

GLOBAL CONFERENCE 2004

# AUTOMAN



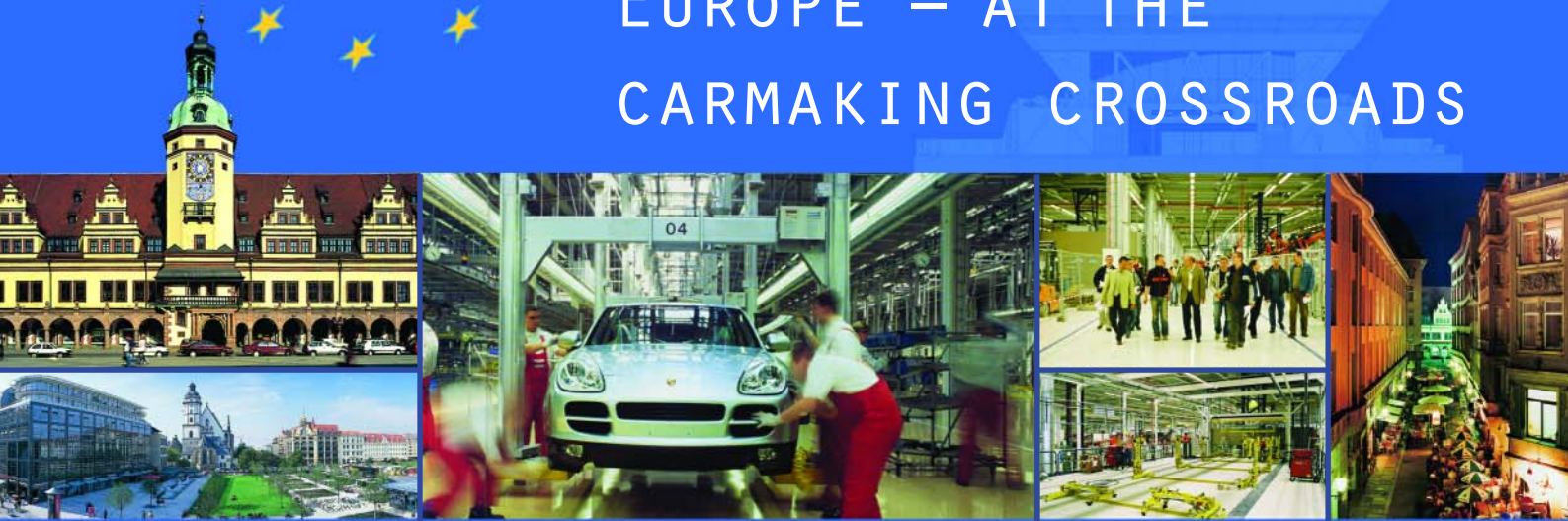
MANUFACTURING SOLUTIONS  
FOR TOMORROW'S VEHICLES

EUROPE CONFERENCE  
**AUTOMAN**  
MANUFACTURING SOLUTIONS FOR TOMORROW'S VEHICLES

7 – 9 JUNE 2005  
CITY OF LEIPZIG, GERMANY

2005


EUROPE – AT THE  
CARMAKING CROSSROADS



After the success of **AutoMan Global 2004**, AMS magazine presents **AutoMan Europe 2005**, the only global automotive manufacturing congress for senior executives in Europe

- ★ **More than 200 senior manufacturing executives around the world are expected to attend**
- ★ **Unrivalled speaker line-up**
- ★ **Great networking time available**

As part of the delegate package  
**AutoMan Europe 2005** agenda includes...

- ★ Catch up with your colleagues at the **cocktail reception** held in Gohlisser Schloessen featuring the world famous St Thomas' choir
- ★ Enjoy exclusive **plant visits**  and 
- ★ Feel the adrenaline pumping with on- and off-road **test driving in a Porsche**

conference participants...

Vehicle makers' manufacturer executives, plant managers, product planners, designers, purchasing executives, automotive supplier executives from all parts of the supply chain, machinery and indirect equipment providers, union representatives, politicians and regional development leaders.

**AutoMan Europe 2005 – 3 days manufacturing lasting relationships**

With the special support of: IIC, The State of Saxony, City of Leipzig, BMW & Porsche

Media support

For more information, please e-mail: [info@ultimamedia.org](mailto:info@ultimamedia.org)



# WELCOME

to the first AutoMan Global auto manufacturing conference. Perhaps surprisingly, this is to our knowledge the first global forum on automaking to be held in Michigan, the heartland of US vehicle production.

How did we come to stage this event?



SIMON DUVAL SMITH  
EDITOR, AMS

We are the publishers of the only global magazine focused solely on auto manufacturing: *Automotive Manufacturing Solutions* (AMS), based in London, UK. The magazine is in its fifth successful year, and continues to examine the business and technical issues in what is the biggest production technology field in the world.

Through the magazine, and in many conversations with colleagues in the industry, we have been asked why there is no manufacturing forum in the acknowledged global center of the business – Michigan. The time for discussions here is ripe, with indigenous manufacturers facing ever-more dramatic challenges from imports and transplants. Many are responding with compelling vehicles and new manufacturing flexibility, and the lessons learned in this new climate are lessons that need to be shared.

In the same vein, we have speakers from Germany and Austria who have come to give their perspective on the challenges faced in the European market of debilitated sales, increased competitive growth but the exciting prospects from the expansion of the European Union.

And then there is China – a subject contained within any discussion in our industry, and a country changing the way business is being done across the world.



ANDREW FALLON  
PUBLISHER, AMS

These are some of the issues that need to be addressed right here in Michigan. We are seeking to do this with AutoMan Global. With the help of our friends and partners throughout the world, our speakers and participants will discuss and try to answer many of your questions about today's and tomorrow's automotive manufacturing solutions. ♡

LOOKING AHEAD TO NEXT YEAR...



## Arcelor Auto



Arcelor Auto is an entity of Arcelor, the world's leading steel operator. It is a major player, especially in coated steels for skin parts with its patented product Extragal, supplying all automotive sector industries (automakers, parts manufacturers, co-contractors) either

directly or through dedicated service centers, subsidiaries and associates. New facilities, such as the Detroit and Tokyo Technical Centers, have been set up, the number of resident engineers working with automakers and parts manufacturers has been boosted, and new joint venture galvanizing lines have come onstream in Canada, Brazil, Russia and Turkey.

Please visit: [www.arcelor.com](http://www.arcelor.com)

## Delmia



Delmia designs and markets a comprehensive suite of digital manufacturing software. Its mission is to provide the manufacturing community with digital manufacturing solutions to define, plan, create, validate and control manufacturing systems geared toward build-to-order and lean production. As part of the Dassault Systèmes PLM (Product Lifecycle Management) vision, Delmia provides the 3D environment for concurrent engineering of the manufacturing processes and resources in parallel with

the product design. Delmia applications are built around a product, process and resources (PPR) model, providing complete coverage of the manufacturing processes and seamless integration within the PLM offering. Please visit: [www.delmia.com](http://www.delmia.com)

## IIC



IIC

The IIC, a consulting firm focusing on eastern Germany, offers free-of-charge investment advice and project management services for all industry sectors. Our mission is to actively and continuously identify business opportunities in eastern Germany for international investors. The IIC acts as a link between investors, industries and the government. Our services include providing assistance in areas such as strategy planning, market research, competitive data compiling, location assessments, site visits and selection, partner identification, advising financial incentives, resourcing human capital, general negotiations, permit applications and overall project management.

Consultants counsel companies in automotive, pharmaceuticals and life sciences, technology, services and manufacturing.

Please visit: [www.iic.de](http://www.iic.de)

## IPF America Inc.



IndustriePlanung Fischer AG was founded in 1970 in Friedrichsdorf, Germany. Since then we have developed into an international engineering company with subsidiaries in Australia, Poland and the US. With our dedicated and highly qualified engineers in project management services, manufacturing and logistics engineering, as well as factory design, we have performed in 700 projects over 30 years and in 20 countries, including a large number of turnkey projects. We have successfully provided our services to automotive

clients, component manufacturers and further industrial branches. Please visit: [www.ip-fischer.com](http://www.ip-fischer.com)

## KabelSchlepp



KabelSchlepp has continually supplied innovative product solutions since 1954. These are used in safely managing electrical power and signal cables that move from a static fixed point to any moving machine component in automated machinery and automotive applications. All are supported through

KabelSchlepp's globally distributed technical sales and service centers. Please visit: [www.kabelschlepp.de](http://www.kabelschlepp.de)

## Pepperl+Fuchs



*Building Trust...One Sensor at a Time!*

Pepperl+Fuchs supply sensors, ID systems, sensor bus systems and rotary encoders. Automotive applications include stamping, powertrain, body and assembly, robotics, casting, machining and final assembly. Pepperl+Fuchs is committed to providing the highest quality products, using state-of-the-art technologies and feature: worldwide sales and service; US-based engineering and application experience; lifetime warranty; factory-trained personnel supported by a 500+ distributor network; and factory floor, tested-tough products. Please visit: [www.am.pepperl-fuchs.com](http://www.am.pepperl-fuchs.com)

## Pilz Automation



Pilz Automation manufactures automation and control products, including safety relays for multiple applications, programmable safety systems, safe bus systems, emergency stop buttons and text displays. Please visit: [www.pilz.com](http://www.pilz.com)

## Schneider Electric



Schneider Electric is the world's power and control specialist. Through its world-class brands – Merlin Gerin, Square D and Telemecanique – Schneider Electric anticipates and satisfies its customers' requirements in the residential, buildings, industry, energy and infrastructures markets. Schneider Electric generated sales of approximately \$9.5 billion in 2002 in 130 countries. Schneider Electric provides the automotive industry with innovative and reliable manufacturing solutions and services. These solutions address manufacturing process improvements in production quality, throughput speed, maximization of uptime, and real-time sharing of production intelligence. Specific solutions such as Transparent Factory, collaborative automation, weld cell automation and safety, body shop and paint automation solutions, production management information systems and more, are evidence of our commitment to the automotive industry. Please visit: [www.schneider-electric.com](http://www.schneider-electric.com)

## STI (Scientific Technologies Inc.)



STI brings more than 30 years of experience to automotive manufacturing safety solutions. Its large product selection and short lead times enable the recommendation of tailor-made solutions. STI's products and expertise include: safety light curtains, safety laser scanners, safety contact strips and edges, hydraulic press brake guarding, safety mats, safety interlock switches, safety monitoring relays enabling switches, mechanical and hard guards, safety integration services, and risk assessment, engineering and documentation. Please visit: [www.sti.com](http://www.sti.com)

## City of Sunderland



In recent years Sunderland has become one of the fastest growing automotive cities in Europe. Since the arrival of Nissan in 1984 and the subsequent emergence of more than 30 associated component suppliers, over 12,000 jobs have been created. The City Council's award-winning Business Investment team is committed to delivering an enthusiastic, supportive and efficient service to inward investors. Please visit: [www.investinsunderland.com](http://www.investinsunderland.com)

## Tornos



For those active in the automotive sector Tornos comes up with highly suitable solutions that embrace automatic lathes, together with all the peripherals and required accessories, as well as providing the knowhow and expertise of its specialists. Tornos has produced single spindle and multispindle automatic lathes as turnkey solutions for the automotive industry for more than 40 years.

Please visit: [www.tornos.ch](http://www.tornos.ch)

## Uddeholm



Uddeholm is a world-leading supplier of tooling material and related services. The company is constantly improving its worldwide presence through its sales companies including its ASSAB brand and agents. In response to the trends and requirements of multinationals involved in the automotive supply chain, Uddeholm is leading the way in becoming the first global services provider in its core business. Uddeholm has created its Automotive Concept to better serve various actors in the

automotive supply chain: from the die and mold manufacturer to the tool-user and finally to the end-user of the components. Please visit: [www.uddeholm.com](http://www.uddeholm.com)

## UGS PLM Solutions



UGS PLM Solutions is a leader in product data management (PDM), collaboration and product design software and services with 41,000 clients and more than 2.6 million seats of technology operating in the market. The company works collaboratively with its clients to create solutions enabling them to transform their process of innovation. The

integration of the former operations of several leading companies has created some of the leading design, collaboration and PDM technologies that ultimately formed the foundation of the product lifecycle management (PLM) industry.

Please visit: [www.ugsplm.com](http://www.ugsplm.com)

## Woodhead



Woodhead Industries develops, manufactures and markets network and electrical infrastructure products engineered for maximum performance in demanding environments. The global automotive market recognizes our brands of Brad Harrison, SST, Daniel

Woodhead, mPm, applicom, Aero-Motive and RJ-Lnxx. Woodhead has been providing highly innovative solutions leading to increased performance, reliability and cost reduction in the automotive plant floor for more than 80 years. Through scalable and modular solutions, Woodhead has significantly improved operational uptime, reduced installation and downtime costs.

Woodhead has been a publicly-held company (NASDAQ:WDHD) since 1968 and operates from 22 locations in 10 countries spanning North America, Europe and Asia/Pacific. Please visit: [www.woodhead.com](http://www.woodhead.com)

## special support

### Detroit Regional Economic Partnership

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The Detroit Regional Economic Partnership is a public/private sector effort representing the 10 counties of south-east Michigan and the city of Detroit, along with 100 private-sector investors. Partnership staff and volunteers develop leads and prospects that have an interest in locating or expanding in the region and then provide them with complete,

customized information and research to help a company make sound strategic location decisions. The Partnership is part of the Detroit Regional Chamber, the largest chamber of commerce in the US. Please visit: [www.detroitchamber.com](http://www.detroitchamber.com)

### Michigan Economic Development Corporation

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The Michigan Economic Development Corporation (MEDC), a one-stop resource for businesses seeking to grow in Michigan, is a partnership between the state and local communities. It promotes smart economic growth by developing strategies and providing services to create and retain good jobs and a high quality of life. The Technology Tri-Corridor initiative, administered by the MEDC, fosters growth in life sciences, advanced automotive technology and homeland security industries through funding and resource collaboration, focusing on emerging technology sectors. Programs such as NextEnergy and the Michigan Small Tech Association help grow alternative energy and small technology sectors in Michigan. Please visit: [www.michigan.org](http://www.michigan.org)

## media support

### WJR

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WJR-AM 760 plays a major role in delivering news and opinion to the Detroit area's automotive community, reaching 1,000,000 people per week both nationally and locally. The station delivers up-to-date information to the state's largest group of auto executives, engineers, chemists etc, reaching over 36,000 auto industry professionals weekly or one out of every five engineers in the region. The

station features 35 automotive reports weekly and is a 50,000 watt clear-channel broadcaster that also goes out to other key areas outside of Detroit, ie Ann Arbor, Lansing, Grand Rapids and beyond in Ohio, Indiana and Canada. Please visit: [www.wjr.net](http://www.wjr.net)

### Automotive Manufacturing Solutions

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This year *Automotive Manufacturing Solutions* celebrates its fifth year as the automotive industry's most authoritative magazine for executives working in vehicle production. It offers readers an in-depth insight into the latest manufacturing technologies being employed by the world's leading automakers and component suppliers. Please visit: [www.automotivemanufacturingsolutions.com](http://www.automotivemanufacturingsolutions.com)

## organizers

### Ultima Media

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## ULTIMAMEDIA

As a company devoted solely to the international automotive industry Ultima Media is able to offer all its readers, advertisers, delegates and sponsors a focused business. The company understands the industry and responds to its trends and demands by providing solutions: Ultima Media's publications and events are tailored to your industry – the automotive industry. Please visit: [www.ultimamedia.org](http://www.ultimamedia.org)

**DAY 1: Tuesday 8 JUNE 2004**

7.00 – 9.00

Breakfast ————— sponsored by



7.30 ▶

Exhibition opens

8.00 – 9.00

Registration in lobby

9.00 – 10.30

**SESSION 1: Automation, robots and control**

Speakers and panel members will discuss the rise of automation and its impact on machinery, robotics, control systems and workforce organization. Vehicle maker and supplier manufacturing experts will field questions in the discussion forum after the presentations, with input from machinery and service providers.

**Speakers & panelists:** Charles Wu Ford Motor Co.  
Sundar Balu Woodhead Industries  
Ross Robson Utah State University  
Al Hufstetler UGS PLM Solutions

10.30 – 11.00

Coffee break ————— sponsored by



11.00 – 12.30

**SESSION 2: Joining technologies – from traditional welding through lasers, clinching and beyond**

Major OEM manufacturing executives will present a focus on their companies' welding and other control system strategies. A panel discussion will follow, debating many elements of control and process execution in this vital area of automaking.

**Speakers & panelists:** Phillip Disch General Motors  
Dr Mariana Forrest DaimlerChrysler Corporation  
Stanley Ream Edison Welding Institute  
John Pabst Su-Dan Corporation

12.30 – 14.00

Lunch ————— sponsored by



14.00 – 15.30

**SESSION 3: Safety – productivity's essential partner**

Presentations from vehicle maker experts will highlight the integration of safety as an essential and valuable component of tomorrow's efficient manufacturing process. Also, the impact on labor relations and the role of the unions in today's safer plant environment. Industry safety experts and contributors to many standards and legislation formulas will review the move toward global safety standards. Panel discussion follows with input from speakers and industry experts.

**Speakers & panelists:** James Thomas DaimlerChrysler Corporation  
Harold Shelton General Motors  
Mike White General Motors  
Thomas Pilz Pilz Automation Safety  
Joseph Lazzara Scientific Technologies, Inc.

15.30 – 16.00

Coffee break ————— sponsored by



16.00 – 17.30

**SESSION 4: Manufacturing and the power of the integrators**

Several manufacturing leaders will present on and debate the demands of new global markets and how full service providers can speed design, build, specify and ramp-up of new facilities. Panel discussion will follow.

**Speakers & panelists:** Mark Wiktorski Liberty Precision Industries  
Erich Kibler Nothelfer Inc  
Neil Willetts Comau Pico

17.30 ■

Exhibition closes

18.00

Cocktail reception and gala dinner. Address from Mayor of Dearborn ————— sponsored by



## DAY 2: Wednesday 9 JUNE 2004

7.00 – 9.00 Breakfast ————— sponsored by



7.30 ▶ Exhibition opens

8.00 – 9.00 Registration in lobby

9.00 – 10.30 **SESSION 5: Flexibility and lean manufacturing**

Senior manufacturing leaders will present the new streamlined strategies and processes of the vehicle maker. A head of manufacturing at one of the world's largest suppliers will speak on the integration of its lean manufacturing systems into the total company 'philosophy'. Hardware and software enablers will be discussed, including a presentation on virtual manufacturing modeling.

**Speakers & panelists:** **Joseph Hinrichs** Ford Motor Co.  
**David Logozzo** Delphi Corporation  
**William Guerra** DaimlerChrysler Corporation  
**James Ricci** Harbour and Associates, Inc.  
**Peter Schmitt** Delmia Corporation

10.30 – 11.00 Coffee break ————— sponsored by

11.00 – 12.30 **SESSION 6: Press shop and metalforming solutions**

Leaders in OEM stamping reveal their companies' major modernization of stamping lines, moves from press lines to new transfer presses and speak on process-driven product design. Senior executives from machinery providers will present a view of the latest stamping processes and their integration into the total vehicle making process, from design to delivery.

**Speakers & panelists:** **Paul Wollschlager Jr** Ford Motor Co.  
**Hans Hofele** Schuler Presses GmbH & Co. Kg  
**Klaus Rothenhagen** Müller Weingarten AG

12.30 – 14.00 Lunch ————— sponsored by

14.00 – 15.30 **SESSION 7: Location and the global market model**

Presentations from high-level speakers on the shifting location strategies of all the world's OEMs. Considering the balance between labor cost, manufacture-in-market, logistics and outsourcing R&D through to final assembly. Panel debate will include location experts, inward investment agencies, manufacturing consultants and others in a global vehicle making review.

**Speakers & panelists:** **Manfred Eibeck** Magna Steyr  
**Lizabeth Ardisana** Michigan Hispanic Chamber of Commerce  
**Keith Cooley** FocusHope  
**Mahesh Lunani** Roland Berger Strategy Consultants LLC

15.30 – 16.00 Coffee and refreshments ————— sponsored by



17.30 ■ Exhibition closes

End of the conference



**Lizabeth Ardisana**, Secretary of the Board of Directors, **Michigan Hispanic Chamber of Commerce**



Lizabeth Ardisana is the principal owner of ASG Renaissance, a technical and communication services firm. As the President she is responsible for the company's day-to-day operations and financial management. Lizabeth also manages the company's Consulting Services Department, which provides clients with environmental program management and minority supply chain development services. She also serves on the Board of Directors of Mariah Industries, Kettering University Board of Trustees, Ford Hispanic Supplier Council and The Board of Focus: HOPE – a civil and human rights organization dedicated to overcoming racism, poverty and injustice.

**Sundar Balu**, Director, Global Industry Marketing, Concentrating on Automotive, **Woodhead Industries**



During his 18 years at Honeywell, Lumberg and Woodhead, Sundar Balu has helped automate buildings, factories, develop onboard automotive sensors and help factories operate safely through the use of machine guarding systems. Recently he has launched Enclosure-less Industrial Network products and new industrial-grade connection systems for Ethernet. His intimate knowledge of the automotive automation market, from tier suppliers to complex machine builders, has assisted him to drive cost reductions for the global auto end user.

**Phillip Disch**, Executive Director, Machine Controls, Conveyors, Robotics and Welding Applications, **General Motors**



Phillip Disch is responsible for machine controls, conveyors, robotics and welding applications for General Motors' North American Divisions. He is currently working on combining technical resources globally to drive common technical initiatives across General Motors. He graduated from Marquette University in 1975 with a degree in electrical engineering. He joined General Motors as an electrical engineer with the former General Motors Assembly Division in Janesville, Wisconsin. He pursued and developed his engineering expertise with a succession of increasingly responsible plant assignments in Janesville, Wisconsin, Warren, Michigan and Linden, New Jersey.

**Manfred Eibeck**, Director, Production Technologies, **Magna Steyr**



Manfred Eibeck was appointed to his present position in 2002. He has worked for General Motors Opel Germany in tool design in the body shop; in body shop planning for European GM-plants; was Groupleader, BIW planning GM-Europe; and lean production and development assignment GM-NAO. He then worked for Vauxhall Motors UK as Manager, Planning in the press shop, body shop and paint shop. He returned to GM Opel Germany as Manager, Manufacturing at Rüsselsheim and Body Shop Manager, Epsilon and Omega platform. He has an apprenticeship in tool and die-making, and a BSc in mechanical engineering.

**Dr Mariana Forrest**, Snr. Manager – Adv. Joining Technology, Adv. Materials and MFGs Technology, Advance Vehicle Engineering, **DaimlerChrysler Corporation**



Dr Forrest joined Chrysler Corporation in 1977. She is a graduate of the Chrysler Institute of Engineering, and holds an MSEE from the University of Michigan and a PhD in electrical engineering from Wayne State University. She has published several papers in professional journals and at international conferences, and is active in promoting the application of laser welding technology within DaimlerChrysler Corporation Body-in-White. She represents the company on several industry consortia related to laser technology, and is a member of the American Welding Society (AWS), Society of Automotive Engineers (SAE) and Laser Institute of America (LIA).

### **William Guerra, Supervisor, Design for Manufacturing and Assembly, DaimlerChrysler Corporation**

William Guerra has held his current position at DaimlerChrysler for five years, which involves supervising a team of eight manufacturing domain experts and IT professionals. Prior to joining DaimlerChrysler he held various positions in the IT industry, working for General Electric, EDS, IBM, PTC, Sun Microsystems and Tecnomatix Technologies. Of his 22 years of IT experience, 18 have been related to the automotive industry. He has been working with manufacturing-related applications for nine years. William Guerra gained his BSc in management information systems in 1982 from the State University of New York, Albany.

### **Joseph Hinrichs, Director of Manufacturing, Vehicle Operations, Ford Motor Co.**



Joseph Hinrichs was appointed to his current position in July 2003 and is responsible for the manufacturing, quality and launch of Ford and Mazda B-Series vehicles at five assembly plants. In January 2003 he was also given responsibility to champion Ford's plant productivity improvement efforts in North America. In this role his charge is to harness, coordinate and leverage plant productivity initiatives, providing a common focus and ensuring that the necessary processes and reporting systems are in place.

### **Hans Hofele, Director, Automotive Sales/Development, Schuler Presses GmbH & Co. Kg**



Hans Hofele has been Director, Automotive Sales/Development since 2002. His experience with Schuler Presses Germany is as follows: Calculation Department Engineering, Finite Element Method from 1985 to 1989; Mechanical Engineering, different positions in design of big presses and transfer systems from 1990 to 1999; and Head of Mechanical and Electrical Engineering, Development of New Products (compact crossbar) from 2000 to 2001. He has a degree in mechanical engineering from the University of Stuttgart.

### **Al Hufstetler, Vice President, Digital Manufacturing Product Management, UGS PLM Solutions**



Al Hufstetler's role at UGS PLM Solutions is to expand the market presence of E-factory, the digital manufacturing brand of the company. He is strategically positioned in the development and marketing roles to ensure the manufacturing customers understand the benefits of digital manufacturing. Al joined UGS PLM Solutions in October 2001. Prior to this he was with Delmia (formally Deneb Robotics) for more than 11 years in various sales and management capacities. Before this he spent 10 years in the robotics and automation domain, working for Graco Robotics in technical management and programming of automated robotics systems for the automotive and aerospace industries.

### **Erich Kibler, Vice President, Engineering, Nothelfer Inc.**

Erich Kibler took up his present position in June 2004. He has been a Nothelfer employee since November 1996. He became Project Manager in the BIW division of VW Curitiba, Brazil, and then at Ravensburg. In the following two years he was responsible for calculation and order preparation. From April 2001 until December 2002, he was Project Manager during the BMW X3 project; afterwards he was responsible for calculation and order preparation within the BIW division. Erich Kibler gained an engineering diploma from the University of Constance in 1996. He acquired his Bachelor of Engineering title from Coventry University, UK.

**Joseph Lazzara, President and CEO, Scientific Technologies Inc.**



Joseph Lazzara has been in his present post since 1993 and has been employed by STI since 1981. He has gained a BSc from Purdue University and a Masters in business administration from Santa Clara University. He is a past member of the board of directors of the American Electronics Association (AEA), the Board Executive Committee of the AEA and past Chairman of the AEA's Competitive Excellence Committee. He also served as Chairman of the EHS Committee for the Association of Manufacturing Technology.

**David Logozzo, Executive Director, Engineering & Manufacturing Operations, Lean Enterprise, Delphi Corporation**



David Logozzo has been an Operations Director, Chief Product Engineer, Quality Director and Business Line Leader in his 35 years in the manufacturing industry. He has an ME and MBA and is a member of the Shingo Prize Board of Governors.

**Mahesh Lunani, Partner, Roland Berger Strategy Consultants LLC**



Mahesh Lunani has over 12 years of professional experience, including six years at Ford. He has successfully led a number of key top management assignments with leading vehicle manufacturers and *Fortune 500* companies in US, Europe and Japan. In addition, he has managed development of product creation process at a leading Japanese OEM. In the past three years Mahesh has been intensively involved in globalization and expansion into emerging markets. He has spoken at a number of conferences and has contributed toward numerous publications. Mahesh has a Master's in manufacturing engineering and a Bachelor's degree in industrial and mechanical engineering.

**Thomas Pilz, CEO, Pilz Automation Safety**



Thomas Pilz took up his current position in 1996. He also participates actively in several standards committees and is a member of a number of industry groups. These include AIAG, RIA, NFPA 79, USNC TAG for IEC TC44, ANSI B11.TR4 and SEMI. He was formerly a market analyst at Hewlett-Packard. Thomas has gained degrees in business administration (Dipl.-Kaufmann) from the University of Passau.

### Stanley Ream, Laser Technology Leader, **Edison Welding Institute**



Stanley Ream is an internationally recognized expert in industrial lasers, process development and analysis, and manufacturing systems design and performance. As Laser Technology Leader at EWI, he focuses his experience on laser processing solutions for challenges facing all manufacturing industries. Starting in the 1970s with his participation in high-power laser welding development for the Air Force, Navy and NASA, he continued his experience with Sciaky Bros, AVCO Everett Research Laboratories, IIT Research Institute, Battelle, Amada, GE Fanuc and Worthington Industries (TWB). He has gained a BWE/MS in welding engineering from Ohio State University.

### James Ricci, Senior Manager, **Harbour and Associates, Inc.**



James Ricci has 14 years of automotive manufacturing experience. For the past seven his primary responsibility has been assisting manufacturers with onsite operations improvement, lean manufacturing transformation, manufacturing assessments and competitive benchmarking. Clients have included OEMs, Tier 1 and Tier 2 suppliers, and financial institutions.

### Ross Robson, Executive Director, Shingo Prize for Excellence in Manufacturing, **Utah State University**



Ross Robson has been the Executive Director of the Shingo Prize for Excellence in Manufacturing, a recognition and award program for manufacturers in the US, Canada, and Mexico, since 1989. He also serves as Associate Dean for Business Relations of the College of Business and is a management Professor at Utah State University in Logan, Utah. Dr Robson received a PhD from the University of Maryland, and has taught at the University of Georgia and the University of Tennessee prior to joining the faculty of Utah State University in 1979.

### Klaus Rothenhagen, Key Account Manager for South and North America, **Müller Weingarten AG**



Klaus Rothenhagen began his career in 1976 at Müller Weingarten as a draftsman and worked in engineering for seven years. After serving one year in the military in 1984 he studied mechanical engineering at the university of Ravensburg and finished in 1988. From 1988 he worked in project planning and sales. In 1995 he took over the position as the Director of Technical Applications at Müller Weingarten Corp. in Cincinnati, Ohio. Since 1998 he has held the position of Key Account Manager responsible for all Müller Weingarten sales activities in North and South America.

**Peter Schmitt**, Vice President of Worldwide Marketing and Business Development, **Delmia Corporation**



Peter Schmitt took up his present position in January 2001. He has built a worldwide marketing organization that has improved the efficiency and productivity of the group. He also set up and leads Delmia's Global Competency Center. He joined DELTA Industrie Informatik GmbH in 1998 as sales director and in 1999 was appointed managing director of EAI-DELTA GmbH. Before this he served as a scientific employee and group manager at Fraunhofer Institut for Manufacturing Engineering and Automation (IPA). He holds Bachelor's and Master's degrees in mechanical engineering from the University of Karlsruhe and a Doctorate in engineering from the University of Stuttgart.

**Harold Shelton**, UAW Coordinator, Health and Safety Activities, **General Motors**



Harold Shelton works for the International Union, UAW as Coordinator, assigned to the UAW-GM Center for Human Resources, Health and Safety Activity. He began working for GM in 1968. He has a Bachelor's degree in journalism from Michigan State University and is pursuing a Master's degree in human resource administration.

**James Thomas**, Director, Health & Safety and Medical Operations, **DaimlerChrysler Corporation**



James Thomas was appointed Director, Health & Safety and Medical Operations in July 2001. He is responsible for establishing and directing policy relating to safety and health conditions within DaimlerChrysler operations. He has held a variety of positions with increasing responsibility in employee relations and human resources. He holds a bachelors degree in business administration from the University of Michigan and a Master's in finance from the University of Detroit/Mercy. He joined Chrysler in 1973 as a management trainee and his posts include: Corporate Labor Relations Staff Specialist, December 1980; Manager, Hourly & Salary Union Relations, April 1988; and Director, Occupational Safety, Health and Legislative Affairs, February 1996.

**Neil Willetts**, Executive Director of Product & Proposals Development, **Comau Pico**



Neil Willetts is the head of Product & Proposals Development, Welding and Assembly business unit of Comau Pico, based in Southfield, Michigan, US. Comau Pico (formerly PICO) is a division of Comau SpA. Neil graduated from Aston University in Birmingham England with a Bachelor's degree in production engineering and production management, followed by a Master's from Warwick University in manufacturing systems engineering.

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**Paul Wollschlager Jr**, Press Engineering Manager, **Ford Motor Co.**

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Paul Wollschlager started at Ford Motor Company as an Automation Process Engineer for stamping in 1992. He is now the Press Engineering Manager, Ford North America, focusing on the modernization of stamping. The modernization plan addresses efficiencies in process alignment, sourcing strategy and the flexibility required to produce traditional tandem line parts in transfer presses. He is an alumni of Lawrence Technological University (BSEE, 1990) and Baker College (MBA, 2002).

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**Charles Wu**, Director Manufacturing and Vehicle Design Research and Advanced Engineering  
**Ford Motor Co.**

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Dr Wu was appointed to his current position in 1996. He received his BSc and PhD in mechanical engineering from the University of London. From 1974 to 1992 at Ford, he was engaged in technical work relating to engine systems, noise and vibration, and manufacturing technology. Since 1992 he held various management positions within the Ford Scientific Research Laboratory, including Manager of the Manufacturing Systems Department (1992-1994) and Manager of the Engine and Processes Department (1994-1996). Dr Wu has automotive experience in manufacturing technology, material engineering, vehicle design research, engine diagnostics technology, machining control systems and rapid prototyping.



## latest speakers

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**Keith Cooley**, Chief Operating Officer, **FocusHope**

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**John Pabst**, Sensors Specialist, **Su-Dan Corporation**

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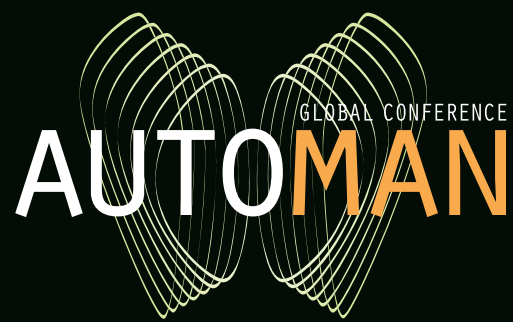
**Mike White**, Assistant Director, Occupational Health and Safety, **General Motors**

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**Mark Wiktorski**, Corporate Development Manager, **Liberty Precision Industries**

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