



## Interwire launch for capstan

At Interwire 2009, Queins & Co GmbH presented a newly developed heavy-duty rotating belt-type caterpillar capstan, with 3 tons pull, contact length of 4,900mm (193") and maximum cable diameter of 140mm (5.5") specially designed for big armouring drum-twisters. Also shown was a high-speed steel taping head, laid out for two pads 600mm (23.6") diameter, with speeds up to 500rpm.

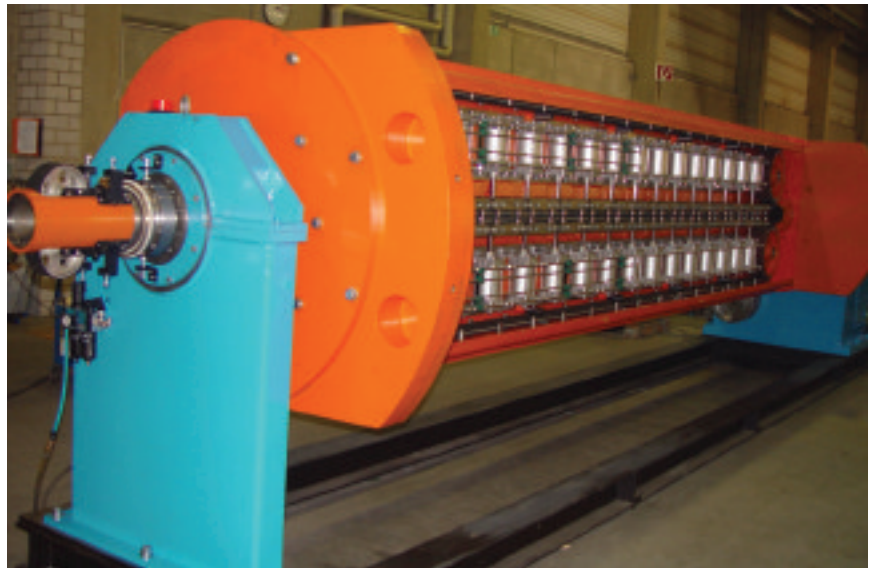
Queins' manufacturing range also includes all kinds of high-speed stranding and armouring machines, payoffs/take-ups, taping heads, disc and belt-type caterpillars, extrusion lines and rod drawing machines. Also offered is a wide range of pre-owned reconditioned machines.

**Queins & Co GmbH – Germany**

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**Website:** www.queins.com



▲ Queins' caterpillar capstan launched at Interwire

## Recession yet to bite at Whitelegg

Whitelegg Machines Ltd has expanded its production facility with an additional machine shop, equipped with lathes, mills, drills and saws, to give more flexibility in component production. The bulk of standard components continue to be out-sourced to local precision engineering companies. IWMA member and specialist, Spring Tooling Ltd provides tooling for the wire forming machines.



▲ The CFM-630-TWR wire forming and welding machine, fitted with an automatic unloading system

The machine assembly shop has been doubled in floor area, allowing for easier working and increased efficiency. The current orders for CFM wire forming and welding machines include those from Egypt, South Africa, Taiwan and England.

The CFM range has been upgraded with the latest Lenze servomotors, drives and industrial PCs to improve further the already user-friendly system.

At the time of writing, both turnover and order book are in line with 2008.

The company recently purchased the entire range of equipment from the receivers of a large UK manufacturer of lampshade frames, some forty wire forming and welding machines, mostly of Whitelegg manufacture, which are currently being overhauled or rebuilt.

This allows lampshade companies, which under the present circumstances could not consider new equipment, to invest in modern machinery at a fraction of the new price. So far, machines have been sold to companies in Russia, France and the USA.

**Whitelegg Machines Ltd – UK**

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## Wire & Cable News

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## 3-axis two-in-one

For the first time, operators of multi-purpose lines can make use of a sector gauge head with integrated 3-axis diameter measurement function for measuring ranges of up to 100mm.

With this technology Sikora reacts to customer demands for multi-function measurement systems for different product applications in one production line.

The 'two-in-one' gauge head is based on a newly developed sandwich principle. For this application the Laser 2100 S/R is combined with the Laser 2100 T.

According to requirements the sector or diameter measuring function can be chosen. The measuring principle of the Laser 2100 S/R is based on a combination of three laser diodes as light sources with a CCD-line sensor in one plane.

The height of stretched sector cables, which can be solid or stranded, is defined from the position of the edges that define the object. Even if the product turns up to  $\pm 15^\circ$  the height is accurately determined.

The Laser 2100 S/R is appropriate for the measurement of sector conductors with a cross section of  $A_{\max} = 750\text{mm}^2$  (for  $120^\circ$ -sectors) and  $A_{\max} = 500\text{mm}^2$  (for  $90^\circ$ -sectors).

The outer diameter and ovality of round cables is also calculated with an optical measuring principle. With the three laser



▲ Diameter gauge head for sector cables and round cables of up to 100 mm

light sources in three planes and CCD-line sensors, the outer diameter is calculated directly from the shadow image with the help of advanced software. The gauge head is suitable for round cables from 1 mm to 100 mm.

### Sikora AG – Germany

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## New thermal spraying wire

The obvious solution to steel corrosion is to galvanise but, in extreme conditions, a galvanised structure can have a short life and it is very difficult to re-galvanise at a later stage. Thermal spraying of pure aluminium or pure zinc is also recognised as a good way of preventing corrosion with aluminium having a longer life but the concern with aluminium is that it tends to passivate in mildly corrosive environments.

A new alloy wire for thermal spraying has been developed to bridge the gap between zinc and aluminium. CJ Wiretech Ltd, in conjunction with the BAC Group, is offering an aluminium-zinc-indium wire for arc or flame spraying. This alloy has been used before as solid sacrificial anodes in marine environments but it is now freely available as a wire from the BAC Group. AlZnIn is basically an aluminium alloy where the added zinc and indium behave as 'activators' to prevent passivation. The material is therefore suitable for thermal spraying directly onto steel and will act as a sacrificial protector in all corrosive environments where salt is a concern. This means that any onshore or offshore steelwork can be protected for 25 years or more against the ravages of corrosion.

An added advantage is that AlZnIn alloys have been used for many years for the sacrificial protection of steel rebars embedded in reinforced concrete. The alloy is sprayed onto the surface of the concrete and electrical connections are made between the sprayed layer and the rebars, thus giving a protection as if there was a direct contact between the two metals. The idea is not new but in the past it has been difficult to source wires for the process; they are now available from CJ Wiretech Ltd.

CJ Wiretech Ltd – UK

Email: chris@cjwiretech.org

## Michael (Mike) Murphy

It is with deep regret that we announce the death of Michael (Mike) Murphy.

Rea Industrial Handling Ltd, for whom Mike worked for many years, were members of the International Wire Machinery Association and in 1980 Mike was appointed as their representative to the Executive Committee. He remained in this capacity until 1994.

During his term of office Mike was appointed to the Technical Papers Award Team, where his technical experience was invaluable in the selection of the technically most important paper presented at any IWMA conference in that particular year.



In 1993, as a result of the merger of Rea Industrial Handling Ltd with Johnson Technology Ltd, Mike transferred his technical skills to Johnson's where he was appointed technical manager, taking on the responsibilities of machine design and development, and technical sales duties. He travelled extensively throughout South East Asia and Australasian areas as well as the UK and Ireland.

Unfortunately Mike had been ill for a long time, but even so he could always be relied upon to provide a funny story and to act in a jocular manner.

He will be sorely missed by his family and his colleagues in our industry.

### Events for Business, Technology and Education

#### 2009

##### October

- |       |   |                   |  |
|-------|---|-------------------|--|
| 6-8   | Metaltech/Tubotech<br>São Paulo, Brazil     | <b>CONTACT:</b> → | IWMA<br>Fax: +44 1926 314755<br>Email: <a href="mailto:info@iwma.org">info@iwma.org</a><br>Website: <a href="http://www.iwma.org">www.iwma.org</a>   |
| 12    | IWMA Technical Seminar<br>Bangkok, Thailand | <b>CONTACT:</b> → | IWMA<br>Fax: +44 1926 314755<br>Email: <a href="mailto:info@iwma.org">info@iwma.org</a><br>Website: <a href="http://www.iwma.org">www.iwma.org</a>   |
| 13-15 | wire/Tube SE Asia<br>Bangkok, Thailand      | <b>CONTACT:</b> → | Messe Düsseldorf Asia Pte Ltd<br>Fax: +65 6337 4633<br>Email: <a href="mailto:wire@mda.com.sg">wire@mda.com.sg</a><br>Website:<br><a href="http://www.wire-southeastasia.com">www.wire-southeastasia.com</a> |

##### November

- |     |  |                   |  |
|-----|--|-------------------|--|
| 2-3 | Istanbul Cable & Wire 09<br>Technical Conference | <b>CONTACT:</b> → | IWMA<br>Fax: +44 1926 314755<br>Email: <a href="mailto:info@iwma.org">info@iwma.org</a><br>Website: <a href="http://www.iwma.org">www.iwma.org</a> |
|-----|--|-------------------|--|

#### 2010

##### April

- |       |  |                   |  |
|-------|--|-------------------|--|
| 12-16 | wire/Tube Düsseldorf 2010<br>Düsseldorf, Germany | <b>CONTACT:</b> → | Messe Düsseldorf GmbH<br>Fax: +49 211 45 6087 7793<br>Email: <a href="mailto:wire@messe-duesseldorf.de">wire@messe-duesseldorf.de</a><br>Website: <a href="http://www.wire.de">www.wire.de</a> |
|-------|--|-------------------|--|

##### May

- |       |                            |                   |   |
|-------|----------------------------|-------------------|---|
| 11-12 | WireExpo<br>Milwaukee, USA | <b>CONTACT:</b> → | WAI<br>Fax: +1 203 453 8384<br>Email: <a href="mailto:info@wirenet.org">info@wirenet.org</a><br>Website: <a href="http://www.wirenet.org">www.wirenet.org</a> |
|-------|----------------------------|-------------------|---|

##### September

- |       |                                       |                   |   |
|-------|---------------------------------------|-------------------|---|
| 21-24 | wire/Tube China 2010<br>Shanghai, PRC | <b>CONTACT:</b> → | Messe Düsseldorf GmbH<br>Fax: +49 211 4560 7740<br>Email: <a href="mailto:wire@messe-duesseldorf.de">wire@messe-duesseldorf.de</a><br>Website: <a href="http://www.wirechina.net">www.wirechina.net</a> |
|-------|---------------------------------------|-------------------|---|

##### November

- |       |  |                   |  |
|-------|--|-------------------|--|
| 18-20 | Wire & Cable India 2010<br>Mumbai, India | <b>CONTACT:</b> → | CII<br>Fax: +91 22 2493 9463<br>Email: <a href="mailto:info@ciionline.org">info@ciionline.org</a><br>Website: <a href="http://www.ciionline.org">www.ciionline.org</a> |
|-------|--|-------------------|--|

### FORTHCOMING IWMA SOCIAL EVENTS

#### IWMA Dinner Dance 2009

Friday 27 November 2009, Royal Garden Hotel, London, UK

#### IWMA AGM & Industry Lunch 2010

Wednesday 3 February 2010, Mere Golf & Country Club, Knutsford, UK

#### IWMA 40<sup>th</sup> Anniversary & Düsseldorf Dinner 2010

Tuesday 13 April 2010, Düsseldorf Congress Centre, Germany

Please contact the IWMA office for further details,  
Tel: +44 1926 834680 Fax: +44 1926 314755 Email: [info@iwma.org](mailto:info@iwma.org)  
or visit the website [www.iwma.org](http://www.iwma.org)

## Bending machines aimed to please

AIM Inc has introduced several new machines to automate wire and rebar product production, from small wire anchors to large rebar stirrups. They all carry the latest technology from solid modelling file translation (CAD file importation) to capabilities for secondary operations and robot communications for hands-free operation.

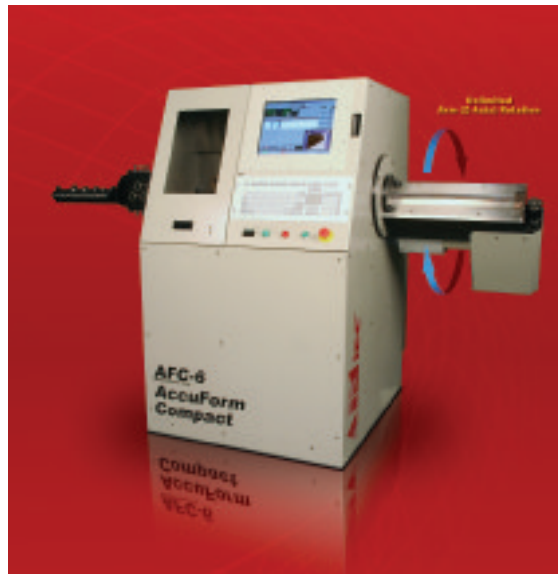
Users can go from print/sketch to production in five minutes or less. The rebar benders accept ASA tags for automated rebar fabrication and have an optional barcode gun input, simplifying program and data manipulation communicating at the same time with the manufacturer's server/database/software via standard Ethernet connection.

The new Compact 3D machine, the AFC series, offers up to 10mm wire capacities for cost effective, automatic wire bending operations. It comes complete with industrial PC running Windows® XP Pro and SmartEditor® (AIM's unique programming package). The AFC series is said to include a host of features previously available only on much more expensive machines.

AccuForm Compact comes complete with a 2-plane straightener, maintenance-free servo quad-roller feeder, precision bender axes and infinite Z-axis rotation (arm). SmartEditor features a flexible programming language with intuitive commands and simple to use, conversational, step-by-step programs. All the operator needs to make parts are length and bend angle, yet the language will allow programming of sophisticated shapes. The package includes near unlimited program storage and the ability to compensate each program with simple instructions.

The second model released was the AFR. This is an accurate, all servo-electric CNC rebar bender line with capacities currently up to 22mm (#7) or two 16mm (#5) rebar. Standard barcode and tags can be used with SmartEditor software and, using the AIM graphics machine animation, users can watch the machine in action before production starts. Sealed bearings, servomotors with high power precision gearboxes and robust construction help guarantee long life and smooth operation.

The third model is believed to be the simplest programmable CNC machine available in the market, capable of bending wire, tube or rebar. Capacities are available currently for up to 16mm (0.875") solid bars or #7 rebar. This model takes pre-cut material, manually loaded or from a hopper option and uses XYZ, LRA (or YBZ) or CAD file programming. It is available in single, 2- or 3-axis versions.



▲ AccuForm Compact

**AIM Inc – USA**  
**Email:** (Europe, Russia, Africa & Middle East) sales@aimeuropesa.com

**Fax:** +1 630 458 0730

**Website:** www.aimmachines.com  
(For the rest of the world) sales@aimmachines.com

## METIZ joint conference postponed until June 2010

Following advice from the IWMA, fellow joint-organiser Metiz readily agreed to the postponement of the conference that was due to take place in Yalta, Ukraine (2<sup>nd</sup> and 3<sup>rd</sup> June 2009) to June 2010.

The exact dates are yet to be confirmed.

In taking account of the economic situation in Eastern Europe, the CIS and Ukraine itself, as well as the current political situation in the latter, it was felt prudent to put back 'Latest technology and prospects for the wire hardware market' until 2010.

## PWM to exhibit at wire Southeast Asia

British company PWM will showcase its range of cost effective manual cold welders at wire Southeast Asia, stand J05. The range includes three hand-held, portable models, ideal for repairing wire breaks quickly and efficiently in confined spaces.

The compact M10, M25 and M30 machines, designed to be comfortable to hold and extremely easy to operate using finger or hand pressure, have capacities ranging from 0.1mm to 1.8mm diameter for copper or aluminium.

PWM's BM10 and BM30 models are strong, low maintenance machines, which use industry standard dies to provide a reliable weld on non-ferrous wire from 0.1mm to 1.8mm diameter. These welders can be used mounted on either a workbench or a mobile trolley. Light hand pressure on the operating lever completes the weld in seconds. The largest machine to be presented at the show is the versatile manual M101. This heavy-duty cold welder, which has a capacity of 1mm to 3.6mm copper and 1mm to 5mm EC aluminium, is one of PWM's best-selling models.

Durable, simple to operate and easy to maintain, due to the low number of component parts, the M101 can be either bench or trolley-mounted for portability and convenience.

**Pressure Welding Machines – UK**  
**Email:** pwm@btinternet.com

**Fax:** +44 1233 820847  
**Website:** www.pwmltd.co.uk

## Diameter and position monitoring in optical fibre drawing processes

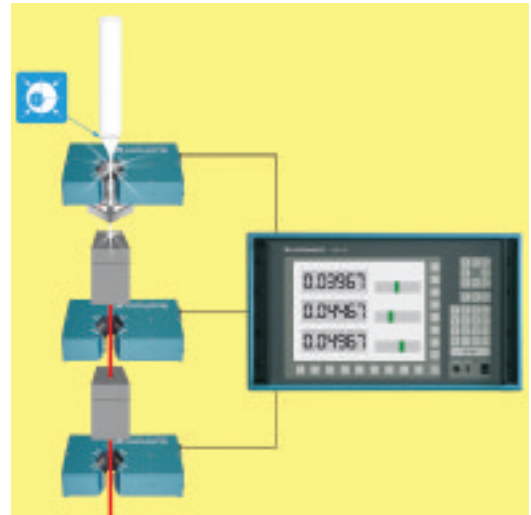
Highly accurate diameter and ovality monitoring is crucial in fibre drawing. The measurement accuracy must be in fractions of a micron ( $\mu\text{m}$ ) and the fibre position must be known at all times to maintain fibre concentricity.

For reasons of process control, the frequency of the fibre vibration must also be known.

All parameters should be available in analogue format, with a high update rate for control of the drawing process. Zumbach's advanced laser gauge Odac<sup>®</sup> 18XY, together with the analogue interface AI 4-Odac<sup>®</sup>, offers a solution to these problems with the following features:

- Scan rate and accuracy are extremely high
- Position measurement in X and Y is precise and linear
- Vibration frequency can be determined using the high X-Y scan rate and processing speed
- Analogue outputs for diameter and position have a high resolution (16 bit) and a high update rate (120/s). To date, most available equipment has resolutions of 12 bit and update rates between 10 and 60/s.

The same package (Odac<sup>®</sup> 18XY with AI 4-Odac<sup>®</sup>) can be used after the coating stations where position monitoring is normally not required.



▲ Drawing and coating monitoring with Zumbach's Odac systems

### Zumbach Electronic AG – Switzerland

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## 10-year guarantee on traverse units

Traverse unit manufacturer, Marldon, has announced a radical change to its offering.

To support the long-term partnership that Marldon always endeavours to establish with its customers, customers may now purchase 10-year support for a small price premium, covering labour and all wear parts.

It also covers unlimited refurbishment and calibration on demand.

The service is transferable with the product and can therefore be passed on by OEMs to their customers when incorporating a Marldon unit in their machine.

The warranty is based upon the unit being returned to the Marldon factory in the United Kingdom and the costs of transport in each direction must be borne by the traverse owner.

This warranty is available on all traverse units supplied after 1<sup>st</sup> June 2009.

### Marldon Group Ltd – UK

**Fax:** +44 870 907 0016

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**Website:** www.marldon.com

## IWMA's 40<sup>th</sup> anniversary plans are well under way

The IWMA celebrates its 40<sup>th</sup> anniversary in 2010, coinciding with the wire Düsseldorf exhibition, and will mark this milestone in a number of ways. Already member organisations can take advantage of a special offer of two years' membership for the cost of one year when renewing during 2009.

New members applying to join during 2009 can also enjoy the 'two years for the price of one' anniversary offer.

Currently in preparation, for publication early next year, is a commemorative booklet that will record the proud history of the IWMA and the member organisations and individuals who have made the association what it is today. This is an immense task being undertaken by the IWMA Secretariat involving careful research in the archives as well as valuable input from long-serving executive board members.

There will also be important social and networking events taking place during 2010 to bring member organisations together to celebrate the anniversary. On Wednesday 3<sup>rd</sup> February 2010 at the Mere Golf & Country Club, close to Manchester Airport (UK), the IWMA's traditional 'Meet the Industry' lunch will take place but with a special anniversary twist: all member organisations can book a complimentary table to entertain up to ten guests. Instead of being charged for the table, members will be invited to make a charitable donation for distribution to local good causes.

The main focus of the anniversary celebrations will be a prestigious gala dinner in Düsseldorf on Tuesday 13<sup>th</sup> April during wire Düsseldorf 2010. Many special guests will be invited, including a number who have played very important roles in the history of the IWMA.

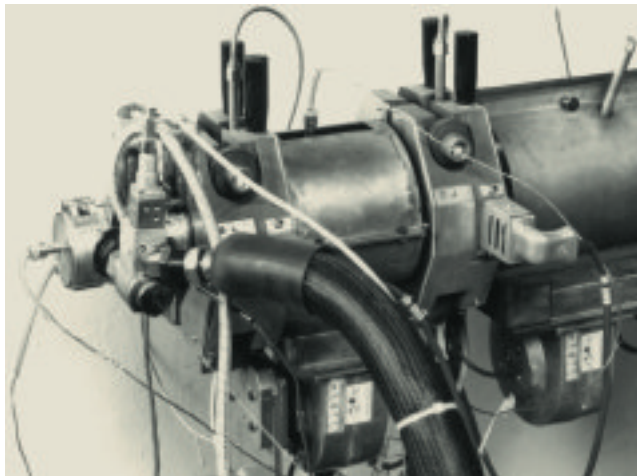
As the world's largest corporate membership association for the industry, with such a widespread membership, it is important that as many member companies as possible can join in the IWMA's celebrations. Many will, of course, be attending wire Düsseldorf but for those on the other side of the world there will be a special reception on the IWMA booth during the wire China 2010 exhibition on Thursday 23<sup>rd</sup> September.

Member organisations are also reminded that the IWMA has specially commissioned high quality silk ties and ladies silk scarves and these are available at a substantially discounted price from the Secretariat.

## 50 years of innovation

Ongoing development and technological progress are the fundamental values of Rosendahl's 50-year history. Within those 50 years, Rosendahl has grown to a global supplier of manufacturing technology for the production of power, automotive and fibre optic cables, RF, datacom and coaxial cables.

In 1959 Walter Rosendahl had the ambition to become a high-tech cable equipment manufacturer, for a variety of industries. Mr Rosendahl worked hard on his first developments in various segments and he managed to achieve the goals he had in mind by 1965. A historical milestone was the development of the first extrusion line.



▲ The first extruder was developed in 1965

The extrusion technology, which has been continuously developed over the years, is one of the strengths of Rosendahl.

A second large step, in 1971, was the introduction of the SZ-stranding technology, which since then has been implemented in a large number of lines. The technological development in foaming and in the fibre optic segment encouraged Rosendahl to enlarge its product range to serve the evolving market. Later, RF welding and corrugation technology solutions were developed, completing Rosendahl's current area of expertise.

The opening of the facilities in Pischelsdorf, Austria, in 1973 enlarged Rosendahl's manufacturing capacity. Increasing demand also led to continuous expansions of office and production facilities on site and throughout the world.

In 1997, Rosendahl became a member of the globally active Knill Group. In 2005 Nextrom became part of the group and together with Rosendahl jointly serves the market with its technology.

Today, the group is among leading global suppliers of fibre, wire and cable manufacturing solutions. Rosendahl continues to invest in its facilities and in technological development. Currently, the group operates in more than 100 countries, with offices in five locations – Austria, USA, Russia, India and Hong Kong.

**Rosendahl Maschinen GmbH – Austria**

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**Website:** [www.rosendahlaustria.com](http://www.rosendahlaustria.com)

## IWMA new members

The IWMA is pleased to welcome the following new members to the Association:

- |  |  |
|--|--|
| • Birchwood Consulting                                 |  |
| • Menam Stainless Wire Public Co Ltd                   | <a href="http://www.menamstainless.com">www.menamstainless.com</a>       |
| • Control Power & Eng Ltd                              |  |
| • CJ Wiretech Ltd                                      |  |
| • H Folke Sandelin                                     | <a href="http://www.hfsab.com">www.hfsab.com</a>                         |
| • MPI Machines   | <a href="http://www.mpigwl.com">www.mpigwl.com</a>                       |
| • Siddall & Hilton                                     | <a href="http://www.sandhp.com">www.sandhp.com</a>                       |
| • IBA Industrial                                       | <a href="http://www.iba-industrial.com">www.iba-industrial.com</a>       |
| • Zhangjiagang Donghang Machinery Co Ltd               | <a href="http://www.dhjx.com.cn">www.dhjx.com.cn</a>                     |
| • Jiangyin Huafang Electromechanical Technology Co Ltd | <a href="http://www.chinahuafang.com.cn">www.chinahuafang.com.cn</a>     |
| • Yancheng Gaojing Yihe Machinery Mfg Co Ltd           |  |
| • M N Gulf Metals FZE                                  |  |
| • Medyafors Fuarcilik Ltd Sti                          | <a href="http://www.mediaforceonline.com">www.mediaforceonline.com</a>   |
| • Wire Koerner GmbH                                    | <a href="http://www.wirekoerner.com">www.wirekoerner.com</a>             |
| • Huntstar   |  |
| • Supermac Industries                                  | <a href="http://www.supermacindia.com">www.supermacindia.com</a>         |
| • Cable Xtruders Ltd                                   | <a href="http://www.cablextruders.com">www.cablextruders.com</a>         |
| • Ridgway Machines                                     | <a href="http://www.ridgwayeng.com">www.ridgwayeng.com</a>               |
| • Shanghai Shenchen Wire & Cable Equip Co Ltd          | <a href="http://www.sch.chinacable.com.cn">www.sch.chinacable.com.cn</a> |
| • Medek & Schörner GmbH                                | <a href="http://www.medek.at">www.medek.at</a>                           |

If your company would like to join the world's largest corporate members organisation for the wire, cable and wire product industries, just visit [www.iwma.org](http://www.iwma.org) and click 'Join the IWMA' or contact the Executive Secretary at:

**IWMA**, 46 Holly Walk, Leamington Spa, Warwickshire CV32 4HY, UK  
**Tel:** +44 1926 834680 • **Fax:** +44 1926 314755 • **Email:** [info@iwma.org](mailto:info@iwma.org) • **Website:** [www.iwma.org](http://www.iwma.org)

## Performing well in face of economic adversity

During these testing times, BAR has been performing well and is still reporting growth in most areas of the manufacturing business. Major new customers in the fields of tube manufacture, extrusion, tooling development and wire rope manufacture have helped BAR see a significant growth in output over the last year.

Managing director, Steven Rika, puts the continued growth down to the diversity of the product range, ability to react to customers' needs, and the quality of the finished products. "We have gained several major customers over the last 12 to 18 months by offering a level of service that is not available from other suppliers, and by being able to react quickly to any urgent needs that can, and usually do, arise from time to time."



▲ A range of products from BAR

Exports have increased significantly with major customers in Portugal, Italy, Germany, China, USA, Malaysia and Indonesia. BAR is now seeing its reputation, built up over many years, paying dividends in the global market place.

Exhibitions will be a key factor in the future. BAR already regularly exhibits at the wire Düsseldorf exhibition, and will be present at the 2010 event. A presence is also planned for the Cable & Wire Conference taking place in Istanbul, Turkey in November 2009.

Continued investment in new machinery, process improvements, and the latest CAD/CAM software is playing a significant part in consolidating the strength of its market position in these turbulent economic times.

### BAR Products & Services – UK

**Email:** enquiries@barproductsandservices.com

**Fax:** +44 1274 693254

**Website:** www.barproductsandservices.com

## New general director for Sikora Russia

Sikora appoints Mr Viacheslav Zabaluev as new general director of Sikora Russia. In his work he is supported by Fira Fateeva, newly appointed deputy general director. Both are already working with Sikora Russia.



▲ Viacheslav Zabaluev is the new office manager of Sikora Russia

Mr Ivan Zhukovskyy, who has managed Sikora Russia during the last three years, left the company on 30<sup>th</sup> April 2009.

**Sikora AG – Germany**

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**Email:** sales@sikora.net

**Website:** www.sikora.net

## IWMA representative in China already making an impact

In WCN issue n° 40 (Spring 2009) the IWMA announced the appointment of Sinosteel Zhengzhou Research Institute of Steel Wire Products Co Ltd (SZRISWP) as its official representative in China. SZRISWP has wasted no time in attracting a number of new Chinese organisations to membership of the association and delighting the IWMA's executive board in the process.

At time of writing the Chinese member organisations recruited so far this year are listed below, and the IWMA takes the opportunity of welcoming them to the IWMA and thanking SZRISWP for their excellent efforts.

**Zhangjiagang Donghang Machinery Co Ltd –**

**Website:** www.dhjx.com.cn

**Jiangyin Huafang Electromechanical Technology Co Ltd –**

**Website:** www.chinahuafang.com.cn

**Yancheng Gaojing Yihe Machinery Mfg Co Ltd**

**Feihua Welding Equipment Co Ltd –**

**Website:** www.dgfhq.com

**Shanghai Shenchen Wire & Cable –**

**Website:** www.sch.chinacable.com.cn

It is not only in China that IWMA membership is growing. Despite the economic difficulties being experienced globally the Association has been successfully increasing its membership worldwide, as wire and cable organisations understand what the not-for-profit IWMA can do to help them in so many ways.

IWMA representative office in China:

**Sinosteel Zhengzhou Research Institute of Steel Wire Products Co, Ltd (SZRISWP)**

26 Huagong Road

Zhengzhou High-tech Zone

Henan 450001 China

**Tel:** +86 371 6785 2060

**Fax:** +86 371 6785 2057

**Email:** jszpbjb@126.com

**Contact:** Shen Xianmin

## Interwire 2009 feels the effect of global economic slowdown

Official figures released by the organisers of Interwire, which took place 27<sup>th</sup> – 30<sup>th</sup> April 2009 in Cleveland, USA, report a 43% reduction in attendance compared with the 2007 event held in the same venue. Whilst disappointing in some respects these figures are not entirely unexpected given the severe impact of the recession on the wire and cable industry, with many organisations having imposed restrictions on employee travel.

Attendance was not helped by the unfortunate concurrent swine 'flu' outbreak that certainly had some effect on travel. Despite the disappointing attendance numbers the exhibition still attracted visitors representing 930 companies coming from 33 countries.

The IWMA is a long time supporter of Interwire and, once again, exhibited together with a group of members.

During the four days of the exhibition the IWMA obtained 23 firm enquiries from organisations interested in membership and recruited one new member company on the spot.



▲ IWMA President Georg Queins (second right) and Chairman Stephen Wood (third right) at wire cutting opening ceremony at Interwire 2009

In addition, a number of important meetings took place including a planning session with the WAI and ACIMAF for the forthcoming Istanbul Cable & Wire '09 technical conference that takes place 2<sup>nd</sup> – 3<sup>rd</sup> November 2009 in Turkey.

After two stays in Cleveland Interwire will return to Atlanta in 2011, when there will undoubtedly be a more positive economic climate and, as a result, a reinvigorated event.

The IWMA continues to support Interwire as the key wire and cable exhibition for the North American region.



▲ Interwire 2009 showing the IWMA booth in the centre of the photograph

## Stranding line installed for Oman Cables industry

Pourtier, of Gauder Group, is celebrating the successful commissioning of a new concentric stranding line, the COS 1200-2, for the production of a 37-wire concentric Cu/Al strand of 240mm<sup>2</sup> at 500rpm.

MS Abdul Najeeb, project manager at Oman Cables Industry (OCI), explains: "This machine is the first in the world to use the system of winding three wires onto one coaxial bobbin (spinning on the centre line of the machine), from external coil baskets, and then stranding from this single bobbin. This makes the machine very compact and fast and with two bobbins per module allows six wires to be run from each individual module. OCI's machine has five modules and can have an additional seven non-twisted wires fed into the machine at the beginning of the process, giving us thirty-seven wires in total. In this new machine, Pourtier uses a motorised control system to ensure the uniform tension of each wire and can thereby guarantee a more regulated length in each bobbin."

Mr Najeeb continues: "Other machine manufacturers have used central stranders which only wind one wire at a time onto the bobbins. This allows discrepancy between the lengths on each

bobbin and leads to more scrap during the feeding-on process."

OCI analysed the COS 1200-2 capabilities and was convinced that this would be the solution to cope with its production projections. Several trials were conducted on a prototype, developed in 2006, which OCI personnel were invited to attend. Assembled in France in June 2008, OCI witnessed a successful 'no load' trial of the machine. The complete line was developed in October 2008 and final commissioning took place in January 2009.



▲ Pourtier Gauder's concentric stranding line

**Gauder Group – Belgium**

**Fax:** +32 4 367 8798

**Email:** gauder@gaudergroup.com

**Website:** www.gaudergroup.com



## Pakistan Cables undergoes expansion to meet customer demand

Pakistan Cables has recently invested in additional plant and equipment, and added new product lines to its existing portfolio.

In 2008 Pakistan Cables commissioned its own PVC compound plant, as part of an ongoing expansion programme. The plant produces flexible PVC compounds for insulation and sheathing of electric cables. This plant has the most sophisticated machinery, including automated weighing and dosing systems for each component of the various formulations.

The centralised control system allows for user-friendly operation of the entire plant while maintaining accurate control of each component. The plant is complemented by a polymers laboratory for development of customer-specific formulations.

In early 2008, Pakistan Cables began producing cables for the automobile industry in Pakistan.

These cables are used in the assembly of wire harnesses for OEMs and are manufactured under JIS (Japanese Industrial Standards). Specifications include AV, AVS, AVSS and AVSSH. Pakistan Cables is also currently in the process of developing Halogen Free auto cables to meet the growing demand for these items.

In addition to the new PVC compounding and new auto cable plant, Pakistan Cables has recently inaugurated its own 2-megawatt gas fired co-generation power plant. The power plant, utilising GE Jenbacher engines, allows the company to be self-sufficient for its energy needs. With all of these developments, Pakistan Cables is well positioned to meet the growing needs of customers in Pakistan and in the surrounding region.

**Pakistan Cables Ltd – Pakistan**  
**Website:** [www.pakistancables.com](http://www.pakistancables.com)

## New name for News

For more than 12 years Maschinenfabrik Niehoff has published Niehoff-News, a twice-yearly newspaper for customers, containing a wide range of ideas about improving the competitiveness of their businesses.

The newspaper now appears with a more attractive and modern layout, an easier to handle format and a new title: *Power & Trends*.

The name underlines that Niehoff is constantly working to identify trends early and to develop powerful products, and also indicates the potential of the wire and cable industry.

The first issue of *Power & Trends* contains reports on the new MSM 224 type intermediate wire drawing machine and the Niehoff exhibits at the Interwire 2009 and the wire Russia 2009 trade fairs.

In an interview, Ronald W Reed, the immediate past president of the Wire Association and president of the wire and cable manufacturer, Horizon Wire & Cable, talks about the opportunities now available to wire and cable manufacturers, while in the company portrait Podolskabel, one of the leading cable manufacturers of Russia, is presented.

*Power & Trends* 1/09 issue is published in English, German and Russian and can be obtained from Niehoff headquarters in Germany or any Niehoff subsidiary or service office all over the world.

**Maschinenfabrik Niehoff GmbH & Co KG – Germany**  
**Fax:** +49 9122 977155  
**Email:** [info@niehoff.de](mailto:info@niehoff.de)  
**Website:** [www.niehoff.de](http://www.niehoff.de)

## IWMA exhibitor packages meet the needs of many small and medium exhibitors at wire exhibitions worldwide

For a number of years the IWMA has offered exhibitor packages at a number of exhibitions, including wire Düsseldorf, wire China in Shanghai, wire Russia in Moscow, wire Southeast Asia in Bangkok, Tekno Arabia in Dubai and Metaltech in Brazil. These packages are branded as Orchid, Oasis, Samba or Caviar packages, with a symbol appropriate to the event, and are offered to exhibitors at cost price. As major industry partners to these events the IWMA can secure booth positions in excellent locations for its exhibitors.

Apart from a well specified shell-scheme booth these packages have additional items, in most cases including daily booth cleaning, visa invitations where necessary, meet and greet service at the airport, an interpreter or booth assistant and full use of the IWMA's valuable support services at the exhibition. Additionally, at some venues the IWMA negotiates specially discounted rates at tried and tested hotels.

At wire Russia 2009 in May a number of companies, some of them first time exhibitors, booked the IWMA Caviar package and were very pleased with the level of service provided. One exhibitor, Jeffrey Whitney, agent for CommScope, Bimetals, was particularly pleased with the interpreter provided by the IWMA and with their kind permission we record his comments below. "I am writing, in my capacity as the CommScope BiMetals regional sales agent for Russia & CIS and as the stand manager for the 'Wire 2009' exhibition in Moscow this past week, to let you know how pleased we were with the performance of Ms Elizaveta Stepanova.

"Elizaveta had clearly taken the time to do preparatory work in reviewing our product literature and becoming familiar with the terminology and concepts. This preparation made her a very valuable asset to our work. So, her comfort level with them, as well as her effort in learning about all the clients and what their needs from CommScope BiMetals were, made Elizaveta a key member of our team this week! So, thank you for arranging for Elizaveta to work with us. We are very much hoping that, with the leads that were developed and the interest that was shown in our products, CommScope BiMetals will be back in Moscow very soon. And, whenever we come back, we want to work with Elizaveta!"

If your organisation is interested in exhibiting at any of these major trade fairs please do not hesitate to contact us to find out how we can help you by taking away some of the stresses and strains of participating. In particular we highlight the forthcoming Metaltech exhibition in São Paulo, Brazil 6<sup>th</sup> – 8<sup>th</sup> October 2009, for which there is a Samba package, and the important wire Southeast Asia 2009 event in Bangkok 13<sup>th</sup> – 15<sup>th</sup> October, where the IWMA is offering the Orchid package.

## New Blue Book edition

Fort Wayne Wire Die Inc has released the latest edition of its Blue Book wire drawing reference guide, completely updated and available in English, Chinese and Russian.

The guide is said to allow wire drawing professionals to specify and procure their wire dies more precisely and efficiently having the most current information on hole size tolerances, available polycrystalline diamond materials and dimensions, die material comparison tools and more.

Other content includes wire gauge charts, detailed wire die technical drawings and nomenclature, die re-cutting options, mathematical wire drawing principles and more, all constructed and organised to guide engineers through a logical die selection process.

Fort Wayne Wire Die Inc designs and manufactures high-precision wire drawing dies and hard-material components for the wire and cable industry.

**Fort Wayne Wire Die Inc – USA**  
Email: sales@fwwd.com

Fax: +1 260 747 4269  
Website: www.fwwd.com



▲ FWWD's Blue Book

## BLM Group acquires wire-bending company

BLM SpA of Cantù, Italy, a leading manufacturer of tube bending and end forming machines and systems, has purchased Officina Meccanica Montorfano Sas.

The takeover of Montorfano, effective from 13<sup>th</sup> January 2009, allows BLM to complement its technology in the tube-bending field with highly productive machines for the bending of wire, small diameter bar and tube, strip/profiles, and armoured heating elements.

For more than forty years Montorfano has specialised in the manufacture of multi-head machines for wire bending, its first patent for this type of machine being granted in 1965 and its first three-axis CNC machine introduced in 1979. Today the company offers a range of 18 standard machines capable of bending wire and bar from 1mm to 33mm diameter.

These machines are widely used in the automotive and construction industries, and in the production of household appliances, indoor and outdoor furnishings, bathroom accessories, and equipment for shops and stores.

**BLM Group UK Ltd – UK**  
Fax: +44 1525 402 312  
Email: sales@blmgroup.uk.com  
Website: www.blmgroup.uk.com

**BLM Montorfano – Italy**  
Fax: +39 031 716598  
Email: bendingmachines@montorfano.net  
Website: www.montorfano.net

## Preview of wire Düsseldorf 2010, Germany, 12<sup>th</sup> – 16<sup>th</sup> April 2010

Advance space bookings for next year's wire Düsseldorf are very strong, despite the global economic situation that was affecting the industry in the first half of 2009. There is no doubt that many companies have decided that wire Düsseldorf is the one exhibition in which to participate above all others.

Many companies were unable to obtain the amount of space that they wanted in 2008 and a fairly large waiting list of others were unable to book any space at all as a consequence of the concurrent Metav exhibition. For the 2010 event there is no Metav exhibition, so every potential exhibitor should be easily accommodated. Accordingly, the IWMA believes that the 2010 wire will at least be comparable in size to the 2008 edition despite the global economic situation.

It is expected that confidence will have returned to many global markets by Q1 of 2010, making wire Düsseldorf a very timely event indeed for industry organisations to signal to their prospective customers that they have come through the recession and have the technology and products to serve them.

Exhibitors who have booked space at wire 2010 will have noticed that included with the application information were details of a new media charge for entry onto the exhibition portal. Although there is a compulsory charge for this media there are many promotional benefits for exhibitors in having their details posted on the exhibition website.

At the same time it must be stressed that the portal in no way replaces the exhibition catalogue but is additional to it and serves a different purpose. Visitors to the exhibition will still require the facility of easily finding their way around the halls and identifying exhibitors provided by the catalogue, and exhibitors are advised not to forget this important and essential tool.

The IWMA is offering very competitive, 'recession-beating' exhibitor packages at wire Düsseldorf 2010, at lower prices than 2008. These are available to exhibitors whether or not they are part of the IWMA exhibitor group and interested organisations can find more information on the website at: [www.iwma.org](http://www.iwma.org) or from the IWMA head office.

For the 2010 event the IWMA booth will be located in its traditional position in the centrally located Hall 11, again offering a wide range of support services for members, whether exhibiting at or visiting the trade fair, and companies which are part of the IWMA exhibitor group.



**join the best**  
12 - 16 April 2010  
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www.wire.de

Hallen/Halls  
9 - 12, 15 - 17

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Wire, Cable and Fibre Optic  
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Federfertigungstechnik  
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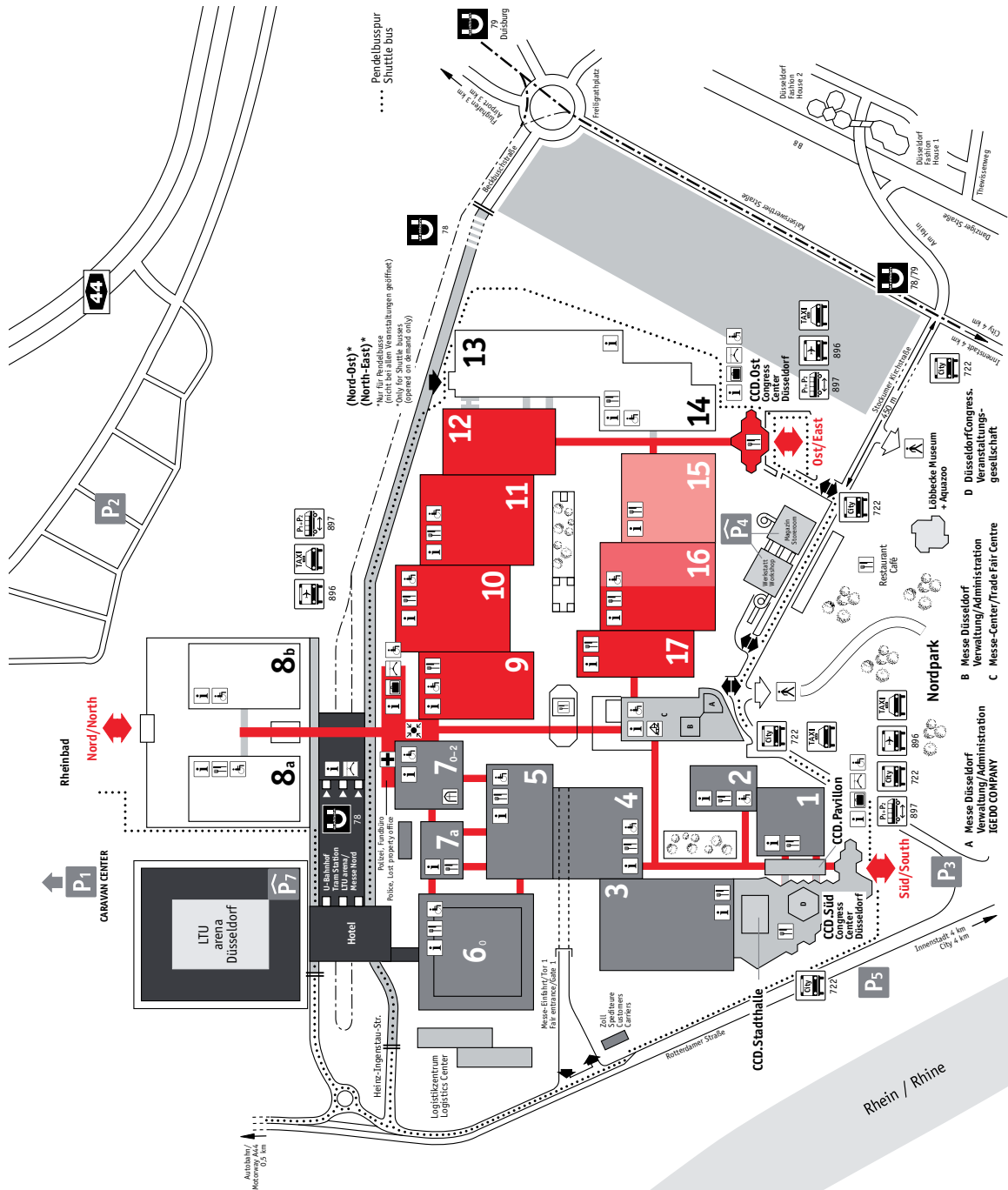
Uniformtechnik  
Fastener Technology



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www.tube.de

Hallen/Halls  
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Internationale  
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International Tube  
and Pipe Trade Fair



## IWMA enjoyed better than expected week at wire Russia 2009 in Moscow in May

Following close on the heels of a disappointing Interwire 2009 exhibition in Cleveland, USA it was with some trepidation that the International Wire & Machinery Association participated at the wire Russia 2009 trade fair in Moscow.

However, the IWMA board members who manned the Association's booth, Terry Robinson and Steve Rika, were pleasantly surprised at the level of enquiries obtained from organisations interested in the activities of the IWMA and in joining it, amounting to nearly forty-strong enquiries. In addition there was considerable interest in the forthcoming IWMA Istanbul Cable & Wire 09 technical conference. Taking place on 2<sup>nd</sup> and 3<sup>rd</sup> November 2009 in the Turkish city, the conference will be conducted in English, Turkish and Russian languages. The provision of Russian interpreting at the conference has undoubtedly heightened the level of interest.

The success of the IWMA's week at wire Russia 2009 fully vindicated its executive board's decision to continue support for the event even in these difficult economic times. It is vitally important to maintain a high profile in key world markets such as the CIS and to offer support and guidance to the industry and especially to IWMA members.

## Madem Gulf Industries launched

On 8<sup>th</sup> February at the Middle East Electricity Show, Dubai, Madem Reels Group introduced its newest member, Madem Gulf Industries WLL, located in the Kingdom of Bahrain.

Leandro Mazzaccato, Madem Group sales director said: "Our new plant will streamline our Middle East operations, and provide our customers with lowered inventories while optimising their logistics. We are absolutely confident in the eminent success of our new manufacturing unit, and our Middle East customers are looking forward to our start-up. Production will begin in May."

Madem Gulf Inc will initially produce 50 truckloads of reel kits per month, increasing to 100 truckloads per month by June. A third shift has not been counted out. Mazzaccato states that: "We could achieve 150 truckloads per month at our Bahrain facility alone, but we could also launch another manufacturing unit in another Gulf country.

"In the last 15 years Madem has enjoyed the steadfast support of our loyal Arab customers, supplying more than 80% of all imported reels in the Middle East to over 15 customers. With our new local production capability we're hoping to boost our market share of locally produced reels as well."

### Madem Reels – Brazil

**Fax:** +55 54 3462 5900

**Email:** madem@madem.com.br

**Website:** www.mademreels.com

## Ultra-productive with ultrasonic

During the production of medium and high voltage XLPE insulated power cables, melt temperature plays a critical role, affecting the quality of the product as well as the productivity of the extrusion process. Organic peroxides are used with polyethylene materials for cross-linking, and here the melt temperature is subject to tight tolerances.

In cooperation with machine manufacturer Maillefer Extrusion Oy, Sikora AG has developed the temperature measuring system Ultratemp 6000; based on ultrasonic technology Ultratemp 6000 is specifically designed for the measurement of XLPE melts.

Until now conventional methods, such as contact thermocouple sensors, have been used to measure the melt temperature. Even simple hand-held meters are utilised before starting up the extrusion line to measure the melt temperature after the crosshead. These techniques do not offer reliable measuring results, as they are contact measurements with a relatively slow response time. Moreover, they can influence the melt flow properties that may result in cross-linking.

Sikora's Ultratemp 6000 is a non-contact melt temperature measurement system based on non-invasive ultrasonic technology. It measures the melt temperature during production and does not influence the melt flow properties. With the use of Ultratemp 6000 melt shear heating errors are eliminated. It ensures homogeneous melt viscosity for the extrusion process and helps to avoid premature cross-linking after screens, which may lead to ambers and scorches in the polyethylene material.

Sikora's temperature measurement system optimises the running time and the productivity of the extrusion line.

The measuring technology of Ultratemp 6000 is based on precise high-temperature ultrasonic sensors. The adapter of the system, including the ultrasonic sensors, is positioned in the flow channel between extruder and crosshead. In contrast to conventional methods, the ultrasonic sensors do not influence the polyethylene melt flow because the sensors are outside the flow channel. In consequence, the sensors do not affect the extrusion process, even if they have to be exchanged.

The extremely high measuring rate allows a fast response time as well as the registration of small temperature variations. Hence, Ultratemp 6000 is an efficient partner in wire and cable production. This system supplies an important step for further process optimisation and cost reduction.

In all production lines Ultratemp 6000 can be combined with the display and control systems Ecocontrol 600, 1000 and 2000. The processor systems display numeric and graphical process information with analysis tools such as trending and statistical process control analysis. Ecocontrol models offer continuous monitoring of the measured values. Alternatively, Ultratemp 6000 can be delivered with a Profibus-DP interface.

**Sikora AG – Germany**

**Email:** sales@sikora.net

**Fax:** +49 421 489 0090

**Website:** www.sikora.net

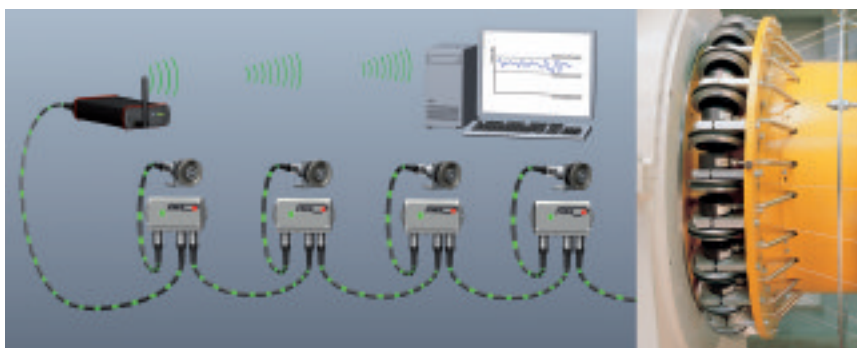
## Tension control and monitoring

Wire and cable makers now have an affordable way to monitor and control tension in individual wires on rotating machines. This technology by FMS is called Radio Transmitted Tension Monitoring (RTM) and is believed the first radio transmitted system in the world designed specifically for the wire and cable industry. An RTM system can be easily applied on most planetary or tube stranders, bunchers, twisters, or any rotating machinery.

The RTM system sends the signals by radio transmission thus avoiding the many drawbacks of mechanisms such as slip rings (cost, wear, signal noise, installation issues) and telemetry systems (unidirectional analogue data transmission, multi-positional prohibitive cost). RTM technology is also secure and stable using industry standard Bluetooth technology for signal transmission. Packages can be configured to handle nearly any tension measurement or control task. The monitoring system comprises tension sensors, tension measuring amplifiers, a bus system with radio transceiver, and software. All of the components are specially designed by FMS for rotating applications (not affected by centrifugal and coriolis forces based on accelerations up to 40g). A wide range of tension sensors is available for any tension requirement, and if closed loop control is required, digital controllers are used instead of measuring amplifiers.

The RTM System is powered by 24VDC and is reliable, accurate, economical, easy to operate, and virtually maintenance-free. The RTM rechargeable battery power pack option comes in three different sizes (and power duration), includes a power monitoring system, and is easily combined with the signal transmitter on one plate for easy mounting. The transmitter sends the power signal to the PC for onscreen display of the remaining battery life. Battery life depends on the number of sensor positions on the machine but the battery power packs are designed to produce a minimum of one shift of power (8 hours).

The system can easily be used with existing equipment as it bolts down in a small footprint, utilises standard FMS load cells and amplifiers, and runs on PC software so a new PLC installation is not required to utilize the system. The RTM system digitally monitors tension in real time on up to 32 individual positions and displays the values on a PC screen. The software also includes data logging for each position and records minimum and maximum values for quality assurances purposes. There is also an option available to log data based on feet or meter measurements. Tension control is easy using the PC or an output card. The amplifiers or controllers can be parameterised from the PC. Controller parameters can be adjusted from the PC while the machine is running. The system can be set-up to provide a warning signal or output or stop the machine immediately in case of a wire break.



▲ The RTM system from FMS

It is estimated that the RTM system can pay for itself typically in one to two years by reducing material breaks and eliminating oversteering and excessive slack in wires and cables. Therefore overall finished product throughput is increased. The RTM system also improves the overall quality of the products produced and can open a wire and cable manufacturer up to new markets that demand documented and verifiable manufacturing condition products.

**FMS Force Measuring Systems AG – Switzerland**

**Fax:** +41 44 850 60 06

**Email:** info@fms-technology.com

**Website:** www.fms-technology.com

## Cold welding from China

Shanghai Shenchen Wire & Cable Equipment Co Ltd is a specialised producer of cold welding machines, having independent research, development, production and sales abilities.



▲ Bench mounted cold welding machine

SCH cold welding machines will handle copper wire from 0.06mm to 25mm diameter, aluminium wire from 0.08mm to 35mm and flat cable with a maximum width of 33mm and minimum thickness of 0.45mm. SCH equipment is of a high quality for cost-effective productivity, and the company is continually researching and improving its range to remain at the forefront of the industry.

**Shanghai Shenchen Wire & Cable Equipment Co Ltd – China**

**Email:** schsc8@yahoo.com.cn

**Website:** www.sch.chinacable.com.cn

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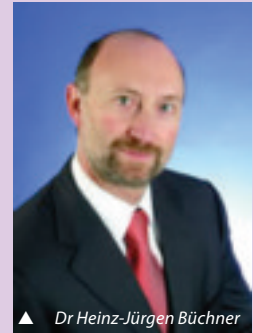
**Website:** www.wirefirst.com

## World-leading expert to be keynote speaker at Istanbul Cable & Wire '09

Dr Heinz-Jürgen Büchner is vice-president of economics and research at the IKB Deutsche Industriebank AG in Düsseldorf. He has been with IKB since September 2000 having previously been at the Landesbank Rheinland-Pfalz at Mainz. From 1981–1987 he was an assistant professor in the Economics department of the University of Bonn, having received his Ph.D with a dissertation on the 'Economic theories of tax evasion.'

His important keynote address is entitled: 'Recovery of the world economy: consequences for capacities and prices of metals.' This presentation will provide all delegates with vital expert opinion on how the severe economic downturn of 2008/2009 is expected to impact on the metal industry.

A compact version of the conference brochure is published in the centre four pages of this newsletter and the full six page version, including a hotel booking form, can be viewed and downloaded from the IWMA website [www.iwma.org](http://www.iwma.org)



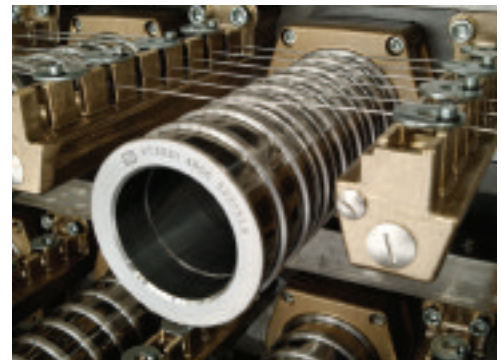
▲ Dr Heinz-Jürgen Büchner

## Aluminium automotive wire drawing and bunching technology

In order to save weight, leading car manufacturers are planning on replacing copper conductors, of 6mm<sup>2</sup> to 50mm<sup>2</sup> cross section, with aluminium conductors. The production equipment for aluminium wires – drawing lines, payoffs and bunching machines – must meet added and more difficult demands. Maschinenfabrik Niehoff has recently developed new aluminium multi-wire drawing and annealing technology.

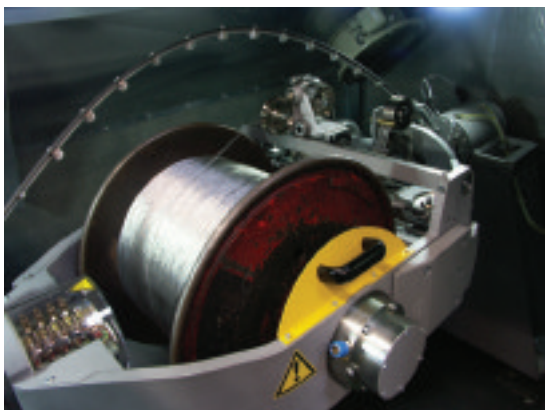
Experience of the MH 120 type 2-wire intermediate drawing line with integrated RA 200 annealer, developed for drawing of up to 30 different aluminium alloys wires, has helped the design of the MMH 104/RMA 201 type multiwire drawing and annealing line. The line is designed for the simultaneous drawing of eight or sixteen aluminium or aluminium alloy wires from a maximum inlet diameter of 2.5mm to a finish diameter of 0.15 to 0.6mm with inline annealing and can work with a maximum speed of 31.5 m/s. The wires have highly homogeneous characteristics to meet the strictest specifications and processing requirements.

The MMH 104 drawing machine can be used with different drawing lubricant supply systems and operated with drawing oil or drawing emulsion for a clean operation. Further features include special die holders and built-in drawing capstan sprayers tailor-made for the specific requirements of aluminium wire drawing and a vacuum system for extracting oil mist from the drawing area and returning it to the drawing lube system.



▲ A detail from the MMH 104/RMA 201 multiwire line

The RMA 201 continuous resistance annealer is designed for aluminium and aluminium alloy wires. The two-zone annealing principle with short annealing sections promotes economical and ecological energy consumption. The entire wire section from the final die in the MMH 104 to the end of the annealing operation is fully sealed off from the outside. In order to avoid oxidation of the aluminium wire surface nitrogen is used as protective atmosphere.



▲ D 631 type series double twist bunching machine equipped for aluminium and aluminium alloy wires

Niehoff's D series double twist bunching machines are suitable for the bunching of aluminium and aluminium alloy wires.

The one-bow design results in a significantly reduced energy consumption and noise emission compared to conventional bunching machines. D-series machines can be equipped with bows whose geometries and coatings are specially adapted to the requirements of aluminium wires.

By means of a load cell inside the cradle, the wire tension on the spool is infinitely adjustable, monitored and controlled within tight tolerances across the entire bobbin filling.

As an option, the bunchers can be equipped with the NBAT (Niehoff bunching automatic traverse) device that automatically detects spool flanges and controls the traverse width of empty and full spools by means of optoelectronic sensors. As the spools are filled perfectly, the strands can be paid off tangle-free and without wire damages even at very high speeds.

**Maschinenfabrik Niehoff GmbH & Co KG – Germany**  
Email: [info@niehoff.de](mailto:info@niehoff.de)

Fax: +49 9122 977 155  
Website: [www.niehoff.de](http://www.niehoff.de)

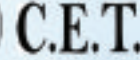


# Istanbul Cable & Wire 09

**“New Technology for Global Markets”**

**2-3 November 2009, İstanbul, Turkey**

a technical conference co-organised by:



**WOW Hotels & Conventions Center  
İstanbul Dünya Ticaret Merkezi Yeşilköy, İstanbul, Turkey**

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- **Optional plant tour**

[www.iwma.org](http://www.iwma.org)

[www.wirenet.org](http://www.wirenet.org)



# Istanbul 09 Cable & Wire

## “New Technology for Global Markets”

### A conference that is right for these times

Following on from the success of previous collaborative events in Bologna, Prague and Stresa the joint organisers WAI, ACIMAF, IWMA and CET are cooperating again in Istanbul with a technical conference carefully structured to provide great value in these difficult economic conditions.

Istanbul's geographical location, with a foot in both Europe and Asia and ease of access from all points of the compass, makes it an ideal choice for the event to attract delegates from Europe, the CIS and former Soviet Union republics, the Arab States and the Middle East, India and Africa.

### Programme

The conference will be conducted in English with simultaneous translation into Turkish and Russian. Sessions covering ferrous and non-ferrous topics will take place in two conference rooms on 2 November 2009 only, thus minimizing absences from offices and factories for all participants. Details of the provisional list of speakers are shown in this brochure with updates posted on the IWMA and WAI websites.

In addition to expert technical papers from around the globe the programme features important world and regional market overviews, essential information for all industry professionals coping with the difficult economic conditions worldwide.

The truly international nature of Istanbul Cable & Wire will provide all attendees with unrivalled networking opportunities to canvas views on the industry's prospects and developments from around the globe. All four joint organisers are confident that delegates will leave the conference even better equipped to meet the challenges and opportunities ahead.

### Conference venue & hotel accommodation

Istanbul Cable & Wire 09 will take place at the WOW Hotel and Conventions Center in Istanbul. The Center is a brand new world-class facility, situated in a quiet area close to the international airport, but not on the flight path. Joined to the Conventions Center are the WOW four and five star hotels with special delegate rates. We recommend these hotels for optimum convenience for attendees.

A metro station is close to the Center with access to downtown Istanbul and the hotels run a free shuttle bus service from the airport for guests as well as a periodic one to the heart of Istanbul. A hotel booking form can be found in the full version of this brochure on the IWMA website [www.iwma.org](http://www.iwma.org)

### Tabletop exhibits

A tabletop exhibition will support the conference and offer great opportunities for one-to-one discussions with potential suppliers. Because the number of tabletops is limited early booking is recommended. Each tabletop includes one full delegate registration, table, chair and drape. Please note that an additional charge applies for an electrical connection and this must be pre-ordered.

### Conference social event 2 November 2009

All delegates and speakers will join with those from a concurrent tube conference to enjoy a special social event at the famous Binbirdirek Underground Cistern near the Blue Mosque in the old city. The evening will include a four course dinner and traditional Turkish entertainment.

### Registration procedure

Please complete the form on page 4 and return it as soon as possible to the IWMA office. All payments must be made to the International Wire & Machinery Association and be exclusive of bank charges. Discounts apply to all registrations paid before 31 July 2009.

Payment by credit card will be accepted from delegates who complete all the details shown on the registration form including the signature of the identified cardholder. All payments will be receipted and confirmed to the registered delegates. Registrations only accepted in accordance with terms and conditions as printed on third page of this brochure

Delegate entitlement for the conference:

- Documentation
- CD-ROM of papers
- Refreshment breaks morning and afternoon
- Lunch break with beverages
- Lapel badge
- Delegate list (supplied after the conference)
- Attendance for wire conference sessions
- Social event on 2 November 2009
- Reduced registration fee for members of WAI, IWMA & ACIMAF
- Optional plant tour to Vatan Kablo

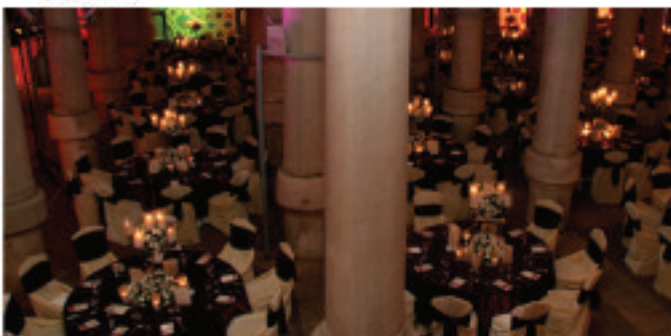
### Joining instructions

Each registered delegate will receive confirmation of registration together with a detailed timetable and programme showing the hours for re-registrations and collection of conference documentation from the conference desk on 1 and 2 November 2009. Registered delegates will not be permitted to participate in the conference unless all fees have been paid as invoiced before the start of the programme. Please note that registration for Istanbul Cable & Wire 09 does not allow access to the concurrent tube conference taking place at the WOW Conventions Center.

### Sponsorship

A key element in the planning and development of Istanbul Cable & Wire 09 is the support of sponsors to whom the co-organisers are extremely grateful:

- Sarkuysan
- Er-Bakir
- Messe Düsseldorf
- Niehoff
- Locton Ltd
- IWCEA
- WAI
- ACIMAF
- IWMA Educational Trust



▲ The Binbirdirek Cistern



## PROVISIONAL SPEAKER PROGRAMME

MONDAY 2 NOVEMBER 2009

from 09:00 hours, WOW Conventions Center, Istanbul

Dr H-J Büchner, IKB Deutsche Industriebank AG, Germany, Keynote Speech: *Recovery of the world economy: consequences for capacities and prices of metals.*

T Manabe, S Yamasaki, Nippon Steel, Japan: *Development of high strength steel wire rod for bridge cable wire with 1870 N/mm*

M Hayes, Institute of Spring Technology, UK: *On the risk of fatigue in extension spring hooks*

K Liebermann, U Kletzin, P Beyer, Ilmenau University, Germany: *Wiredrawing machines and their influence on the properties of spring steel wire*

D Tan, Sinosteel Zhengzhou Research/Fasten Group, China: *Development of high strength steel wire products*

C Y Lee, POSCO, South Korea: *Delamination behaviour of drawn perlitic steels during drawing and Zn coating*

C Coffin, D King, H Depamelaere, W Van Raemdonck, NV Bekaert SA, Belgium: *Evaluation of high temperature behaviour of Zn and ZnAl coatings on core wires and strands for ACSR, ACSS and alike overhead power conductors*

M West, Capagate, South Africa: *Zinc coat control*

G Arrighetti, Koner SpA, TKT Group, Italy: *A new system for laboratory experimentation for the profile, geometry and degree of finish of a die for optimum wiredrawing of ferrous wires*

J Burke, Chemetall, UK: *New technology for lubricating cold extrusion materials and cold heading wire*

E Bucci, Henkel Italia SpA, Italy: *Bonderlube FL – a new way to approach surface treatment*

L Facchinelli, GCR Eurodraw SpA, Italy: *Integrated one-step high-speed production line for 'low relaxation' PC wire*

R Branders, FIB Belgium SA, Belgium: *Quenching in fluidized bed for high carbon wire from 0.6 to 14mm*

S Duff, Kuwait Petroleum International Lubricants, Q8Oils, UK: *Productivity – How do you measure it?*

J Inhelder, FMS, Switzerland: *History, present situation and future trends in ensuring constant and consistent wire tension in stranders*

H Çaycı, Sarkuysan, Turkey: *Introduction and non-ferrous market overview*

B Lohmueller, Niehoff, Germany: *Reducing production costs while improving quality – from multiwire to high quality strands*

S Ozaltun, Er-Bakir, Turkey: *Development of an apparatus for determining the free tin thickness on tin plated copper wire*

A Tepiroglu, Sarkuysan, Turkey: *Leonardo power quality initiative – LPQI and Leonardo energy as applied to Turkey*

P Laurensen, Borealis Polymers NV, Belgium, J-O Boström, Borealis AB, Sweden: *High productivity and reliability of XLPE insulated medium-voltage cables*

A Molloy, D Lee, Metalube Ltd, UK: *Anti corrosion grease for overhead line conductors*

T Joumeaux, Prysmian, UK: *Fire performance of cables*

D Mangold, CeramTec AG, Germany: *Ceramics in the wiredrawing process*

M Nordman and J C Bodington, Upecast Oy, Finland: *Aluminium wire rod produced with Upecast technology*

S Harrington, Ceeco Bartell Machinery Systems LLC, Canada: *Reducing cost in manufacturing compact conductors using roll form stranding*

A Poma, E Conte, Sampisitemi, Italy: *New technology in rod and wire production*

T Kryuch, A Mamala, P Uliasz, AGH University, Poland: *Heat-resistant parameters of AlZr electrical alloy wires for HTLS conductors*

K Yoshida, T Shinohara, Tokai University, Japan: *Analysis of surface flow on drawn wire*

### Terms & Conditions

All registration fees must be paid as invoiced before 2 November 2009 and all payments must be to the full currency amount excluding bank and exchange charges as shown on the registration and booking forms. Group registrations will qualify for one free registration for all parties of 10 or more.

No cancellations or refunds will be accepted after 9 October 2009. All cancellations must be in writing and received by the organisers before 9 October 2009. 50% of the registration fee will be refunded for cancellations received between 20 August-9 October 2009. Written cancellations received before 20 August 2009 will be refunded to the full amount of payment received.

The organisers reserve the right to vary and re-schedule the papers programme according to the availability of papers and speakers. The organisers reserve the right to refuse participation of delegates at the conference without assigning any reason thereto.

The organisers accept no responsibility for the claims and accuracy of technical content of printed papers or spoken work by the author and presenters of papers or any other claims made by attending corporations or personnel at this conference.

The organisers will accept no responsibility for the safety and security of persons or their property whilst attending this international conference and the organisers, their sponsors, agents, managers or representatives will accept no claim for refund or damages or other type of claim for persons attending or participating at the conference.

These conditions are deemed to be accepted by any person or corporation having signed the booking form issued by the organisers or using their own order or registration documentation to be received by the organisers for this event.

Confirmation of registration issued by the organisers is issued only on the understanding that applications and participations at the Istanbul Cable & Wire 09 conference are accepted on these conditions.

## CONFERENCE REGISTRATION FORM

Please print in CAPITALS:

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Zip/Postcode: \_\_\_\_\_ Country: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Authorised Company Signature: \_\_\_\_\_ Date: \_\_\_\_\_

REGISTRATION FEES		Euro (before 31 July 2009)	Euro (after 31 July 2009)
Registration 2 November	WAI/IWMA/ACIMAF Member & Speakers	€225	€245
	Non Member	€245	€265
Group Registration (Example)	10 for price of 9	€2,025	€2,250
Students & Academics	Non Member	€150	€175
Optional Plant Tour		€35	€40
Extra Social Event Ticket	WAI/IWMA/ACIMAF Member & Speakers	€75	€85
	Non Member	€80	€90
Tabletop Exhibit (Includes 1 full registration) Electric supply extra	WAI/IWMA/ACIMAF Member & Speakers	€580	€630
	Non Member	€610	€660

**SPECIAL GROUP DISCOUNT:** all parties of 10 or more delegates qualify for one FREE registration

	Regis- tration	Table top Exhibit	Plant Tour	Extra Social Ticket	Association Member	Non Member	Total
Delegate Name: _____ <small>Family Name First Name Initial</small>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	_____
Spouse/Partner: _____ <small>Family Name First Name Initial</small>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Delegate Name: _____ <small>Family Name First Name Initial</small>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	_____
<input type="checkbox"/> WAI <input type="checkbox"/> IWMA <input type="checkbox"/> ACIMAF Member <small>(please tick only if applicable)</small>		<input type="checkbox"/>					_____
							<b>GRAND TOTAL:</b> _____

## PAYMENT OPTIONS

All payments must be made to **International Wire & Machinery Association** and payable in the currency stated exclusive of bank and currency exchange charges and must be paid on or before 2 November 2009

Payment by credit/debit card  Cheque Herewith  Please Invoice

Please charge my:  Mastercard  American Express  Visa

(Please note that credit card transactions will be conducted in Pounds Sterling (£) at current €/£ exchange rates)

Card Number:                      CVV:    Expiry date:

Name on card: \_\_\_\_\_ Signature of cardholder: \_\_\_\_\_

**MAIL OR FAX THIS FORM TO: +44 1926 314755**

International Wire & Machinery Association, 46 Holly Walk, Leamington Spa, Warwickshire CV32 4HY, UK  
Tel: +44 1926 834680, Fax: +44 1926 314755, Email: info@iwma.org

## Uhing introduces 3D CAD

Design engineers will be familiar with this issue: it is often tedious to integrate third-party components into a larger system. By taking the step from 2D to 3D, Uhing KG makes work easier for both the in-house CAD department and also for the customers' design engineers. Uhing used a 2D CAD software above all capable forming variants for a long time. This system made it easy for design engineers to assemble modules and to reuse them in drawings for other products. The 3D functions of the software were restricted to so-called wire models and proved to be insufficient for complex constructions. To solve this issue, Uhing began looking for a CAD solution capable of perfectly showing even complex systems in 3D. The chosen package was SolidWorks®, already used by over 500,000 engineers, scientists and students across the world.

All Uhing drawings are now being migrated to SolidWorks. Drawings for the following rolling ring products are presently available in 3D: KI3-15-6MCR, AKI3-15-6MCRW, RG3-30-2MCRF, ARG3-30-2MCRF, RG4-30-2MCRF and ARG4-30-2MCRF.

"It is part of our service to provide drawings to all customers worldwide so they can optimally integrate them into their own designs," says Uhing's marketing head Wolfgang Weber. "3D has become the standard in design and development environments. Being an innovative enterprise, we think it is natural to use this standard for our own purposes and to also let our customers take advantage of it." The 3D data generated by SolidWorks are perfectly compatible with the CAD systems of customers. "There are many interfaces to other applications. This makes it easy for our design engineers to export 3D data in the required file format," says Uhing's technical head Burkhard W Bohn, explaining the benefits of the new software. Some of these formats are Step AP203, Step AP 214 or IGES, but

also Microsoft XAML, 3D XML, TIF or JPEG and various Adobe formats. Bohn points out another major advantage: "Our customers can rotate and scale the 3D drawing of our products to make them fit optimally to their respective drawing, both with regard to position and size."

SolidWorks allows Uhing design engineers to test components, for example with the finite element method, and to visualise stress peaks in cross sections of any shape at a given load. This results in an optimised materials usage and reliability. For Uhing and its customers, the advantages of the new CAD solution are not restricted to the engineering sector. In cooperation with the Kiel University of Applied Sciences, the enterprise uses rapid prototyping to quickly and easily produce prototypes for new products.

The partners at the University of Applied Sciences feed the 3D CAD data to a 3D printer using a special powder and a laser sintering method to generate functioning components. For design engineers as well as existing and future Uhing customers, the resulting prototype is a concrete, tangible model of the finished product. "The comparably low costs for rapid prototyping are positively reflected in the overall costs for product development," says Wolfgang Weber. "Based on this procedure, we can cut down our reaction time for developing new components and products considerably and thus meet the demands for fast solutions voiced by more and more customers."

**Joachim Uhing KG GmbH – Germany**

**Fax:** +49 4347 906 40

**Email:** sales@uhing.com

**Website:** www.uhing.com

## Members not deterred by very testing weather conditions at IWMA Golf Day

IWMA folk are made of sterner stuff than most, as was evident at the IWMA Golf Day on 10<sup>th</sup> June 2009 at the beautiful Fairhaven Golf Club in Lytham St Annes, UK. Although the competition began in bright sunshine the weather soon closed in and the players had to withstand long periods of torrential rain.

This did not deter the vast majority of players, including for the first time a ladies section, from completing the course. Some good scores were achieved in the Stableford competition despite the weather.

The Guest Shield was won by Mr P Ladums whilst a popular winner of the Chairman's Cup for members was Mr S Rika. The prize for best ladies score went to Mrs B Dagnall.

## Taping and extrusion lines

Fine International Corporation is a worldwide supplier of wire and cable machinery. Fine International offers complete vertical taping systems for traverse wound tape cobs. Units are available in 1- or 2-head configurations and come complete with payoff, taping head/s, capstan and take-up.



▲ Dual head vertical taping system

Units are typically utilised for aluminium laminate and mica tapes. Custom units are available for use with PTFE (including sintering ovens) and other materials. Each unit features automatic tape tensioning build down compensation and can accommodate wire sizes up to 7mm diameter.

Fine International offers an extensive range of equipment including complete extrusion lines for general thermoplastic and foamed thermoplastic materials, high speed rotary braiders, vertical braiders, taping and binding heads, various design payoffs (static and driven), extruders (low and high temperature designs) tempered/chilled water trough systems, various capstans (belt, dual drum, wet, linear) accumulator/dancers, various take-ups (shaft, shaftless parallel axis, portal), inductive pre-heaters, planetary stranders, reel and reel-less packaging equipment and TIG welding and corrugating lines.

Fine International will next be exhibiting at the wire 2010 show in Düsseldorf, Germany.

**Fine International Corporation – USA**

**Email:** finesales@gmail.com

**Fax:** +1 615 658 1988

**Website:** www.fineinternational.com

## Importance of wire/Tube Southeast Asia 2009 – the economic background



wire and Tube Southeast Asia 13<sup>th</sup> – 15<sup>th</sup> October 2009 are timely exhibitions for the industry. The following report provides valuable background information for organisations considering participation or who are already committed to exhibit at the trade fair.

### Thailand

Despite the current economic slowdown, new opportunities for investments still exist, as intermediate and long-term prospects for industries such as automotive and electronics remain strong. The new Thai government aims to strengthen its industrial sector globally by increasing production efficiency, reducing costs, and increasing value added capability.

A report in March 2009 revealed that new investment applications of over 141 projects worth 108 billion baht (US\$3 billion) were received. Investments in the service and infrastructure totaling 92.5 billion baht (US\$2.6 billion) were the highest among all industries. The government is also said to be encouraging the private sector to invest in large projects such as steel industries, petrochemical and alternative energy. Investment expansion plans for 2009 are expected to be worth over 88.8 billion baht (US\$2.5 billion), mainly in electrical and electronics, automotive and metal, service and infrastructure and agricultural sectors.



▲ Bangkok International Trade & Exhibition Centre (BITEC)

Thailand has a diversified range of industries including automotive, agricultural and manufacturing, among others. There are about 50,000 companies in the machinery and metalworking industry. Thai entrepreneurs have taken advantage of the country's strategic location and ASEAN membership to transform the country into a Southeast Asian hub for machinery and parts, which now rank as Thailand's eighth largest export, valued at over US\$ 8 billion a year. About 30% of Thailand's machinery and parts are now exported to fellow ASEAN member nations.

While the domestic low-end machinery and parts market is thriving, the high-end side of the industry is still limited. There are only a few large companies, all foreign-owned, and due to the limited domestic supply of high-end machinery and parts, downstream

Thai industries have to rely on imports. From 2003 to 2007, imports for machinery and parts rose 60%. The heavy reliance on imports and existing demand for more sophisticated machinery provides ample opportunity for suppliers in this industry to expand further. Thailand is ASEAN's leading producer of electrical appliances, ranking as the world's fourth largest producer of air-conditioning units as well as a major producer of refrigerators and televisions.

AB Volvo is set to expand its investment in Thailand following its purchase of an automobile assembly plant in Samut Prakan. Thailand is to become the regional manufacturing hub for Volvo trucks and buses. With more emphasis being placed on the production of eco-friendly cars, companies such as Suzuki are investing 9,500 million baht (US\$267 million) in eco-car assembly targeted at an annual production of 138,000 units per year for export mainly to Asia, Australia and Africa. Siam Nissan will invest 5,550 million baht (US\$156 million) to produce 120,000 units per year, also mainly for export purposes. Production will commence in 2010. More companies are expected to produce eco-friendly cars in the immediate future.

Demand for construction machines is expected to grow, due to the number of public investments in infrastructure and road building projects. Automotive and auto parts firms are the largest purchasers of machine tools. There are a limited number of Thai companies manufacturing machine tools; most of the demand is met by imports, which totalled US\$1.525 billion in 2007. Demand for computer numerical controlled (CNC) machine tools is expected to grow.

Special incentive packages have been announced to stimulate investment in specific activities in industries including broadcasting and telecommunications equipment, rail and electric rail, steel pipe and infrastructure concrete. Incentives include exemption of import duties on machinery, 8-year exemption on corporate income tax, 50% reduction on corporate income tax for 5 years, double deduction of transportation and utility costs (electricity and water) for 10 years, 25% deduction of infrastructure, installation and construction costs in addition to normal capital depreciation.

Thailand is aiming to improve its national infrastructure by developing a nationwide dual track train system and expanding the country's network of roads. Three of its rapid transit mega projects in Bangkok, worth a total of 211.99 billion baht



(US\$6 billion), will commence in 2009 and are expected to complete in 2013. This will present tremendous opportunities to the wire and tube industries. The second development phase of Suvarnabhumi Airport was approved by on 21<sup>st</sup> December 2008 by the National Economic and Social Development Board (NESDB). The expansion, worth 76.4 billion baht (US\$2.15 billion) will be under construction from 2009 to 2014. This will increase the airport's annual capacity to 60 million passengers.

## Vietnam

Vietnam has become a significant country in the region since the economic liberalisation of the mid-1980s. Its recent growth in GDP is second only to China. The resulting pressure on the infrastructure has caused a tremendous demand for expertise in railway and sea port development.

There are plans to upgrade Vietnam's 3,000 kilometre rail network, including six new metro lines in Hanoi and Ho Chi Min City and a high speed intercity link. The seaport developments, with a six year budget of US\$4.5 billion, include ten port upgrades, new coastal shipping fleets and the modernisation of communication systems.

## Malaysia

Growth is expected to be 3% in 2009 with a government stimulus package of at least US\$2 billion. Important sectors are defence, oil and gas, engineering, aerospace and environmental services.

## Indonesia

Indonesia is the fourth most populated country in the world with the largest economy in Southeast Asia. Such is the expected growth of its economy it is predicted to become the world's seventh largest by the middle of this century. Key areas of interest to our industry are oil and gas, engineering, environment and infrastructure.

## Conclusion

There is no doubt that exciting opportunities for our industry exist in Thailand and the region and wire/Tube Southeast Asia 2009 will be an important gateway to these. Any organisation making a late decision to exhibit should contact the IWMA Secretariat to find out about space availability and the great value 'Orchid' exhibitor packages.

## Another line to Electrocab

PS Costruzioni Meccaniche Srl has been awarded a further contract with Electrocab, a cable manufacturer from the Emirates. The contract consists of four automatic winding machines, both coiling and spooling. Two PS machines are to be installed at Electrocab's branch in Saudi Arabia, while the other two are destined for Cablet Djazair's plant in Algeria.

The contract includes a fully automatic double-headed spooling line, model PS 200/6-B. It can produce four, 100 metre-long, spools per minute; cable cross-sections can vary from 0.65mm<sup>2</sup> to 6.53mm<sup>2</sup> (American wire gauge from 19 to 9).



▲ The PS Costruzioni model PS 200/6-b spooling line

Model PS 470/16 is suitable for flexible cables from 5mm to 16mm diameter; solid cables from 5mm to 10mm diameter with a production of 3 coils of 100m long per minute. It can also wind flat cables and can be equipped with automatic tension control for telephone cables.



▲ The management team at PS Costruzioni

The enhanced features are most noticeable in regard to the restart time between a wound-up spool and an empty one: while the first spooling head is winding the cable, the second head has completed the winding cycle thus enabling the final spool to automatically proceed to the palletising area.

Two winding heads work simultaneously, enabling users to double their production rate. The contract also comprises two automatic coiling machines. Model PS 350/8-3 is suitable for flexible cables from 2mm up to 8mm diameter; solid cables from 2mm to 4.5mm diameter, with a production of 6.5 coils of 100m long per minute. It can also wind flat cables.

## Moving to lower borax

Among the latest European regulations governing REACH and the use of biocides are moves to reduce the use of borax. For some wire drawing processes, borax has been an important additive, specifically for the formulation of soluble sodium soaps.



▲ Condat's Vicafil TN1630 for high carbon wire drawing

In order to meet with the new regulation Condat has developed a range of dry drawing lubricants without borax or with much reduced borax content.

Vicafil TN 1630 is a soluble sodium soap with very low borax content (below the limit planned by the European Commission) but said to provide improved performance even in severe high carbon steel wire drawing operations.

Testing of the product has shown that the advantages of working with Vicafil TN1630 include:

- Higher softening temperature allows work at higher speeds
- Higher adhesion to the wire surface results in improved lubrication, die life and wire surface quality
- Reduced consumption, due to the reduction of compacted black soap in the die box, improves productivity
- Reduction of dust gives a healthier work environment

Vicafil TN1630 is available as a medium powder, or as medium or large beads.

**Condat SA – France**  
**Email:** info@condat.fr

**Fax:** +33 47807 3885  
**Website:** www.condat.fr

## New Indian agency for Uhing

A sales partnership contract for a second Uhing agency in India, LMI India (P) Ltd, came into effect on 1<sup>st</sup> January 2009. "The Indian market is developing very fast," explained Uhing's head of marketing, Wolfgang Weber. Following a recommendation, Weber met Mohan Pandit – owner of LMI India (P) Ltd – at the Wire & Cable Fair at Mumbai in November 2008. A seller of product identification solutions and non-contact measuring systems the company, headquartered in New Delhi, has made its mark in the wire and cable as well as the process industries.

The new partner is familiar with German business culture, having been a sales partner for another German company for some years, and will act as an agent for both German companies since the product portfolios complement each other. "In addition to all these advantages, our new Indian business partner convinced us with his high expertise and enormous proactivity," points out Weber. LMI India has offices in Mumbai, Chennai, Hyderabad, Jamshedpur and Surat, ensuring that LMI India employees and existing and future customers will always be within easy travelling distance.

**LMI India (P) Ltd – India** **Fax:** +91 11 2536 5995  
**Email:** info@lmiindia.com **Website:** www.lmiindia.com

## IWMA 'Weekend in London' still tremendous value for money

The IWMA's annual dinner dance in London is always eagerly anticipated and this year's event takes place on Friday 27<sup>th</sup> November 2009 at the superb Royal Garden Hotel in High Street, Kensington.

Many members and their guests take the opportunity to extend their stay at the hotel and enjoy a full weekend in London. The IWMA Executive Board has decided to maintain the same great value prices for this year's weekend as in 2008. If any members have not received or have mislaid the booking form they should contact the Secretariat.

## Red Sea Cables selects InnoVites

InnoVites BV, a software development company with offices in India and The Netherlands, has announced that Red Sea Cables (ResCab) has selected InnoVites for Cable® as its ERP solution.

After a thorough evaluation, the ResCab management selected InnoVites for Cable, based on the specific functionalities for the industry and the industry-specific best practices that are part of the solution.

InnoVites will work with a local partner, INC Technologies, to implement InnoVites for Cable and to provide integration to CableBuilder®, the cable design software from Cimteq Ltd.

ResCab is an innovative company that will commence its operations in Saudi Arabia in Q3 2009.

The ResCab management decided to support its starting operations with a modern and complete business solution, wanting to benefit from the industry best practices that are fully supported by the software.

Hamad Alsourayia, managing director of ResCab, comments: "ResCab is an innovative company that invests in high-end technology. We look for partners that can help us to use this technology in our specific business. InnoVites demonstrated a deep understanding of the industry, and this has materialised in ERP software with an excellent fit for our business processes."

Mr Alsourayia added "I am confident that InnoVites and INC Technologies will help us benefit from this investment in innovative IT."

Albert Groothedde, CEO for InnoVites, adds: "We can deliver tangible business value to ResCab by streamlining all business processes in the company. It is great to have an innovative company such as ResCab as our customer, and we are looking forward to a long-term business relationship."

**InnoVites – Netherlands**  
**Email:** info@innovites.com

**Cimteq – UK**  
**Email:** info@cimteq.com

## Dimensional measurement for manufacturing

Zumbach offers a complete line of modular, single axis ODAC® laser gauges, available either mounted on a rail or as components with separate sender and receiver units for flexible installation in any position.

Using high precision, telecentric optics, it is possible to mount sender and receiver units at a distance to each other (depending on the model, up to 3m/10ft).

This enables multiple sender/receiver pairs arranged in the same measuring level, thus offering a multi-axis measurement.

With almost unlimited installation and configuration possibilities, these gauges can be used in most manufacturing processes, including the extrusion of cables, hoses, and profiles or in the steel and metal industries for drawing, grinding, cold and hot rolling of rods and tubes.



▲ ODAC® dimensional gauges on rails or as components

### Advantages:

- High scan rate, depending on the model up to 2,000/s
- Accurate
- Compact and rugged design
- Various measurement modes: diameter, gap width, depth penetration or multiple measurement
- Special beam geometries available (depending on model):
  - Narrow beam for contour measurements
  - Parallel beam for profiles and similar
- Models with integrated processor (RS, Ethernet, Profibus DP)

**Zumbach Electronic AG – Switzerland**

**Fax:** +41 32 356 0430

**Email:** sales@zumbach.ch

**Website:** www.zumbach.com

## Report from Institute of Spring Technology (IST) on training courses in China sponsored by the IWMA Educational Trust Fund

Two training courses were held in China during week commencing 15<sup>th</sup> April. The first, in Shanghai, attracted an audience of nearly 70 delegates, mostly spring manufacturers from the automotive and railway sectors, and the second, in Dongguan, attracted nearly 40 spring manufacturers from automotive, electrical and electronic industries.

Both courses were of two days' duration, and were very well received, with delegates continuing to ask questions into the evening of the second day. Even Chinese spring experts who attended acknowledged that they had found the courses useful and had learnt from them. Dr Zhou Wei, Wintime Guilin was the interpreter, and Mr Mark Hayes, IST was the lecturer.

At the end of both courses there was a call for these courses to become an annual event. It was further proposed that next year's courses should concentrate on more advanced compression spring design on day 1 and on spring failure and prevention on day 2. The sponsorship of the IWMA Educational Trust for this year's events is gratefully acknowledged; the funding enabled the courses to be offered for 500RMB (£50) per delegate, which only covered the cost of hotel meeting room hire and the food provided.



Both IST and Wintime (IST's agent in China) need to generate sales to justify making this an annual event, but both companies are convinced that there is significant potential to achieve this end. IST offers all its services to the Chinese market, but believe the greatest potential for sales lies with in-house training in China (from 2010), CAD design software in Chinese, and spring failure analysis services.

**Institute of Spring Technology Ltd – UK**

**Email:** m.hayes@ist.org.uk

**Fax:** + 44 114 252 7997

**Website:** www.ist.org.uk

## IWMA Educational Trust Fund news

Over a number of years the Fund has offered trainees, apprentices and students, pursuing or planning careers in the wire and cable industry, a golden opportunity to attend the industry's pre-eminent exhibition, wire Düsseldorf, held every even year and organised by Messe Düsseldorf.

The John C Hogg Travel Award always attracts a good number of applicants from around the world and anyone interested in applying, or who knows an individual who might appreciate such an opportunity to visit the 2010 event, can find full details and an application form on **pages 31 and 32**.

Trustees of the Fund are very grateful to Messe Düsseldorf who generously provide complimentary season tickets and free catalogues to awardees.

## New business division

The high technology company DSE A/S in Horsens Denmark has established a new business division as part of its growth strategy. The new division, entitled DSE Global Product division (GPD), covers the business areas of biomass and enamelled wire, areas that were previously part of the DSE Test Technology division.



▲ Jorgen Kjaersgaard will head the new Global Product division

Jorgen Kjaersgaard has been appointed division manager for the new business division. Jorgen recently celebrated his 10<sup>th</sup> anniversary with DSE and has been a driving force behind the DSE Test Technology division's sales success – in particular on export markets.

The strategy behind the new division is to increase focus on biomass and enamelled wire, and ensure continuing success in export markets and the development of new products for these two market segments.

"We have a new product – the TD5 – ready for sale to the enamelled wire industry.

"Both DSE and our customers have high expectations for the new product, which is an incremental development of the existing Tangent Delta product portfolio," said Jorgen Kjaersgaard. "Within biomass there is high focus on CO<sub>2</sub>-neutral energy sources at the moment, not only in Denmark but in the whole of Europe where we see a massive interest for building power stations based on biomass fuel.

"Denmark has been a pioneer in this area, where DSE has supplied moisture measurement systems to the Danish power stations. Therefore, we see a good opportunity for selling our moisture measurement systems to many of the new export markets around Europe," he continued.

Concurrent with the establishment of the new division, Peder Lomborg has been appointed vice director for business development (whilst maintaining his current position as division manager of the DSE Test Technology division).

This new position in the company will help ensure that the synergies in DSE's three business divisions (airport, test and global divisions) are captured and used to propel further growth.

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### IWMA again to sponsor Wire & Cable India 2010, Mumbai, 18<sup>th</sup> – 20<sup>th</sup> November

Following the IWMA's successful collaboration with the Confederation of Indian Industry (CII) at Wire & Cable India 2008, the association will sponsor the third edition of the exhibition, which will be held at a different venue, the Bombay Exhibition Centre, Goregaon (east).

Background to the exhibition, as well as comments about the previous event, appear on **page 26**. Any IWMA member wishing to exhibit at the trade fair can take advantage of a very special discount if booking as part of the association's exhibitor group. Please contact the IWMA Secretariat for more details or visit the website [www.iwma.org](http://www.iwma.org)

## Tri-wire's first twenty one years

Tri-wire Ltd (A Nexans Group company) is celebrating 21 years since it started producing copper wire products in 1988. A core supplier to the wire and cable industry within the UK and Ireland, the company continues to develop its manufacturing capabilities and product range to meet the needs of a diverse and demanding client base.

Operating from a purpose-built factory located in the heart of West Yorkshire, Tri-wire harnesses the skills and expertise of a flexible and experienced workforce who are focused on continuous improvement throughout the organisation, providing a consistent quality product – on time and in full. Conveniently situated at the hub of the UK motorway network, Tri-wire works in partnership with major hauliers to handle the supply of materials swiftly and securely.

General Manager, Henrik Desfontaines commented: "Flexibility has played a key part in our continued success. Customers have come to expect competitively priced, quality products with lead times to match and we are continually up against changing market forces." He added: "By adopting a philosophy of constantly seeking best practice techniques within our organisation and being visionary in structuring new operating methods and procedures, our results clearly demonstrate success in enhancing our levels of manufacturing performance."

Tri-wire produces single-end wire from 3mm down to 0.2mm in plain copper and 2.4mm down to 0.2mm in tinned. Multi wire range is 0.46mm down to 0.1mm, both plain and tinned.

Bunched and stranded products range, including Unilay and smooth-bodied varieties, from 0.22mm<sup>2</sup> up to 10mm<sup>2</sup> utilising a maximum of 120 wires either plain or tinned. Braiding wire can be supplied on a variety of bobbins from 3 to 16 wires – 0.46mm down to 0.1mm plain or tinned.

Utilising stators, a wide range of DIN metal and plastic spools or spool-less packs, Tri-wire believes it has a packaging solution for all needs.

**Tri-wire Ltd – UK**  
**Fax:** +44 1924 220098  
**Website:** [www.nexans.co.uk](http://www.nexans.co.uk)



## Upcast® technology celebrates its 40<sup>th</sup> anniversary

The success story of the original Upcast technology has continued for 40 years. It began in the late '60s in Finland, when many commercially available casting methods for copper and copper alloys were in use at Outokumpu's Pori Plant. Casting directions were typically downward or horizontal and the cast products were large in cross-section, requiring numerous downstream steps in further processing. A decision was made to look for a way to cast rod or tube that was closer to the size of the final product. The initial development work culminated with the first successful upward test casting on 6<sup>th</sup> November 1968, which is taken as the official birthday of Upcast technology.



▲ The invention's birthday is taken to be the day of the first successful test casting, 6<sup>th</sup> November 1968

The technology has come a long way since its creation and development work is continuous. Upcast technology, supplied today by Upcast Ltd, has established itself as a leading continuous casting system for oxygen-free copper and copper alloy rod production with more than 170 units sold to date, representing a total annual capacity of around 1.5 million tons.

Upcast is available in both single- and double-furnace configurations. Single-furnace lines are compact units built around a combined melting/holding furnace while double-furnace lines consist of separate melting and holding furnaces connected with a short launder. Single-furnace lines can easily be expanded to double-furnace configuration. Maximum outputs are 12,000TPA and 40,000 TPA for single- and double-furnace configurations respectively.

Among the numerous advantages of using Upcast technology are:

- Top quality copper wire rod with excellent draw-ability and surface finish
- Possibility to cast different rod sizes and easy variation of product mix/output
- Advanced control system enabling one-man operation
- GREENerCAST technology minimising energy consumption
- Reliability built on over 40 years of operational experience

Upcast copper wire rod is suitable for all electrical applications and has become a preferred feedstock in:

- Fine and multi-wire drawing where ductility requirements are demanding
- Magnet wire production where surface finish is of utmost importance
- Continuous rotary extrusion where tool wear is critical

**Upcast Oy – Finland**

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**Email:** [info@upcast.com](mailto:info@upcast.com)

**Website:** [www.upcast.com](http://www.upcast.com)

## New appointment for CIS countries

Gauder Group has announced the extension of Maillefer's contract to represent its range of new rotating machines in all CIS countries.

Well-known for many years by Pourtier and Setic customers throughout the Russian Federation, Ukraine and Belarus, Maillefer SA Moscow is from now on the representative office for Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Moldova, Tajikistan, Turkmenistan and Uzbekistan markets as well, in direct collaboration with Philippe Letout, sales manager for rotating machines.

**Gauder Group – France**

**Fax:** +33 1 64 26 61 10

**Email:** [sales.pourtier@gaudergroup.com](mailto:sales.pourtier@gaudergroup.com)

**Website:** [www.gaudergroup.com](http://www.gaudergroup.com)

**Maillefer representative office – Russia**

**Fax:** +7 495 362 60 41

**Email:** [vladimir.borisevich@maillefer.net](mailto:vladimir.borisevich@maillefer.net)

**Website:** [www.mailleferextrusion.com](http://www.mailleferextrusion.com)

## Free\* one-day Bangkok seminar on 12<sup>th</sup> October 2009 to launch wire Southeast Asia 2009

The IWMA is running a one-day technical seminar on Monday 12<sup>th</sup> October, the eve of the wire Southeast Asia 2009 exhibition. It will be held in room 212/213 on the first floor of the Bangkok International Exhibition Centre (BITEC). Sponsored by Messe Düsseldorf Asia the seminar will feature a panel of expert international speakers presenting the latest ferrous and non-ferrous technology.

This year, the IWMA is providing considerable support to its member organisations and to the industry at large, and some of these cost saving benefits are outlined in the 40<sup>th</sup> anniversary editorial on **page 5**. Another mark of support in the testing current economic conditions, the IWMA has decided that the seminar will be free of charge to the first fifty delegates\* who register either in advance or on arrival on 12<sup>th</sup> October. After the free places have been allocated the cost will be a nominal 250 Thai Baht.

Details of the speaker programme and a booking form can be found on the IWMA website ([www.iwma.org](http://www.iwma.org)) by clicking on "Bangkok Seminar". Organisations interested in presenting a paper at the seminar are invited to contact the IWMA Secretariat.

On Tuesday 13<sup>th</sup> October, at the same venue, the Institute of Spring Technology (IST) will conduct a training seminar on spring making led by leading expert in the field, Mark Hayes. The training is sponsored by the IWMA Educational Trust Fund and those interested in attending or obtaining more information should visit the IST website: [www.ist.org.uk](http://www.ist.org.uk)

## New addition for PolyOne

PolyOne Corporation recently announced the newest addition to its portfolio of sustainable solutions, ECCOH™ Low Smoke and Fume, Zero Halogen (LSFOH) compounds for cables used in photovoltaic solar cells. To produce solar energy, these cells are assembled into panels that convert sunlight directly into electricity. "Photovoltaic installations are growing worldwide by about 30% annually. In many cases, growth is fostered by government subsidies and tax incentives. Responding to the market demand for solar panels, the new materials also illustrate PolyOne's commitment to sustainable technologies and specialised solutions geared toward helping customers win today and tomorrow," said Murielle Chuzeville, PolyOne's LSFOH general manager. Solar photovoltaic technology requires specific cabling systems with zero halogen, flame-retardant insulation and sheathing layers. The outer jacket must also be resistant to moisture, sunlight, heat, chemicals and abrasion. While specifications for these cables vary by region, PolyOne's ECCOH 5943 complies with TÜV 2 Pfg 1169/08.2007 (Europe), and ECCOH 5944 meets UL4703 compliance standards (North America, Asia).

With these new compounds, cable producers can overcome several drawbacks common with previous products while offering a fully compliant solution. ECCOH materials, unlike TPU and TPV-based cable compounds, can be used for both internal (insulation) and external (sheathing) layers in cable applications, allowing solar cable producers to choose a single material. In addition, ECCOH 5943 and 5944 offer a choice of crosslinking, either by dry silane or e-beam. This creates an economical alternative for producers that find e-beam costs to be prohibitive. Further, ECCOH low smoke and fume, non-halogenated, flame retardant materials offer:

- Operating temperature from -40°C up to 120°C
- Good flexibility and flex crack resistance
- Weathering resistance up to 20 years (includes resistance to moisture, UV, heat, chemicals, and abrasion)

ECCOH products are highly flame retardant, non-corrosive, offer low toxicity and smoke density, and are classified as PolyOne Sustainable Solutions. PolyOne markets and provides technical support to solar cable producers implementing ECCOH products throughout the world. PolyOne can also supply a full package solution, including dry silane for easy crosslinking, OnColor™ colour masterbatch (black, blue and red), and Smartbatch™ (colour and UV additives).

**PolyOne Corporation – USA**

**Website:** [www.polyone.com](http://www.polyone.com)

### CII's Wire & Cable India 2010

The Confederation of Indian Industry (CII) has announced its 3<sup>rd</sup> international exhibition, Wire & Cable India 2010, to take place 18<sup>th</sup> to 20<sup>th</sup> November 2010 at the Bombay Exhibition Centre, Mumbai, India. The event aims to provide a platform to showcase the latest machinery, equipment, raw materials and accessories required by the Indian wire and cable manufacturing industry. It is recognised around the world that the cautious Indian regulatory approach is the path to follow for sustainable development. The present priorities of the Indian government are in the sectors of telecom, power, engineering and automobiles, amongst others. The wire and cable sector thus has huge growth potential as demand for better technological solutions in this area is growing.

Mr Deepak Chhabria, chairman of Wire & Cable India 2008 and managing director of Finolex Cables Ltd, said in his presentation during the exhibition: "With electricity production growing at 3% per year, China and India leading in consumption and an investment of \$252 billion planned over 2007 to 2012, huge potential is seen for power cables. Also demand for fibre cable, worldwide, has increased from six million fibre kilometres in 2005 to 133 million fibre kilometres in 2008. And with the demand of mobile phones growing tremendously, demand for fibre cable will only grow in the long term."

Wire & Cable India 2008 attracted over 225 exhibitors from India and abroad, with participation from more than 125 overseas companies from 23 countries including USA, Switzerland, UK, Germany, Japan, France, Spain and Malaysia. There were country pavilions from China, Taiwan, Italy and Austria and industry support from the International Wire & Machinery Association (IWMA), Steel Wire Manufacturers Association of India (SWMAI), Electrical Cable Development Association (ECDA) and Telecom Cable Manufacturers Association (TCMA). Over 8,000 business professionals visited the event, of which 3,000 were from overseas (including Middle East, South Asia and Europe). CII's Wire & Cable India 2010 has received an encouraging response from exhibitors, with Niehoff of India, Sikora AG, Rosendahl Maschinen (India) Pvt Ltd, Ajex & Turner Wire Dies Co, MPI Machines Ltd, Assomac Machines Ltd and many others having already confirmed their participation. Italian, Chinese, Taiwanese and International Wire & Machinery Association (IWMA) pavilions have also been confirmed.

**Confederation of Indian Industry – India**  
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**Fax:** +91 22 2494 5831  
**Website:** [www.wirecableindia.com](http://www.wirecableindia.com)

### Accelerators for wire and cable

IBA Industrial is among world leaders in electron and proton accelerators for industrial applications, specialising in matching the right electron accelerator system to any wire and cable need.

The Easy-e-Beam integrated system is based on the proven industrial reliability of the Dynamitron accelerator. Crosslinked wire insulation and cable jacketing provide a high quality product that meets the highest performance demands. The self-contained Easy-e-Beam integrates the E-beam accelerator and the wire handling system, both of them being managed by a single PLC-based control system. Easy-e-Beam is a solution for manufacturers of crosslinked wire insulation and cable jacketing used in a range of applications including automotive wiring, ship building, offshore and military applications, telecommunications and data processing equipment.

IBA Industrial supplies turnkey irradiation solutions from site planning and optimisation, engineering and integration of all operational sub-systems to assistance in operation. Over 250 IBA Industrial accelerators are in use across the world, some having been in operation for more than 50 years.

**IBA Industrial – Belgium**

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**Email:** [industrial.eu@iba-group.com](mailto:industrial.eu@iba-group.com)

**Website:** [www.iba-cables.com](http://www.iba-cables.com)

## InnoVites implements CableBuilder® at Relemac Cables

InnoVites BV has announced that Relemac Cables of Delhi, India has selected InnoVites as its partner to implement CableBuilder, the cable design software of Cimteq Ltd. Relemac Cables has selected CableBuilder to improve the quality and efficiency of the design and quotation processes.

Relemac Cables, a renowned name in design and manufacture of high-performance, high-bandwidth cables and wires for telecommunications, has chosen to implement CableBuilder and make its design processes more efficient, and to produce high quality quotations with less effort. Vivek Gupta, managing director at Relemac Cables, comments: "The current market requires us to send out more quotations, at higher quality, in a shorter response time to get the customer orders. And we want to do this with the current technical and sales team. InnoVites helps us to use CableBuilder to achieve these objectives. They have a full understanding of our business and their support is very instrumental in this project."

InnoVites is the exclusive reseller of CableBuilder in India and sells and supports this solution from its Cable Competence Center in Hyderabad, India. InnoVites also develops and sells ERP software specific for cable manufacturers: InnoVites for Cable. This innovative and complete business solution is based on Microsoft Dynamics AX®.

**InnoVites – Netherlands**  
**Email:** info@innovites.com

**Cimteq – UK**  
**Email:** info@cimteq.com

## A 'reel' wind-up

Techna International Ltd has announced its appointment as UK agent for the entire range of products from Italian manufacturer, Meccanica Nicoletti srl. With an extensive and diverse product range, Meccanica Nicoletti is among the market leaders in cable winding and unwinding machinery, exporting over 70% of production.

Nicoletti's main product areas are:

- Fully automated winding and unwinding work-systems for large-volume cable distributors/handlers
- Vertical cable-drum storage, unwinding and measuring racks
- Machines for winding and unwinding, on reels, coils, coils to reels, coils to coils, reels to coils and reels to reels
- Winding and unwinding accessories for electrical wholesalers, installers and contractors
- Palletised drum racking



▲ Techna International has become UK agent for Nicoletti

'Automat 300' is a fully automated system developed in response to ever increasing customer requirements for improved cable handling efficiency to obtain the most economical cost and performance benefits. A number of work platforms carry out various automated operations include reel loading, cable de-reeling, measuring, cutting, coil-strapping and final ejection. Savings in storage space are claimed for vertical cable-drum storage racks, providing direct withdrawal, high-speed unwinding and measuring. A patented safety system permits up to five levels to a height of 5m and 10,000kg per compartment. Cable distributors, electrical wholesalers, installers and contractors are provided with everything necessary for efficient cable handling and installation, with manual, semi-automatic or automatic winders, coilers/un-coilers, storage racks and a full range of accessories.

For cable installers, contractors and electricians, the unique "TRONIC" system comprises a series of individual or multiple cable-cassettes and mobile-trolleys which are easily, manually, pre-loaded and provide a compact, clean, fully transportable arrangement allowing fast, tangle-free, multiple-dispensing of cables which, it is claimed, can cut installation time by up to 50%, with consequent cost savings. Together with its already established extensive ranges of flyers, payoffs, take-ups, and re-winders, the addition of the Nicoletti brand enables Techna to provide a comprehensive range to the UK market.

**Techna International Ltd – UK**  
**Email:** sales@techna.co.uk

**Fax:** +44 1923 219 700  
**Website:** www.techna.eu

## 8-point eccentricity measurement

Sikora's Centerview 8000 includes a non-contact gauge head to provide continuous online measurements. The 8-point eccentricity, 4-axis diameter and 8-point ovality measurements ensure the highest accuracy. The system is suitable for use in the production of coaxial cables, LAN cables, automotive and installation cables.

Sikora offers two Centerview 8000 versions, for product diameters from 0.1mm to 10mm and 0.5mm to 25mm. The Centerview 8000 combines an optical and inductive measuring technique. With the inductive measuring circuit the position

of the conductor is recognised and the gauge head automatically centred to the cable position. Guide rollers and manual adjustment are unnecessary.

The optical part of the system is based on the principle of diffraction analysis combined with pulse-driven laser diodes.

The laser diodes project a picture of the cable on the latest available CCD-line technology in each measuring axis. Within microseconds eccentricity, diameter and ovality are calculated from the image of the product. The cloud diagram is an additional visualisation of

the measurements being made on the processor system Ecocontrol. With the help of the cloud diagram the distribution of short-term eccentricity variations is shown. Each point represents an actual single value of the eccentricity with regard to amount and direction.

The overall distribution of the cloud diagram easily highlights the standard deviation of the eccentricity.

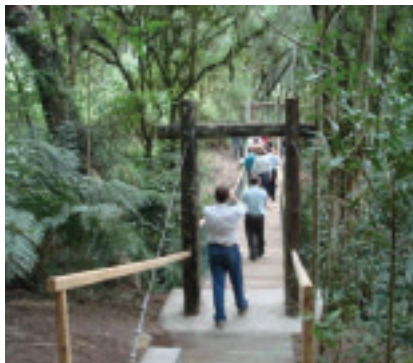
**Sikora AG – Germany**  
**Fax:** +49 421 489 0090  
**Email:** sales@sikora.net  
**Website:** www.sikora.net

## Madem establishes an ecological park

Madem was founded in March of 1949 in the city of Bento Gonçalves, Brazil. Initially, Madem manufactured wine barrels, but in 1971, it began production of wood packaging, pallets, and reels dedicated to carrying wire and cable. In 1975, the Rio Negro plant was opened to manufacture wood reels. Since the 1970s, with the launch of the Rio Negro operation, the Madem Group has been committed to sustainable development and the preservation of the environment.

Firm believers in environmental responsibility and sustainable development, Madem was the first company in the region, and third in the state of Paraná, to attain quality management system ISO 9002 in 1996, and ISO 14000 for environmental management in 2000.

Today, the company still believes in 'Going Green' and recently demonstrated this commitment to the environment by acquiring a large tract of forest beside its manufacturing plant. The 91,000m<sup>2</sup> tract of pine forest within the Paraná Pine forest shelters hundreds of species of flora and fauna, making the area very interesting from a conservationist perspective.



▲ A view of the Madem Eco Park

The aim of the Madem park is to create a leisure and recreation space to enriching the quality of life of its visitors; to support the conservation and planting of native tree species and to sustain a permanent home for the local fauna. It will also help develop environmental awareness through the proper use of the community's special environmental qualities.

The Madem Eco Park has a 3,000m trail and suspension bridge, and will be open to the public with a permit from the Agriculture and Environment Secretary.

### Madem Reels – Brazil

**Fax:** +55 54 3462 5900

**Email:** madem@madem.com.br

**Website:** www.mademreels.com

## Tapeformer turns the tables

The latest development to enhance the Tapeformer range is the new Tapeformer mounting table, launched following customer feedback.

Two sizes of the adjustable table will accommodate all sizes of Tapeformer: the smaller table will take models A to D (5mm to 75mm tape width) and the larger takes models E to G (76mm to 210mm).



▲ The new Tapeformer bench from RD Attachments

The tables are easy to install and set, with a height adjustment on entry and exit to ensure that the Tapeformer runs correctly.

Tapeformers are manufactured to individual user needs, and suit all types of cable and cable machinery.

Developed in response to a customer request, an extra long Tapeformer is now available

to fit inside the centre of a braiding machine, wrapping shielding around the cable before the braiding is applied. Any length or width of Tapeformer can be manufactured to suit the individual application. Teflon inserts can be used, to reduce tape friction, where necessary.

Tapeformers can run at line speeds of 200m per minute to ensure reliable insulating and shielding.

**RG Attachments – UK**

**Email:** info@tapeformers.com

**Fax:** +44 116 2612403

**Website:** www.tapeformers.com

## Non-contact diameter measurement on wire drawing lines

A new laser diameter measuring head has been designed especially for wire drawing or similar applications. An integrated CPU (Central Processing Unit) allows for communication with a host computer or the special USYS Multiline processor from Zumbach.

The integrated processor allows the raw measuring data to be filtered and provides SPC reporting capability of a selection of parameters and many further functions. Due to its ultra-compact size and IP 65 protection class, the ODAC® 14XY-WD can be easily integrated or retrofitted.

Typical mounting configurations:

- Compact drawing/spooling machines: in this case the measuring head will typically be mounted onto the machine block, between the drawing and spooling area, if possible between two guiding rollers
- Separate drawing and spooling machines: in this case the measuring head can be mounted on a support and measure the wire diameter between the two machine blocks

The advantages of the system include:

- Economy
- Dual axis
- Extremely accurate
- Highly immune to dirt, allowing long standing time between cleanings
- Output for local displays
- Line speed input

**Zumbach Electronic AG – Switzerland**

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**Fax:** +41 32 356 0430

**Website:** www.zumbach.com

## RESY Filtration

RESY Filtration has meant filtration products and filtration engineering, especially for the wire and cable industry, for more than 30 years.

Germany-based RESY provides products and services around the world with the single target, to optimise the drawing process of its customers.



▲ The new, space-saving Duo from RESY

Pure filtration of coolants and lubricants benefits operators with higher productivity, due to fewer wire breaks, less downtime, lower wear of the dies and improved surface quality of the wires.

To achieve these goals, RESY will provide single filters, integrated filtration systems or complete central filtration systems.

RESY recently launched a new, patented product, RESY Duo, with outstanding filter efficiency for heavy and fine filtration in one unit.

This new filter will save space and costs, while optimising the customer's manufacturing process.

**RESY/Reber Systematic GmbH – Germany**

**Email:** info@resy-filtration.com

**Website:** www.resy-filtration.com

## holton<sup>2</sup> generation continuous rotary extrusion machines

During 2008 relationships were positively developed between Holton Crest and several of the semi-finished metals sector's key players.

The design expertise of Holton's top engineers was engaged by these customers in a two-way developmental programme, culminating in the awarding of a series of equipment contracts including what is believed to be the CRE industry's largest single order.

Holton Crest can now offer existing and future customers the enhanced holton<sup>2</sup> generation of continuous rotary extruders. There are three models incorporating many new, and believed unique, features and capabilities, namely the HC1100, HC2200 and HC4000. The high-performance models are wholly European-sourced and many features can be integrated into Holton's existing products and designs for material handling, material conditioning and product handling.



▲ Holton Crest has enhanced CRE models on offer

**Holton Crest Ltd – UK**

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**Website:** www.holtoncrest.com

## Cable fault locator

Reels of rejected multi-conductor and shielded cable sitting on the production floor are an expensive problem. Defects in unknown locations must be pinpointed in order to salvage the remaining good product.

The new Clinton Model FL-20A cable fault locator finds faults accurately and quickly, without destruction to the cable. Its design incorporates a Kelvin-type Wheatstone bridge, which measures capacitance and resistance, and a 20KV DC high voltage power supply. This powerful combination gives an operator the ability to locate not just opens and metallic shorts, but also any high voltage short between conductors or between conductor and shield. When a cable shield is involved, accurate fault location can be obtained without raising the shield above ground potential.



▲ FL-20A cable fault locator from Clinton Instrument Co

Operation is simple and automatic. The operator enters the type of fault and the footage of cable on the reel using the new touch-screen user interface, then attaches the two ergonomic probe connectors to the cable with the open or short and a ground connector to the other affected conductor or shield. Once this is done, two interlock pushbuttons must be engaged by the operator to initiate the test, ensuring there is no accidental contact with high voltage.

The FL-20A begins the test and quickly locates the defect and gives the footage from the top of the reel. The FL-20A cable fault locator can test a wide range of cable lengths and sizes. Metallic shorts in cables with loop resistances as low as 0.05 ohms (typical of short lengths of building wire and power cables) can be detected.

**Clinton Instrument Company – USA**

**Fax:** +1 860 669 3825

**Email:** support@clintoninstruments.com

**Website:** www.clintoninstruments.com

## Drawing die services

NOTA Zakład Mechaniki Precyzyjnej, Poland, has over twenty years of experience in producing high quality wire drawing dies from natural diamond, PCD or synthetic diamond (Monodie 111, Sumicrystal).

NOTA's range includes:

- Diamond drawing dies of varying geometry, of which the working part is made of natural or synthetic mono and poli-cristal diamond
- Extrusion tools for the cable industry
- Diamond micropowder, powders and pastes as well as cubic boron nitride powder and titanium carbide paste
- Diamond needles
- Laser finishing and remaking of diamond dies as well as sets for multiwire drawing machines



▲ A view of NOTA's Poland factory

A modern YAG laser diamond drilling and guidance system, with a unique system of setting up the sharp material, achieves a full geometry of the wire drawing die. A laser diamond drilling system enables the company to meet all customer requirements.

**NOTA Zakład Mechaniki Precyzyjnej – Poland**  
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**Website:** www.nota.pl

## Cabledrums in new markets

August Hildebrandt has developed a new construction design for wooden drums, now producing wooden drums with a maximum loading capacity of 50,000kg.

This new design has been developed in co-operation with Prof Dr G Jahnke of the University of Wismar. With this new feature August Hildebrandt Cabledrums provides a new area of wooden drums, able to replace steel drums for offshore, umbilical systems or high voltage projects with greater length and weight of cable.

August Hildebrandt has successfully completed a large project for 64 wooden drums of 40t capacity for one of the leading manufacturers of umbilical systems in UK. "The relationship will be continued," said AH's client, and the company is looking forward to supplying new clients with the new alternative to steel.

The main advantage of wooden drums is the short delivery time (2-4 weeks), the flexible drum design and a cost up to 45% less than comparable steel drums.



▲ Examples of drums from August Hildebrandt

Markets in the Middle and Far East, and cable manufacturers in Africa, Arabia and India are enquiring about the drums, attracted by consistent high quality, reliability of delivery dates and the technical support offered to the cable factories.

New customers are recognising that their products are becoming more sensitive while transport distances are longer than ever. This means that the demands on the packaging increases. August Hildebrandt drums are manufactured from wood from northern Europe.

**August Hildebrandt GmbH**  
**Kabeltrommeln – Germany**  
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**Website:** www.cabledrum.com

## The most important free promotional opportunity of 2010 for wire Düsseldorf

IWMA member organisations really value the promotional and communication medium provided by WCN, the Association's newsletter. This current bumper edition runs to 32 pages owing to the number of members' editorials submitted for publication. All members can submit editorials about their organisations (not adverts) for free publication to target the wire and cable industry worldwide.

In hard copy form WCN is read by nearly ten thousand people around the globe. Members' articles are also posted as individual news items on the IWMA website [www.iwma.org](http://www.iwma.org). If your company is a member of the IWMA please take advantage of this totally free promotional benefit and email us your press release, ideally around 250–300 words, with supporting photos to: [info@iwma.org](mailto:info@iwma.org)

The next edition of WCN will be widely distributed at wire Düsseldorf 2010 as well as being posted out around the world to many countries. In addition the electronic E-zine version will be made available to many new readers worldwide.

- Communicate important messages to the global market
- Publicise new developments, contracts won and personnel changes
- Stay ahead of the competition

If marketing and public relations are not your responsibility please make sure that the relevant department or person is aware of this great communications opportunity.

Not an IWMA member organisation? To take advantage of this major IWMA membership benefit and many others, including a special 40<sup>th</sup> anniversary offer of two years membership for the price of one, please visit the website [www.iwma.org](http://www.iwma.org) where it is possible to apply online or download an application form.

**Please make sure that editorials are submitted in time for the next WCN.**  
**The deadline is 23<sup>rd</sup> November 2009.**

## **IWMA EDUCATIONAL TRUST FUND NEWS**

### **APPLICATIONS INVITED FOR THE JOHN C HOGG TRAVEL AWARD wire Düsseldorf 2010, 12<sup>th</sup> – 16<sup>th</sup> April**

In addition to the continuous support that the IWMA provides to education within the industry, we are again able to announce a Travel Award Scheme to the world's largest and most prestigious wire exhibition. This scheme is available to students, apprentices or trainees recommended or sponsored by a member of the IWMA to provide the individual with an opportunity to attend the event that he or she would not normally have.

#### **The Award provides:**

- a) Return air travel from country of domicile to Düsseldorf, Germany during the period of the trade fair.
- b) A minimum of 2 night's hotel accommodation in Düsseldorf, excluding meals and local travel expenses.
- c) Free entry and catalogue to wire/Tube Düsseldorf 2010.
- d) VIP guest ticket for the IWMA Industry Dinner on 13<sup>th</sup> April 2010 during wire.

#### **Conditions of Application:**

1. Applicant must be at least 18 years of age on his or her last birthday. There is no upper age limit
2. Applicant must be pursuing a training programme or career (technical, engineering, production, management etc) related to the wire, cable, fiber optic or wire material and product industry.
3. Applicants are required to be employed by, sponsored or recommended/introduced by a member company of the International Wire & Machinery Association, and this should be verified on the application form.
4. The applicant must complete the official application form provided by the IWMA and this must be verified by the employer or the nominating organisation.
5. All applications must be returned to the IWMA UK office via fax or mail before 18.00hrs on 30<sup>th</sup> September 2009.
6. Successful applicants must agree to allow their name and photograph to be published or reproduced as determined by the IWMA.
7. Applications from established managers will not be accepted but those from trainee managers will be considered on an individual basis. The Trustees will not accept applications that appear to subsidise a company's normal travel costs for wire Düsseldorf.
8. All details provided by the successful applicant are subject to publication by the IWMA for publicity purposes prior to, during or following the exhibition.
9. The selection of applicants is entirely at the discretion of the IWMA Executive Committee and no reason or explanation is given for failure to select applications.
10. Successful applicants will be notified by the IWMA before 1<sup>st</sup> December 2009 and invited to accept the John C Hogg Travel Award as described in the offer letter accompanying these conditions. The IWMA is not responsible for insurances or third party liability claims applicable to those persons receiving the award who should protect their own interests in this respect.
11. All applicants are deemed to have accepted the terms and conditions applicable to the IWMA John C Hogg Travel Award scheme.

All members of the IWMA are invited to introduce this scheme to a suitable applicant whom they consider worthy and applicable according to the foregoing conditions.

For a copy of the conditions please contact the IWMA office or visit [www.iwma.org](http://www.iwma.org)

## John C Hogg Travel Award to wire Düsseldorf 12-16 April 2010 Application Form

To: International Wire & Machinery Association

Fax: 44 (0) 1926 314755      46 Holly Walk, Leamington Spa, Warwickshire CV32 4HY, UK

Name \_\_\_\_\_ First Names \_\_\_\_\_

Male/Female \_\_\_\_\_ Date of Birth \_\_\_\_\_

Address (Home) \_\_\_\_\_

\_\_\_\_\_ State/Zip \_\_\_\_\_ Country \_\_\_\_\_

Telephone \_\_\_\_\_ Telefax \_\_\_\_\_ Email \_\_\_\_\_

Company/University/Educational Name \_\_\_\_\_

Address \_\_\_\_\_

State/Zip \_\_\_\_\_ Country \_\_\_\_\_

Telephone \_\_\_\_\_ Telefax \_\_\_\_\_ Email \_\_\_\_\_

Applicant Passport/Identity Number \_\_\_\_\_ Issued At \_\_\_\_\_

Visa required for Germany? \_\_\_\_\_ YES/NO \_\_\_\_\_

Student Status \_\_\_\_\_ Apprentice Status \_\_\_\_\_

Employed by \_\_\_\_\_

Position Held \_\_\_\_\_

Work or study description \_\_\_\_\_

If successful I agree to be bound by the conditions of the John C Hogg Travel Award \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

IWMA Member Company supporting recommendation \_\_\_\_\_

Person Dealing \_\_\_\_\_ Signature \_\_\_\_\_ Date \_\_\_\_\_

Approved by Employer/College/University Official \_\_\_\_\_

Name \_\_\_\_\_ Position \_\_\_\_\_ Signature \_\_\_\_\_