

**SAE 2018**

**新能源汽车国际论坛 (第六届)**

**NEW ENERGY VEHICLE FORUM**

**2018年 9月11-12日**

**上海颖奕皇冠假日酒店**

September 11-12, 2018

Crowne Plaza Shanghai Anting Golf, Shanghai, China



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Should a catastrophic event occur, attendees should follow the safety and security instructions issued by the facility at the time of the event. This includes listening for instructions provided through the public address system and following posted evacuation routes if required.

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**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.

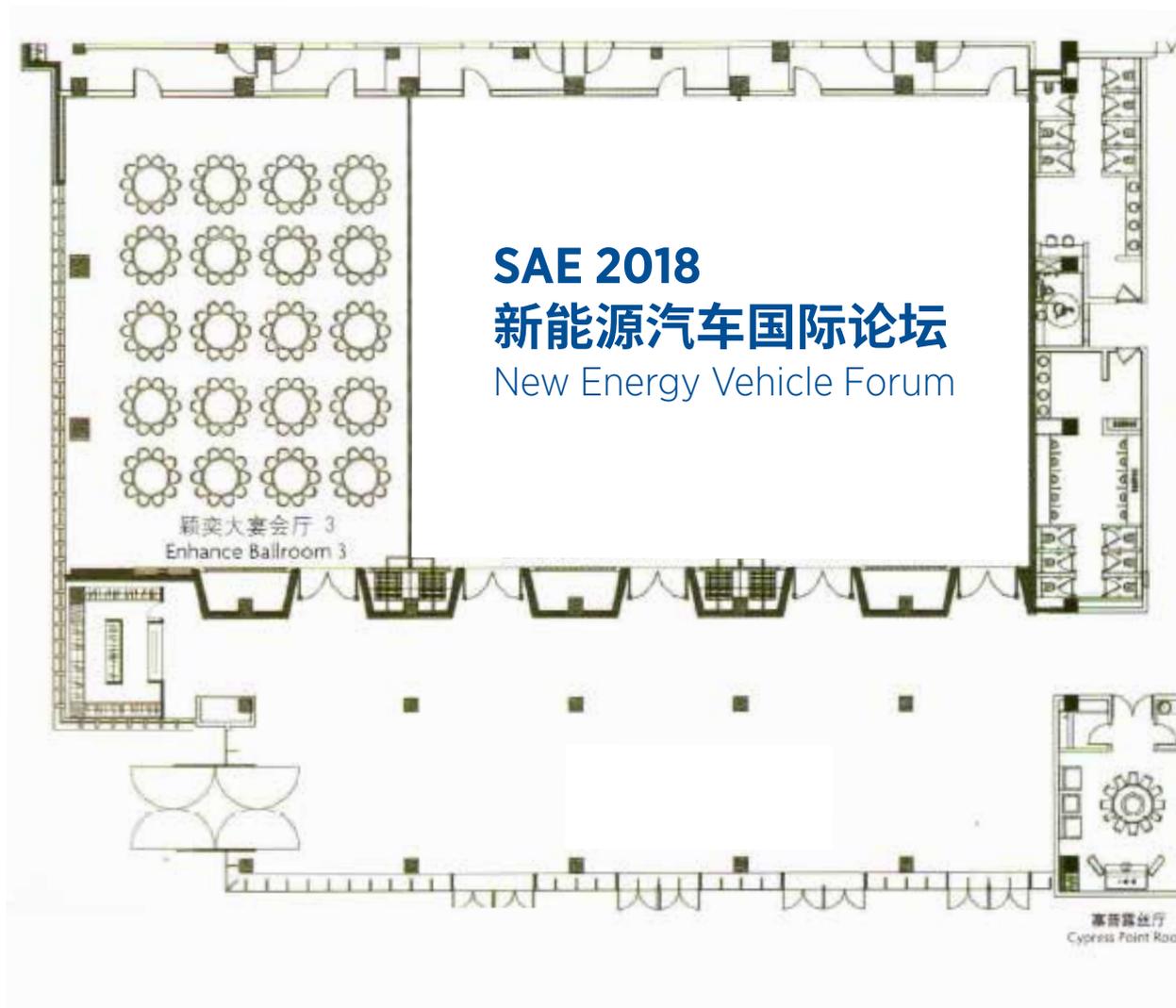
SAE International—whose first vice president was an up-and-coming engineering talent by the name of Henry Ford and included early supporters like Orville Wright—was based on providing a platform for collaborative and informed dialog and the impetus of its earliest standardization efforts. Today, the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

## 上海颖奕皇冠假日酒店 -1 楼大宴会厅 1、2

Enhance Ballroom 1&2, 1F - Crowne Plaza Shanghai Anting Golf

地址：上海市嘉定区安亭镇博园路 6555 号

Address: No.6555 BoYuan Road, JiaDing District, Shanghai, China



### STAFF TEAM 项目团队

**Sherry McCaskey**

Event Manager  
Sherry.Mccaskey@sae.org

**Rich Polinski**

Content Developer Specialist  
Richard.Polinski@sae.org

**Kristie Saber**

Content Administrator  
Kristie.Saber@sae.org

**Alan AO**

Manager, Events & Aerospace Standards, China  
Alan.Ao@sae.org

**Will CHANG**

Marketing Program Manager, China  
Will.Chang@sae.org

**Rick WANG**

Project Manager, China  
Rick.Wang@sae.org

**Jay JIANG**

Program Developer, China  
Jay.Jiang@sae.org

SEPTEMBER 11

9:00 **Welcome Speech**  
**Billy XU** General Manager, China - SAE International  
 Shanghai International Automobile City

KEYNOTE

9:20 **Using “Big Data” to Better Design an Electrified Vehicle**  
**Brett Hinds** Ford Motor Company  
**ABSTRACT**  
 Modern vehicles are equipped with embedded modems that broadcast vehicle operating parameters back to the OEM. The insight gleaned from this data have a significant potential to impact the design of future vehicles. MyFord Mobile and FordPass are 2 platforms used at Ford Motor Company to collect non-PII data from electrified and conventional vehicles respectively. This paper outlines how “Big Data” tools are used to analyze these large data sets. It also provide some analysis examples on how the data is used to better design the next generation electrified vehicle systems and components.

9:50 **The Policy Management Thinking & Industry Influence of China’s Dual-Credit Scheme**  
**Dr. Dongchang ZHAO** China Automotive Technology & Research Center  
**ABSTRACT**  
 By focusing on management thoughts and policy trends of dual award points for both fuel consumption and new energy, the report will analyze the impact of policy requirements on industrial development and further discuss development trend of energy-saving and new energy vehicles in future.

10:20 Tea Break

VEHICLE RESEARCH AND DEVELOPMENT

11:00 **Propulsion Technologies: “An Integrated Path Forward”**  
**Dr. Chengwu DUAN** General Motors

11:30 **Geely’s New Energy Strategy and Bo Rui GE Development**  
**Dr. Jianfeng ZHANG** GEELY New Energy R&D Institute  
**ABSTRACT**  
 Present “Blue Geely Initiative” and new energy development strategy. Geely will develop hybrid vehicles, pure electric vehicles, fuel cell vehicles and other save energy vehicles. Hybrid vehicles may meet ongoing customer needs because of battery limitation. Geely 7DCTH platform, integrated transmission and electric motor, power battery, integrated DC/DC and motor controller will also be introduced. 7DCTH is Geely newly developed P2.5 platform which has one motor and two clutches. A motor is mounted on the even axis. This system can drive the vehicle only by the motor, or only by the engine, or by both of them. 7DCTH platform is widely used in Geely automotive and over 10 vehicle models are under development. Bo Rui GE has started production this year. We develop HCU application software in-house based on AUTOSAR architecture and use model based development process. Through software platformization, standardization, and automation, we reduce software development cost.

LUNCH

SEPTEMBER 12

KEYNOTE

9:00	<p><b>EVs as a Driver of Grid Modernization and Sustainable Nuclear Power©</b>  <b>Paul Sheridan</b> DDM Consulting</p>
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BATTERY & ESS TECHNOLOGY

9:45	<p><b>The Application Trend of Thermal Interface Materials in EV Power System</b>  <b>Dr. Yuan ZHAO</b> Henkel Corporation</p> <p><b>ABSTRACT</b></p> <p>Lithium ion batteries are used a wide range of devices including smart phones, notebook computers, medical equipment, power tools, and electric vehicles, etc. As ever-increasing demand for higher power densities and larger capacities, the lithium ion batteries become more and more thermally limited. For example, these batteries need to acquire and release electricity at very high current levels, which inevitably generates excessive heat and drastically increase battery temperature. However, temperature limits for Lithium-ion batteries are quite narrow (typically 0 to 45 C). High temperatures (above 45 C) during charging process may lead to battery degradation or even premature failure. Therefore, controlling and regulating battery temperature is critical for normal operations of any devices powered by Lithium-ion batteries.</p> <p>This presentation will give an overview of Henkel’s thermal management materials for NEV batteries. Numerical studies will be presented to demonstrate thermal characteristics and performance advantages of the various concepts for Lithium-ion batteries.</p>
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10:15	Tea Break
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10:45	<p><b>New Application of Mission-Critical Sensing Technology on NEV Powertrain System</b>  <b>Kewin JIA</b> Sensata Technologies</p> <p><b>ABSTRACT</b></p> <p>New sensing solutions on New Energy Vehicle are required for NEV market development and technology upgrade in order to meet more critical requirements on Safety and Energy Efficiency. It is getting even more critical for NEV success to have innovative sensing technology and solutions on system level. From key system needs of Battery, E-motor and High Voltage Module, the technology development and new product application were shared about new sensing solutions on NEV powertrain system.</p>
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11:15	<p><b>Design and Test Challenges of EV/HEV</b>  <b>Chi CHEN</b> Keysight</p> <p><b>ABSTRACT</b></p> <p>With the rapid development of NEV industry all over the world, China also follows the global pace closely and sees significant development in lithium battery and power vehicle. As an excellent partner for global testing, Keysight offers various solutions for vehicle and new energy industries. Keysight will take this chance to highlight testing solutions for power vehicles, beginning with charging pile, on-board charging, BMS, battery performance and inverter performance.</p>
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LUNCH

## Kevin Tallio 博士

福特汽车  
电气化传动工程总工程师

Kevin Tallio 博士是福特亚太区电气化动力总成首席工程师。供职福特的 29 年间，他曾出任多个有关 R & A、发动机工程和电气化动力总成工程的技术和管理负责人。在他的整个职业生涯中，Tallio 博士一直以会议组织者、主席和作者等身份活跃于 SAE。Tallio 博士于 2014 年成为 SAE International 会士。



## Dr. Kevin Tallio

Chief Engineer for Electrified Powertrain Engineering  
Ford

Dr. Kevin Tallio is Chief Engineer for Electrified Powertrains, Ford Asia Pacific. He has worked in numerous technical and management leadership roles in R&A, Engine Engineering and Electrified Powertrain Engineering during his 29-year tenure at Ford. He has been active in SAE for his entire career as session organizer, chair and author. Dr. Tallio was inducted as an SAE Fellow in 2014.

## Paul Sheridan

DDM Consulting  
总裁

Paul Sheridan 在多家汽车 OEM 积累了丰富的成功经验，之后成立了一家专注于交通安全与效率的咨询公司。在克莱斯特道奇卡车部门任职的时候，Sheridan 曾领导过全球知名的获奖车型——道奇康明斯柴油皮卡的原型车研发，并负责该车型的工程项目的设计与管理。Sheridan 是 Lee A. Iacocca 主席奖的三名获奖者之一，也是史上唯一因交通安全方面的成就而荣获民事司法基金会国家冠军奖（Civil Justice Foundation National Champion's Award）的汽车专家。Sheridan 曾为交通安全领域的多项技术与法规进步做出贡献，下至地区与联邦法院，上至美国参议院、美洲最高法院、美国最高法院，都曾对他的杰出成就授予表彰。“毋庸置疑，安全是一项管理问题。”是 Sheridan 的名言之一。他拥有物理学、数学、计算机科学的学士学位、康奈尔大学的 MBA 硕士学位，其咨询业务主要专注于电动交通的安全与效率方面。Sheridan 认为由电动交通带来的巨大的环保效益也会推动能源结构朝着可靠、可预测、可持续的方向发展。身为前核电站员工，Sheridan 建议人们充分发挥电动交通、现代电网、以及第三和第四代核电所带来的可持续发展与环保价值。



## Paul Sheridan

President  
DDM Consulting

After a successful career with major automotive original equipment manufacturers, Paul Sheridan formed a consulting firm that specializes in transportation safety and efficiency. While a member of the Dodge Truck Division of Chrysler Corporation, Sheridan led the original prototype development of the world renowned Dodge-Cummins Diesel Pickup truck, and later designed and managed the engineering programs for that award-winning product. One of only three recipients of the Lee A. Iacocca Chairman's Award, Sheridan is the only person in history to win the Civil Justice Foundation National Champion's Award for his work in transportation safety. With a testimonial record that ranges from the local and federal courts, to the United States Senate, all the way to the highest court in America, the United States Supreme Court, Sheridan has been credited with numerous technological and regulatory advancements in safety under his adage, "First and foremost, safety is a management issue." With degrees in physics, mathematics, and computer science (BS), and a Master's degree in Business Administration (MBA) from Cornell University, Sheridan has concentrated consultation effort on the safety and efficiency benefits of electric mobility. Sheridan proposes that the enormous environmental protections offered by electric mobility will also drive energy sources that demonstrate reliability, predictability, and true sustainability. Formerly a nuclear reactor operator, Sheridan proposes that to maximize the true sustainability and genuine environmental protection offered by electric mobility, deployment of modern grid technologies, fortified by third and fourth generation nuclear power plant sources of electricity, will be required.