第三届 CLVF
中国国际汽车轻量化论坛2019

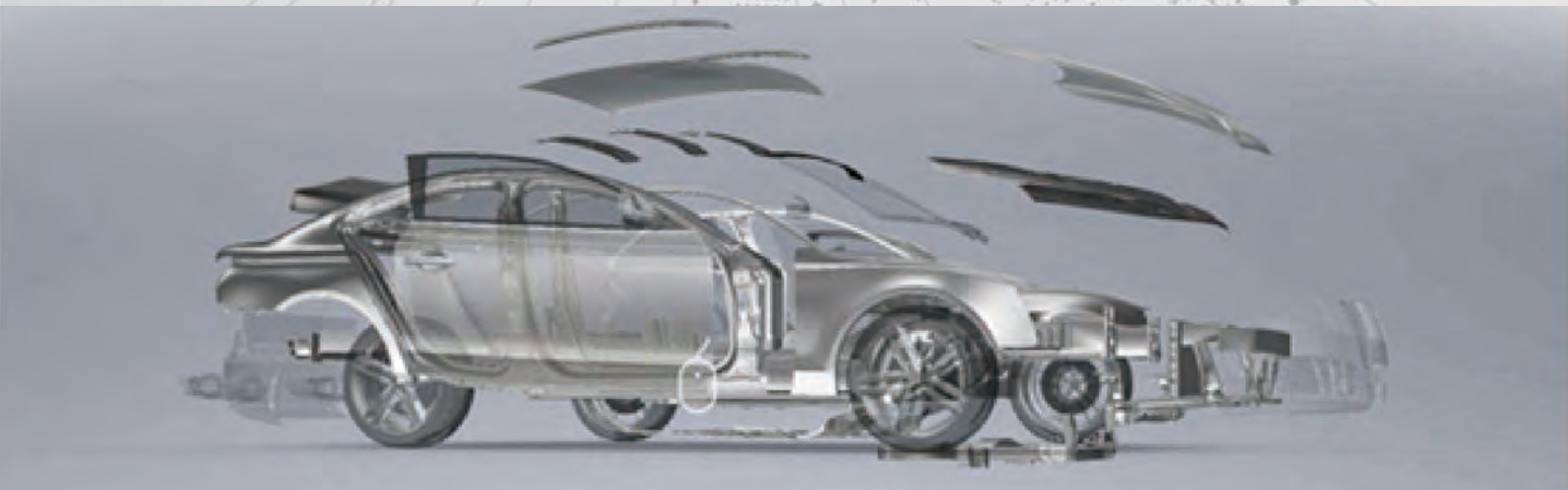
3rd China International Vehicles Lightweight Forum 2019

5th-6th September | Shanghai · China

1. Mainstream Technology Directions: Lightweight Metallic & Non-metallic material, Lightweight Process, Structural Optimization and Parts
2. 25+ Authoritative Globally Speakers
3. 50+ OEMs
4. 300+ Lightweight Industry Professionals
5. 4 years Professional Team Successfully Organization

Innovation and Iteration in the Lightweight World

轻量级世界的创新与迭代



Organizer | 主办单位

希迈商务咨询 POLARIS

Co-Organizer | 协办单位

上海市嘉定区安亭镇人民政府
The People's Government Of Anting Town Jiading District Shanghai

焉知 • 汽车科技新媒体
Automotive Technology New Media

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.

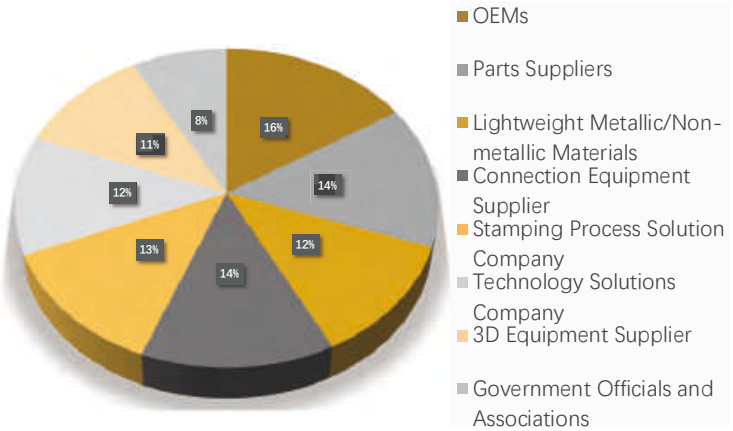
Organized by Polaris Consulting (Shanghai) Co., Ltd., co-organized by the People Government of Shanghai Jiading District Anting Town, and supporting by China Mechatronics Technology Application Association Manufacturing Execution System Branch, the 3rd China International Vehicles Lightweight Forum 2019 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

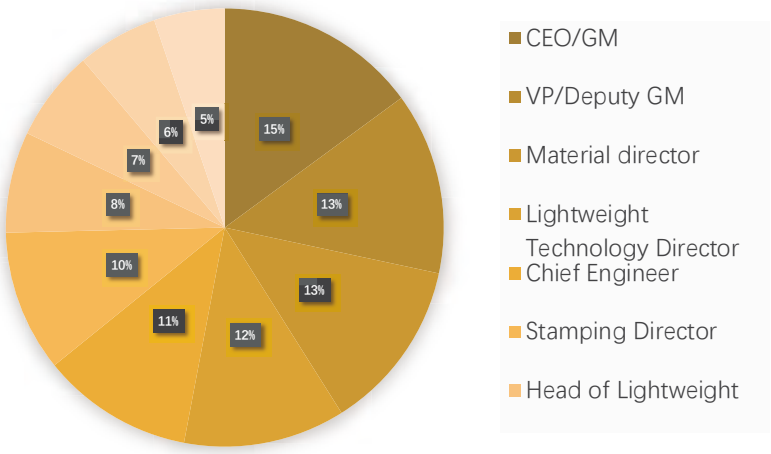
- Best Lightweight Solution Innovation Award
- Lightweight Material Innovation Technology Award
- Best Lightweight Technology Achievement Award
- Annual Lightweight Intelligent Equipment Award
- Annual Lightweight Car Body Design Award
- Best Car Body Connection Innovation Process Award

Attendee Distribution

Attending Companies



Attendees Position



会议亮点
Conference Highlights

01 With high cost-effectiveness, focus on industry hotspots:
lightweight materials、technics and process、structural optimization and parts

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

03 25+ Global authoritative speakers, with high degree of internationalization

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

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

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

07 300+ lightweight industry professionals attending

Forum Hotspot

Lightweight Materials
Metallic material: Advanced high-stren
Gth lightweight body materials - ultra-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 material, etc.

Lightweight Process
Intelligent equipment: 3D printing technology for parts or topology optimization of frame structure, additive manufacturing of dissimilar materials
Simulation optimization design: Structural optimization and CAD, CAE and other technologies which used to optimize the structure, such as modular integrated design and structural topology optimization.

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.

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
Jiaqi HUANG, 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**
Jiaqi HUANG, 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