24th ANNUAL ALAW: Lasers: Lighting the Way for the Future of Transportation

PROGRAM AGENDA

Monday, June 5
8 a.m.- 4 p.m. Exhibit Set up in the Garden Gallery Room, Inn at St. John’s

8 a.m.- 2 p.m. Laser Welding Essentials Course & Lunch at Precitec, Wixom
(Registration is separate from ALAW)
David Havrilla, TRUMPF Inc.

8 a.m. – 1 p.m. Golf Outing and Boxed Lunches/ Shot Gun Start- Inn at St. John’s Golf Course

1:30 – 3:30 p.m. Technology Demonstrations
Laser Mechanisms, Inc. in Novi

4 - 6 p.m. Technology Demonstrations
Precitec in Wixom

Precitec and Laser Mechanisms
Technology Demos
and Welcome Reception
Sponsored by:

6:15 - 8 p.m. Welcome Reception Dinner and Exhibits in the Garden Gallery Room
Tuesday, June 6

7 – 7:45 a.m.  Breakfast sponsored by: KUKA
Exhibits in the Garden Gallery Room

7:50 - 8 a.m.  General Session in the Grande Ballroom Welcome Remarks by Co-Chairs:
Craig Bratt, Fraunhofer USA, Matt Sidlinger, Genesis Systems Group,
Justin Wolsker, General Motors

8:05 – 9 a.m.  KEYNOTE Presentation: The Changing Footprint of the North American
Automotive Industry
Bernard Swiecki, CAR

9:05 – 9:25 a.m.  Laser Hot-Wire Additive Manufacturing in Aerospace Applications
Shuang Liu and Erik Miller, Miller Electric

9:30 – 9:50 a.m.  Highly Productive 3D Laser Cutting of Large Automotive Parts
Steve Jansen, Jenoptik

9:55 - 10:10 a.m.  Networking Break and Exhibits in the Garden Gallery Room

10:15 - 10:35 a.m.  Coaxial Seam Tracking and Topography Measurement through Optical
Coherence Tomography (OCT) in 3D Scanner Welding
Tim Morris, Blackbird Robotics

10:40 – 11:00 a.m.  Laser Measurements Critical to Successful Additive Manufacturing Processes
Dianne Devereaux-Michael, Ophir-Spiricon, LLC

11:05 - 11:25 a.m.  Optimizing Part Production Through Selective Additive, Subtractive, and
Forming Manufacturing Methods
Franziska Maschowski, TRUMPF Inc.

11:30-11:50 a.m.  Quality Assurance within Laser Welding Automotive Applications
Brian Zaborny, PLASMO USA LLC

11:55- 12:15 p.m.  Metal Cutting and Joining Using Next-generation Industrial Fiber Lasers
Brian Victor, nLIGHT Corp.

12:15- 1:15 p.m.  Networking Lunch: Judea Ballroom & Exhibits in the Garden Gallery

1:15 – 1:35 p.m.  Laser Beam Welding with High Power CW-Laser at 515 nm and 1070 nm Wave
length
Jens Standfuss, Fraunhofer IWS
1:40 – 2 p.m.  
**Closed Loop Control of Deep Penetration Welding with Laser Processing Tools**  
Thorsten Lorenz, Precitec

2:05- 2:25 p.m.  
**Metal Additive FEA Simulation**  
Jeff Robertson, Simufact Engineering

2:30- 2:50 p.m.  
**Networking Break & Exhibits in the Garden Gallery Room**

2:55- 3:15 p.m.  
**Body in White Multi-Spot Brazing and Welding Applications**  
Axel Luft, Laserline

3:20- 3:40 p.m.  
**Improving and Quantifying the Process Window with Ultrafast Lasers**  
Kristen Tebo, Coherent

3:45- 4:05 p.m  
**Hardening and Annealing Processes Through Remote Laser Processing**  
Tom Graham, Abicor Binzel

4:10- 4:30 p.m.  
**Laser welding in Automotive Powertrain Production and Nondestructive Quality Assurance**  
Renald Schedewy, EMAG L.L.C.

4:35 -5:35 p.m.  
**Networking Reception & Exhibits in the Garden Gallery Room**

5:45 - 9 p.m.  
**Open House & Live Demos at TRUMPF Inc.**

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**TRUMPF Inc.**  
Laser Technology Center  
4711 Clipper St.  
Plymouth, MI 48170  
5:45-9 p.m.
Wednesday, June 7

7 – 7:30 a.m. Breakfast and Exhibits in the Garden Gallery Room

7:35 - 8:20 a.m. General Session in the Grande Ballroom
KEYNOTE: Lasers - Enablers For State Of The Art Manufacturing
Jim Evangelista, Shiloh Industries

8:25 - 8:45 a.m. Laser Welding of Plastics in Automotive and Beyond
Hans Herfurth, Laser Mechanisms

8:50 - 9:15 a.m. Design Principles for Powertrain Applications
Chris Dackson, Advanced Nozzles

9:25 - 9:45 a.m. New NS Joining Technology
Daniel Capostagno, SPI Lasers

9:50 – 10:10 a.m. IPG Multi-Spot Technologies
Jochen Schanz, IPG Lasers GmbH

10:15 – 10:45 a.m. Networking Break & Exhibits in the Garden Gallery Room

10:50 - 11 a.m. Laser Measurements
Industrial Laser Applications like Automotive Demand Peak Performance of Laser Measurements
Burt Mooney, Gentec-USA

11:05 - 11:25 a.m New Technology for Flexible and High Productivity Processing
Dr. Christian Foehl, TRUMPF GmbH

11:30 - 11:50 a.m. Latest Advancements in Laser Cutting and Ablation Technology Using Beam Oscillation and Scanning Techniques
Andreas Wetzig, Fraunhofer IWS

11:55 a.m.- 12:15 p.m. New Trends in Automotive Welding with Reduced Spatter
Frank Gaebler, Coherent

12:30 - 4 p.m. Open House Lunch & Live Demos at Fraunhofer USA CLA

Fraunhofer USA
Center for Laser Applications (CLA)
46025 Port St.
Plymouth, MI 48170
12:30 - 4 p.m.