

# Aluminum Body Sheet Course AGENDA

Updated 03/04/2020

March 10-11, 2020  
The Inn at St. John's @ 44045 Five Mile Road  
Plymouth, MI 48170, USA

## Tuesday, March 10<sup>th</sup>

Time	Topic
7:30 am	Registration & Breakfast
8:30 am	Welcome and Introductions Nate Beavers, Founder & President, Automotive Aluminum Advisors LLC
9:00 am	Putting EV Materials Content in Perspective Abey Abraham, Managing Director, Automotive & Transportation, Ducker Frontier
9:30 am	Aluminum Body Sheet Product Overview Laurent Chappuis, President at Light Metal Consultants, LLC
10:00 am	Break
10:15 am	Alloy-Temper Definitions <ul style="list-style-type: none"> <li>• Tempers of Heat Treatable Alloys</li> <li>• Tempers of Non-Heat Treatable Alloys</li> </ul> Michael Bull, President, AIFCC13 Inc.
10:45 am	Manufacturing Overview of Aluminum Body Sheet <ul style="list-style-type: none"> <li>• Ingot Casting &amp; Homogenization</li> <li>• Cold Rolling and Hot Rolling</li> <li>• Continuous Cast Aluminum Sheet (CCAS)</li> <li>• Thermal Treatments</li> </ul> Michael Bull, President, AIFCC13 Inc.
11:30 am	Surface and Coatings Judson Delancey IV, Applications Specialist, BASF/Chemetall
12:00 pm	Lunch
1:00 pm	Microstructure and Properties <ul style="list-style-type: none"> <li>• Property Control of 5xxx Alloys</li> <li>• Property Control of 6xxx Alloys</li> <li>• Property Control of 7xxx Alloys</li> </ul> Michael Bull, President, AIFCC13 Inc.
1:45 pm	Corrosion and Corrosion Testing <ul style="list-style-type: none"> <li>• Intergranular Corrosion</li> <li>• Filiform Corrosion</li> <li>• Other Corrosion Tests</li> </ul> Dr. Narsimhan Raghunathan, President, Touchstone Testing Lab, LLC
2:15 pm	Break
2:30 pm	Product Selection & Applications Michael Bull, President, AIFCC13 Inc.

<b>3:00 pm</b>	Recycling Considerations Laurent Chappuis, President at Light Metal Consultants, LLC
<b>3:30 pm</b>	Specifications, Qualification and Lot Release <ul style="list-style-type: none"> <li>• OEM Specifications</li> <li>• Level 1 Qualification</li> <li>• Level 2 Qualification</li> </ul> Laurent Chappuis, President at Light Metal Consultants, LLC
<b>4:00 pm</b>	Questions and Daily Wrap-Up
<b>4:30 pm</b>	Networking Reception
<b>6:30 pm</b>	Event Adjourns

**Wednesday, March 11<sup>th</sup>**

<b>Time</b>	<b>Topic</b>
<b>7:30 am</b>	Registration & Breakfast
<b>8:30 am</b>	Keynote: Materials Innovation Drives the Auto Industry into the Future Abe Vadhavkar, Materials & Manufacturing Engineering Leader, Giraffe LLC
<b>8:45 am</b>	Materials Handling and Processing <ul style="list-style-type: none"> <li>• Incoming Requirements</li> <li>• Flattening, Leveling, Blanking</li> <li>• Transportation &amp; Warehousing</li> </ul> Don Strugala, Applications & Field Engineering, Automotive Aluminum Advisors LLC
<b>9:15 am</b>	Aluminum Formability <ul style="list-style-type: none"> <li>• Forming Limit Diagrams</li> <li>• Producibility Assessment</li> <li>• Binder and Addenda Design Considerations</li> </ul> Laurent Chappuis, President at Light Metal Consultants, LLC
<b>10:00 am</b>	Break
<b>10:15 am</b>	Tooling, Facilities & Production Considerations Laurent Chappuis, President at Light Metal Consultants, LLC
<b>10:45 am</b>	Elevated Temperature Forming Cliff Butcher, Assistant Professor, The University of Waterloo
<b>11:15 am</b>	Evaluating Mixed-Material Joining for Lightweighting of High-Volume Vehicles George Panourgias, Lightweight Innovations for Tomorrow (LIFT)
<b>12:00 pm</b>	Lunch
<b>1:00 pm</b>	Aluminum Laser Welding in Body-in-White and Closure Applications Weijie Zhang, Material Joining Manager, Gestamp Autotech Engineering R&D USA Inc.
<b>1:30 pm</b>	Assembly Processes in Multi-Material Applications Bill Cameron, Ford Global Key Account Manager

<b>2:00 pm</b>	Break
<b>2:15 pm</b>	USMCA Update Kristin Dzikczek, Vice President, Center for Automotive Research
<b>2:45 pm</b>	Supply Chain Considerations Nate Beavers, Founder & President, Automotive Aluminum Advisors LLC
<b>3:15 pm</b>	Purchasing <ul style="list-style-type: none"> <li>• Nomenclature</li> <li>• Metal &amp; Conversion Price Determinants</li> <li>• Purchasing Models</li> </ul> Nate Beavers, Founder & President, Automotive Aluminum Advisors LLC
<b>3:45 pm</b>	Review, Questions and Wrap-Up
<b>4:00 pm</b>	Event Adjourns

Register online at [www.auto-aluminum.com](http://www.auto-aluminum.com). Contact us by email at [info@auto-aluminum.com](mailto:info@auto-aluminum.com) or by telephone at 248-736-5649 for any registration questions or issues.

Registration fee includes two-day course topics, hard and soft copies of training materials, breakfast, lunch and networking event.

Automotive Aluminum Advisors reserves the right to make updates to this agenda without notice.