

## IPSO Alliance

ANNOUNCES COMPLIANCE AND CERTIFICATION PROGRAM



This map shows the location of sensors, each indicated by a dot, that were part of the second IPSO interoperability test taken in June.

The IP for Smart Objects (IPSO) Alliance has a new compliance and certification program aimed at speeding up use of IP in embedded smart objects like sensors and actuators in a range of emerging applications that include smart grid and energy management, building automation, urban infrastructure, industrial and process automation, healthcare and home automation.

The IPSO Alliance was formed in 2008 and serves technology providers and end-users looking to establish Internet Protocol as the standard of choice for interconnection of physical objects. The alliance held the world's first global interoperability event in March, when the foundation was placed for this compliance and certification program. IPSO has successfully demonstrated IP-based global interoperability with IP-based sensors, networking infrastructure, servers and applications.

The IPSO Alliance intends to lead the effort to transition into IP-enabled devices of existing or emerging application layer frameworks and plans to coordinate with other groups and standard-setting bodies to help this transition.

"We have already shown that by using open IP standards (IPv6 and 6lowpan) we can connect small embedded devices—smart objects—from different vendors around the world," says Geoff Mulligan, chairman of IPSO. "With our new program, we are raising the bar of testing and certification to bring assured interoperability to the entire industry. The IPSO Alliance program covers all types of physical communications links, wired or wireless, including 802.15.4, 802.11, PLC (such as HomePlug). We are not limited to any single technology."

The IPSO compliance and certification program is a comprehensive, industry-wide effort that includes collaborating with the Internet Engineering Task Force to develop basic standards; delivering testing and compliance programs, so vendors can validate product compliance to IP standards; developing programs to encourage development of adaptation layers for IP over new communication links; facilitating the movement of existing or emerging systems

onto IP-enabled devices and working with other industry alliances and associations.

"I'm delighted to see IPSO taking the lead in the certification of IP smart objects, enabling vendor interoperability and sector-wide compliance to standards," says Alain Fiocco, senior director of IOS marketing and architecture for Cisco Systems. "Stable and open standards are critical in making smart objects communicate and deliver the network value. It is vital that this industry can rely on these standards to blossom, but it is equally important for customers and vendors alike that these standards are in place to deliver end-to-end solutions and shorten the adoption cycle"

## Renold Americas

NAMES PRESIDENT



Rick Hamilton

Rick Hamilton was named president of Renold Americas, effective immediately. In this position, Hamilton is responsible for all sales operations in the United States, Canada and Latin America. He reports to George Graham, managing director of global chain sales of Renold plc.

"We are pleased Rick accepted this position with the Renold organization," Graham says. "He has the vision and

ability to lead the Renold Americas group to greater success."

Hamilton has previous experience in management, sales and manufacturing. He most recently served as president of Renold Canada. He has held positions at Martin Sprocket and Gear Inc. and Emerson Power Transmission Corp. He received a bachelor's degree in industrial distribution from Texas A&M University, College of Engineering.

## Iwis

RELOCATES HEADQUARTERS TO INDIANAPOLIS

Chain manufacturer Iwis Drive Systems, LLC moved into new headquarters in Indianapolis. The 5,000 square meter building consists of offices, dedicated assembly hall,



chain testing laboratory, fabrication shop and inventory warehouse. Due to significant business expansion, especially in the agricultural chain division, the move was necessary to accommodate these changes.

## Pacamor

### EXPANDING CLEANROOM FACILITY

In response to growing demand from aerospace OEM and MRO customers, Pacamor Kubar Bearings (PKB) is expanding its current ISO 9001:2000 and AS9100:2004 certified cleanroom environment facility in Troy, NY to double its current size.

The expansion is scheduled for completion in the fourth quarter of 2009, and it will be equipped to provide complete bearing assembly processes including component inspection, bearing assembly, lubrication, specialty inspection processes, secondary operations, test and packaging capabilities.

New equipment for the expanded facility will include a Running Torque Tester equipped with tooling for every bearing size manufactured by PKB; a heated vacuum impregnation chamber and a high speed centrifuge for lubrication processes; a nitrogen gas backfill system for specialized packaging processes; and many other specialty instruments and production tools. The new cleanroom will also have an automated bearing wash system, various Class 100 laminar flow benches for ultra clean processing, various gages and precision inspection instruments.

The expanded facility is being designed to provide tight temperature, humidity and particulate control. The cleanroom regularly is measured using particle counters to read the return air stream particulate level. PKB's current cleanroom

continued

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“Customer requests for cleanroom assembled and processed aerospace and medical bearings are on the rise as companies look to eliminate contamination and additional cleaning processes from their final assembly operations,” says Ed Osta, executive vice president. “The stringent and comprehensive contamination control methods, along with some of the finest technology in the industry, will meet our customers’ cleanliness requirements and help reduce their time to market.”

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## Germanischer Lloyd

### AUTHORIZES CENTA TO TEST OWN COUPLINGS

Centa is the first company worldwide to receive the Germanischer Lloyd (GL) authorization for alternative product certification of type-approved couplings. This means that in future operations, Centa has the authority to carry out acceptance testing and final stamping of those couplings that have been classified as approved types. These tests are required to be performed in accordance with the “Alternative Product Certification,” a modular certification system developed by GL.

Several other international classification societies have provided Centa the authority to use their approval stamp on its couplings, including the Det Norske Veritas (DNV), Nippon Kaiji Kyokai (NKK) and the maritime Register of Shipping (MRS).

GT is one of 10 internationally recognized classification societies. It has developed technology and quality standards for over 140 years. “We have maintained close cooperation with several classification societies for more than 20 years,” says Gerhard Kirschey, founder of Centa Antriebe Kirschey GmbH. “We continually strive to improve the quality of our products and processes. Approval by Germanischer Lloyd for carrying out acceptance testing of our couplings on our own, in-house, indicates that our quality management system is on the right track. We are very proud of this sign of confidence and confirmation of our efforts, which are supported by our employees’ high commitment level.”

## TSD Integrated Controls

### TRANSITIONS FROM JOINT VENTURE TO STRATEGIC PARTNERSHIP

TSD Integrated Controls has been a joint venture of Sauer-Danfoss Inc. and Topcon Positioning Systems, Inc., operating successfully in the road building and agricultural markets since 2001. As market dynamics in road building and agriculture evolve, the two parent companies decided jointly to turn the relationship from a joint venture operation to one of strategic partnering. Both companies believe this is the best way to serve the future interests of the TSD customer base.

“We have had a very successful joint venture partnership, developing industry-leading solutions like 3DmmGPS-based controls for the asphalt and concrete paving markets, and the TruPath automated guidance system for the ag market,” says Bill Welscher, TSD general manager. “This updated arrangement will continue the positive cooperation, but will also allow the parent companies to more fully focus on their individual strengths within their respective technologies.”

As of September 1, 2009, all TSD OEM customers in the road building market are represented by Sauer-Danfoss for commercial relationship and sales support. Topcon continues to exclusively supply Sauer-Danfoss with products for this market segment. Topcon will be supplying directly to customers in the agricultural market, including the TruPath autosteer product and other agricultural products.

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## Tesla Engineering Chief

Mike Donoughe resigned as executive vice president of vehicle engineering and manufacturing for Tesla Motors, effective October 1. He joins Detroit-based St. Clair Consortium, a consulting group, and he intends to contribute more time to the non-profit organization he founded with his daughter, Cornerstone Youth Development.

Tesla has not publicly named a replacement, but Peter Rawlinson, chief engineer and head of engineering on the all-electric Model S sedan will take on Donoughe’s responsibilities in that area.

“Tesla is a company populated throughout with excellent and enthusiastic people,” Donoughe says. “It has been a wonderful experience for me to have been a part of this talented team. At the same time, having the opportunity to join the St.

Clair Consortium will, along with my Cornerstone activities, enable me to continue to pursue my personal and professional objectives going forward.”

Donoughe joined Tesla in 2008, right after the all-electric Roadster sports car began production, Tesla’s first product. Donoughe contributed to fully ramping up production of the model. He focused on improving Roadster quality and executing a cost-down program that helped Tesla reach profitability in July.

“Mike joined the company shortly after we had begun manufacturing the Roadster, and his enthusiasm and expertise helped Tesla achieve fully ramped up production,” says Elon Musk, Tesla CEO. “He’s leaving the company on very solid footing and at a logical time in Tesla’s phenomenal growth curve.”

## Ruland and Belden

FORM GERMAN JOINT VENTURE



Ruland Manufacturing Co. Inc. and Belden Inc. have formed PTMotion GmbH, a joint European venture headquartered in Berlin. It began operation September 1.

The two companies joined forces in Europe due to a growing OEM customer base in Germany and other countries. The intention is to generate new business and manage distributor relationships. PTMotion is under management of Ralf Gabriel, managing director, who has been a sales engineer for Belden in Germany for several years. He is aided by Sebastian Recke as sales engineer.

Belden, headquartered near Chicago, manufactures universal joints and power transmission assemblies. Ruland, headquartered in Marlborough, MA, manufactures couplings and shaft collars. Both companies have been active in Europe for many years.

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## German Solar Company

### ESTABLISHES NORTH AMERICAN OFFICE

EEPro, daughter company of EEPro GmbH in Germany, opened its first office in North America, located in Charlotte, N.C. EEPro designs and builds turnkey photovoltaic parks and farms throughout the United States. It will be a contact point for solar power information, including the possibilities and benefits of wide-scale implementation of solar power.

“Within the United States, you rarely see mass use of solar power, as opposed to countries like Germany, where approximately one in 10 buildings has a solar power system,” says Martin Koebler, CEO of EEPro. “In America, the programs and financial incentives, which are necessary to create the cultural shift that enables the success of sun-driven power, simply haven’t existed. That’s expected to change with

the new energy bill and growing demand from conscientious corporations, communities and governments. EEPro has set up its office to address the projected need and provide the most trusted solutions in the solar market.”

EEPro is planning to install a 500 kw free-standing photovoltaic system in the Charlotte area. Such a system is capable of powering 250 homes, producing 750-800 kwh per year.

“The entire world has a growing respect for solar power, and in Europe, it’s proven method of energy harvesting and delivery,” Koebler says. “EEPro projects provide a low-risk investment opportunity.”



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## Eaton

### ENTERS JOINT AGREEMENT IN MIDDLE EAST

Eaton Corporation announced a joint venture in the United Arab Emirates operating through SEG Middle East Power Solutions and Switchboard Manufacture LLC. The Abu Dhabi-based company sells low-voltage switchboards and control panel assemblies to the Middle East power generation and industrial markets. SEG grossed sales of \$10 million in the fiscal year ending December 31, 2008.

“This joint venture provides Eaton with an established

operation that has built a successful business supplying switchboard and control solutions in the Middle East,” says Frank Campbell, president of Eaton’s electrical sector in Europe, the Middle East and Africa. “This provides Eaton with a local manufacturing presence and positions us for continued success in this high growth region.”

## Thomson

### OPENS NORTHEAST MACHINING CENTER

The 10,000 square foot Northeast Machining Center for Thomson Industries opened in Long Island, NY with the purpose of quickly delivering Thomson 60 Case Shafting, with next day shipping in quantities up to 25 pieces. Larger quantities are available for same and next day shipping depending on availability.

The machining center stocks full random lengths up to 202 inches in diameters and up to 2 inches (50 mm). Shafting can be cut to customer specifications. The center is in addition to preexisting facilities on the West Coast and in the Midwest.

“Customers increasing need high quality motion control products faster than ever before, and this program delivers on both counts,” says Dennis Howe, general manager, linear bearings and guides. “Not only will most products ship the same or next day, but Thomson toolmakers and machinists average 22 years experience, and it shows in what we believe to be the highest quality shafting available in the industry today.”



## Hydraulic Institute

### PUBLISHES ROTODYNAMIC PUMP STANDARD

A new American National Standard for Rotodynamic Pumps for Vibration Measurements and Allowable Values (ANSI/HI 9.6.4-2009) is the latest standard from the Hydraulic Institute (HI).

The standard applies to evaluating vibration on roto dynamic pump applications, specifically pertains to evaluating vibration when vibration measurements are made on non-rotating parts (bearing housing vibration). General evaluation criteria are included for acceptance tests in field environments or at manufacturing test facilities, as is appropriate and defined in the standard.

“This new normative vibration standard builds upon the trends begun in the previously published standard, with significant improvements that should facilitate the use of the document, allow it to find broad acceptance and benefit the pump industry,” says Jack Claxton, vice president of engineering for Patterson Pump Company and chairman of the Hydraulic Institute Vibration Committee.

HI intends to supplement the standard in the future by a

guideline document, *Dynamics of Pumping Machinery*, which is currently being drafted by the committee. This standard is based on experiences from pump users, manufacturers and vibration measurement data. Vibration data from factory test and field test environments have been incorporated into the maximum allowable vibration values. The values are applied when a pump is installed per Hydraulic Institute or manufacturer’s specifications.

“The newly restated HI Vibration Standard comes as a result of substantial research and brings together collective experiences of pump users and manufacturers from a variety of industry segments,” says Mick Cropper, global product development manager for Sulzer Pumps US, Inc. and vice-chairman of HI’s Vibration Committee.

## Carraro Group

### BUILDING NORTH AMERICAN HEADQUARTERS

Virginia Beach is the new home for Carraro Group's North American headquarters. The Italian company is investing \$8 million in new machinery and tools in addition to creating 35 jobs.

The company is located in the former MG Minigears facility in the Oceana West Corporate Park, and there are plans to build another facility in the future. Carraro also plans to expand manufacturing operations to include components for wind energy, solar power and hybrid technology industries.

"Green technology is an essential part of the future," says Tiziana Votta, Carraro's senior vice president of worldwide marketing and sales. "And since Virginia Beach is one of the best places on the East Coast to manufacture wind energy, it made perfect sense to expand our operations to include manufacturing components for wind turbines here."

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## Metaldyne

### AUCTIONS ASSETS

MD Investors Corporation was named the successful bidder for Metaldyne Corporations assets, which were auctioned August 6. Metaldyne also had a hearing seeking approval of the sale from U.S. Bankruptcy Court for the Southern District of New York. The sale involves Metaldyne's powertrain, balance shaft module, tubular products and chassis assets to MD Investors.

MD Investors is a new company formed by Metaldyne's existing term lenders, which is led by the Carlyle Group, a private equity firm, and Solus Alternative Asset Management LP, an SEC-registered investment advisor. MD Investors agreed to buy most of the company's assets under a 363 sale. The bankruptcy filing in May was necessitated by liquidity, excess leverage and pension and lease costs aggravated by low production volumes in the North American automotive industry.

"We are very pleased Carlyle, Solus and a group of our term lenders have agreed to purchase substantially all of Metaldyne's businesses," says Thomas A. Amato, chairman, president and CEO of Metaldyne. "It has always been our plan to divest our better performing operations in connection with our overall Chapter 11 restructuring. We believe the sale of these businesses as a going concern represents the best way to continue to serve our customers and preserve as many jobs as possible."

"We are pleased Metaldyne is moving through the bankruptcy process swiftly and on plan. The highly competitive sale process in this challenging market is a testament to the strength of our businesses, technology and the commitment of our employees."

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## Power Generation Startup

### ESTABLISHES FACILITIES

Energy Parametrics and Communications Inc. (EP&C), a provider of environmentally-friendly power generation solutions featuring smart grid and power management technologies, announced formal plans to lease and develop its new world headquarters and southern United States power data center in Dallas, TX, and a west coast power management data center in Sacramento, CA.

"Energy Parametrics and Communications is definitely on its way to taking its position as the true power industry and energy management leader. From micro-turbine demonstrations, true smart grid system monitoring to our power management informatics patent solutions, our new corporate headquarters and data analysis centers will operate under strict environmental-friendly guidelines," says Luke Stewart, president and CEO. "Our power data management centers will serve essentially as 'smart energy command centers.' We have future plans for other data management centers throughout North America."

The world headquarters and southern U.S. power management data center covers over 20,000 square feet. EP&C is keeping its current office in Richardson, TX for operations and administrative support. The west coast power data management center is in the North Sacramento/Del Paso Heights area and covers 51,400 square feet.

"As we begin the development of our new facilities...each location will serve a variety of important energy industry functions," says Gary Rayward, COO. "Most importantly, it will showcase our company's proven products and services to create safe and reliable green energy generation and power systems management. The sites will also serve to train industry professionals and host future green energy conferences as well."