2012

~ a wire & cable industry solution center ~

WIRE EXPO

MAY 22-23, 2012

Overview

The Wire Association International (WAI), Inc. will hold its WAI Operations Summit and Wire Expo **May 22-23, 2012**, at the **Omni Dallas Hotel, Dallas, Texas, USA**. The new program format will feature a plant operations focus, with local hosts Encore Wire Corp and Gerdau Corp providing facility tours. The Wire Expo exhibition is expected to include participation from **more than 250 companies** displaying wire and cable making solutions and supplies.

Event Background

Wire Expo is organized by WAI and is held biennially in a different industry hub within the US for the wire and cable manufacturing industry. The event incorporates technical paper presentations, a comprehensive exhibit, on-floor production solutions demonstrations, networking activities and more. Wire Expo originated in Boston in 1990 and has since been hosted in the following locations: Louisville, Kentucky; Detroit, Michigan; Charlotte, North Carolina; Cleveland, Ohio; Nashville, Tennessee; Chicago, Illinois; Pittsburgh, Pennsylvania; and Milwaukee, Wisconsin.



Download the floor plan [here](#)

Aphabetical list of exhibitors

(Exhibitors list correct at time of going live)
www.wirenet.org/events/wireexpo



Booth	Exhibitor Name
111	Ace Metal Inc
400	AIM Inc
506	Amacoil Inc
803	Amaral Automation Associates
806	Anbao Wire & Mesh Co Ltd
204	AXIS Computer Systems Inc
101	Aztech Lubricants LLC
715	B & H Tool Co Inc
814	Balloffet Die Corp
607	Bartell Machinery Systems LLC
411	Beta LaserMike
408	Brookfield Wire Co
808	B & Z Galvanized Wire Ind
609	Carris Reels Inc
710	Cemanco LC
116	Central Wire Industries LTD
200	Clinton Instrument Co
215	Commission Brokers Inc
616	Condat
406	Conneaut Industries Inc
416	Cortinovis Machinery America, Inc
703	Davis-Standard
615	Die Quip Corp
621	Electron Beam Technologies Inc
702	Engineered Machinery Group Inc
106	ERA Wire Inc
603	Esteves Group USA
416	Eurolls Group / Eurolls SpA
112	George Evans Corp
320	Evolution Products
707	Fabritex Inc
514	Filtertech Inc
118	Fine International Corp
107	Flymca & Flyro
114	FMS USA Inc
102	Foerster Instruments Inc
523	Forming Systems Inc
402	Fort Wayne Wire Die Inc
122	Frontier Composites & Castings Inc
211	Gauder Group Inc
401	Gem Gravure Co Inc
311	Genca / Canterbury Engineering
318	W Gillies Technologies LLC
323	Going Well Precision Industry Co Ltd
314	Guill Tool & Engineering Co
614	Heany Industries Inc
305	Heatbath Corp
811	Heritage Wire Die Inc
202	Houghton International

Booth	Exhibitor Name
418	Howar Equipment
817	IAT International Inc
813	IDEAL Welding Systems
421	iIM AG measurement + engineering
423	Intras Limited
819	Joe Tools Inc
606	Keir Manufacturing Inc
720	King Steel
119	Kyocera Industrial Ceramics
219	Lamnea Bruk AB
209	LaserLinc Inc
507	Leggett & Platt Wire Group
206	Leoni Wire Inc
516	Lesmo Machinery America Inc
214	Lloyd & Bouvier Inc
208	Magnetic Technologies Ltd
810	Mathiasen Machinery Inc
521	Maxcess / Magpowr
303	MGS Manufacturing Inc
714	Micro Products Co
803	Morgan-Koch Corp
815	Mossberg Associates Inc
409	Niagara Composites Industries Inc
511	Niehoff Endex North America Inc
620	Numalliance
717	Oklahoma Steel & Wire
522	P&R Specialty Inc
721	Paramount Die Co
308	Parkway-Kew Corp
704	Phifer Wire Inc
420	Pittsfield Plastics Eng Inc
718	Polyfab Plastics & Supply Inc
109	Polytec Inc
517	Power Sonics LLC
222	PPI Wire & Cable LLC
110	Precision Die Technologies Inc
619	Premier Wire Die
417	PrintSafe
410	Properzi International Inc
403	Queins Machines GmbH
103	Radyne Corp
807	Rainbow Rubber & Plastics
307	Reel-O-Matic Inc
319	Refractron Technologies Corp
115	RichardsApex Inc
623	Rockford Manufacturing Group Inc
515	Rosendahl Maschinen GmbH
701	Roteq Machinery Inc
415	SAMP USA Inc

Booth	Exhibitor Name
723	Sealeze, A Unit of Jason
802	Sikora International Corp
816	SIMPACKS
709	Sivaco Wire Group
218	Joe Snee Associates
203	Sonoco Reels
805	Starrett - Bytewise
508	Stolberger Inc DBA Wardwell Braiding
706	T & T Marketing Inc
407	Talladega Machinery & Supply
617	Taubensee Steel & Wire Co
117	Teknikor
223	Thermoplastics Engineering
105	Tri Star Metals
504	Tubular Products Co
321	Ultimate Automation Ltd

Booth	Exhibitor Name
108	United Wire Co Inc
419	US Synthetic Wire Die
316	Vandor Corp
716	Vollmer America Inc
503	Wafios Machinery Corp
315	Weber & Scher Mfg Co Inc
104	Windak Inc
711	Wire & Cable Technology Intl
608	Wire & Plastic Machinery Corp
510	Wire Lab Co
309	Wire Machine Systems Inc
823	WireWorld Internet
503	Witels Albert USA, Ltd
414	Woodburn Diamond Die Inc
123	Worth Steel and Machinery Inc
618	Yield Management Corp
502	Zumbach Electronics Corp



Photographer - Marty Yawnick

Carris Reels Inc

Booth 609

Carris Reels is a leader in the production of reels and spools – and a complete line of reels and accessories will be on display at booth 609.



Products include plywood reels, plastic spools, reel in the box inserts, nailed wood reels, in process wood/metal reels, hardboard reels and stamped metal spools.

Its manufacturing locations are strategically located in Rutland, VT, Enfield, CT, Galien, MI, Statesville, NC, Madera, CA, Fincastle, VA, Monterrey, Mexico and Montreal, Canada, and it also has an assembly warehouse location in Galien, MI and subcontractor assembly locations in Reading, PA, and Fort Worth, TX.

Carris is 100 percent employee-owned and governed having served the wire and cable industry for over 60 years – and the collaborative spirit translates into the highest level of service and quality while proving creative, comprehensive packaging solutions for its customers.

One important area of focus is packaging efficiency – no one wants to pay anything more than necessary. To do this Carris reviews everything from carrying capacity to downstream handling – all required to best define the need.

Carris Reels Inc – USA
Website: www.carris.com

Cemanco
Booth 710

For over twenty years, Cemanco has provided quality wear parts and machinery to the wire and cable industries.

To reach and maintain top quality of the finished product during wet drawing of non-ferrous materials the choice of the right drawing tools is essential.

Cemanco ceramics in zirconium or aluminum oxide are manufactured to the highest standards regarding raw materials, density and surface finish with each finished part subjected to two separate levels of end control.



Customers can choose from a large variety of drawings for standard machines like Niehoff, SAMP, Herborn, Henrich or Syncro.

As a specialist for ceramic wear parts the company also offers a wide selection of standard ceramics like flanged eyelets, ceramic rods, tubes and bow guides in a variety of qualities and surface finishes.

Pulleys and sheaves are available in a choice of materials ranging from aluminum or steel coated with ceramic or tungsten carbide to solid ceramic or composites with metal or plastic flanges and solid ceramic inserts as well as plastic materials.

In addition to an extensive inventory Cemanco offers customers assistance with individual solutions. Custom parts can be provided with short turn around times even in smaller quantities.

The company offers KMK spooling traverses that are known for their cost efficiency, longevity and precision. These mechanical rolling ring drives are easy to maintain and have been the bench mark for take-up traverses for many years.

Recently KMK added a dual-laser guided, self-adjusting traverse system that automatically optimizes winding results for a variety of spool types.

The system has been designed as a cost effective step towards automation and rationalization of the spooling process providing consistently high quality winding results.

Roller guides for wire and cable and wire straighteners complete Cemanco's product program.

Guides are available in many standard sizes from stock or as individual solutions, with standard hardened and chrome coated rollers or with special coatings like ceramic or tungsten carbide.

Straighteners come with standard quick opening levers and cover material diameters from 0.02" to 1.6" either with V-grooved rollers or custom radius grooved rollers.

Cemanco – USA
Website: www.cemanco.com

Commission Brokers

Booth 215

Commission Brokers will be displaying photos and brochures of currently available used equipment as well as information relating to the company's appraisal, liquidation and consignment capabilities.

Martin Kenner, president, with over 43 years' service to the wire industry, specializes in non-ferrous wire and cable equipment, wire harness/assembly/processing equipment, and braiding machinery, from individual components to complete plants.

Commission Brokers Inc – USA

Website: www.comissionbrokers.com

Condat

Booth 616

Condat offers the most extensive product range for wire drawing, including pre-coatings, powder lubricants, neat oils and greases, soluble oils and pastes, weaving lubricants, cleaners and protective products. Condat continues to develop close partnerships with its customers to offer high performance products with environmental responsibility and compliance to the latest legislation.

Backed by a strong team of industry experts, Condat offers lubricant solutions for the most



demanding applications and continues to develop new and innovative products and services for the wire industry.

Condat – France

Website: www.condatcorp.com

Electron Beam Technologies Inc

Booth 621



Electron Beam Technologies, Inc is a custom copper wire and cable service provider. Its capabilities in part or as a whole include rod knockdown, multi-wire drawing, wire bunching, stranding, rope stranding, insulating, multi-wire cable (bare or insulated), composite cable manufacturing and jacket cross linking.

The electron beam cross-linking service is available for polymer enhancement in wire/ cable, tubing and hose in both production and R&D environments.

Electron Beam Technologies Inc – USA

Website: www.electronbeam.com

Howar Equipment Inc

Booth 418

Howar Equipment will showcase wire and cable manufacturing accessories manufactured by its European represented manufacturers.

Displayed products will include: steel reels, spools, carriers and reel handling equipment; mechanical wire descalers, rotating dies and scrap wire coilers; plasma wire surface and heat treatment; precision and high speed wire and cable taping lines; pay-offs, take-ups and tension control equipment; extrusion crossheads, automatic colour change systems, tooling, and automatic off-line cable cross-section measurement.

Special focus will be on the high precision extrusion cross-heads with particular attention on the new series of THHN capable cross-heads. These crossheads are able to insulate two layers in one crosshead while processing two different temperature processed compounds such as nylon and PVC. Tooling changes still feature Unitek's four step system which does not require the entire head to be disassembled.

The complete line of accessories will be available in various media sources with help from experienced staff dedicated to the North American market.

Howar Equipment Inc – USA

Website: www.howarequipment.com

Ideal Welding Systems

Booth 813

Ideal Welding Systems will be on hand to tell all customers about the company and its machinery and to help with production requirements. Ideal Welding Systems represents the Ideal and Clifford product line for automated machinery for resistance welding of wire, cable and sheet metal.

The equipment line up includes butt welders, automated mesh welding machines and CNC robotic welding machines. A team of experts will be on hand to help in the selection of the right equipment for your needs, along with sales material and videos.

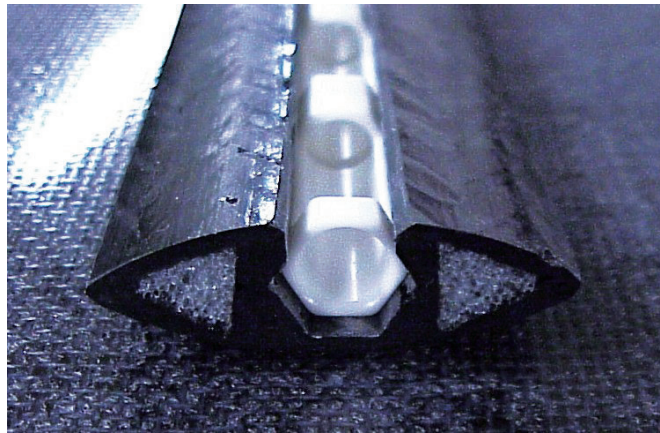
Also on display will be the latest Green line of machinery that reduces electrical consumption, helping you gain an edge on competitors.

Ideal Welding Systems – USA

Website: www.ideal-werk.com

Keir Manufacturing

Booth 606



KEIR Manufacturing is an American-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. Solutions are focused on continuous process improvement, energy savings and longer operating life.

KEIR's patented SureShot and SplitShot air wipes provide a far more 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 lasts much longer than other brands due to the rugged ceramic insert lining the wire path. This equates to over 25 per cent 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

Booth 209

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 gives you a complete audit trail of the process, including flaw reporting, SPC charts, and Excel-based user-designed reports. You also get 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 0.035mm (0.0014") to 120mm (4.7"), and feature compact models and the highest measurement rates available. With the UltraGauge+, you can measure wall thickness at up to eight positions with up to 2,000 measurements per second.

LaserLinc – USA

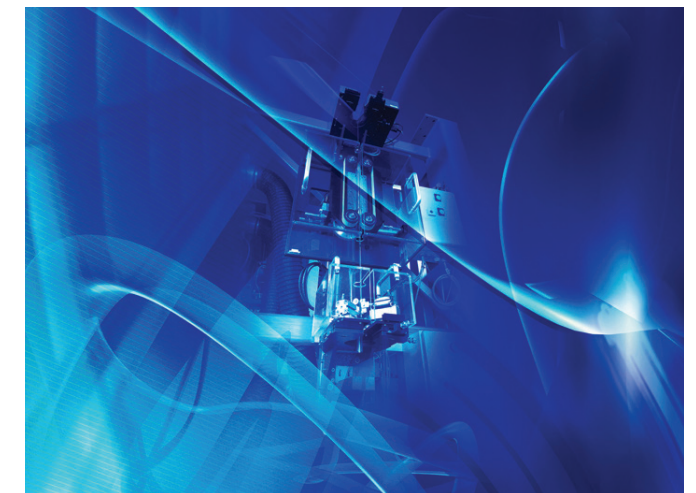
Website: www.laserlinc.com

Nextrom and Rosendahl

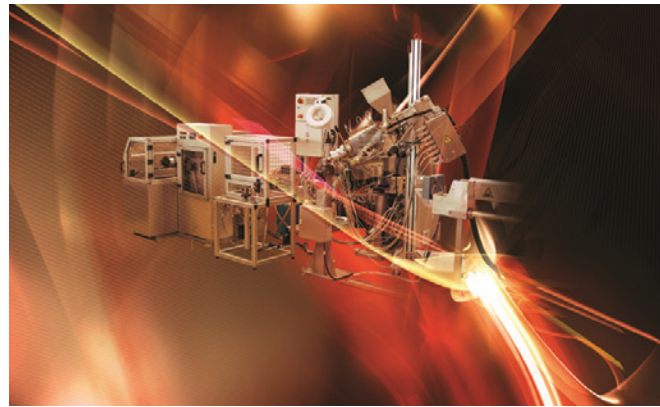
Booth 515

Nextrom & Rosendahl will be co-exhibiting at Booth 515.

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



Rosendahl is a global supplier of high-tech wire and cable manufacturing solutions offering first class products and turnkey solutions in the fields of extrusion, corrugation, fiber optic cable and SZ stranding.



Together Nextrom and Rosendahl offer first class products and turnkey solutions combining leading edge know-how and state-of-the-art technology in close cooperation with their customers and product suppliers.

Nextrom OY – Finland
Website: www.nextrom.com

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

P&R Specialty
Booth 522



P&R Specialty, a midwest-based leading supplier of spools and reels for the wire and cable industry, manufactures fiberboard spools,

plastic spools and plywood spools for multiple markets, including the welding wire, cable, fine wire, magnet wire, hose and cordage industries.

P&R Specialty offers a full line of standard off-the-shelf products in all product categories, as well as custom product-built to customer specifications. With in-house mold and tool making capabilities, quality and cost are controlled throughout the entire manufacturing process, enabling P&R to help its customers improve operational efficiencies and reduce cost in a prompt and reliable manner.

P&R Specialty – USA
Website: www.prspecialty.com

Phifer Inc
Booth 704

With 60 years of wire drawing experience, Phifer is an international leader in the manufacture of aluminum round wire for a wide variety of applications. Phifer has some of the most diverse capabilities in the industry, producing custom aluminum round wire from numerous alloys in diameters 0.11mm-11.1mm.

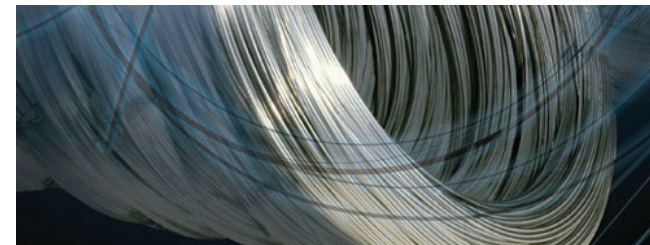
Phifer aluminum wire 0.127mm, 0.16mm, 0.254mm and 0.32mm (0.005", 0.0063", 0.0100" and 0.0126") is used all over the world as coaxial cable braid shielding, shipboard cable armouring and hose braiding.

Other applications include weaving wire, industrial knitting, tea bag staples, semi

conductor bonding, medical devices, stranded power cables, and lightning protection cables.

Newer products include copper clad aluminum, low carbon steel and bronze wire 0.127mm-0.50mm (0.005"-0.020"). Available packages for fine diameter wires include numerous returnable and disposable spools 0.34kg-14kg (0.75lb-30lb).

Phifer aluminum wire is also offered in larger diameters 0.81mm-11.1mm (0.032" to 0.4375") for use in wire forms, food packaging clips, automotive molding reinforcement, vacuum metallizing and more. Innovative machinery has expanded and 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 14kg-680kg (0.032" to 0.4375"), fiberboard drums, and over 40 spools and reels.

Phifer Inc – USA
Website: www.phifer.com

PWM
Booth 218



PWM's range of high-performance manual cold pressure welders will be exhibited at Wire Expo by Joe Snee Associates (Booth 218), PWM's newly appointed exclusive distributor for the US and Canada.

PWM's manual range includes hand-held, bench and trolley-mounted cold welders, with capacities from 0.0039" to 0.141" (0.1mm to 3.6mm) copper and 0.197" (5mm) EC aluminum.

The M10, M25 and M30 hand-held models, for wire from 0.0039" to 0.071" (0.1mm to 1.8mm), are comfortable to hold and easy to operate, making them ideal for welding wire breaks in confined spaces. The larger BM10 and BM30 welders, for use on a workbench, are durable, low maintenance machines with capacities ranging from 0.0039" to 0.071" (0.1mm to 1.8mm) copper/aluminum.

The versatile M101, one of PWM's best-selling machines, can be used on a workbench or supplied with a trolley. The M101 has a capacity of 0.040" to 0.141" (1mm to 3.6mm) copper and 0.040" to 0.197" (1mm to 5mm) aluminum.

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

Pressure Welding Machines – UK
Website: www.coldpressurewelding.com

Radyne Corporation
Booth 103



Building on its success in delivering high speed spring wire lines, in-line bright annealing lines,

and wire coating lines, Radyne developed a new induction heating coil technology for even heating of thin strip.

This revolutionary system delivers highly uniform heating across the strip for a wide variety of thicknesses and widths making it ideal for copper cladding of steel and aluminum core wire.

Radyne offers a range of standardised and integrated systems which are adaptable for many different applications and materials including annealing, hardening and/or tempering, relaxation, drying, preheating, brassing, coating, and heating prior to extrusion of wire and strip.

Standard equipment includes the spectrum of heat treatment technologies including the industry standard High Speed Spring Wire Heat Treatment Lines, Hi-Bond® wire lines for pre-stressed concrete applications for the construction industry.

Complete turnkey systems from pay-off to take-up and for continuous induction heat treatment with typical power outputs from 3kW to 2,000kW at output frequencies from 250Hz to 800kHz and operating at line speeds in excess of 600 feet per minute are available.

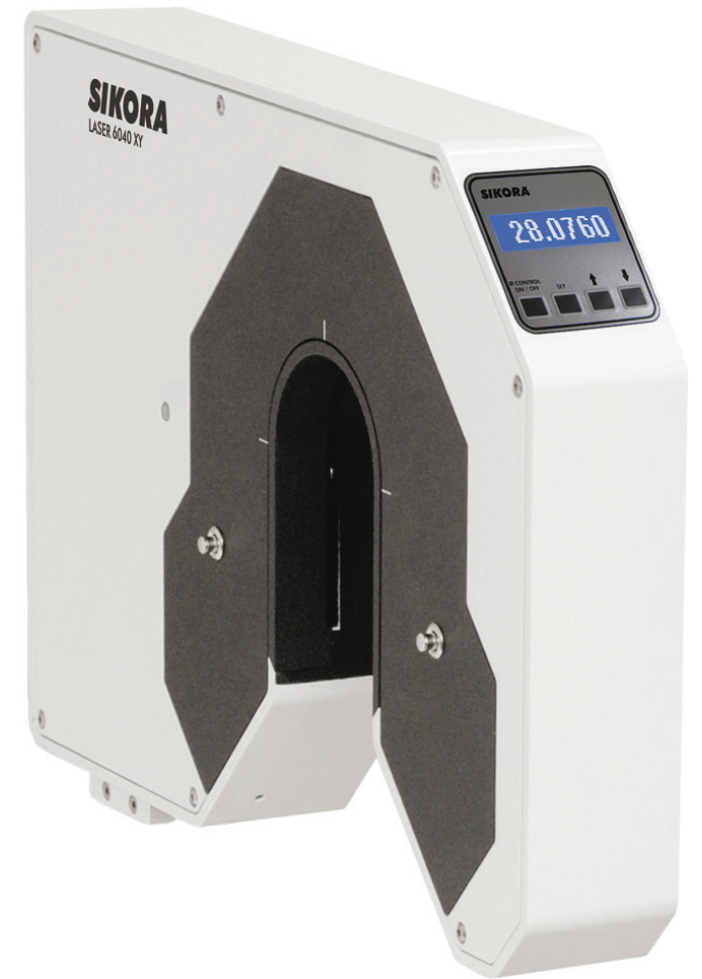
Savings over conventional methods of heat treat include utility costs, reduced scale losses and consistent results and improved quality.

Radyne is part of the Inductotherm Group of companies serving the worldwide metals manufacturing industries.

Radyne Corporation – USA
Website: www.radyne.com

Sikora AG
Booth 802

Sikora is showcasing the X-Ray 6000 for the measurement of the diameter, wall thickness, eccentricity and ovality at insulating and jacketing lines.



The X-Ray 6000 includes XLL-X-ray tubes (extra-Long-Life tubes) and provides a selectable measuring rate of 1 to 3 Hz or optional 10, 25 or 100Hz.

An additional highlight on the booth is the Centerview 8000, which measures eccentricity, diameter and ovality with the highest accuracy. The system is perfectly suitable for the production of coaxial cables, LAN cables as well as automotive and installation cables.

In addition Sikora will present the innovative diameter gauges of the Laser Series 6000 including a number of technological highlights, one being a measuring rate of 2.5kHz.

The gauge heads are equipped with an integrated LED display with control panel option, which allows the operator to read the diameter value directly from the device.

Sikora will also show the Lump Series 2000 for reliable lump and neckdown detection during wire and cable production.

Sikora AG – Germany
Website: www.sikora.net

Teknikor Inc
Booth 117

Teknikor is to open a new office in Kentucky to support the company's long-term growth strategy.

The integrated plant operations and relocation services provider is partnering with veteran industrial engineer and project manager Tim Tanner who joins the company as president of Midwest operations.

Industrial, governmental, institutional, commercial, retail and financial organisations rely on Teknikor for fully integrated facility and operations optimisation. Specific services include mechanical and electrical contracting, engineering and plant layout, automation and controls engineering and installation, fire safety maintenance and testing, plant relocations and precision alignment.

Teknikor's integrated team approach brings experienced engineers, project managers, fabricators and trades people together under one roof; making it easier and more efficient for plant managers to upgrade and streamline operations, manage productivity and reduce costs.

Mr Tanner comes to Teknikor from General Cable where, as senior project manager, he led the North American Project Leadership Group and was primarily responsible for capital expenditures for strategic projects and an annual budget that ranged from \$6m to \$30m. With 30 years of industrial plant and project management under his belt, he has designed and managed innumerable plant consolidations, relocations, production expansions and equipment upgrades.

His professional credentials include a Lean Sigma BlackBelt — an industry recognised project engineering and management approach that combines lean manufacturing principles with the Six Sigma toolset to achieve long-term efficiencies and cost savings.

Although the location of the new office is still undetermined, Mr Tanner has already begun to assume responsibilities at his new post.

Teknikor Inc – USA
Website: www.teknikor.com

US Synthetic Wire Die
Booth 419



US Synthetic Wire Die's objective is to help customers become more competitive by providing high-performance polycrystalline diamond (PCD) dies.

Dies sized 0.004-0.385" diameter are available that use standard PCD blank sizes (D6 through D30).

US Synthetic is a leading producer of PCD for oil and gas drilling inserts and 2011 winner of the Shingo Award for operational excellence.

US Synthetic Wire Die – USA
Website: www.usswiredie.com



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