

# OFFICIAL SHOW PROGRAM & EXHIBIT GUIDE

# THE ASSEMBLY SHOW

OCTOBER 28-30, 2013

DONALD E. STEPHENS CONVENTION CENTER  
ROSEMONT, IL

[www.TheASSEMBLYShow.com](http://www.TheASSEMBLYShow.com)

PRODUCED BY

**ASSEMBLY**

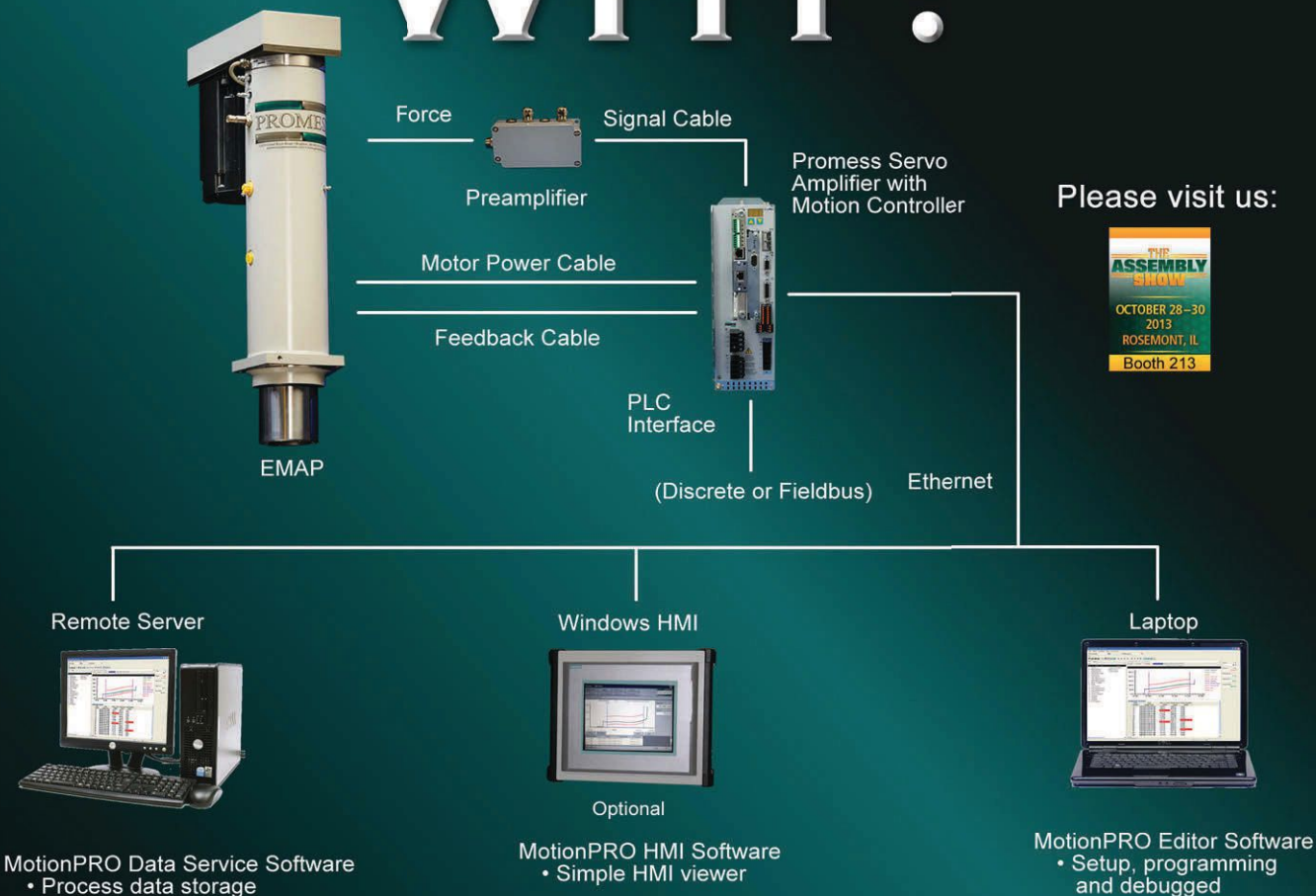


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# WHY?



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See us at  
The ASSEMBLY Show,  
Booth #213



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[promessinc.com](http://promessinc.com)  
810-229-9334



"Cloning the Perfect Part"

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# Accelerate Your Dispensing Process with the New Exchangeable High-Speed PICO® 500Hz Dispense Valve



See us at The ASSEMBLY Show, Booth #104



PICO xMOD dispense valve jetting UV-cure adhesive onto keypad membrane

Nordson EFD introduces the PICO® xMOD™ valve system, a new fully exchangeable and modular concept in non-contact and contact needle dispensing of assembly fluids. The valve uses high-tech, robust, durable piezoelectric actuation for continuous operation at speeds of up to 500 cycles/second.

The valve can produce deposits as small as 0.5 nanoliters with exceptional deposit accuracy and superior process control. Ideal for a range of applications in electronics, automotive, life sciences, solar, and other industries.

Call our Product Specialists to discuss your application.  
800.556.3484 or [info@nordsonefd.com](mailto:info@nordsonefd.com).

View the xMOD valve in action at  
[www.nordsonefd.com/asm-sg-1013](http://www.nordsonefd.com/asm-sg-1013)



# WELCOME TO THE ASSEMBLY SHOW 2013



Dear ASSEMBLY Show Attendee,

On behalf of the entire staff at ASSEMBLY, I would like to welcome you to the inaugural ASSEMBLY Show here in Rosemont, IL.

As the assembly market's publication of record, we are proud to once again play host to a live, dedicated assembly event, where assembly professionals can gather to learn about the latest products, innovative technologies and best practices.

The ASSEMBLY Show offers a comprehensive educational program with expert speakers, along with nearly 150 exhibitors representing the very best from the vendor community. Exhibitors have come to showcase their products, which represent the latest solutions to your current challenges. In addition, the show offers an intimate networking environment, providing you an opportunity to exchange valuable ideas with colleagues, friends and peers.

It is our pleasure to have you as our guest. If there is anything that I or the ASSEMBLY staff can do to make your visit more productive, enjoyable or positive, please don't hesitate to let us know.

It is my sincere hope that you will leave The ASSEMBLY Show better informed, better connected and better prepared to meet the challenges you face as an assembly professional.

Again, thank you for attending The ASSEMBLY Show.

Sincerely yours,

Tom Esposito  
Publisher, ASSEMBLY Magazine

30 Years

SCHUNK

Grippers  
1983 - 2013



90 %

SWS Quick-Change System  
faster  
gripper change

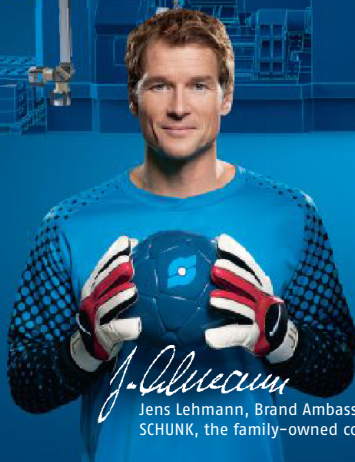
SRH-plus  
Swivel Head

IP 67

standard  
protection class

PGN-plus  
2-Finger Parallel Gripper

The No. 1 with multi-tooth  
guidance



Jens Lehmann, Brand Ambassador of  
SCHUNK, the family-owned company



Your automated handling system.  
It's time to make use of  
your machine's full potential.

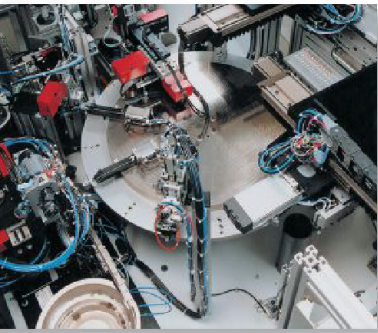
[www.us.schunk.com/machine-potential](http://www.us.schunk.com/machine-potential)

See us at The ASSEMBLY Show, Booth 405

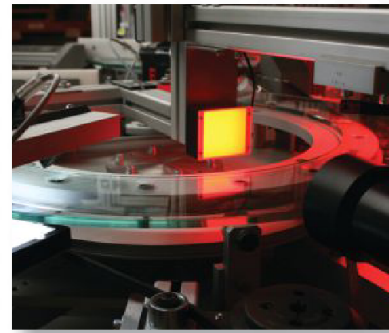
Superior Clamping and Gripping

SCHUNK®

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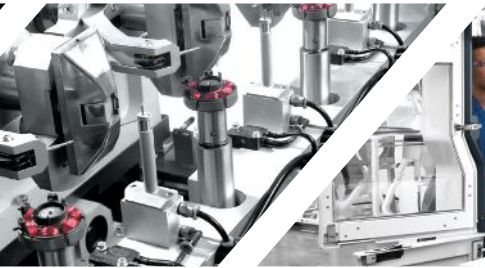
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# FACTORY-WIDE AUTOMATION SOLUTIONS



## Helping Advance the Future

We have a lifetime of experience automating manufacturing processes. Our industry-leading automation solutions continually advance the state of the art.

From product assembly and testing to specialized processing machinery, we offer an extensive range of manufacturing technology and expertise to deliver turnkey manufacturing solutions.



For more information, email us at [assembly@atsautomation.com](mailto:assembly@atsautomation.com), call 1 866 546 8515, or visit us at [www.atsautomation.com](http://www.atsautomation.com)

# ASSEMBLY SHOW PRODUCT SHOWCASE

**Nearly 150 exhibitors are displaying the latest assembly technology at the ASSEMBLY Show. Here is just a sampling of the products you can see on the show floor.**

## Controller for Screwdrivers and Nutrunners

The X-PAQ controller can now be used with EH2 screwdrivers and nutrunners, which produce torque from 1 to 35 newton-meters. Both tools feature resolver-based technology to ensure accuracy and can synchronize up to 10 spindles. Pulse fastening reduces reaction typically associated with high-torque tools while increasing operator comfort and ergonomic stability. Available accessories include the tracer arm vision system, which assures process conformity by fastening bolts to the proper tolerance in a preprogrammed sequence. **Booth 1133**



### ASG, Division of Jergens Inc.

[www.asg-jergens.com](http://www.asg-jergens.com)  
888-486-6163

## Pick-and-Place Machine

The PPU-E50 pick-and-place machine performs high-speed assembly of medium-weight components. It has a 105-millimeter vertical stroke, a 208-millimeter horizontal stroke and can achieve a cycle time of 0.92 second with a 5-kilogram part. Position sensors control the vertical and horizontal motion, and assure a repeat accuracy of less than 0.01 millimeter. The unit has two stationary motors and does not require movable motor cable. Its narrow housing allows several units to be operated next to each other. **Booth 405**



### SCHUNK Inc.

[www.schunk.com](http://www.schunk.com)  
919-572-2818

## Six-Axis Robots

The C4 and C4L six-axis robots feature SlimLine arms and a compact wrist pitch, enabling them to easily reach into confined and restricted spaces from many angles with smooth motion. This capability makes the robots ideal for small-parts and medical-device assembly. They have a maximum payload of 4 kilograms, with 0.37-second cycle time and  $\pm 0.02$  millimeter repeatability. Horizontal reach is 665 millimeters (C4) or 965 millimeters (C4L). Both robots come with the RC700 controller. **Booth 925**



### EPSON Robots

[www.epsonrobots.com](http://www.epsonrobots.com)  
562-290-5910

## Robotic Dispensing System

The F9960N gantry robot dispenses coatings for applications ranging from miniature surface-mount circuit boards to larger PCBs and finished assemblies. Mounted within an enclosed free-standing platform, the robot has a 600-millimeter-square work area. Operators program the robot's dispense path (continuous or point-to-point) using an interactive touch screen. It can be used as a stand-alone module or integrated with a conveyor-dependent production line. **Booth 533**



### Fisnar Inc.

[www.fisnar.com](http://www.fisnar.com)  
973-646-5044

## Metal-Forming Pneumatic Powerhead

The 840 Powerhead provides 12,500 pounds of pneumatic force for riveting, peening and metal-forming applications. It is available separately or as a complete system in standard bench and pedestal configurations. Single-valve actuated, the powerhead features three pistons and an HS-1000 orbital head. It can be retrofit with many of the company's standard machines. Options include an offset motor mount, load cell, gear reducer, multispindle drive unit, and through-spindle, programmable and spring-loaded pressure pads. **Booth 633**



### Orbitform Group

[www.orbitform.com](http://www.orbitform.com)  
800-957-4838

## Multipurpose Press Workstation

Self-contained and customizable, this workstation can be used for assembly, testing and technology development applications. The station includes an integrated motion controller, analytical software, and, depending on application, either an Electro-Mechanical Assembly Press, a TorquePRO motorized torque system or a Rotational Electro-Mechanical Assembly Press. The station has a standard C-frame or a heavy-duty H-frame configuration to accommodate press forces from 0.2 to 500 kilonewtons. **Booth 213**



### Promess Inc.

[www.promessinc.com](http://www.promessinc.com)  
810-229-9334





# Problem:

- Stripped threads and over-torqued fasteners
- Improperly fastened assemblies
- Multiple tools for different joints

# Solved.

Ingersoll Rand QX Series Cordless Precision Screwdrivers provide fast and easy torque setting with visual feedback—*RIGHT* on the tool for immediate error-proofing. Eight different user-programmable configurations allow *ONE* tool to do the work of many. And a wireless communication option delivers real-time monitoring, data archiving, and process control.

Be sure to visit us at The ASSEMBLY Show in booth 110!



See us at The ASSEMBLY Show, Booth #110




**Demo the QX Series** on your assembly application.\* Go to [ingersollrandproducts.com/QXS](http://ingersollrandproducts.com/QXS), or contact your Ingersoll Rand dealer for more information.

\*For qualified assembly applications only.









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# AGENDA AT A GLANCE

## MONDAY, OCTOBER 28, 2013

12:00 PM – 8:00 PM	Level 1 Lobby	Registration Open	
5:00 PM – 8:00 PM	Hall A	Exhibit Hall Open	
5:00 PM – 8:00 PM	Hall A	Welcome Reception / Taste of Rosemont	Sponsored by 

## TUESDAY, OCTOBER 29, 2013

7:00 AM – 7:00 PM	Level 1 Lobby	Registration Open	
9:00 AM – 10:00 AM	Keynote Theater	 <b>Keynote Presentation: What Lies Ahead for U.S. Manufacturing?</b> Daniel J. Meckstroth, Manufacturers Alliance for Productivity & Innovation	
10:00 AM – 5:00 PM	Hall A	Exhibit Hall Open	
11:15 AM – 11:55 AM	Showcase Theater #2	 <b>New Technology In Cordless Assembly Tools Inspires An Industry Shiftlive</b>	Sponsored by 
12:00 PM – 12:40 PM	Showcase Theater #1	<b>The Sometimes Unexpected Challenges to Consider When Using Advanced Materials in Next Generation Products, Especially in Medical Devices</b>	
12:45 PM – 1:25 PM	Showcase Theater #2	<b>Recommendations for Manufacturing Growth in the Tri-State Region</b>	
1:30 PM – 2:10 PM	Showcase Theater #1	<b>Making the Leap into Automation for Higher Throughput</b>	Sponsored by 
2:15 PM – 2:55 PM	Showcase Theater #2	 <b>Is LED technology in your future?</b>	Sponsored by 
3:00 PM – 3:40 PM	Showcase Theater #1	<b>Advancements in Reaction-Free Tools</b>	Sponsored by 
5:00 PM – 7:00 PM	Keynote Theater	Networking Reception	Sponsored by 

## WEDNESDAY, OCTOBER 30, 2013

7:00 AM – 3:00 PM	Level 1 Lobby	Registration Open	
9:00 AM – 10:00 AM	Keynote Theater	 <b>Keynote Presentation: Private–Public Partnerships for U.S. Advanced Manufacturing</b> Michael F. Molnar, Advanced Manufacturing National Program Office, National Institute of Standards & Technology	
10:00 AM – 3:00 PM	Hall A	Exhibit Hall Open	
10:30 AM – 11:10 AM	Showcase Theater #1	<b>Found Money: Resources for Midwest Manufacturers</b>	
11:15 AM – 11:55 AM	Showcase Theater #2	 <b>Increasing Strength &amp; Reliability of Press Fits</b>	Sponsored by 
12:00 PM – 12:40 PM	Showcase Theater #1	<b>The New Illinois Manufacturing Laboratory: What Can It Do for Your Company?</b>	
12:45 PM – 1:25 PM	Showcase Theater #2	 <b>Optimize Your Vision Inspection Systems</b>	Sponsored by 
1:30 PM – 2:10 PM	Showcase Theater #1	<b>Next Generation Services for Today's Manufacturer</b>	

 **Look for this icon to indicate sessions that will be Broadcasting Live. See Page 12 for more information.**

# SHOW INFORMATION

## ADMISSION

Admission is limited to persons actively engaged with assembly equipment in the manufacturing industry. Management, wherever possible, has taken every effort to prohibit admission to persons not engaged in the industry. No one under the age of 18 (including infants) will be admitted, no exceptions.

## BADGE CATEGORIES BY COLOR

Green	Attendee
Red	Exhibitor
Light Blue	Speaker
Dark Blue	Press
Yellow	Event Staff

## REGISTRATION HOURS

Registration to the Conference & Exhibit Hall must be accompanied by full payment. Conference credentials are the sole responsibility of the registrant and are non-refundable and non-transferable.

- Monday, October 28 // 12:00pm – 8:00 pm
- Tuesday, October 29 // 7:00am – 7:00pm
- Wednesday, October 30 // 7:00am – 3:00pm

## EXPO HALL HOURS

- Monday, October 28 // 5:00pm – 8:00pm
- Tuesday, October 29 // 10:00am – 5:00pm
- Wednesday, October 30 // 10:00am – 3:00pm

## SHOW MANAGEMENT OFFICE

The ASSEMBLY Show office is located between the lobby and Exhibit Hall A.

## SPEAKER READY ROOM / PRESS ROOM

The Speaker ready room is located between the lobby and Exhibit Hall A.

## COAT CHECK

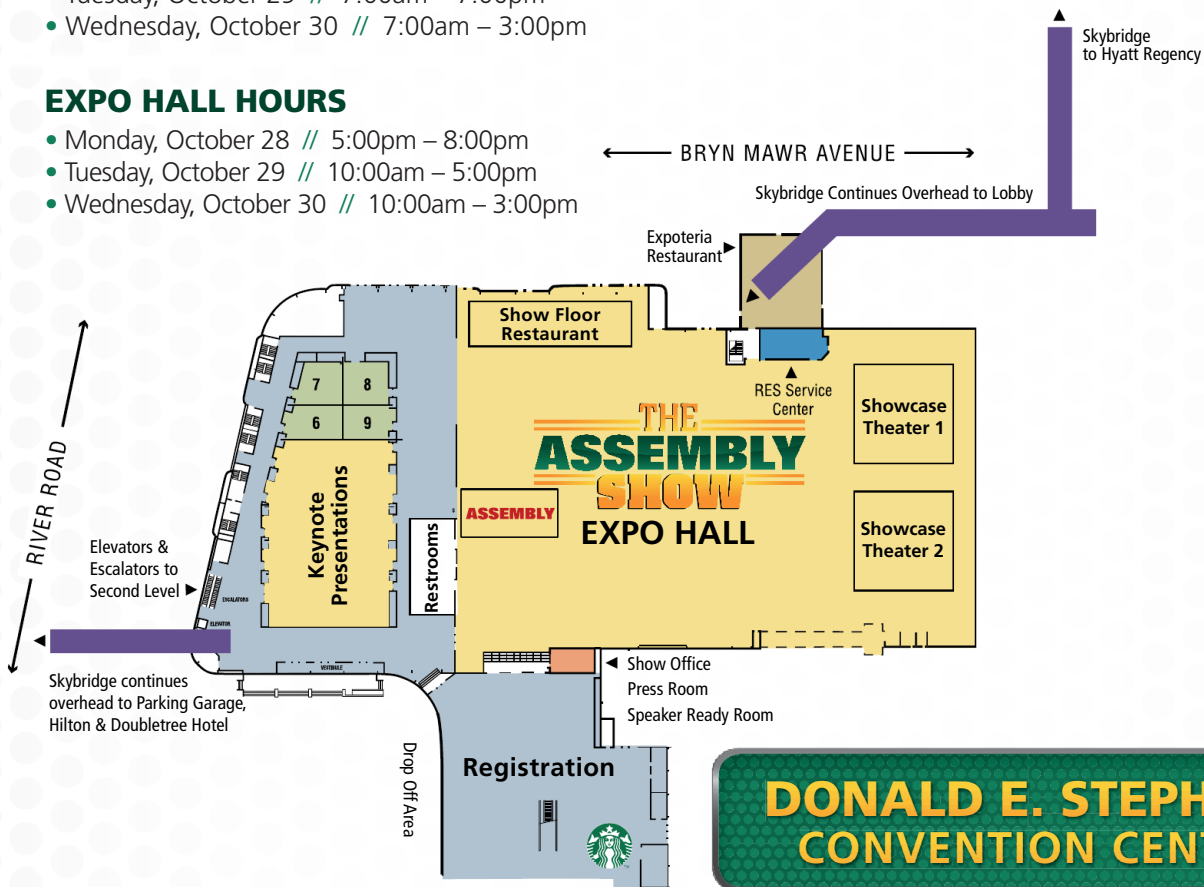
Coat check is located in the level 1 lobby off of River Road. There is a fee of \$2 per item to utilize coat checking service.

## FIRST AID

First Aid is located on the ramp between Hall A & Hall B, just south of booth #1107

## PHOTOGRAPHY

Unauthorized photography is not permitted. Attendees must receive permission to photograph an exhibitor booth. Photography during session and networking events is strictly prohibited.

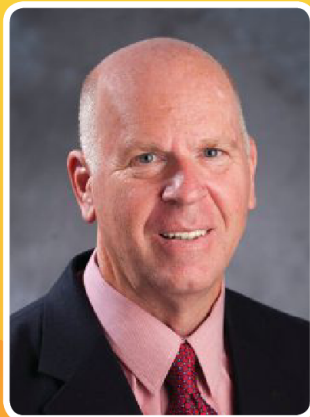


## DONALD E. STEPHENS CONVENTION CENTER

# KEYNOTE SPEAKERS

Start your day by sitting in on these powerful keynote presentations that will give you expert insight into the state of the manufacturing industry. Free to all registered attendees and only steps away from the expo hall just off of the main registration area. Be sure to arrive early as we expect a standing room only crowd.

## Tuesday Keynote Speaker



### Daniel J. Meckstroth, Ph.D.

**Vice President and Chief Economist  
Manufacturers Alliance for Productivity & Innovation**

Daniel J. Meckstroth, Ph.D., is vice president and chief economist for Manufacturers Alliance for Productivity and Innovation (MAPI). He has been with MAPI since 1990 and coordinates the economic forecasting and analysis program involving MAPI's nine economists. He provides comments and analysis on a wide variety of economic issues as they relate to the manufacturing sector and is the primary spokesperson on business conditions and economic matters. He also serves as a council director at MAPI and currently is the council director for the Division Finance and Purchasing Councils. Prior to joining MAPI, he spent 12 years at Armco (now AK Steel) in a forecasting and strategy role. Dr. Meckstroth earned a Ph.D. in economics from the University of Cincinnati and a bachelor of business administration degree from Eastern Kentucky University.

**Tuesday, October, 29, 2013 | 9:00am – 10:00am**  
**Keynote Theater** (located near registration desk, see map on page 7)

## What Lies Ahead for U.S. Manufacturing?



What can manufacturers expect in the fourth quarter of 2013 and the first half of 2014? What manufacturing sectors are expecting growth? Should you add a second shift or build a new assembly line? Or should you batten down the hatches? How will future policy moves in Washington affect manufacturers and the U.S. economy as a whole? Find out when Daniel J. Meckstroth, Ph.D., vice president and chief economist for the Manufacturers Alliance for Productivity & Innovation, delivers the keynote address to open The ASSEMBLY Show. One of the nation's foremost economists, Meckstroth will share his insights on the current and future state of U.S. manufacturing.

# 5 New Reasons Why ASG Should Be Your 1 Source For Assembly Products & Services

**Over 1,000 New SKUs Right In the Palm of Your Hand**

## FIAM® Air Tools

### Global Leader in Pneumatic Tools & Systems

When the task is tightening a threaded fastener pneumatically, nothing beats Fiam air tools. Nutrunners, screwdrivers and more fill out this high-precision, gold standard line.



## High Torque X-PAQ™ with EH2 Tools

### Critical Assembly Applications Require Critical Solutions

Features Pulse Fastening Technology to reduce reaction typically associated with high torque tools. For higher torque applications requiring a torque range from 1 to 35 N.m.



## DTW Series Digital Torque Wrenches

### Multiple Measuring Options with Wireless Technology Available

Premium Digital Torque Wrenches feature torque or torque and angle measurement with a torque range of 1 to 2,000 N.m. Optional wireless module available for data reporting to PC.



## ST Series 'Smart Transducer' Torque Testers

### 'Plug & Play' Technology That Offers Ultimate Flexibility

ST Series Torque Testers save users time and money. One control module operates all 22 Smart Transducers covering 0.5 to 2,000 N.m. Optional wireless module available for data reporting to PC.



## FIAM® TOM Pneumatic Error-Proofing System

### Intelligent & Simple Process Monitoring for Fiam Pneumatic Screwdrivers

The Fiam TOM System ensures 0% error - 100% accuracy. A single system can manage up to eight different dual ported auto shut-off tools. Poka-Yoke system allows users to set torque and speed of a single or sequential program, each including up to 99 fasteners!

Get to Know What's New... **U** ASG Ultimate **GOLD** Products



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Products and Solutions for Assembly

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# KEYNOTE SPEAKERS

## Wednesday Keynote Speaker



### Michael F. Molnar

**Director, Advanced Manufacturing National Program Office**

**Chief Manufacturing Officer, National Institute of Standards and Technology**

**United States Department of Commerce**

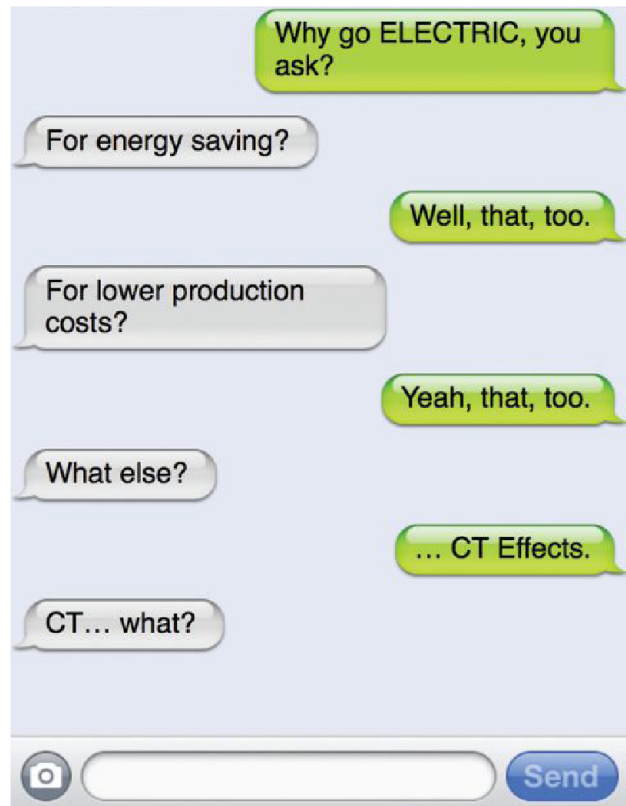
Mike Molnar is a lifelong “manufacturing guy” with 30 years of industry experience in advanced manufacturing with leadership roles in automated assembly and test systems, technology development, manufacturing systems, metrology, quality, sustainability and industrial energy efficiency. To provide an industry focus in 2011 he was named the first chief manufacturing officer of the National Institute of Standards and Technology and now leads the interagency Advanced Manufacturing National Program Office for the White House. Mike’s credentials include service as federal fellow of the White House Office of Science and Technology Policy, and election as fellow of both the American Society of Mechanical Engineers and the Society of Manufacturing Engineers.

**Wednesday, October, 30, 2013 | 9:00am – 10:00am**  
**Keynote Theater** (located near registration desk, see map on page 7)



## **Private-Public Partnerships for U.S. Advanced Manufacturing**

A key challenge to restoring U.S. leadership in advanced manufacturing is addressing the so-called “missing middle” – the technical and business barriers of scaling-up an innovative new material, process, or technology for robust production use. This plenary talk explores the National Network for Manufacturing Innovation as a means to accelerate U.S. innovation. These Manufacturing Institutes are places where industry and academia partner on industry-relevant challenges. As announced by the President, three full-scale institutes will be competitively awarded by the end of 2013. The talk will review the NNMI progress and design, which builds on the extensive public input and the progress of the pilot Institute on Additive Manufacturing. Other new initiatives to support industry-led partnerships, such as the Advanced Manufacturing Technology Consortia (AMTech), will also be highlighted and explained.



# CT *Effects*

[www.IntelligentActuator.com/go/CT](http://www.IntelligentActuator.com/go/CT)



See us at The ASSEMBLY Show, Booth #613



**IAI**  
Quality and Innovation

## SPECIAL EVENTS

### Welcome Reception / Taste of Rosemont

Monday, October 28 • 5:00pm – 8:00pm

Location: Exhibit Hall

Sponsored by:



Networking is one of the top reasons for attending The ASSEMBLY Show, so what better way to kick off the event than with a Welcome Reception right on the show floor.

This reception will bring back the widely talked about "Taste of Rosemont" featuring flavors and cuisine from local area restaurants.

The taste of Rosemont speciality restaurants will serve food from 5:00 – 6:30 PM, but we invite you to stay for the duration of the reception so that you can connect with hundreds of suppliers, buyers and users of assembly equipment while you continue to enjoy drinks and music in a relaxed and friendly environment.

#### Taste of Rosemont Participating Specialty Restaurants

- ADOBE GILA'S MEXICAN RESTAURANT
- BASILICO RISTORANTE
- CAFÉ ZALUTE
- CAPITAL GRILLE
- CARLUCCI FINE ITALIAN FOOD
- CUCINA BIAGIO ITALIAN RISTORANTE
- FIVE ROSES IRISH PUB
- GIBSONS STEAKHOUSE
- GIORDANO'S PIZZA
- HARRY CARAY'S RESTAURANT
- HILTON ROSEMONT HOTEL
- HOFBRAUHAUS GERMAN RESTAURANT
- KING'S BOWLING
- NICK'S FISHMARKET
- PARK TAVERN
- ROSEMONT CATERING
- ROSEWOOD RESTAURANT & BANQUETS

### Networking Reception

Tuesday, October 29 • 5:00pm – 7:00pm

Location: Keynote Theater

Sponsored by:



On the second day of The ASSEMBLY Show, networking will continue as trade show participants gather in the Keynote Theater for a luxurious Networking Reception sponsored by Nordson EFD. Allowing exhibitors to step away from their booths, this reception promotes even more mingling amongst all event participants. Enjoy libations, hors d'oeuvres and live music as you make connections with new professionals and continue to build relationships with existing business partners.

### Manufacturing Revival Radio

Celebrate the resurgence and innovation of manufacturing

Tuesday, October 29 • 10:30 am – 5:00 pm

Location: Assembly Magazine Booth #116

Manufacturing Revival Radio features companies, experts and innovators leading the charge and blazing a new path in American and global manufacturing. The ASSEMBLY Show is proud to have hosts Todd Schnick and Todd Youngblood of Manufacturing Revival Radio conduct interviews on Tuesday, October 29. These interviews will be aired live on the show floor via loudspeakers, so while you're walking the exhibit hall stop by ASSEMBLY Magazine's booth 116 and check out this fun activity featuring leaders in the industry sharing and discussing the latest innovations, new opportunities, technologies and products that are part of America's manufacturing revival.





# Even Frankenstein Needed a Little Assembly.

The Henkel booth is full of “SCARY-GOOD” products that will increase your assembly efficiency and reduce your overall costs!

- **NEW** Primerless, oil-tolerant Retaining Compounds for stronger cylindrical assemblies
- Threadlockers, Threadsealants and Gasketing Products
- **NEW** Low Odor/Low Bloom Instant Adhesives
- AssureCure® Light Cure Cyanoacrylates
- Structural Adhesives, including low surface-energy, polyolefin bonders
- Elastomers, including new silicones and potting compounds

**1-800-LOCTITE**

For more information please visit  
[www.henkelna.com/assembly](http://www.henkelna.com/assembly)

## Booth #333



See us at The ASSEMBLY Show, Booth #333

Visit Henkel Booth #333 for **FREE SAMPLES** and to be entered for your chance to **WIN!**

**SCARY-GOOD PRODUCTS.**

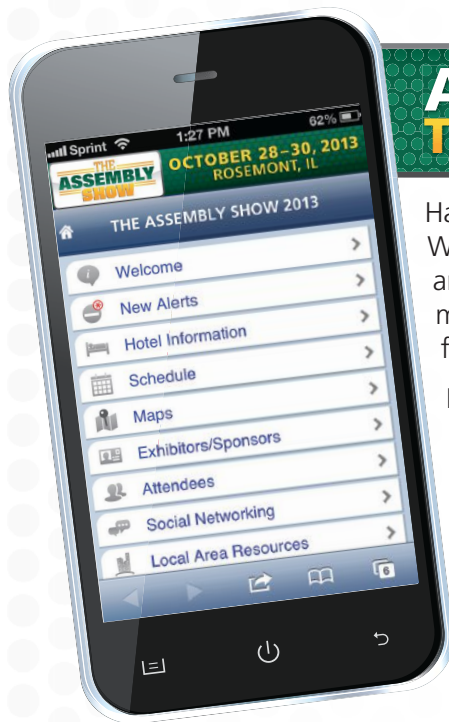
ATTEND HENKEL'S  
SPECIAL PRESENTATION:

**INCREASING STRENGTH AND  
RELIABILITY OF PRESS FITS  
WITH LOCTITE® PRODUCTS**

Wednesday, October 30th  
11:15 a.m. to 11:55 a.m. ~ Showcase Theater

**FREE TO ALL EXHIBIT HALL ATTENDEES!**





## AVAILABLE NOW! THE ASSEMBLY SHOW FREE MOBILE APP

Have the The ASSEMBLY Show and the city of Rosemont at your fingertips. With this NEW mobile app, quickly find exhibitors, attendee list, education, events and more from your mobile device, anywhere, anytime. Plus, you won't miss a minute of the action and excitement from the show as you read live comments from Twitter and Facebook.

Beyond all the show info and updates, there are also valuable preshow planning tips, discounted hotel rooms, local transportation and venue details. Whether you are on the show floor or on the go, The ASSEMBLY Show is now accessible from the palm of your hand.

**AVAILABLE NOW** on iPhone, Android, BlackBerry and Windows Mobile.

Search your app store: **TAS13**



## MOBILE APP CONTENT

**WELCOME**  
Includes welcome video and organizer contact information.

**ALERTS**  
Real time communication before, during and after the event.

**HOTEL**  
A drop down list of event hotels, which can include hotel photo, address, phone, fax, website and description about amenities and services.

**EXHIBITOR/SPONSOR LISTING**  
Two separate pages, one for exhibitors and one for sponsors organized into searchable categories in addition to alphabetical and booth number listings. There are free basic listings or companies can upgrade to premium listings with a logo and pdf or video link.

**SCHEDULE**  
Information on meetings, events and speakers at the show. Includes agenda title, date, start and end times, sponsor name, meeting room and description.

**ATTENDEES**  
Name, title and company listing of all registered attendees.

**SOCIAL NETWORKING**  
Follow the event and comment on Facebook, Twitter, and LinkedIn.

**MAPS**  
View exhibition hall layout and hotel area.

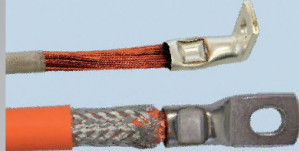
**Local Area Resources**  
Information on local dining, entertainment, transportation and general resources.

Thank you Mobile App Sponsor



**YOUR PARTNER FOR TURNKEY SOLUTIONS SINCE 1972**  
**RESISTANCE WELDED CONNECTIONS FROM 0.01 MM<sup>2</sup> UP TO 300 MM<sup>2</sup>**

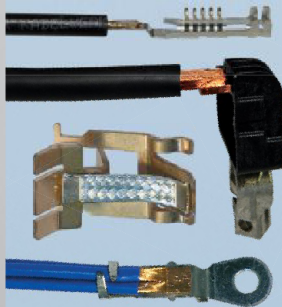
HOT  
CRIMPING



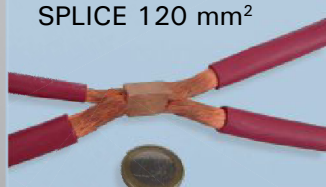
RESISTANCE  
BRAZING



WIRE  
TERMINATION

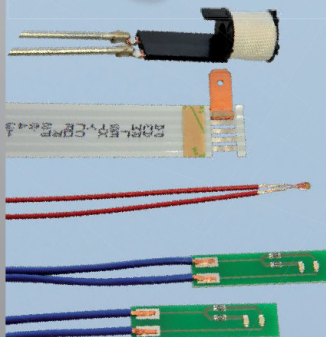


WIRE  
SPlicing



SPLICE 120 mm<sup>2</sup>

MICRO SPOT  
WELDING



TURNKEY CELL for E-DRIVE production

MANUAL module / Hot crimping / wire termination

### RESISTANCE WELDING FEATURES:

- ▶ **RELEASED** by automotive and medical industry
- ▶ welding **MAGNET WIRES** without stripping
- ▶ **NO AGING** of the connection / **TIME SAVING** process
- ▶ **LOWER RESISTANCE** than crimping plus soldering
- ▶ welding **COPPER, TIN** or different **COATINGS**
- ▶ welding **MIXED MATERIAL** combinations
- ▶ **WIRE SPLICING** 0,05 mm<sup>2</sup> to 120 mm<sup>2</sup>
- ▶ **WIRE TERMINATION** up to 150 mm<sup>2</sup>
- ▶ **HOT CRIMPING** up to 300 mm<sup>2</sup>
- ▶ manual, semi- and full automatic stations available
- ▶ **TURNKEY SOLUTIONS** with system integration
- ▶ **RELIABILITY** by process monitoring via PC controllers

### APPLIATION RANGE:

- ▶ E-DRIVES
- ▶ HF WIRES
- ▶ TRANSFORMERS
- ▶ WIRE HARNESS
- ▶ HV - CONNECTORS
- ▶ EV - CHARGING PLUGS
- ▶ LI BATTERY CELLS
- ▶ FLAT RIBBON CABLE
- ▶ BUS BAR WELDING
- ▶ INTEGRATED SYSTEMS

beneficial easy welder KM 15 for compacting wires



AUTOMOTIVE / MEDICAL / SOLAR

# CONFERENCE PROGRAM

## MONDAY, OCTOBER 28, 2013

**12:00PM – 8:00PM**      **REGISTRATION OPEN**

**5:00PM – 8:00PM**      **EXHIBIT HALL OPEN**

5:00pm – 8:00pm • Exhibit Hall

### Welcome Reception

Networking is one of the top reasons for attending The ASSEMBLY Show, so what better way to kick off the event than with a Welcome Reception right on the show floor. This reception will bring back the widely talked about "Taste of Rosemont" featuring flavors and cuisine from local area restaurants. The taste of Rosemont speciality restaurants will serve food from 5:00 – 6:30 PM, but we invite you to stay for the duration of the reception so that you can connect with hundreds of suppliers, buyers and users of assembly equipment while you continue to enjoy drinks in a relaxed and friendly environment.

**TASTE OF ROSEMONT RUNS FROM 5:00pm – 6:30pm**

Sponsored By:



## TUESDAY, OCTOBER 29, 2013

**7:00AM – 7:00PM**      **REGISTRATION OPEN**

9:00am – 10:00am • Keynote Theater



### Keynote Presentation — What Lies Ahead for U.S. Manufacturing?

**Daniel J. Meckstroth, Ph.D.**, Vice President and Chief Economist Manufacturers Alliance for Productivity & Innovation

What can manufacturers expect in the fourth quarter of 2013 and the first half of 2014? What manufacturing sectors are expecting growth? Should you add a second shift or build a new assembly line? Or should you batten down the hatches? How will future policy moves in Washington affect manufacturers and the U.S. economy as a whole? Find out when Daniel J. Meckstroth, Ph.D., vice president and chief economist for the Manufacturers Alliance for Productivity & Innovation, delivers the keynote address to open The Assembly Show. One of the nation's foremost economists, Meckstroth will share his insights on the current and future state of U.S. manufacturing.



**10:00AM – 5:00PM**      **EXHIBIT HALL OPEN**

11:15am – 11:55am • Showcase Theater #2



### New Technology In Cordless Assembly Tools Inspires An Industry Shift

**Kevin Reiland**, Product Manager, Panasonic Assembly Tools

What if you could improve plant floor safety, cut manufacturing costs, and contribute to saving the planet? Discover how cordless assembly tools have revolutionized manufacturing and eliminated safety issues such as trip hazards. You will learn how cordless tools can save energy compared with air tools and provide environmental rewards in reducing CO<sub>2</sub> emissions. In addition, we will reveal the industry shift from air tools to cordless tools with numerous cost-saving examples, evidence of improved ergonomics with reactionless tools, and demonstrations of how cordless tools enhance product quality.

By attending, you will gain the expertise necessary to incorporate cordless assembly tools into your production process.



Presented By:  
**Panasonic**  
Assembly Tools

## Showcase Theater Presentations

Free to all registered attendees, The Assembly Show's Showcase Theater Presentations take place in customized learning theaters right on the show floor, during show floor hours and feature the best and brightest exhibitors and expert speakers. These presentations will provide essential information to help improve your business, as well as demonstrate the latest technological advances in everything "ASSEMBLY." **See map on page 73 for location.**



12:00pm – 12:40pm • Showcase Theater #1

## **The Sometimes Unexpected Challenges to Consider When Using Advanced Materials in Next Generation Products, Especially in Medical Devices**

**Len Czuba, President, Czuba Enterprises**

New materials of construction offer improved performance features that are not available in legacy materials. But by going to next generation and specialty polymers, new methods of processing and assembly must be developed and used. A look at the assembly and processing changes required to switch from legacy materials to newer alternatives will be covered.



12:45pm – 1:25pm • Showcase Theater #2

## **Recommendations for Manufacturing Growth in the Tri-State Region**

**Kelly O'Brien, Senior Vice President of Economic Development, Chicagoland Chamber of Commerce, Tri-State Alliance for Regional Development**

Earlier this year, the Chicagoland Chamber of Commerce and the Tri-State Alliance for Regional Development published a landmark review of the assets and challenges to economic growth in the Chicago tri-state metropolitan area. Manufacturing continues to be important to the region, but there are stumbling blocks ahead. For example, there is a serious mismatch between demand and supply of skilled workers in the region. And, the manufacturing industries that have remained in the region have become more capital intensive. In this presentation, you'll learn the challenges facing the region's manufacturers and what's being done to address them.



1:30pm – 2:10pm • Showcase Theater #1

## **Making the Leap into Automation for Higher Throughput**

**James Bryant, Product Line Manager, Auxiliary Equipment, Nordson EFD**

How much could you save by making improvements to your fluid dispensing process? What if you could increase production throughput, reduce waste of expensive dispensing fluids and minimize operator fatigue? Automated fluid dispensing offers the advantages of speed, precision and minimized material use. Whether you're looking at taking the first step into automation or seeking upgraded capabilities to your existing process, this presentation will help you prioritize and sort through the choice of products, benefits and possible difficulties that are involved in escalating levels of automation in your process. An increased reliance on automation is the future for all growing companies; come learn how to take your assembly process to the next level.

Presented By:



2:15pm – 2:55pm • Showcase Theater #2

## **Is LED Technology in Your Future?**

**Virginia Read, Market Segment Manager - Industrial, Dymax Corporation**

How much can you save with LED curing? Can you afford to walk away from process savings in your assembly bonding application? Whether you're looking at LED curing technology for energy efficiencies, increased curing system life, or for use with heat sensitive substrates, this presentation will help sort the facts from the myths about LED technology and demonstrate the process savings an optimized LED curing system can provide.



Presented By:



3:00pm – 3:40pm • Showcase Theater #1

## **Advancements in Reaction Free Tools — Taking the Twist out of Torque**

**Dave Garner, Marketing Manager — Automation Tools and Reaction Free Tools, Desoutter Industrial Tools**

This presentation will discuss innovations in assembly tools. Manufacturers must tighten fasteners to the correct torque specification and meet high quality standards. At the same time, they must provide a tool that takes away the physical reaction of applying torque. By providing assembly line operators with tools that are comfortable to use, manufacturers can reduce costs, including the risk of employees with work-related repetitive stress injuries.

Presented By:



# CONFERENCE PROGRAM

5:00pm – 7:00pm • Keynote Theater

## Networking Reception

On the second day of The ASSEMBLY Show the networking will continue as trade show participants gather in the Keynote Theater for a luxurious Networking Reception sponsored by Nordson EFD. Allowing exhibitors to step away from their booths, this reception promotes even more mingling amongst all event participants. Enjoy libations, hors d'oeuvres and live music as you make connections with new professionals and continue to build relationships with existing business partners.

Sponsored By:



## WEDNESDAY, OCTOBER 30, 2013

7:00AM – 3:00PM

REGISTRATION OPEN



9:00am – 10:00am • Keynote Theater

## Keynote Presentation — Private-Public Partnerships for U.S. Advanced Manufacturing

**Michael F. Molnar**, Director, Advanced Manufacturing National Program Office  
Chief Manufacturing Officer, National Institute of Standards and Technology

A key challenge to restoring U.S. leadership in advanced manufacturing is addressing the so-called “missing middle” – the technical and business barriers of scaling-up an innovative new material, process, or technology for robust production use. This plenary talk explores the National Network for Manufacturing Innovation as a means to accelerate U.S. innovation. These Manufacturing Institutes are places where industry and academia partner on industry-relevant challenges. As announced by the President, three full-scale institutes will be competitively awarded by the end of 2013. The talk will review the NNMI progress and design, which builds on the extensive public input and the progress of the pilot Institute on Additive Manufacturing. Other new initiatives to support industry-led partnerships, such as the Advanced Manufacturing Technology Consortia (AMTech), will also be highlighted and explained.



10:00AM – 3:00PM

EXHIBIT HALL OPEN

10:30am – 11:10am • Showcase Theater #1

## Found Money: Resources for Midwest Manufacturers



**Manny Rodriguez**, Vice President of Business and Economic Development,  
Alliance for Illinois Manufacturing

There are more than 95 taxpayer-supported programs for grants, low-cost loans, tax incentives and technical services for small and midsized manufacturers, including: Trade Adjustment Assistance; the Employee Training Investment Program; the Workforce Investment Act; Tax Incremental Financing; utility rebates; property tax abatement programs; and a host of others. Do you know how to get this money? You will if you attend this presentation.



11:15am – 11:55am • Showcase Theater #2

## Increasing Strength & Reliability of Press Fits

**Doug Lescarbeau**, North American Director of Technology Management  
for Anaerobic Products

Retaining compounds provide “next generation” press fits and increase the strength and reliability of traditional press fits. These materials increase strength and reliability and are used to secure bearings, bushings, gears and cylindrical parts onto housings or shafts. When cured, anaerobic retaining adhesives fill the inner space between components, providing a physical and chemical barrier that eliminates fretting, oxidation and galvanic corrosion.



Presented By:



# CONFERENCE PROGRAM



12:00pm – 12:40pm • Showcase Theater #1

## **The New Illinois Manufacturing Laboratory: What Can It Do for Your Company?**

**Scott Miller**, Interim Executive Director, Illinois Manufacturing Lab

In February, Illinois Gov. Pat Quinn announced his intention to help establish the Illinois Manufacturing Laboratory, an independent, nonprofit entity to be located in Chicago and involve the University of Illinois and the National Center for Supercomputing Applications of Urbana. Quinn pledged \$5 million for the startup, which would be matched with additional funding from outside sources. The laboratory will be a place where companies big and small can come to learn and use the world's most sophisticated tools and software. Discover how this cutting-edge facility can help your company.



12:45pm – 1:25pm • Showcase Theater #2

## **Optimize Your Vision Inspection Systems**

**Dan McKiernan**, President, eFlex Systems

Vision by eFlex Systems is the storage and retrieval answer for images generated daily by your manufacturing process. Learn how to save time and money while reducing first time quality issues caused by false rejects and camera related downtime.



Presented By:



1:30pm – 2:10pm • Showcase Theater #1

## **Next Generation Services for Today's Manufacturer**

**John Bradarich**, Affiliate Relations Manager, Illinois Manufacturing Excellence Center

Next Generation Strategies help manufacturers transform and become world-class organizations to remain competitive in the global marketplace. Company leadership, strategies and support systems often must change to aid in the transformation. As a catalyst for transforming the state of manufacturing, IMEC assists manufacturers with elimination of non-value added activities, reduction in defects and minimizing scrap, and developing advanced technology and business practices for an optimized supply chain. Such strategies will help companies reduce costs and improve efficiency in order to compete head-to-head with foreign competition. In this presentation, John will highlight the NGM strategies and trends important to today's manufacturer and how IMEC's services can support the transformation.

**3:00PM**

**THE ASSEMBLY SHOW CONCLUDES**



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## **The ASSEMBLY Show is BROADCASTING LIVE!**

Love what you heard? Want to share sessions with a colleague? The ASSEMBLY Show is offering the opportunity to attend selected sessions remotely through LIVE Webinars for FREE. It will also allow for networking with peers, downloading resources, social Integration and more. Look for the broadcast icon throughout the agenda to indicate the available sessions.

# EXHIBITORS

 indicates a charter exhibitor.

## **ACL Inc.** **Booth 442**

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## **Adhesives Research Inc.** **Booth 548**

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dhariharan@arglobal.com  
www.adhesivesresearch.com

Adhesives Research develops and manufactures pressure-sensitive adhesives (PSAs) that offer a world of design benefits without the problems associated with glues, rivets, spot welds and other traditional fastening methods. Often the lowest-cost solution, PSAs are a clean and efficient way to bond, seal or cushion in your application or process. Technical expertise and 50 years of experience have enabled us to engineer a huge variety of adhesives that can adhere to practically any surface or material under almost every environmental condition. Some examples of our products include electrically conductive adhesives; adhesives for low-surface-energy materials; delayed-cure structural adhesives; acrylic-, silicone-, and rubber-based adhesives; heat-activated adhesives; and double-sided, single-sided and transfer adhesive constructions. PSAs can be customized.

## **Advanced Test Concepts Inc.** **Booth 1112**

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Advanced Test Concepts Inc. (ATC Inc.)

has innovative Micro-Flow sensors for leak testing. Our patented technology offers an effective alternative to helium and pressure decay testers with shorter cycle times, more temperature stability, and low measurement ranges. ATC's leak testers provide high repeatability with direct measurement using air.

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Since 1970, AIMCO has been providing global assembly and critical bolting tools for the automotive, electronics, aerospace, energy services and general assembly industries. AIMCO has become a leading importer and exporter of industrial power tools, and is the North American exclusive importer for Japanese manufacturer Uryu Seisaku Ltd. AIMCO is the only company in the industry to offer a comprehensive line of electric, pneumatic and cordless industrial power tools for assembly and high-capability bolting applications. Everything we manufacture is made in the USA. Our product line, coupled with our commitment to excellence in servicing our customers, make AIMCO one of the industry's leaders.

## **ALFING Corp.** **Booth 912**

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Plymouth, MI 48170  
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www.alfing.com

ALFING supplies components and systems for assembly technology. We support our customers from the start of concept definition all the way through to the finished assembly system. ALFING specializes in leading technical solutions for nutrunner technology, assembly systems and automation. The continuous development of our products, in close association with our customers, ensures our position as an

industry leader in these areas. We are among the leading suppliers of electrical handheld and built-in nutrunners. Our nutrunner systems are the ideal selection for critical fastening operations that require high precision, quality, safety and reliability. For more than 30 years, we have been developing, designing and producing manual, semiautomatic, and fully automatic assembly machines and systems for the automotive industry and its suppliers. The focus of our activities is the assembly of components and subassemblies for powertrains.

## **Alliance for American Manufacturing** **Booth 343**

711 D St. NW  
Washington, DC 20004  
202-393-3430  
info@aamfg.org  
www.americanmanufacturing.org

The Alliance for American Manufacturing is a nonprofit, nonpartisan partnership formed in 2007 by some of America's leading manufacturers and the United Steelworkers. Our mission is to strengthen American manufacturing and create new private-sector jobs through smart public policies. We believe that an innovative and growing manufacturing base is vital to America's economic and national security, as well as to providing good jobs for future generations. AAM achieves its mission through research, public education, advocacy, strategic communications, and coalition building around the issues that matter most to America's manufacturers and workers.

appliance  
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## **Appliance Design Magazine** **Booth 917**

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Appliance Design is the only source of news for design engineers at OEMs



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Arc-Tronics is a full-service EMS provider for turnkey production of printed circuit board assemblies, cable and harness assemblies, and complete box builds. Our facilities are located in the United States. The company is ISO 9001:2008 and ISO 13485:2003 certified, AS-9100 Revision C certified, ITAR registered, and certified in UL panel building.



## **Aries Engineering Co. Inc./HyperCyl** **Booth 433**

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sales@hypercyl.com  
www.hypercyl.com

Aries Engineering is a diversified manufacturer of hydropneumatic cylinders and presses designed for use in a wide range of assembly and forming applications. After pioneering new technology in air-over-oil intensification in 1994, Aries Engineering has grown to offer a complete range of assembly and forming solutions for customers in the industrial automation, manufacturing, commercial, aerospace and defense industries. Aries Engineering has expanded on its product line by adding an electromechanical actuator.

HyperCyl-EMA is a robust, servo-driven actuator designed for precision assembly applications or applications not suited for standard HyperCyl or IntelliCyl products. Available in both roller screw and ballscrew configurations, HyperCyl-EMA provides a new level of price and performance in the automotive, aerospace, defense, appliance, medical, electronics and transportation industries in a wide range of applications.

## **Arthur G. Russell Co. Inc.** **Booth 1033**

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The Arthur G. Russell Co. Inc. (AGR) designs, develops and supplies innovative automatic assembly systems for the medical device, consumer, food and electronics industries. AGR can provide complete systems that include adhesive application and curing, welding, high-speed inspection, labeling and filling. We provide the integration required for turnkey systems. We are an ISO 9001:2008 registered private company with more than 65 years of designing, building, installing and supporting world-class assembly, test, inspection and packaging systems.



## **ASG Products & Solutions for Assembly** **Booth 1133**

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ISO 9001:2001 certified manufacturer and distributor of products and solutions for assembly offers a complete line of torque control screwdrivers, error-proofing products, workstation

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# ASSEMBLY

## **ASSEMBLY Magazine** **Booth 116**

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www.assemblymag.com

ASSEMBLY is a fully integrated media brand including a monthly magazine delivered in print and digital format. We also offer multiple electronic media products, including a Web site, e-newsletters, webinars, podcasts, video, white paper postings, and blog reports, all serving the \$2.7 billion assembly market with world-class information on the latest technologies and best practices.

## **Assembly Solutions** **Booth 1238**

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Assembly Solutions is a full, turnkey electronic contract manufacturer. ISO

# EXHIBITORS

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## ATC Automation Booth 523

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www.automationtool.com

ATC Automation provides custom assembly and test automation for a variety of industries, including automotive, energy storage, medical, and consumer products. The size of ATC's automated systems ranges from complete "factories in a box" to small, lean systems that can be integrated into a current manufacturing process. ATC is an ISO 9001:2008 certified company with decades of experience building automated solutions. Our manufacturing facility covers 134,000 square feet—50,000 of which, is considered a "clean facility" catering to the energy storage and life science industries. ATC is a member of the TASI group.



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ATEQ is a manufacturer of leak, flow and electrical testing instruments for production quality control. ATEQ instruments are used in many industries for a variety of applications. Our products are known for speed, accuracy and repeatability. We have started promoting our Gen6 products. ATEQ instruments are sold and serviced in 32 countries.



## ATI Industrial Automation Booth 233

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ATI Industrial Automation is the leading engineering-based world developer of robotic accessories and robot arm tooling, including automatic tool changers, multi-axis force and torque sensing systems, utility couplers, robotic deburring tools, robotic collision sensors, manual tool changers, and compliance devices. Our robot end-effector products are found in thousands of successful applications around the world. Since 1989, our team of mechanical, electrical, and software engineers has been developing cost-effective, state-of-the-art end-effector products and solutions that improve robotic productivity.



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## Automatica 2014 Booth 919

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Automatica is the leading platform for automation and production-process innovations and will take place in Munich, Germany, June 3-6, 2014. At Automatica, the manufacturing industry will come together to showcase the world's largest range of robotics, assembly solutions and industrial machine-vision systems. In 2012, more than 720 exhibitors from 40 countries presented their solutions, ranging from individual components to complete systems. Approximately 31,000 visitors from more than 100 countries were in attendance. Automatica 2014 will showcase the entire value-added chain while bringing together suppliers and customers from all over the world.

## Balluff Inc. Booth 122

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Booth 132

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jhammerstrom@bannerengineering.com  
www.bannerengineering.com

Banner Engineering is a leading global manufacturer of sensors, optical safety and wireless I/O network products.

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# EXHIBITORS

semiconductor, food and beverage, and material handling.

## Bioformix

### Bioformix Inc. Booth 933

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513/448-0301  
bobsmith@bioformix.com  
www.bioformix.com

Bioformix develops sustainable polymer platforms. Our products polymerize with little to no energy at high speeds that can outperform current products. Our initial focus is on high-performance adhesives, sealants, inks and coatings based upon our novel technology for making a wide range of stable disubstituted vinyl monomers. Bioformix

manufactures Nexaweld instant structural adhesives and Nexabond 2500 instant wood adhesives.

### Boca Bearing Co. Booth 543

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Specializing in miniature radial ceramic bearings, hybrids and full ceramics. Full ceramics in zirconia and silicon nitride. UDL tungsten disulfide dry lube and LSL solid lube, including graphite and food grade polymer. Kyodo Yushi grease distributors, including robot-specified Molywhite RE.00 (FANUC) and Multemp FZ No.00 (Kawasaki). New product includes thermal plastic mounted units and miniature stainless steel mounted units.

## Rexroth Bosch Group

### Bosch Rexroth Corp. Booth 607

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## **Bossard North America Booth 807**

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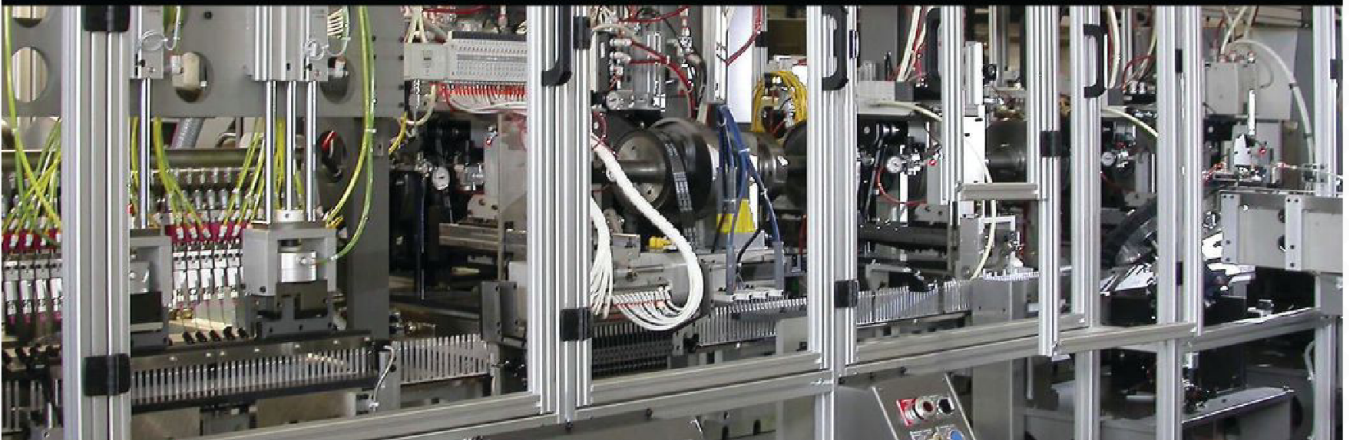
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Booth 517

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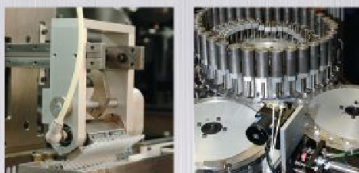
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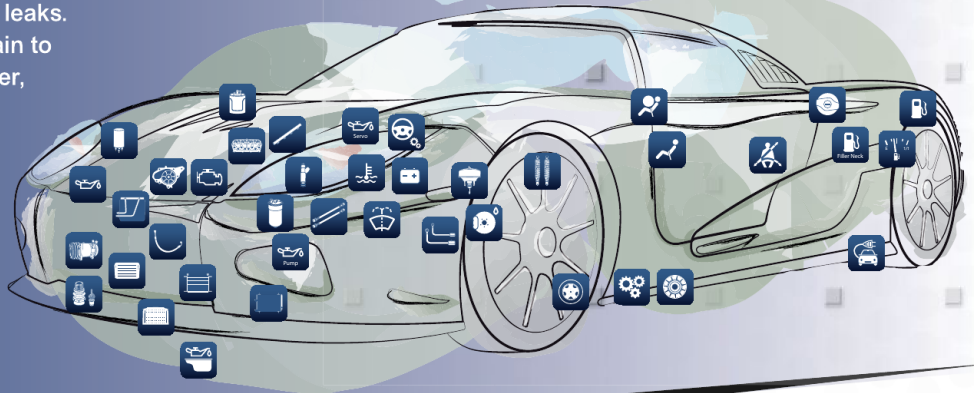
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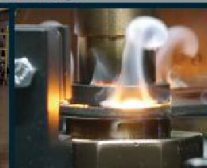
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sstenhaug@makitausa.com  
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billm@microinst.com  
www.microinst.com

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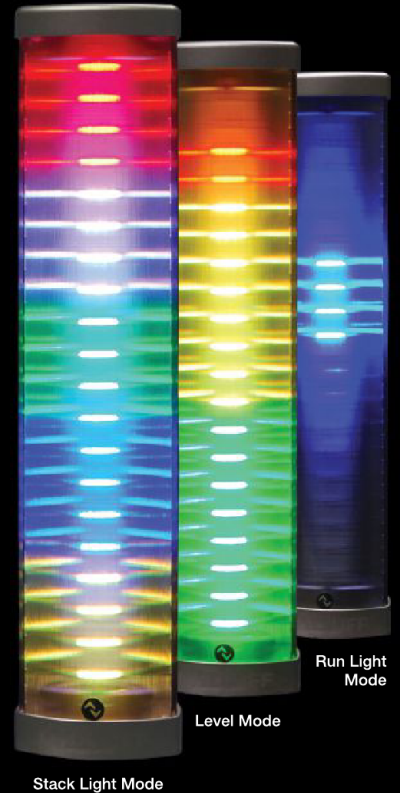
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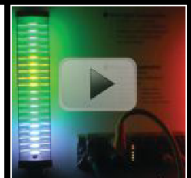
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## **Virtek Vision International Inc.**

**Booth 438**

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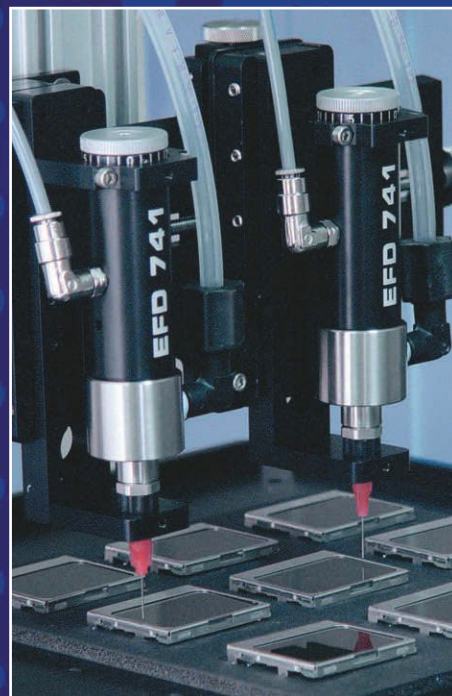
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## Northrop Grumman Soars With Automation

A new assembly line in southern California may change the way future generations of aerospace engineers approach production, just like Ford's Highland Park plant revolutionized the auto industry a century ago.

Northrop Grumman Corp.'s Integrated Assembly Line (IAL) in Palmdale, CA, represents a significant shift in how airframes are assembled, enabling the defense contractor to achieve a 450 percent increase in throughput.

The two-year-old IAL produces the center fuselage of the F-35 Lightning II, which will become the backbone of the U.S. military for the next three decades. Once production fully ramps up in a few years, assembly time for the new supersonic stealth aircraft will be less than half that of current-generation fighters. The IAL will play a key role in meeting that target.

"The IAL maximizes robotics and automation, providing additional capacity and assembly capability, while meeting engineering tolerances that are not easily achieved using manual methods," says Brian Chappel, vice president of the F-35 program at Northrop. "It is central in producing the F-35's center fuselage, as well as increasing the program's affordability, quality and efficiency.

"The IAL design uses a system-engineering approach to integrate tooling and structure transport, system automation, automated drilling cells, and tooling mechanization coordinated across multiple build centers," explains Chappel.

Northrop's Palmdale facility is the recipient of the 2013 Assembly Plant of the Year award sponsored by ASSEMBLY Magazine. The innovative plant was chosen for the 10th annual award because of its ground-breaking approach to airframe assembly.

The IAL represents a dramatic departure for the aerospace industry, which has traditionally relied on large, monument-style assembly jigs and fixed automation, such as large gantry systems and product-specific fixtures.

Automation systems used by American automakers inspired the new flexible assembly line. In fact, a team of Northrop engineers made several field trips to Detroit to learn how the auto industry tackles automation.

The IAL represents a huge breakthrough in using robots to produce low-cost, flexible airframes with reduced cycle times, quality improvements and safety enhancements. Articulated robots equipped with multifunctional end effectors are used for drilling, sealant application and fastener insertion.

By using robots, Northrop engineers reduced a 52-hour manual process to a 12-hour automated process and also streamlined floor space. The new line also features an automated guided vehicle system that eliminates the need for



time-consuming overhead cranes.

The multimillion dollar investment in automation allows very precise tolerances to be maintained with drilling systems. Indirect savings from automation incorporated into the IAL line include an 85 percent reduction in lost-time injuries due to the stress of manual drilling. There's also been a 90 percent reduction in defects and an increase in hole quality.

### About the Award

The Assembly Plant of the Year award was initiated in 2004 to showcase world-class U.S. production facilities, and the people, products and processes that make them successful. All manufacturers that assemble products in the United States are invited to nominate their plants.

The goal of the award is to identify a state-of-the-art facility that has applied world-class processes to reduce production cost, increase productivity, shorten time to market or improve product quality.

As winner of the 10th annual Assembly Plant of the Year competition, Northrop Grumman's Palmdale, CA, facility received an engraved crystal award and a commemorative banner.

Previous recipients of the Assembly Plant of the Year award were: Ford Motor Co. (Wayne, MI); Philips Respironics (New Kensington, PA); Eaton Corp. (Lincoln, IL); Batesville Casket Co. (Manchester, TN); IBM Corp. (Poughkeepsie, NY); Schneider Electric/Square D (Lexington, KY); Lear Corp. (Montgomery, AL); Xerox Corp. (Webster, NY); and Kenworth Truck Co. (Renton, WA).

A nomination form for the 2014 Assembly Plant of the Year award will be available online at [www.assemblymag.com](http://www.assemblymag.com) in early January.



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PUTTING TOGETHER THE 2014 ASSEMBLY SHOW

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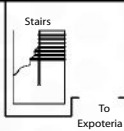
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**We look forward to having you as our guests again in 2014!**

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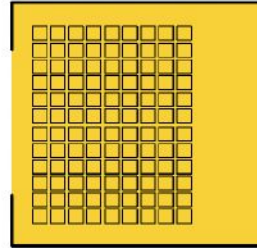
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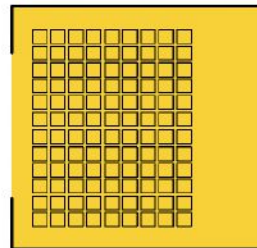
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