

— OFFICIAL — SHOW PROGRAM & EXHIBIT GUIDE

THE ASSEMBLY SHOW

OCTOBER 27–29, 2015

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ROSEMONT, IL**

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The Assembly Show - October 27 - 29, 2015 - Booth 331
Donald E. Stephens Convention Center, Rosemont, IL

see links at atcautomation.com or call 931-528-5417

See us at The ASSEMBLY Show, Booth 331



WELCOME TO THE ASSEMBLY SHOW 2015



Dear ASSEMBLY Show Attendee,

I would like to welcome you to the third annual ASSEMBLY Show here in Rosemont, IL.

As the assembly market's publication of record, we are proud to 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 more than 240 exhibitors representing the very best from the vendor community. Exhibitors have come to showcase their latest products and solutions to meet your current challenges. In addition, the show offers an expanded 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

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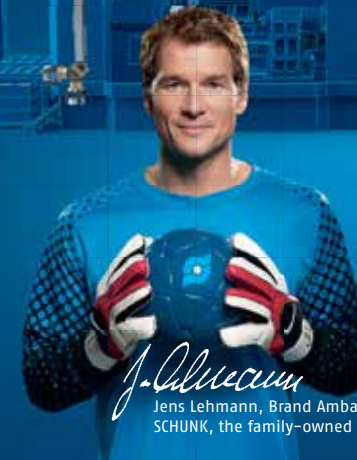
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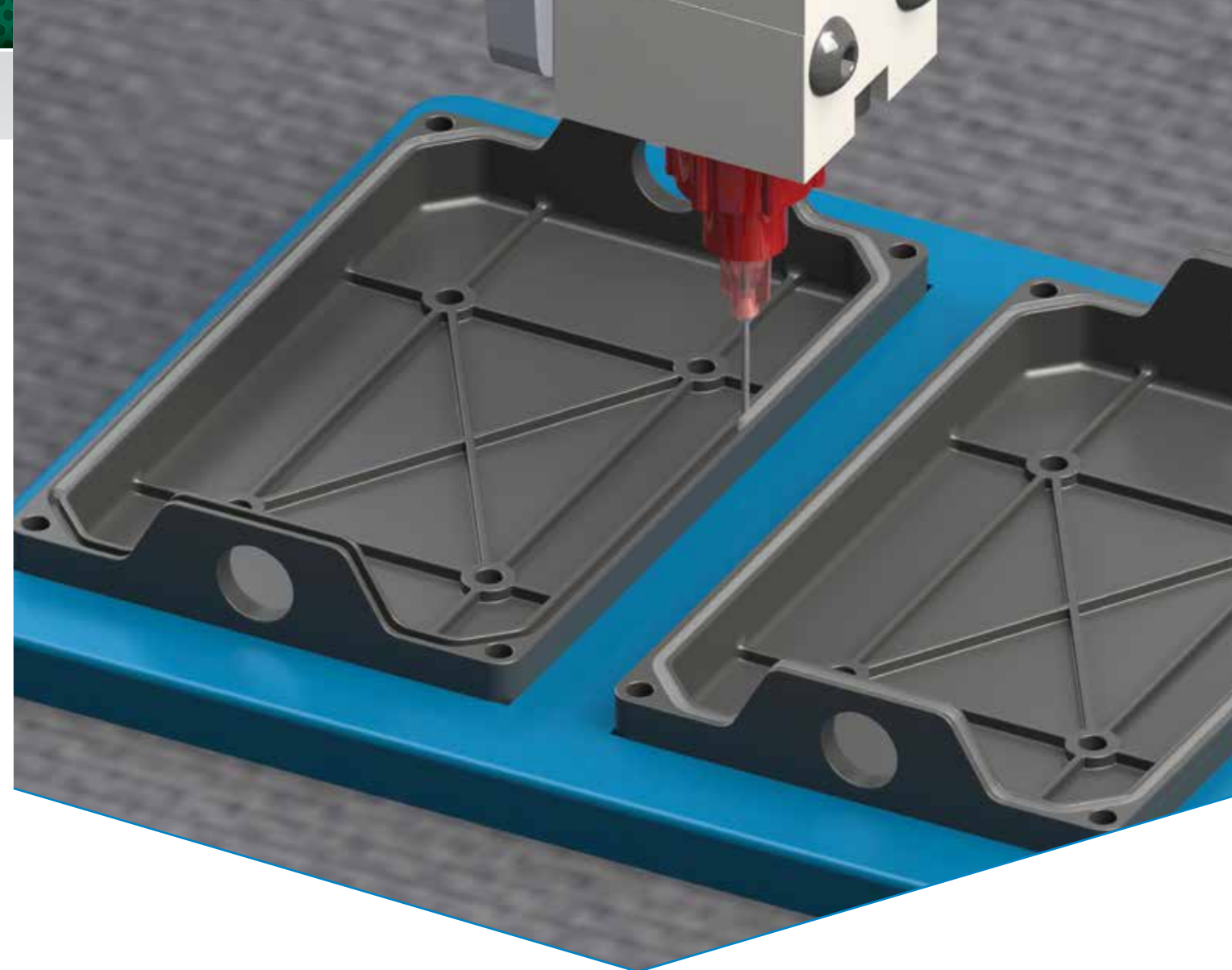
See us at The ASSEMBLY Show, Booth 313



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AGENDA AT A GLANCE

TUESDAY, OCTOBER 27

Pre-Show Workshops • 1:00 pm – 4:00 pm Welcome Reception/Exhibit Hall • 4:00 pm – 7:00 pm

WEDNESDAY, OCTOBER 28

Keynote Presentation • 9:00 am – 10:00 am Exhibit Hall / Showcase Theater • 10:00 am – 5:00 pm
Networking Reception • 5:00 pm – 7:00 pm

THURSDAY, OCTOBER 29

Exhibit Hall / Showcase Theater • 10:00 am – 3:00 pm

TUESDAY, OCTOBER 27, 2015

1:00 PM – 4:00 PM

ADDITIVE MANUFACTURING WORKSHOP

DESIGN FOR MANUFACTURE AND ASSEMBLY (DFMA) WORKSHOP

METHODS FOR MIXED MATERIAL ASSEMBLY WORKSHOP

4:00 PM – 7:00 PM Exhibit Hall Open

4:00 PM – 7:00 PM • Hall A Welcome Reception/ Taste of Rosemont

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WEDNESDAY, OCTOBER 28, 2015

9:00 AM – 10:00 AM • Keynote Theater
KEYNOTE PRESENTATION Leading Sustainable Improvement
Richard Morris, BMW Manufacturing Co.

Sponsored By:



10:00 AM – 5:00 PM • Hall A Exhibit Hall Open

11:00 AM – 11:40 AM

Process for Selecting the Optimum Leak Testing Method
Paul Chamberlain, LACO Technologies, Inc.

Sponsored By:



Cordless Technology Takes Error Proofing to New Levels
Kevin Reiland, Panasonic Assembly Tools

Sponsored By:



12:00 – 12:40 PM

Cutting the Cord — Ergonomic and Cordless Power Tool Solutions
Dave Garner, Desoutter

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Latest Advances in Precision Fluid Dispensing Technologies, Including New Jetting Systems
Claude Bergeron, Nordson EFD

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1:00 PM – 1:40 PM

The Smart Factory — How You Can Leverage Today
Nuzha Yakoob, Festo Corp.

Sponsored By:



Adhesive and Tape Technologies to Replace Mechanical Fasteners
Shari Loushin, 3M's Industrial Adhesives and Tapes

Sponsored By:



WEDNESDAY, OCTOBER 28, 2015

2:00 PM – 2:40 PM

5 Principles of Flexible Assembly Line Design
Rod Emery, RedViking

Sponsored By:



Technology Developments in Loctite® Liquid Optically Clear Adhesives (LOCAs) for Display Lamination Applications
Kelly Nelson, Henkel Corporation

Sponsored By:



3:00 PM – 3:40 PM

Shifting Technology of CAM-Driven Indexers and Gripping Solutions
Gary Labadie, DE-STA-CO

Sponsored By:



2016 State of the Profession Report
Austin Weber, ASSEMBLY Magazine

Sponsored By:



4:00 PM – 4:40 PM

Common Sense Lean Thinking
Doug Sparks, Flex Craft LLC

Sponsored By:



Squeezing More Productivity and Profit from Your Harness Assembly
Patrick Ryan, Panduit Corp

Sponsored By:



5:00 PM – 7:00 PM • Conference Center **Networking Reception**

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THURSDAY, OCTOBER 29, 2015

10:00 AM – 3:00 PM Exhibit Hall Open

10:30 AM – 11:10 AM

Flexible, Easy and Fast Integration of Continuous Improvement — Enhancing your Existing Controls Architecture with IO-Link
Will Healy III, Balluff, Inc

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The Assembly Roadshow: Automated Assembly Systems Panel Discussion & Parts Review
Moderator: John Sprovieri, ASSEMBLY Magazine
Panelists: Mark Burzynski, Arthur G. Russell Co. Inc.
Kevin Hayes, PrimeTest Automation

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11:30 AM – 12:10 PM

A Swift Kick in the Bowls — The Latest Advancements in Vibratory Feeding Technology
Klaus Bott, Afag Global Feeding Technology

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Advances in Loctite® Flange and Thread Sealant Technology and Applications
Michael Feeney, Henkel Corporation

Sponsored By:



12:30 PM – 1:10 PM

Increasing Profits by Utilizing Robots in Assembly Applications
Martin G. Albert, Staubli

Sponsored By:



2016 Capital Equipment Spending Outlook
John Sprovieri, ASSEMBLY Magazine

Sponsored By:



1:30 PM – 2:10 PM

Micro/Injection Lubrication
Nicolo Palazzolo, Master Pneumatic

Sponsored By:



Driving Higher Quality, Productivity, and Training Effectiveness into Assembly Operations using Augmented Reality
Paul Ryznar, OPS Solutions, LLC

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SHOW INFORMATION

ADMISSION

The ASSEMBLY Show is for the TRADE ONLY and is not open to the general public. Attendance is limited to persons actively engaged with assembly equipment in the manufacturing industry. No one under 18 years of age—including infants—will be admitted. The ASSEMBLY Show reserves the right to request picture identification to verify age. There are no exceptions to our age policy.

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, between booths 1102 and 1202

PHOTOGRAPHY

Unauthorized photography and/or video is not permitted and taking of photographs or videotaping in the exhibit hall is strictly prohibited. You must have a press badge, or have prior written approval to use a camera on the exhibit hall. If you use a camera without permission, you will be escorted off the exhibit hall and your badge will be confiscated. Audio- or videotaping of The ASSEMBLY Show sessions is strictly prohibited.

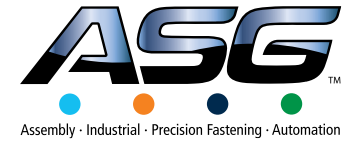
EXHIBIT HALL HOURS

- Tuesday, October 27 // 4:00 pm – 7:00 pm
- Wednesday, October 28 // 10:00 am – 5:00 pm
- Thursday, October 29 // 10:00 am – 3:00 pm



THE Quality SHOW
Exhibit Hall F

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KEYNOTE PRESENTATION

Wednesday, October 28, 2015 • 9:00 AM – 10:00 AM
KEYNOTE THEATER — CONFERENCE ROOM 12, 13, 14

LEADING SUSTAINABLE IMPROVEMENT

This keynote address will provide a thought-provoking presentation of how to effectively guide organizations through process change improvement.

Richard Morris will review **BMW's** commitment to profit before growth as it relates to economic, environmental and social sustainability. In addition, Morris will address lean manufacturing and continuous improvement as he shares examples of how BMW's plant in South Carolina has achieved remarkable success in the last 20 years.



RICHARD MORRIS,
BMW Manufacturing Co.

Richard Morris is currently the Vice President of Assembly and Logistics at BMW Manufacturing Co. in Greer, SC. Morris began his career with BMW Manufacturing in 1993 following almost 10 years in quality engineering positions with various automotive manufacturers in the United States. Since 1993, Morris has held numerous positions with BMW Manufacturing, including a two-year assignment in Germany, where he served as the project leader for the next generation X5 sports activity vehicle launched in 2006. Most recently, Morris served as assembly manager. Morris holds a B.S. in mechanical engineering from General Motors Institute and earned his MBA from Clemson University. He is married with two children.

The South Carolina factory is BMW's only assembly plant in the United States. It is the company's sole global production site for the X3, X4, X5 and X6 crossover SUVs. In March, the company celebrated the 3 millionth vehicle to roll off the line since the plant began making cars in 1994.

The plant, which celebrated its 20th anniversary in 2014, produced a record 364,000 vehicles last year. More than 80 percent of those vehicles were made to order, and some 70 percent of them were exported from South Carolina to 140 markets worldwide. In fact, the plant was the nation's top automotive exporter in 2014. Citing data from the U.S. Department of Commerce, BMW said the plant's exports totaled \$9.2 billion last year, a 13 percent increase compared with its 2013 value.

Keynote Sponsored By:



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Visit us at The Assembly Show October 27–29, 2015 at Booth 419.

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WORKSHOP #1 • TUESDAY, OCTOBER 27 • 1:00PM – 4:00PM

ADDITIVE MANUFACTURING WORKSHOP

Additive manufacturing is moving out of the lab and onto the shop floor. A technology that was once reserved for quickly making prototypes is now being used to produce jigs, fixtures and assembly-ready parts. In fact, in April, a metal sensor housing became the first 3D-printed part certified by the FAA to fly inside a commercial jet engine. In this workshop, you'll learn about the latest technologies for additive manufacturing. We'll cut through the hype to teach you the true capabilities of these technologies and how they can help improve your products and processes.

PRESENTATIONS IN THIS WORKSHOP INCLUDE:



1:00 PM – 1:45 PM

Produce Durable Parts, Tools, Patterns and Molds with Fewer Constraints

Allen Kreemer, Manager - Manufacturing Applications, North American Region, Stratasys

Additive manufacturing is reshaping how nearly everything is made. It's helping companies worldwide push the limits of innovation while reducing costs, streamlining operations and accelerating time to market. With additive manufacturing, engineers can set aside the usual design-for-manufacturing constraints. Built layer-by-layer from the bottom up, 3D-printed parts can be more geometrically complex, lighter-weight, easier to assemble, and just as durable as traditionally manufactured parts. What's more, by printing jigs, fixtures, tools and parts directly from digital files, engineers can reduce waste and lower warehousing costs. And, by eliminating the usual lead times, engineers can respond quickly to demand spikes, design changes or damaged tools. In this presentation, you'll learn how 3D printing can be used to create tooling, fixtures, molds and even ready-to-use production parts.



1:45 PM – 2:30 PM

Advances in 3D Printing Metal

Sandeep Rana, Vice President of Technical Sales for Direct Metal Printing, 3D Systems Inc.

Direct metal printing (DMP) is an additive manufacturing technology with a growing presence in the medical device manufacturing, aerospace and electronics sectors. Working directly from CAD data, the DMP process uses a high-powered laser to fuse fine metal powders together layer by layer to create functional metal parts. After each layer is created, a powder re-coater system deposits a fresh layer of powder in thicknesses ranging from 20 to 100 microns. The DMP system uses commercially available gas-atomized metallic powders to produce fully dense metal parts in materials including titanium, stainless steel, cobalt chrome and tool steel. This session will provide a comprehensive overview of the process.



2:30 PM - 3:15 PM

Electron Beam Additive Manufacturing

John O'Hara, Sales Manager, Sciaky Inc.

Electron beam additive manufacturing is a large-scale, fully programmable means of achieving near-net shape parts from virtually any metal, including metals like tool steels and titanium and refractory metals like molybdenum and tungsten. The process can be used to produce both prototype and production parts up to 19 feet long, 4 feet wide and 4 feet high, allowing manufacturers to produce very large parts and structures with substantial reduction in waste. In this presentation, you'll learn how the process works, its advantages and limitations, and common applications.



3:15 PM – 4:00 PM

Design for the Freedom of Additive Manufacturing

Jim Hassberger, President, solidThinking, Inc.

Lightweight design can lead to reductions in cost, development time, material consumption, and more. This is specifically true when it comes to designing for 3D printing and additive manufacturing. The design freedom of the additive manufacturing process allows a literal interpretation of complex designs, saving weight while also reducing local stress and maintaining structural stiffness. In this presentation, we will examine real-world examples of how companies are using optimization to design lighter, more efficient parts and products for additive manufacturing. Specific examples will include the longest part produced with additive manufacturing in space, the world's first 3D printed metal bicycle frame, parts revolutionizing the automotive industry like titanium printed pistons, and more. Additional examples shown will be from the automotive, architectural, aerospace, and medical industries. This presentation will explore how optimization is helping companies to quickly and easily design the ideal lightweight parts for additive manufacturing. This results in faster time to market, less material consumption, and decreased costs by removing unnecessary material from designs.



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The Assembly Show **Booth #205** October 27-29, 2015 Rosemont, IL

Panasonic
ASSEMBLY TOOLS

WORKSHOP #2 • TUESDAY, OCTOBER 27 • 1:00PM – 4:00PM

DESIGN FOR MANUFACTURE AND ASSEMBLY WORKSHOP

The ASSEMBLY Show is pleased to announce that a Design for Manufacture and Assembly (DFMA) Workshop will be presented at the 2015 show. This workshop will show you how to analyze and reduce the cost of your designs. At least 85 percent of manufacturing costs are determined in the early stages of design. When engineers make informed design decisions during the concept stage, they can avoid costly corrections later on.

This workshop will:

- Show you how to lower manufacturing costs through good design
- Learn what features make a product easy and cost-efficient to assemble
- Find out how to consolidate features and reduce fastener counts.
- Discover how to design to facilitate automation.

Presenters will include design engineers from local manufacturers who will share their DFMA success stories. You don't need to outsource your product to lower manufacturing costs—you simply need a better design. This workshop will show you how.

PRESENTATIONS IN THIS WORKSHOP INCLUDE:



1:00 PM – 1:45 PM

DFMA® as a Key Product Management Tool

Chris Tsai, Director of DFMA Implementation Services, Boothroyd Dewhurst Inc.

Throughout a product's life cycle, many decisions have to be made that directly affect the level of success of that product. Historically, many of these decisions have been made based on guidelines, rules of thumb, paradigms, and subjective information. This talk will share highlights of how DFMA principles and practices can be applied in different settings, enabling data-based decisions.



1:45 PM – 2:30 PM

Get Into the Flow With DFMA® Product Simplification

David Sweet, National Sales Manager, Boothroyd Dewhurst, Inc.

Of the many potential applications of DFMA, product simplification provides the greatest benefits. A part's existence affects many areas of the enterprise, including engineering, supply chain, warranty service, and product end-of-life programs. This interactive talk will explain product simplification and how it will help your product "flow."



2:30 PM – 3:15 PM

Design From the Inside Out: How Teardowns Can Improve Your Assembly

James A. Rains, Jr., CVS, FSAVE, President, Advanced Value Group LLC

Product teardowns help manufacturers enhance quality, lower costs and increase productivity and profits. An outgrowth of value analysis, product teardowns can help you solve a technical problem in your product or gain insight into your assembly process. In this session, you'll learn how, when and why to conduct a teardown from internationally recognized expert specializing in value analysis, value engineering, target costing and lean manufacturing.



3:15 PM – 4:00 PM

Design for Sustainability and Resilience

Joseph Fiksel, Executive Director, Sustainable & Resilient Economy Program, The Ohio State University

Sustainability and resilience. These two words are increasingly entering the lexicon of manufacturing managers worldwide. Manufacturers are coming to grips with the idea that the Earth's resources are not infinite. As a result, manufacturers are beginning to rethink how they design, produce, sell and dispose of their products. At the same time, manufacturers are also realizing that the global economy is characterized by turbulence. Major disasters can occur unexpectedly, and even minor incidents can cascade into significant losses. Who would have guessed that a volcano in Iceland would ground virtually all air traffic in Western Europe? In this thought-provoking presentation, you will learn how to make your products, processes and supply chains more sustainable and resilient.

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See a sneak preview

nordsonefd.com/innovation



The Assembly Show, Booth 823

WORKSHOP #3 • TUESDAY, OCTOBER 27 • 1:00PM – 4:00PM

METHODS FOR MIXED MATERIAL ASSEMBLY WORKSHOP

Auto parts, appliances, medical devices and many other products these days increasingly contain a mix of materials—steel, aluminum, plastics, composites, glass and ceramics. Mixed-material designs might be implemented to reduce weight, cut costs, increase strength or simply improve aesthetics. While that’s all well and good, manufacturing engineers are discovering that many of their time-tested assembly methods are no longer practical or effective. In this workshop, you’ll learn about new and innovative technologies for mixed-material assembly.

PRESENTATIONS IN THIS WORKSHOP INCLUDE:



1:00 PM – 1:45 PM

Laser Joining of Dissimilar Materials

Narasimhan (Nara) Sreenivasan, Applications Group Manager, TRUMPF Inc. Laser Technology Center

The need to weld dissimilar metals is increasing in a variety of industries, including automotive, aerospace and battery manufacturing. Material combinations considered unweldable using conventional processes, such as resistance welding, are now viable thanks to new developments with high-power lasers. In this presentation, you’ll learn how to use lasers to join dissimilar metals.



1:45 PM – 2:30 PM

Shedding Light on the Plastic Staking Process

Kelly Binnendyk, Applications Lab Manager, EXTOL Inc.

Staking is an ideal process for joining dissimilar materials. It’s quick and inexpensive. It eliminates the cost of fasteners and adhesives, and it allows engineers to loosen the tolerances for molded parts. In staking, a part with one or more holes in it is slipped over corresponding posts on a base part. A tool then deforms the posts and traps the top part tightly against the base. The process is used to assemble small products, such as printer cartridges, and large parts, such as automotive interior components. The base part must be made of a formable thermoplastic, but the entrapped part can be made of any material: sheet metal, FR4, glass, rubber, thermoset plastic or another thermoplastic. This presentation will review the technologies for staking and provide tips for designing and producing staked assemblies.



2:30 PM – 3:15 PM

Adhesives for Mixed-Material Assembly

Michael Pomykala, Applications Engineer, Henkel Corporation

Design requirements for lighter weight and greater functionality mean that modern products of all sorts often contain a mix of materials: steel, aluminum, plastics, composites, glass and ceramics. But what might be good from a design standpoint can be a challenge for efficient and effective assembly. Welding is not an option. Similarly, a threaded fastener designed for one substrate may be less effective with another. To solve this problem, engineers are increasingly turning to adhesives. With their ability to distribute loads and accommodate differing rates of thermal expansion, adhesives are playing a leading role in mixed-material assembly. In this presentation, you’ll learn the best and latest adhesives for bonding mixed-material assemblies.



3:15 PM – 4:00 PM

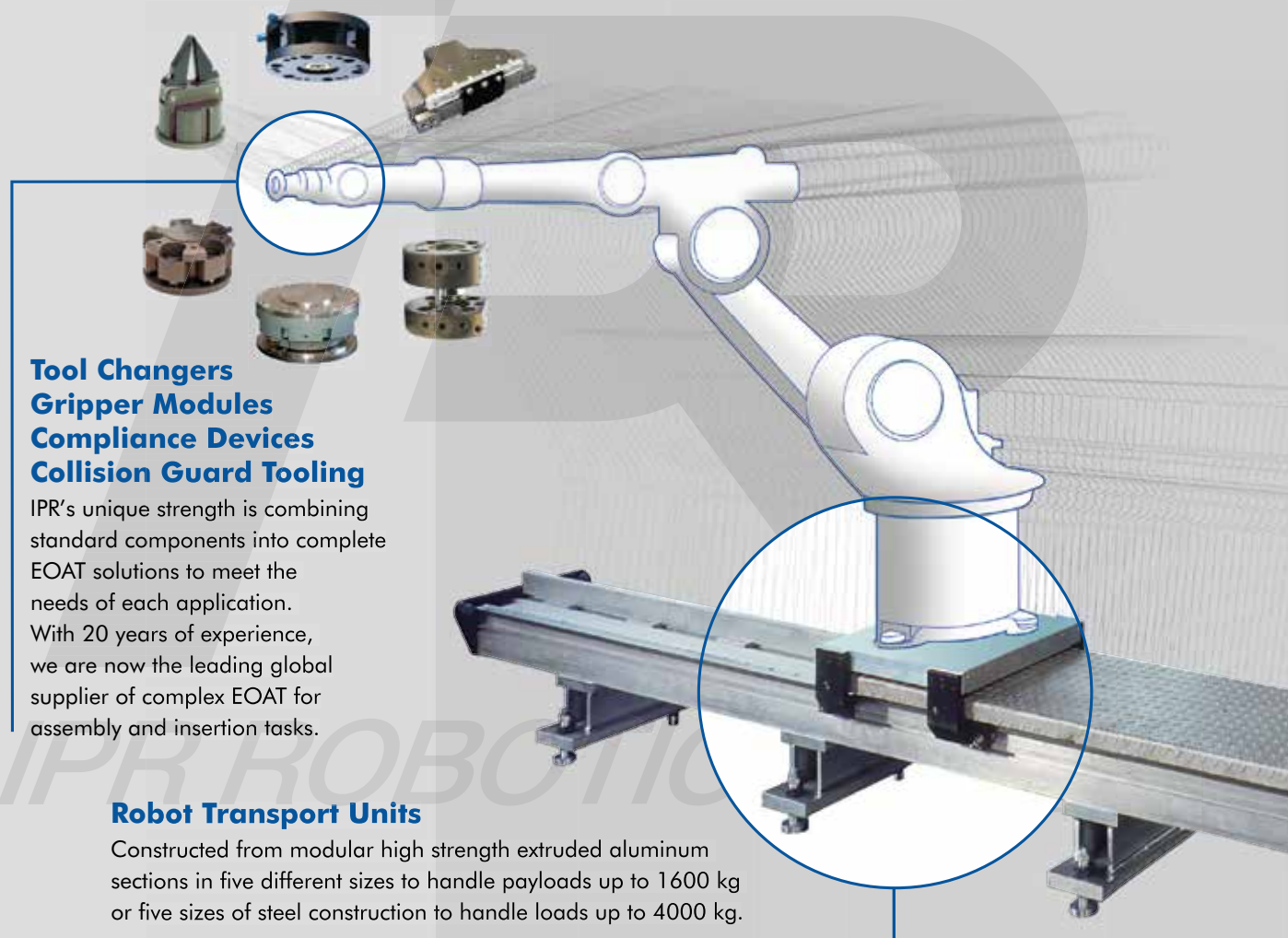
Fasteners for Mixed-Material Assemblies

Bastian Hartmann, Project Manager, Bollhoff Inc.

The increasing use of aluminum, engineering plastics and composites in automotive and other applications is forcing engineers to look for alternatives to standby assembly methods, such as welding and threaded fasteners. For example, composites can’t be welded, and drilling holes for threaded fasteners would weaken the inherent strength of the material. In this presentation, you’ll learn about innovative new technologies for mixed-material assemblies, including self-piercing rivets, tacks and stud-bonding.

Anatomy of an IPR Configured Robot

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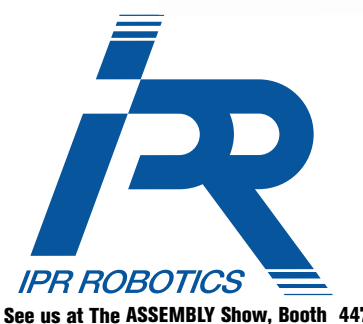


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SPECIAL EVENTS

WELCOME RECEPTION/TASTE OF ROSEMONT

TUESDAY, OCTOBER 27 • 4:00PM – 7:00PM

LOCATION: **RIGHT ON THE SHOW FLOOR!**

The ASSEMBLY Show will kick off with a Welcome Reception right on the show floor. This reception brings you the widely talked about "Taste of Rosemont" featuring flavors and cuisine from these local area restaurants (as of 10/1/15):



Thank you to these participating restaurants for offering their services and delicious foods. Please consider dining at these establishments while you're visiting Rosemont!

Join us and connect with hundreds of suppliers, buyers and users of assembly equipment while you enjoy food and drinks in a relaxed and friendly environment.

Sponsored By



NETWORKING RECEPTION

WEDNESDAY, OCTOBER 28 • 5:00PM – 7:00PM

LOCATION: **CONFERENCE CENTER**

On the second day of The ASSEMBLY Show the fun continues as attendees, speakers, exhibitors and sponsors get together for the Networking Reception. After a long day on the floor, this party allows for exhibitors to take step away from their booths and allows for even more mingling between all event participants. Enjoy libations and hors d'oeuvres as you make connections with new professionals and continue to build relationships with existing business partners.

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WIRE TERMINATION		<p>RESISTANCE WELDING FEATURES:</p> <ul style="list-style-type: none"> ▶ 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 mm² to 120 mm² ▶ WIRE TERMINATION up to 150 mm² ▶ HOT CRIMPING up to 300 mm² ▶ manual, semi- and full automatic stations available ▶ TURNKEY SOLUTIONS with system integration ▶ RELIABILITY by process monitoring via PC controllers 										
WIRE SPLICING												
MICRO SPOT WELDING		<p>APPLIICATION RANGE:</p> <table border="0"> <tr> <td>▶ E-DRIVES</td> <td>▶ EV - CHARGING PLUGS</td> </tr> <tr> <td>▶ HF WIRES</td> <td>▶ LI BATTERY CELLS</td> </tr> <tr> <td>▶ TRANSFORMERS</td> <td>▶ FLAT RIBBON CABLE</td> </tr> <tr> <td>▶ WIRE HARNESS</td> <td>▶ BUS BAR WELDING</td> </tr> <tr> <td>▶ HV - CONNECTORS</td> <td>▶ INTEGRATED SYSTEMS</td> </tr> </table> <p>beneficial easy welder KM 15 for compacting wires</p>	▶ E-DRIVES	▶ EV - CHARGING PLUGS	▶ HF WIRES	▶ LI BATTERY CELLS	▶ TRANSFORMERS	▶ FLAT RIBBON CABLE	▶ WIRE HARNESS	▶ BUS BAR WELDING	▶ HV - CONNECTORS	▶ INTEGRATED SYSTEMS
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AUTOMOTIVE / MEDICAL / SOLAR

YOUR PARTNER FOR TURNKEY SOLUTIONS SINCE 1972
RESISTANCE WELDED CONNECTIONS FROM 0.01 MM² UP TO 300 MM²

HOT
CRIMPING

RESISTANCE
BRAZING

WIRE
TERMINATION

WIRE
SPLICING

MICRO SPOT
WELDING



TURNKEY CELL for E-DRIVE production

MANUAL module / Hot crimping / wire termination

RESISTANCE WELDING FEATURES:

- ▶ **RELEASED** by automotive and medical industry
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APPLIATION RANGE:

- ▶ E-DRIVES
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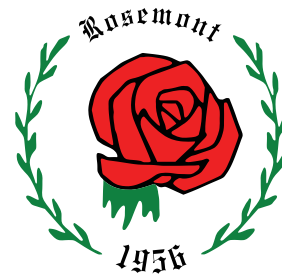
beneficial easy welder KM 15 for compacting wires



AUTOMOTIVE / MEDICAL / SOLAR

IN THE AREA

EXPLORE THE VILLAGE OF ROSEMONT!



After spending the day at The ASSEMBLY Show, be sure to explore the Village of Rosemont!

The Village of Rosemont has created a thriving mecca of tourism, entertainment and convention and trade-show business, attracting visitors from around the world.

Residents and visitors alike enjoy all the amenities for which Rosemont is known, including the Donald E. Stephens Convention Center, a wide variety of hotel and dining options, the Allstate Arena, Rosemont Theatre, the lively entertainment district MB Financial Park and the new Fashion Outlets of Chicago.

TEAM AND GROUP OUTINGS OPTIONS INCLUDE:

Kings Bowling

Kings Rosemont is a 27,000-square-foot entertainment facility featuring 20 ten-pin bowling lanes, billiards, various bars and dining.

Zanie's Comedy

Zanies Comedy Club is one of the nation's best established comedy clubs presenting the hottest comedic talents on the circuit today.

B1G Ten Experience

Free Interactive Museum at Rosemont's MB Financial Park Brings Big Ten's Storied History in Academics and Athletics to Life.

iFly

iFLY is an indoor skydiving experience that creates true free fall conditions, just like skydiving, without having to jump out of an airplane.

Disturbia

Only one block from the convention center you'll find two, top-rated Chicagoland haunted attractions; Insane Clown Asylum and the Cavern of Darkness.

THE QUALITY SHOW



Steps away from The ASSEMBLY Show exhibit hall you'll find The Quality Show, located in Exhibit Hall F

The Quality Show is a brand new "quality only" focused tradeshow for the quality manufacturing industry, featuring quality technology, products, and equipment.

Your ASSEMBLY Show conference badge will allow you full access to the exhibit space, check it out!

Black Is Beautiful.



Meet Al Black.

To him, running the blade shop at Eubanks is a challenge. But not in the normal sense.

"I'm driven to solve wire-stripping problems that our competitors can't. It's turned me on for the last 22 years at Eubanks," Black proudly explains. "Fortunately for us, it happens a lot."

The challenge gets bigger as new insulation gets thinner and tougher.

"This requires custom precision blades. We make these to



See us at The ASSEMBLY Show, Booth 837

Eubanks®

precisely fit the conductor and insulation from special hardened tool steel. It's a careful balance between being ultra sharp for cutting, laterally strong for stripping, and extra long lasting.

"Wire shops typically send us 50-100 feet of their tough wire and we solve their problems—even if we have to make special tooling and blades. Once they see the results, they often become customers, like family, for life," Black adds.

For nearly 50 years, Eubanks has been a leader in automatic wire marking and stripping machines. But it's our people, like Al Black, who give you that beautiful business experience.

Call us today, we're looking for a challenge.



Eubanks Engineering Co. 3022 Inland Empire Blvd., Ontario, CA 91764 (909) 483-2456 stripper@eubanks.com www.eubanks.com

AGENDA

TUESDAY, OCTOBER 27, 2015

1:00 PM – 4:00 PM

Location: Conference Center

Additive Manufacturing Workshop*

Additive manufacturing is moving out of the lab and onto the shop floor. A technology that was once reserved for quickly making prototypes is now being used to produce jigs, fixtures and assembly-ready parts. In fact, in April, a metal sensor housing became the first 3D-printed part certified by the FAA to fly inside a commercial jet engine. In this workshop, you'll learn about the latest technologies for additive manufacturing. We'll cut through the hype to teach you the true capabilities of these technologies and how they can help improve your products and processes.

1:00 PM – 4:00 PM

Location: Conference Center

Design for Manufacture and Assembly (DFMA) Workshop*

The ASSEMBLY Show is pleased to announce that a Design for Manufacture and Assembly (DFMA) Workshop will be presented at the 2015 show. This workshop will show you how to analyze and reduce the cost of your designs. At least 85 percent of manufacturing costs are determined in the early stages of design. When engineers make informed design decisions during the concept stage, they can avoid costly corrections later on. Presenters will include design engineers from local manufacturers who will share their DFMA success stories. You don't need to outsource your product to lower manufacturing costs—you simply need a better design. This workshop will show you how.

1:00 PM – 4:00 PM

Location: Conference Center

Methods for Mixed Material Assembly Workshop*

Auto parts, appliances, medical devices and many other products these days increasingly contain a mix of materials—steel, aluminum, plastics, composites, glass and ceramics. Mixed-material designs might be implemented to reduce weight, cut costs, increase strength or simply improve aesthetics. While that's all well and good, manufacturing engineers are discovering that many of their time-tested assembly methods are no longer practical or effective. In this workshop, you'll learn about new and innovative technologies for mixed-material assembly.

4:00 PM

Exhibit Hall Opens

4:00 PM – 7:00 PM

Location: 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 feature the ever-popular "Taste of Rosemont" highlighting flavors and cuisine from 20+ local area restaurants. Connect with hundreds of suppliers, buyers and users of assembly equipment while you enjoy food and drinks in a relaxed and friendly environment.



7:00 PM

Exhibit Hall Closes

WEDNESDAY, OCTOBER 28, 2015

8:00 AM

Registration Open

9:00 AM – 10:00 AM

Location: Conference Center

KEYNOTE PRESENTATION Leading Sustainable Improvement

This keynote address will provide a thought-provoking presentation of how to effectively guide organizations through process change improvement. Richard Morris will review BMW's commitment to profit before growth as it relates to economic, environmental and social sustainability. In addition, Morris will address lean manufacturing and continuous improvement as he shares examples of how BMW's plant in South Carolina has achieved remarkable success in the last 20 years.



RICHARD MORRIS

Vice President of
Assembly & Logistics

BMW Manufacturing Co.



*Access to workshop is available for additional \$30 fee.

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RICHARD MORRIS

Vice President of
Assembly & Logistics
BMW Manufacturing Co.



WEDNESDAY, OCTOBER 28, 2015

Included in your registration, The ASSEMBLY Show's educational **Showcase Theater Presentations** will take place right in the exhibit hall, during show hours. Given by the best and brightest exhibitors and expert speakers, these presentations will provide you with new ways to improve your assembly processes, explore new products and demonstrate the latest technological advances in all things assembly.

SHOWCASE THEATER TRACK 1

SHOWCASE THEATER TRACK 2

11:00AM – 11:40AM



A Process for Selecting the Optimum Leak Testing Method

Paul Chamberlain, LACO Technologies, Inc.

There are many factors that must be considered when determining which leak testing method to implement in your production process. There is no one method that is best for all applications. We will review all common production leak testing methods and their key features. We will then review the many considerations that must be evaluated when designing and setting up a leak testing process. These considerations include test part characteristics, production volumes (rates), degree of automation, leak rate sensitivity, available budget and more.



Cordless Technology Takes Error Proofing to New Levels

Kevin Reiland, Panasonic Assembly Tools

Learn how error proofing technology with cordless tools has advanced over the past few years to reduce downtime, virtually eliminate network interference and improve quality. Take in the knowledge needed to integrate cordless assembly tools into your workstations, the calibration lab and plant level error proofing methods for improving your quality.



12:00PM – 12:40PM



Cutting the Cord — Ergonomic and Cordless Power Tool Solutions

Dave Garner, Desoutter

Today's assembly line processes require more than just getting the fastener tight. Engineers, line supervisors, and managers are tasked with knowing more about their processes as they take place and then being able to go back and access that data as well from some point in the future. Desoutter Industrial Tools, a trusted brand for over 100 years, is helping improve today's assembly processes with innovative products for all levels of assembly production. For the assembly line worker or the plant manager, today's fastening tools offer new technologies that improve processes for efficiency and ergonomics.



Latest Advances in Precision Fluid Dispensing Technologies, Including New Jetting Systems

Claude Bergeron, Nordson EFD

The ability to make very precise, repeatable deposits of assembly fluids impacts everything from part quality to throughput to bottom-line profitability. Find out how the latest innovations in precision dispensing help companies:

- Reduce rework and rejects by making smaller, more precise deposits in hard to reach areas
- Get more repeatable results when dispensing onto uneven surfaces
- More accurately set and control dispensing parameters for accurate deposit placement and better part quality
- Reduce downtime with fast, tool-free dispense system maintenance and serviceability
- Boost productivity by mounting multiple valves and dispensing at higher cycle rates
- Use the same valve with different fluids and applications, providing added value, flexibility, convenience, and customization



*Access to workshop is available for additional \$30 fee.

WEDNESDAY, OCTOBER 28, 2015

WEDNESDAY, OCTOBER 28, 2015

SHOWCASE THEATER TRACK 1

SHOWCASE THEATER TRACK 2

1:00PM – 1:40PM

3:00PM – 3:40PM



The Smart Factory — How You Can Leverage Today

Nuzha Yakoob, Festo Corp.

Product life-cycles are increasingly getting shorter and shorter. End users are demanding more flexibility from the OEMs who are building machines that assemble, test and produce products. In this short presentation we will learn about the technology, currently in the market and emerging, that will ultimately enable the full capabilities of the "Smart Factory" to become a reality.



Adhesive and Tape Technologies to Replace Mechanical Fasteners

Shari Loushin, 3M's Industrial Adhesives and Tapes

Discover the benefits your assembly can realize by replacing various mechanical fasteners or welding with adhesives and tapes. We'll discuss the advantages and disadvantages of various joining methods. We will also discuss common assemblies where mechanical joining and welding are being replaced by adhesives and tapes, and discuss which adhesive and tape technologies fit best with each type of assembly. Lastly, we will point out some considerations to keep in mind when transitioning from mechanical or thermal attachment to adhesives and tapes.



Shifting Technology of CAM-Driven Indexers and Gripping Solutions

Gary Labadie, DE-STA-CO

Indexers, grippers and other automation components have evolved considerably in the past few years. Pneumatic grippers are delivering better performance, less maintenance, and faster operation in a smaller package. Servo-driven grippers and indexers are providing unmatched flexibility in automated assembly applications. In this presentation, you'll learn about the benefits and capabilities of the next-generation of automation components from a company, De-Sta-Co, that is marking its 100th anniversary this year.



2016 State of the Profession Report

Austin Weber, ASSEMBLY

Will assembly plants add jobs this year? Will manufacturing engineers get raises and bonuses? What issues are affecting assembly operations today? What will give manufacturers a competitive edge? These questions and more will be answered when senior editor Austin Weber presents the results of our 20th annual State of the Profession survey. Find out what you're worth



2:00PM – 2:40PM

4:00PM – 4:40PM



5 Principles of Flexible Assembly Line Design

Rod Emery, RedViking

Every change to your line provides the opportunity to increase flexibility and cut costs for future changes. Rod will explore manufacturing technologies and architectures that improve assembly line flexibility, scalability, and as a bonus, sustainability.



Technology Developments in Loctite® Liquid Optically Clear Adhesives (LOCAs) for Display Lamination Applications

Kelly Nelson, Henkel Corporation

Display and touch-panel technology continue to evolve with larger displays becoming increasingly common and touch interfaces growing in popularity. Air gaps between touch-panel layers diminish the quality and longevity of these displays by causing reflection loss and glare. Learn how developments in liquid optically-clear adhesives from Henkel improve displays' durability and viewing quality to enhance the end-user experience and enable the next generation of display designs.



Common Sense Lean Thinking

Doug Sparks, Flex Craft LLC

Need help engaging your employees about your Lean initiative? Develop your skills at introducing Lean as everyday Common Sense so it draws upon how we use Lean Thinking already in our personal lives. We'll explore the best ways to address these topics with your staff: Why Change, 7/8 Wastes, Standard Work, 5S, and more.



Squeezing More Productivity and Profit from Your Harness Assembly

Patrick Ryan, Panduit Corp

In this presentation Patrick will share secrets that can help you SQUEEZE the most productivity and profits from all stages of the harness build process:

- Improve design and quoting
- Speed productivity of wire processing, bundling and termination
- Reduce harness board set-up time
- Enhance harness assembly
- Ensure quality and standards compliance through testing



5:00 PM

Exhibit Hall Closes

5:00 PM – 7:00 PM

Location: Conference Center

Networking Reception

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



BROADCASTING LIVE
OnSite • OnLine • OnDemand

The ASSEMBLY Show is offering the opportunity to attend selected sessions remotely through LIVE Webinars for FREE.

Text your co-workers back at the office to join online!

Look for the broadcast icon to indicate available webinar sessions.

THURSDAY, OCTOBER 29, 2015

THURSDAY, OCTOBER 29, 2015

10:00 AM

Exhibit Hall Opens

SHOWCASE THEATER TRACK 1

SHOWCASE THEATER TRACK 2

10:30AM – 11:40AM



Flexible, Easy and Fast Integration of Continuous Improvement - Enhancing your Existing Controls Architecture with IO-Link

Will Healy III, Balluff, Inc

Control architectures have significant impact on how a total error proofing program is implemented. Having a system that works well initially is somewhat easy. The real test is how well the controls function as time goes on and we continuously tweak, update, and change the process. In an error proofing environment, easy expandability is a unique requirement that is solved with the open standard IO-Link.



The Assembly Roadshow: Automated Assembly Systems Panel Discussion & Parts Review

Moderator: John Sprovieri, ASSEMBLY Magazine

Panelists: Mark Burzynski, Arthur G. Russell Co. Inc. Kevin Hayes, PrimeTest Automation

One of the great traditions of The Assembly Show is that engineers often bring sample parts or assemblies with them to review directly with exhibitors. In the spirit of that tradition, we invite attendees to bring sample parts to this panel discussion with the aim of getting informal advice about automated assembly from the country's top systems integrators (and perhaps even their peers). What might an assembly system for the parts look like? How might the parts be better designed for automated assembly? What might be potential trouble spots? Whether you're currently running a multistation automated assembly system or are thinking about automating for the first time, you won't want to miss this golden opportunity to learn from experienced experts in automation.



11:30AM – 12:10PM



A Swift Kick in the Bowls — The Latest Advancements in Vibratory Feeding Technology

Klaus Bott, Afag Global Feeding Technology

Vibratory feeders are an indispensable part in the value chain of automated processes in industrial automation. Availability and reliability of any automated process depends directly on the performance of the integrated feeding systems. Mr. Bott will highlight technological developments regarding the understanding of natural frequency, vibration control; including piezo technology, and the CAD/CAM based simultaneous 5-axis manufacturing of engineered feeder bowls. A concluding look at advancements like flexible feeding solutions, computer simulation of vibratory feeding processes and alternative oscillation technologies are rounding out the presentation.



Advances in Flange and Thread Sealant Technology and Applications

Michael Feeney, Henkel Corporation

The transport of fluid media, whether for consumption, power-transmission systems or heat-transfer systems, needs to perform reliably and leak-free. Original-equipment manufacturers have relied on anaerobic polymers used in thread sealing and flange sealing with great success for the last 60 years. However, modern designs, materials and environmental requirements have made the demands on sealants ever more challenging. Learn how the innovative advances in anaerobic flange sealants and thread sealants from Henkel have evolved with these demands to provide OEMs with the tools to reduce their manufacturing costs and warranty claims and achieve reliability goals.



SHOWCASE THEATER TRACK 1

SHOWCASE THEATER TRACK 2

12:30PM – 1:10PM



Increasing Profits by Utilizing Robots in Assembly Applications

Martin G. Albert, Staubli

Robots can be used to accomplish simple or complex jobs in a more efficient way while improving productivity and cutting costs. Robots can provide consistent, clean performance in many food and medical environments; at the same time handling dirty jobs like painting cars. The dexterity, flexibility and speed often inspire companies to seek the assistance of a robot versus a human. The future is man and machine!



2016 State of the Profession Report

John Sprovieri, ASSEMBLY Magazine

What capital equipment will assemblers be buying next year and how much money do they plan to spend? Get answers to these and other questions when John Sprovieri presents the results of ASSEMBLY magazine's 20th annual capital equipment spending survey. From automated assembly systems and dispensing equipment, to power tools and robots, this comprehensive survey forecasts spending intentions for the coming year. Will manufacturing continue its comeback? How does your company's spending plans compare with the competition? Find out in this don't-miss session.



1:30PM – 2:10PM



Micro/Injection Lubrication

Nicolo Palazzolo, Master Pneumatic

This presentation will encompass micro/injection lubrication for pneumatic tools, hoists, air motors, and cylinders.



Driving Higher Quality, Productivity, and Training Effectiveness into Assembly Operations using Augmented Reality

Paul Ryznar, OPS Solutions, LLC

Light Guide Systems, by OPS Solutions, is a patented augmented reality product that can replace ineffective hard copy or electronic monitor-based work instructions with an intelligent light guide system that projects step by step guidance directly onto your part and process. A digital operating canvas guides your associates through a standardized process and complex procedures become amazingly simple for applications involving assembly, inspection, part kitting/sequencing, maintenance, and training. Chrysler has documented improvements up to 80% in quality and 40% in productivity through Light Guide's unique ability to project the right information, at the right place, and the right time.



3:00 PM

Exhibit Hall Closes



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3ARM

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sales@eurolinkinc.com

EuroLink is a North American wholesaler of industrial products, including 3Arm ergonomic assist arms, Roscamat tapping arms, Llambrich drill chucks, SCM workholding, Flott drill presses, Glanze indexable tools, Boa vises, Kenwood two-way radios, u-Tap tapping arms and tables.

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At 3M Co., we apply science in collaborative ways to improve lives daily. 3M offers a broad portfolio of adhesives and tapes that solve process and performance challenges to improve quality and increase speed and productivity.

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Accounting Business Solutions by JCS specializes in distribution and manufacturing software, bar coding and electronic data interchange. We are a master-certified solution provider for Sage and Intuit focusing on Sage 100 ERP, Sage 50 and QuickBooks. For manufacturing businesses, JCS offers MiSys and JobOps job management software with optional Sage CRM, ACT!, and Business Intelligence reporting tools. But JCS offers much more than just software. JCS performs valuable, detailed business reviews to identify areas for improvement and provide solutions that increase your efficiency. Expert-certified trainers offer the experience and solution-oriented instruction you need to maximize your software's power and organize your business. Our unequaled support services include installation, setup and customization to save you steps and integration. We also help with interpretation of performance results. Put our 25 years of knowledge to work for you!

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Accurex specializes in 3D scanning, coordinate measurement and optical gauging systems. Our products are used for inspection of complex surfaces, tube inspection, gap and flush measurement, vehicle crash testing and deformation measurement. These high-accuracy systems use optical and laser technology to quickly collect data and provide feedback.

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Frankfort, IL 60423
www.instantca.com

317-607-5069
mshiveley@instantca.com

Manufacturing high-performance industrial adhesives for over 25 years. Technology, service and value are the founding principles of Adhesive Systems Inc. We have a variety of products available to help meet the needs of many assembly applications.

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ATP manufactures plastic tubing, bonded tubing and spiral recoil hose in Ohio. We also provide hose, couplers, fittings, clamps, balancers and blow guns.

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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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765-969-3571
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Ahaus Tool and Engineering Inc. has been in business since 1946. From machining to workholding to automation equipment, Ahaus' team of dedicated engineers, machinists and toolmakers are committed to quality and service. Ahaus has experience, knowledge and a stable business model, allowing us to handle large and small projects. Our sales and applications engineers will provide you with an innovative proposal that meets your specifications. Our project engineers will manage the flow of work through mechanical and electrical design, purchasing, manufacturing, assembly, programming, debug, runoff, and installation on your floor.

AIMCO

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Since 1970, AIMCO has been providing global assembly and critical bolting tool solutions for the automotive, agricultural and off-road, 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 Japan-based manufacturer, Uryu Seisaku Ltd. AIMCO currently exports to over 33 countries including Mexico, Brazil, Germany, France, Korea, China, the UK, India, Denmark and, most recently, Russia. In 1999, AIMCO began manufacturing its AcraDyne line in Portland, OR. We produce a complete line of DC controlled tools ranging from 1 to 8,100 newton-meters, as well as custom-built multiple spindle systems. Our service, repair and calibration labs provide fast turnaround on repairs. Additionally, all electronic torque equipment meets NIST standards. If productivity, ergo-

nomics, reliability and quality are driving forces in your business, let us be your value-added partner.

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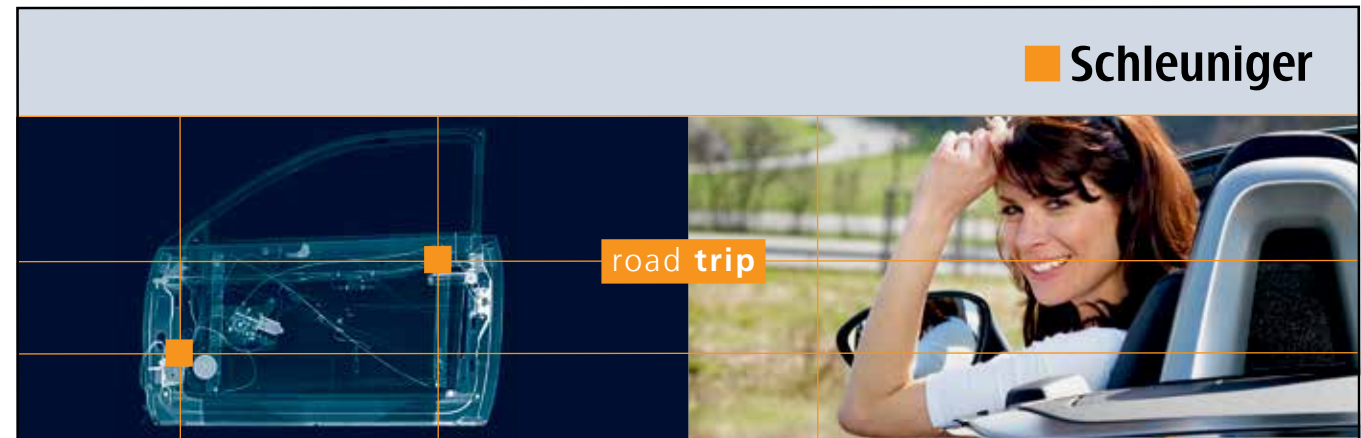


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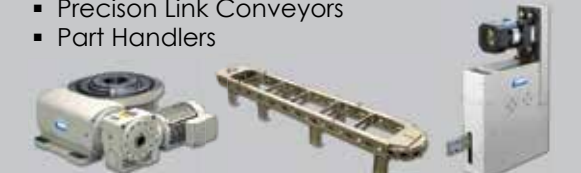
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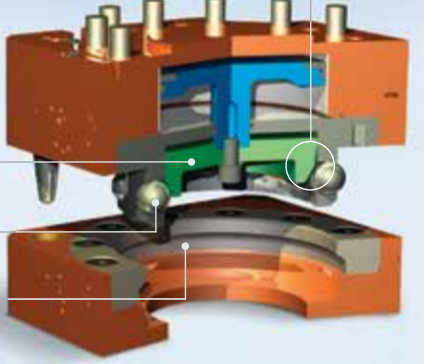
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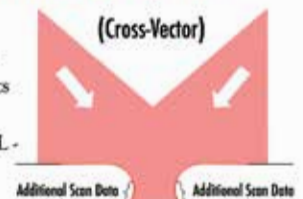
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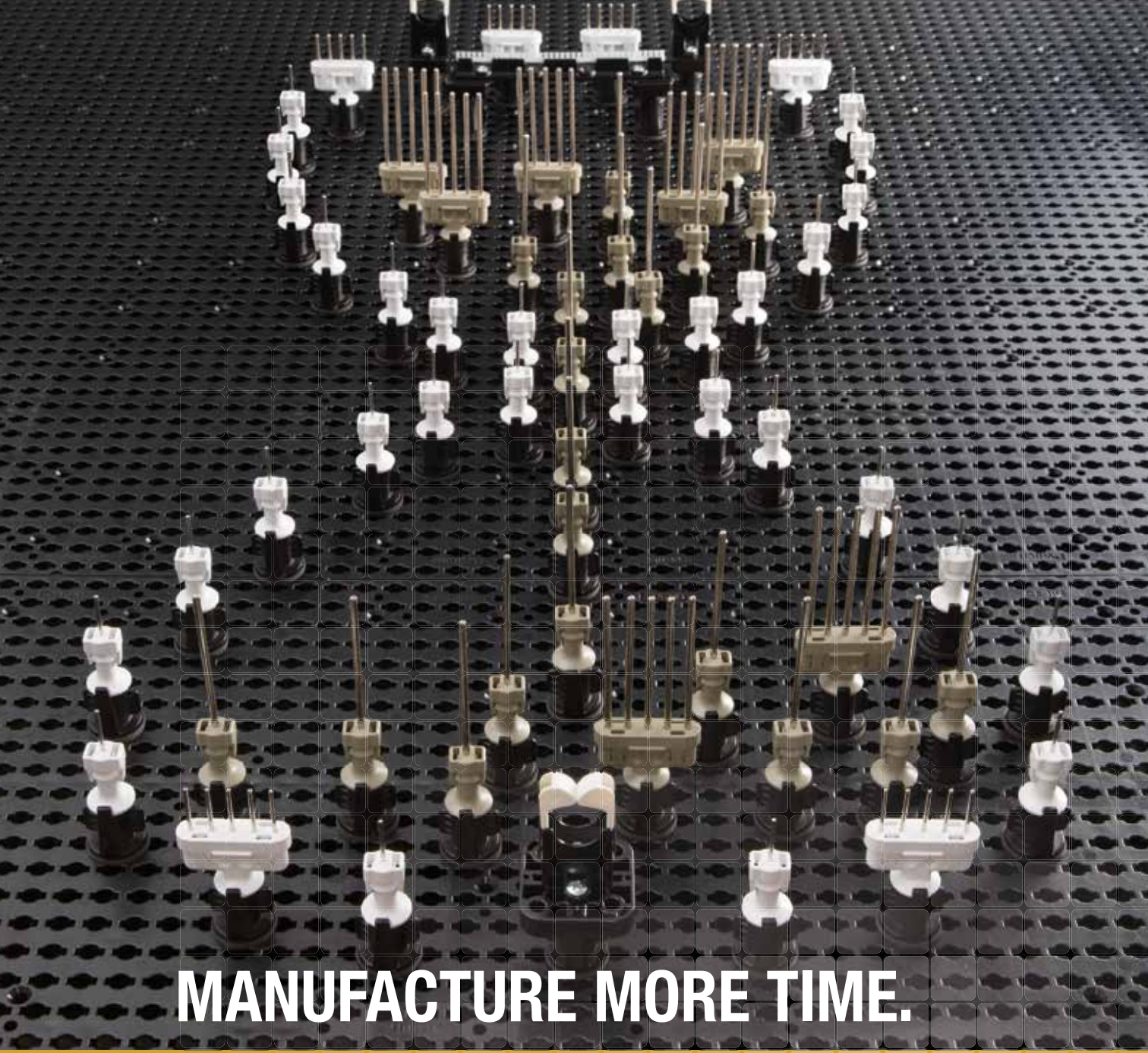
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