



SAE 2019 中国·澳门



汽车技术趋势研讨会

CHINA (MACAU) AUTOMOTIVE TECHNOLOGY TREND SEMINAR

2019年10月25日 October 25, 2019

中国·澳门·威尼斯人酒店 Venetian Macau, Macau, China





SAE International 国际自动机工程师学会 是航空航天、汽车、商用车及工程农用机械领域权威性专业学会。相对于其他机构，SAE 制定的车辆和航空航天标准在行业内占据绝对优势。同时，SAE 还提供全球最丰富的航空航天、汽车、商用车及工程农用机械领域的工程信息，并拥有全球性的车辆及航空航天工程师社交网络。

我们通过全面的项目、产品和服务，为行业提供信息、工具和技术，以帮助专业人士更好地完成工作，并保证下一代业内工程师能够获得良好的职业发展。

自 1905 年起，SAE 就开始建立航空航天、汽车、商用车及工程农用机械领域的工程师网络，整合他们所需要的技术资源，以满足他们终生学习的需要，推动行业技术的进步与发展。

SAE International 第一任副主席是一个名叫亨利·福特（美国福特汽车公司创始人）的才志兼备的工程师，在最早的发展阶段，SAE 就获得了奥维尔·莱特（飞机发明人之一）等人的支持。在此基础上，我们建立了一个紧密合作、信息互通的广泛的中立性平台，并制定了许多首创标准。今天，SAE 已经成为了全球公认最权威的航空、汽车、商用车及工程农用机械工程知识来源，而信息共享仍然是我们的基本原则。

A professional society, SAE International is the authority on vehicle engineering. We develop more vehicle technical standards—and more aerospace standards—than any other organization. We offer the largest library of vehicle engineering content. And, we bring together the largest global network of engineers in the world.

Through a comprehensive collection of programs, products and services, we supply the information, tools, and technical know-how to help today's professionals do their jobs better while we ensure the development of the next generation of mobility engineers.

Since 1905, SAE has connected automotive, aerospace, and commercial vehicle engineers to each other and the technical resources needed to foster a lifetime of learning, solutions to improved vehicle technology, and the advancement of the mobility industry.

SAE International—whose first vice president was an up-and-coming engineering talent by the name of Henry Ford and included early supporters like Orville Wright—was based on providing a platform for collaborative and informed dialog and the impetus of its earliest standardization efforts. Today, the sharing of information remains at its core, with SAE being acknowledged globally as the ultimate knowledge source for mobility engineering.



中国机械国际合作股份有限公司（中机国际）是大型中央企业集团、世界 500 强企业——中国机械工业集团有限公司的控股子公司。公司拥有 60 多年的办展经验和专业的办展团队，已形成境内外自主办展、出国代理展览、展览工程服务等完整的展览业务体系。每年在国内 30 多个大中城市举办 40 多个大型展会，总展览面积近 300 万平方米。在境外 100 多个国家，承办 160 多个自办展和代理展。组织专业观众 50 万人次。其中参与主承办的“北京国际汽车展览会”和“上海国际汽车零部件、维修检测诊断及服务用品展览会”位列 2017 年世界商展 100 强排行榜的前 40。

China National Machinery Industry International Co.,Ltd. (Sinomachint) is a holding subsidiary of China National Machinery Industry Corporation (SINOMACH), a large state-owned group and a Fortune Global 500 enterprise. The company has 60 years of experience in organizing exhibitions and specializes in areas such as international exhibitions, international trade, project contracting, and culture and media, as well as industrial investments related to these areas. Each year, more than 40 large-scale exhibitions are held in more than 30 large and medium-sized cities in China, with a total exhibition area of nearly 3 million square meters. Undertake more than 160 self exhibitions and agency exhibitions in more than 100 countries outside china. 500 thousand professional visitors were organized. Among them, the "Beijing International Automobile Exhibition" and "Shanghai international auto spare parts, maintenance testing and diagnosis equipment and service supplies exhibition" were ranked the top 40 in 2017 World Trade Fair Top 100 list.



南光国际会议展览有限公司（南光会展）2008 年 7 月注册成立位于澳门，隶属于总部设立于澳门的中央企业——南光（集团）有限公司全资子公司南光文化创意产业有限公司。公司主要从事各类大型展览、会议、活动、赛事等的承办及运营；工程搭建、装潢设计及制作；投资管理产业园、物业、码头等；文化创意产业及会展产业相关延伸业务；海外项目投资并购；人员培训、技术服务、市场调查以及其他相关业务。在澳门特区政府和中央有关部门的大力支持下，南光会展成功打造了陆、海、空（即：汽车展、游艇展、公务航空展）三展联袂的“濠江盛汇”品牌，并荣获了国际展览业协会（简称“UFI”）认证，成为了港澳地区最具影响力的品牌展会之一。

Nam Kwong International Conference and Exhibition Co., Ltd (hereinafter "NKICE") is a wholly-owned subsidiary of Nam Kwong Culture and Creativity Industry Co., Ltd (NKCCI). NKICE specializes in areas such as international conferences and exhibitions, exhibition constructions, advertising design and production, investing culture and creativity industry park, property, wharf and etc., merging oversea projects, staff training, technical services and market survey. Under the strong support of the MSAR government and central government of China, NKICE successfully builds the brand of "China Macau Distinguished Gathering" (Macau Auto Show, Yacht Show and Aviation Show). The brand has obtained the certificate of Union of International Fairs (UFI), and has become the most influential exhibition brand in Hong Kong and Macao.

OCTOBER 25

Moderator: Ying ZHANG GWM R&D Center

8:30-9:00

WELCOME SPEECH

Lizhi ZHAO General Manager, China National Machinery Industry International Co.,Ltd.
Xiaodong SONG Assistant General Manager, Nam Kwong (Group) Company Limited
Billy XU General Manager, China, SAE International

9:00-9:45

OPENING SPEECH Trends in China's Automobile Market and Cause Analysis

Haidong XU Assistant Secretary-General, CAAM

GLOBAL AUTOMOTIVE REGULATIONS AND STANDARDS

9:45-10:30

Battery Systems in Powertrain During Electrification Transition

Robert Galyen Chairman of SAE International Battery Standards Steering Committee

10:30-11:15

Enabling The Technologies of Tomorrow from Creation to The Consumer

S. William Gouse

Director of Federal Programs, Global Ground Vehicle Standards, SAE International

Visiting The 9th China (Macau) International Automobile Exposition

LUNCH

TECHNOLOGY TRENDS OF ELECTRIFICATION AND AUTONOMOUS VEHICLE

13:30-14:15

Test and Evaluation of Autonomous Vehicles

Lu XIONG Professor, Tongji University

14:15-15:00

Intelligent Electric Drive System

Wei XIE Researcher, Quanzhou Institute of Equipment Manufacturing Haixi Institute, Chinese Academy of Sciences

15:00-15:30

TEA BREAK

15:30-16:15

Human Machine Cooperative Driving

Hui ZHANG Professor, Beihang University

16:15-17:00

Mobility Evolution – Reshaping The Automotive Industry

Boni SA Director of IHS Markit China Automotive Advisory Service, IHS Markit

10月25日

主持人：张瀛 长城汽车技术中心

8:30-9:00

欢迎致辞**赵立志** 中国机械国际合作股份有限公司 总经理**宋晓冬** 南光（集团）有限公司 助理总经理**徐秉良** SAE International 中国区总经理

9:00-9:45

开幕演讲 中国汽车市场发展趋势和原因分析**许海东** 中国汽车工业协会 秘书长助理**全球汽车法规标准**

9:45-10:30

电动化变革时期动力电池系统的发展**Robert Galyen** SAE International 电池标准指导委员会主席

10:30-11:15

从创造到最终用户落实，助力明日技术的发展**S. William Gouse** SAE International 全球车辆标准法规联邦政府项目总监**参观第9届中国（澳门）国际汽车博览会
午餐****电动化智能化汽车技术趋势**

13:30-14:15

自动驾驶汽车的测试与评价**熊璐** 同济大学 教授

14:15-15:00

智能电驱动系统**解伟** 中国科学院海西研究院 泉州装备制造研究所 研究员

15:00-15:30

茶歇

15:30-16:15

人机共驾技术**张辉** 北京航空航天大学 教授

16:15-17:00

变革中的出行方式——重塑汽车行业**萨博尼** IHS Markit 中国汽车咨询服务联合总监

许海东

中国汽车工业协会
秘书长助理

许海东，中国汽车工业协会秘书长助理兼贸易协调部主任，中国汽车工业协会新闻发言人。毕业于湖南大学机械系汽车专业，中国人民大学 MBA，教授级高级工程师。

在汽车行业市场预测和分析、企业海外发展战略、产业安全管理、汽车后市场管理等方面有深入的研究和独到的见解。

长期从事汽车行业的管理工作，有 30 多年的汽车行业从业经历，发表多篇文章，企业管理及安全驾驶培训上百场，著有《手段—管理的秘诀》一书。



Haidong XU

Assistant Secretary-General
CAAM

Mr. Xu Hai Dong is Assistant Secretary General of China Association of Automotive Manufacturers (CAAM) and Director of Trade Coordination Department. He is a spokesman for CAAM. He graduated from mechanical engineering department, Hunan University. He is Prof. degree Senior Engineer and he got the MBA from Renmin University of China.

Mr. Xu is engaged in the management of the automotive industry for a long time, with 30 years' automotive industry experience. He has held more than 100 training on enterprise management and safe driving. He is the author of "Strategic Management Style".

Mr. Xu is now engaged in industry of domestic and foreign trade industry coordinated management, safety management, market analysis and trade management, automobile aftermarket management etc.

Robert (Bob) L. Galyen

SAE 电池标准指导委员会
主席

现年 64 岁的 Robert (Bob) L. Galyen 是电池储能领域公认的世界顶尖专家。目前他是全球最大电池制造商 CATL 的首席技术官、SAE International 电池标准指导委员会和 NAATbatt International 协会的主席，在全球电池行业中占据独一无二的领导位置。他拥有多项专利和出版物，还是多个董事会和技术咨询委员会的成员。43 年来的国际工作经验使其具备独特的全球商业视角，是全球电池储能方面名副其实的思想领袖。



Robert (Bob) L. Galyen

Chairman
SAE International Battery Standards Steering Committee

Robert (Bob) L. Galyen, age 64, is recognized as one of the top executives in the battery energy storage world. His position as CTO of CATL, the world's largest battery manufacturer, Chairman of both SAE International Battery Standards Steering Committee and NAATbatt International, provides him a unique leadership role in the entire global battery industry. He has patents, publications and participates on multiple BOD's and TAB's. The 43 years' international work experience has given him a unique perspective on worldwide business, making him uniquely qualified as a global energy storage thought leader.

S. William Gouse

SAE International

全球车辆标准法规联邦政府项目总监

Bill Gouse 先生在 SAE 负责将有关安全、环境、网络安全、车辆数据、消费者保护和执法的标准纳入国际、联邦、州和地方法规。他曾先后供职于汽车设计和制造行业，交通协会，咨询公司以及大学讲师等岗位，在技术、政策和领导职位方面拥有超过 30 年的国内外经验。他发表了许多有关新兴车辆技术和政策的论文和同行评审文章，这些技术和政策与法规和合规性、排放、高速公路安全、通信、车辆数据、网络安全和控制系统有关。此外，比尔还拥有产品和工艺的多项专利。



S. William Gouse

Director of Federal Programs, Global Ground Vehicle Standards

SAE International

Bill's work with SAE focuses on the incorporation of standards in international, Federal, state and local regulations and legislation relating to safety, environment, cyber security, vehicle data, consumer protection, and enforcement. Bill has over thirty years of domestic and international experience in technical, policy, and leadership positions the vehicle design and manufacturing industry, at transportation associations, consulting, and as a university lecturer. He has published and presented numerous papers and peer-reviewed articles on emerging vehicle technologies and policy relating to regulations and compliance, emissions, highway safety, communication, vehicle data, cybersecurity, and control systems. Furthermore, Bill has several patents for both products and processes.

熊璐

同济大学教授

同济大学新能源汽车工程中心副主任

熊璐，工学博士、教授、博士生导师。现任同济大学新能源汽车工程中心副主任。

长期从事汽车底盘控制、分布式驱动电动汽车动力学控制、智能驾驶相关科研工作，主持和参与国家重点研发计划项目、国家自然科学基金项目、973 计划、863 计划和国家支撑计划等多项国家和省部级项目；发表 SCI/EI 论文 100 余篇，授权专利 40 余项，参撰英文著作 2 部；获上海市科技进步奖等多项省部级奖励。任《同济大学学报》编委和国内外多个期刊的评审专家，担任中国汽车工程学会汽车智能交通分会副秘书长、中国汽车工程学会青年委员会副主任委员、中国自动化学会车辆控制与智能化专委会委员。



Lu XIONG

Professor, Tongji University

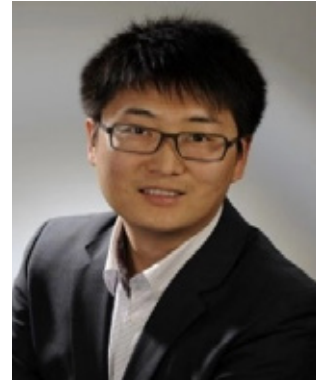
Deputy Director of School of Automobile Studies of Tongji University

Doctor of Engineering, a professor and doctoral supervisor, Xiong Lu is Deputy Director of School of Automobile Studies of Tongji University. He has been engaged in research work related to vehicle chassis control, distributed-driven EV dynamics control and intelligent driving for a long time. He has presided over and participated in many national and provincial projects including National Key Research and Development projects, National Natural Science Foundation of China (NSFC) projects, Project 973, Project 863 and National Support Projects. He has published more than 100 SCI/EI papers, authorized more than 40 patents, and participated in writing two English publications. He was granted multiple provincial and ministerial awards including Shanghai Science and Technology Progress Award. He is the editorial board member of Tongji University Journal and the review expert of many domestic and foreign periodicals. He is Deputy Secretary General of Automotive & Intelligent Transportation branch of SAE-China, Vice Chairman of Youth Committee of SAE-China and member of Vehicle Control and Intelligence Committee of Chinese Association of Automation.

解伟

中科院海西研究院泉州装备制造研究所
研究员、博导

解伟，中科院海西研究院泉州装备制造研究所研究员、博导。2015年于德国慕尼黑联邦国防军大学获博士学位。长期从事高效率、高精度、高可靠性的电机设计及其系统研究，曾任日立欧洲总部高级研发工程师、项目科长，负责德国奥迪“最新一代”插电式混合动力 Q5、纯电动 Q6、保时捷纯电动“J1”主驱动系统。2016年，获日立欧洲总部“突出贡献奖”。2017年，入选中科院海西研究院“引进高层次创新人才”、中科院“百人计划”青年俊才（C类）、福建省境外引进高层次人才 B类。出版个人英文专著 1部，发表创新学术论文 20余篇（SCI一区 8篇、全部 EI 收录）。



Wei XIE

Researcher / Doctorial Tutor

Quanzhou Institute of Equipment Manufacturing Haixi Institute, Chinese Academy of Sciences

Wei Xie is Researcher of Quanzhou Institute of Equipment Manufacturing Haixi Institutes, Chinese Academy of Sciences and doctorial tutor. In 2015, he obtained his Ph.D. from the University of Bundeswehr Munich. He has been engaged in the research of high-efficiency, high-precision and high-reliability motor design and system for a long time. He was senior R&D engineer/project manager at Hitachi European Headquarters, responsible for Germany's "the latest generation" PHEV Q5, BEV Q6, and Porsche BEV "J1" main drive system. In 2016, he was awarded "Outstanding Contribution Award" by Hitachi European Headquarters. In 2017, he was enrolled in the "Introduction of High-level Innovative Talents" plan of Haixi Institutes of Chinese Academy of Sciences, the Young Talents of the "100 Talents Project" of the Chinese Academy of Sciences (Class C), and the introduction of high-level talents (Class B) to Fujian Province. Wei Xie has published 1 monograph in English and more than 20 innovative academic papers (All were included in EI, 8 of which were included in SCI zone 1).

张辉

北京航空航天大学
教授

张辉，北京航空航天大学教授。主要研究方向为控制理论及应用，包括信息物理系统控制理论，汽车动力学控制，无人驾驶控制，智能医疗机器人控制。担任领域内权威期刊编委和副主编：IEEE Transactions on Vehicular Technology, Mechanical Systems and Signal Processing, ASME Journal of Dynamic Systems, Measurement and Control, SAE International Journal of Vehicle Dynamics, Stability, and NVH, SAE International Journal of Connected and Automated Vehicles. 获得 2017 IEEE Transactions on Fuzzy Systems Outstanding Paper Award, 2018 SAE Ralph R. Teetor Educational Award, 2019 IEEE VTS Best Vehicle Electronics Paper Award.



Hui ZHANG

Professor

Beihang University

Hui Zhang, professor of Beihang University, is dedicated to studying control theory and applications, including control theory of cyber-physical system, vehicle dynamics control, autonomous driving control and intelligent medical robot control. He also works as editorial board member and associate editor-in-chief of authoritative journal of the industry: IEEE Transactions on Vehicular Technology, Mechanical Systems and Signal Processing, ASME Journal of Dynamic Systems, Measurement and Control, SAE International Journal of Vehicle Dynamics, Stability, and NVH, SAE International Journal of Connected and Automated Vehicles. He got 2017 IEEE Transactions on Fuzzy Systems Outstanding Paper Award, 2018 SAE Ralph R. Teetor Educational Award, 2019 IEEE VTS Best Vehicle Electronics Paper Award.

萨博尼

IHS Markit

中国汽车咨询服务联合总监

萨博尼先生在 IHS Markit 担任中国汽车咨询服务联合总监，萨先生有着 10 年以上的汽车行业研究、预测和咨询服务经验。萨先生及其团队的服务内容涵盖汽车行业研究分析，战略规划，市场预测，动力系统新能源市场战略研究，海外市场进入，汽车先进技术研究，出行服务研究等行业重点发展方向。萨先生 2009 年加入 IHS Markit 前，他曾经在一家全球汽车零部件企业负责全球新能源战略规划。萨先生拥有北京航空航天大学汽车工程系工程学士学位。



Boni SA

Director for IHS Markit China Automotive Advisory Service

IHS Markit

Boni Sa serves as the director for IHS Markit China Automotive Advisory Service. Mr. Sa has more than 10 years' experience on the automotive industry consulting business. His expertise covers automotive industry analysis, strategy planning and forecast, powertrain and NEV market strategy, overseas market entry, automotive technology development, mobility service, etc. Mr. Sa joined IHS since 2009. He also worked for a global automotive supplier on global electrification strategy development. He has a bachelor degree from Beijing University of Aeronautics and Astronautics.

张瀛

主持人

长城汽车技术中心

智能驾驶系统开发部主管

张瀛，工学博士。长城汽车技术中心智能驾驶系统开发部主管。先后承担先行技术的研发及管理工作、国家智能汽车与智慧交通（京冀）示范区建设、车联网 V2X 技术研发等工作。目前主要负责推动长城汽车在车联网 V2X 技术及智慧交通领域项目的研发及应用落地。



Ying ZHANG Moderator

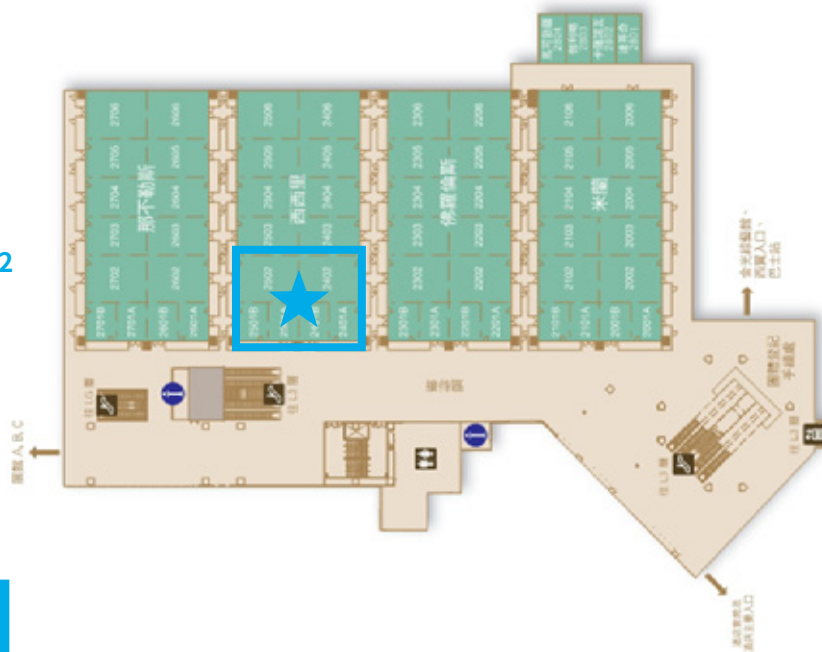
Head of Intelligent Driving System Development

GWM R&D Center

Ying Zhang, D.E. is head of intelligent driving system development at GWM R&D Center. He has been working in technical and managerial positions for the development of advanced technologies, engaged in the development of National Intelligent Vehicle and Transportation (Beijing and Hebei) Demonstration Zone, as well as various V2X technologies. He is working on the R&D and realization of V2X technologies and smart transportation applications at Great Wall Automobile.



★ **L1 西西里厅**
会议室 2401、2402、2501、2502
L1 SICILY
Meeting Room
2401, 2402, 2501, 2502



中国·澳门 - 澳门威尼斯人酒店
The Venetian Macao Resort Hotel



第 **9**th 屆 **中國(澳門) 國際汽車博覽會**
 CHINA (MACAU) INTERNATIONAL
 AUTOMOBILE EXPOSITION
2019

OCT 25 – 27

澳門威尼斯人金光會展中心
COTAI EXPO THE VENETIAN MACAU





北美

美国 宾夕法尼亚州 - 全球总部

400 Commonwealth Drive
Warrendale, PA 15096, USA
电话:+1.724.776.4841
传真:+1.724.776.0790

美国 密歇根州

755 West Big Beaver, Suite 1600
Troy, MI 48084, USA
电话:+1.248.273.2455
传真:+1.248.273.2494

美国 华盛顿哥伦比亚特区

1200 G Street, NW, Suite 800
Washington, DC 20005, USA
电话:+1.202.463.7318
传真:+1.202.463.7319

欧洲

比利时 布鲁塞尔

280 Boulevard du Souverain
1160 Brussels, Belgium
电话:+32.2.789.23.44
Email: info-sae-europe@associationhq.com

英国 伦敦 - SAE 航空航天标准

1 York Street, London
W1U 6PA, United Kingdom
电话:+44 (0) 207.034.1250
传真:+44 (0) 207.034.1257

亚洲

中国 上海

中国上海市虹口区四川北路1350号
利通广场2503室(200080)
电话:+86-21-6140-8900
传真:+86-21-6140-8901

全球官网:www.sae.org
中文网站:www.sae.org.cn
客服中心:customerservice@sae.org
中国办公室:chinaoffice@sae.org

NORTH AMERICA

Warrendale, PA, USA - Headquarters

400 Commonwealth Drive
Warrendale, PA 15096
p +1.724.776.4841
f +1.724.776.0790

Troy, MI, USA

755 West Big Beaver, Suite 1600
Troy, MI 48084
p +1.248.273.2455
f +1.248.273.2494

Washington, DC, USA

1200 G Street, NW, Suite 800
Washington, DC 20005
p +1.202.463.7318
f +1.202.463.7319

EUROPE

Brussels, Belgium

280 Boulevard du Souverain
1160 Brussels, Belgium
p +32.2.789.23.44
e info-sae-europe@associationhq.com

London, UK - SAE Aerospace Standards

1 York Street
London
W1U 6PA, United Kingdom
p +44.207.034.1250
f +44.207.034.1257

ASIA

Shanghai, PRC

Room 2503, 1350 North Sichuan Rd,
Hongkou District,
Shanghai, 20080, P.R. China
p +86.21.6140.8900
f +86.21.6140.8901