第三届中国国际汽车轻量化论坛2019
3rd China International Vehicles Lightweight Forum 2019

5th-6th September | Shanghai · China

Mainstream Technology Directions: Lightweight Metallic & Non-metallic material, Lightweight Process, Structural Optimization and Parts

25+ Authoritative Globally Speakers
50+ OEMs
300+ Lightweight Industry Professionals.
4 years Professional Team Successfully Organization

Innovation and Iteration in the Lightweight World
Invitation Letter

Recent years, the more and more strict trend of fuel economy in the world has led OEMs and component suppliers to further focus on the research of lightweight vehicles, and various new materials and technologies are emerging. However, vehicles lightweighting is not just a simple weight reduction, but also must consider factors such as performance, process, and cost. It is difficult for a single material to meet the different requirements of various auto parts at the same time. Automotive lightweight material upgrades, process innovations, and structural optimization will have a profound impact on the improvement of automotive lightweighting.

Organized by Polaris Consulting (Shanghai) Co., Ltd., co-organized by the People Government of Shanghai Jiading District Anting Town, and supporting by China Mechatronics Technology Application Association Manufacturing Execution System Branch, the 3rd China International Vehicles Lightweight Forum 2019 will be held on September 05 - September 6 in Shanghai. The summit will invite Well-known worldwide OEMs, lightweight metal and non-metal materials suppliers, lightweight advanced process equipment suppliers, core component suppliers, 3D printing and simulation equipment vendors, core technology providers and government officials and so on, nearly 300 industry professionals together, deep discussion on vehicles lightweight topics from the aspects of domestic and international status and trends, technological breakthroughs and difficulties, the future development of operational models and other issues. As the industry’s leading communication platform, the 3rd China International Vehicles Lightweight Forum 2019 will continue to explore the core development trend of the automotive lightweight industry, collecting domestic and international lightweight industrial forces, and explore the lightweight in the perspective of industry practitioners. Diverse possibilities in materials, processes and structures. Under the theme of “Innovation and Iteration in the Lightweight World”, let’s break through mediocrity with innovative thinking and changing with innovators.

Award Ceremony

- Best Lightweight Solution Innovation Award
- Lightweight Material Innovation Technology Award
- Best Lightweight Technology Achievement Award
- Annual Lightweight Intelligent Equipment Award
- Annual Lightweight Car Body Design Award
- Best Car Body Connection Innovation Process Award

Attendee Distribution

Attending Companies

- OEMs
- Parts Suppliers
- Lightweight Metallic/Non-metallic Materials
- Connection Equipment Supplier
- Stamping Process Solution Company
- Technology Solutions Company
- 3D Equipment Supplier
- Government Officials and Associations

Attendees Position

- CEO/GM
- VP/Deputy GM
- Material director
- Lightweight Technology Director
- Chief Engineer
- Stamping Director
- Head of Lightweight
With high cost-effectiveness, focus on industry hotspots: lightweight materials, technics and process, structural optimization and parts.

Taking new energy and environmental protection as the standing point, it combines the diversified needs of passenger cars, commercial vehicles and heavy trucks.

25+ Global authoritative speakers, with high degree of internationalization.

Longitudinal runs through upstream and downstream enterprises, horizontally focusing on market policies, and successively larger proportion of previous cooperative enterprises.

Focus on business meetings, senior forum qualifications, and renowned on-site referral services.

Supported by 30+ well-known industry media, with a customized brand solution.

300+ lightweight industry professionals attending.

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**Lightweight Materials**

*Metallic material: Advanced high-strength steel, aluminum, magnesium alloy, aluminum-magnesium alloy, low carbon steel, etc.*

*Non-metallic material: thermoplastic, fiber-reinforced composite materials, carbon fiber apply in body and parts; NVH control of lightweight non-metallic interior materials; environmental protection and recyclability research of non-metallic materials, etc.*

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**Structural Optimization**

*Connection process: laser welding of automotive lightweight materials, aluminum alloy and high-strength steel, body fasteners, parts sealing adhesives, riveting of dissimilar materials, etc.*

*Stamping process: automatic stamping production line, hot forming, high pressure casting, stamping of metal materials, forging technology, thermoplastic molding, etc.*

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**Components Lightweight**

*Battery: Choice of lightweight battery materials; Battery lightweight safety testing and certification; Lightweight battery case; Battery pack seal.*

*Interior: application and lightweight of non-metallic materials on automotive NVH; bonding of interior and exterior trim; vehicle VOC.*

*Seat: intelligent AI seat and lightweight; magnesium alloy seat frame.*

*And the detection and evaluation of key components and components, as well as the microstructure characterization and materials in the material development process, the failure principle of components, the evaluation method of failure, and the evolution mode of material properties.*
Day 1 5th September

08:00 Registration
08:50 Organization Committee Address

Latest Policy Interpretation and New Technology Sharing

9:00 Interpretation of China's Automobile Lightweight Status and Future Development Trends
Maodong FANG, Chief Engineer, CATARC

9:30 Carbon Fiber and Automotive Lightweight Technology Development
Karl-Heinz Füller, Head of Lightweight, Daimler AG

10:00 Application Summary of Automotive Lightweight Process Design Analysis
Zaiqi YAO, Deputy Chief Engineer, Geely Automobile

10:30 Award Ceremony
10:50 Coffee Break

Lightweight Materials, Structural Optimization and Components

11:15 Schuler New Design Strongline for Hot Stamping Customized for Chinese Market
Senior Official of Schuler (China) Group

11:45 NIO’s Advanced Car Body Development
Gary Denton, Body Engineering Director, NIO

12:15 Luncheon

14:00 New Generation of Heavy Truck Lightweight Materials Innovation and Process Transitions
Yongfei WANG, Executive Deputy Director of Technology Center, Beiben Trucks

14:30 3D Printing Promote Structure Optimization and Additive Manufacturing Technology Needs
Jiajun WANG, Head of Technology R&D, Xi’an Bright Laser Technologies Co., Ltd

15:00 Lightweight Design of EV Based on PMDO Architecture with M-Cubic (M3) Technology
Lei SHI, Senior Chief Engineer, Qoros

15:30 Coffee Break

16:00 Lightweight Component Connection Technology Solution
Sponsor Opportunity

16:30 Lightweight Path for High-energy Power Batteries
Jinran SU, Deputy Chief Engineer, Tianjing Lishen

17:00 Common Fastener Material Inspection
Guolong Liu, Senior Supervisor, SAIC Volkswagen

17:30 Lightweight Design Leads the Development of Powertrain Technology
Brian E. Leising, DS Product Technical Director, BorgWarner

18:00 End of Day 1

Day 2 6th September

08:50 Organization Committee Address

Lightweight Materials and Advanced Technology

9:00 Challenges, Trends and Advance Technology in Multi-material Lightweight Automotive Body Connections
Ninghong ZHANG, Welding Chief Engineer, Dongfeng Motor

9:30 Welding and Assembly Process of Cast Aluminum Alloy in Lightweight Application
Weidong MAO, Manufacturing Director, Chery Motor

10:00 Intelligent Laser Welding Technology Upgrade Vehicle Lightweight
Senior Official of Trumpf China

10:30 Coffee Break

11:00 Heavy-duty Chassis Lightweight Based on Frame and Suspension Integrated Design
Kangkang YAN, Design Director, Shaanxi Automobile Technology Center

11:30 TBD
Senior Official of GONVVAMA/VAMA

12:00 Latest Application of Hot Stamping Forming Process in Automobile Lightweighting
Ingo von Wurmb, Director of Technical Press Shop Planning, BMW Brilliance

12:30 Luncheon

14:00 Non-metallic Materials Application in Automotive NVH and Lightweight
Guangdong WANG, Head of Materials, Technology Center, Great Wall Motor

14:30 Lightweight Material and Process Apply for Vehicle Interiors
Sponsor Opportunity

15:00 AI Intelligent Seat Lightweight Solution
Mathew MA, CBU Director, Faurecia Clean Mobility

15:30 Coffee Break

16:00 New Breakthrough - Innovative Application of Automotive Lightweight Technology
Javier Martinez Cue, Director of I+D in FPK Lightweight Technologies, Batz Group

16:30 Research and Application of Advanced Engineering Plastics in Vehicle Lightweight
JiaqiHUANG, Materials Engineering Technical Director, JAC Motors

17:00 Panel Talking: Discussion on the Future Development Trend of Cost Reduction, Safety and High Efficiency of Automobile Lightweight
Chuanbo LIU, Body Director, Xpeng Motor
JiaqiHUANG, Materials Engineering Technical Director, JAC Motors
Dongwei ZHANG, Stamping Senior Chief Engineer, Beijing Benz
Mathew MA, CBU Director, Faurecia Clean Mobility
Panel Sponsor Opportunity

17:40 End of Forum