



安亭·上海国际汽车城

Anting • Shanghai International Automobile City

SAE 2017 NEW ENERGY VEHICLE FORUM 新能源汽车国际论坛（第五届）

September 12-13, 2017

Anting, Shanghai, China

www.sae.org/events/nev



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SCOPE

International expertise comes together at the SAE 2017 New Energy Vehicle Forum to provide information on technology and market development of electric vehicles and plug-in hybrids vehicles that represent the focus of this growing and important industry. The presentations will include technical issues, solutions and features related to the development of key vehicle systems and sub-systems.

HOSTED BY



SAE International is a global technical association of more than 145,000 engineers and related technical experts in the aerospace, automotive and commercial-vehicle industries. It was founded in 1905 with 30 engineers in New York and now spans more than 100 countries. SAE International is perhaps best known for its technical standards. More than 8,000 technical experts from around the world participate on 600 standards committees to develop a large base of standards and recommended practices that are used to support product design and development. Many government regulations and documents reference SAE International standards.

安亭·上海国际汽车城
Anting • Shanghai International Automobile City

In September 2001, the Shanghai Municipal Government took the decision to create the Shanghai International Automobile City (referred to as SIAC) in Anting town, Jiading district. The planned area covers 100 square kilometers and the investment is expected to reach 80 billion RMB. SIAC has functional areas such as automobile R&D, manufacturing, trade, cultural expo and education. The focus is on pillar automobile industries such as whole car manufacturing and vehicle parts and components. The emerging industries in SIAC include new energy vehicles R&D and manufacturing, automobile finance, and healthcare. Its vision is to create the future of mobility, build a livable city with a powerful innovative industry and automobile cultural and become the commanding heights of China auto industry. SIAC will have its place in the world.

SCHEDULE

SEPTEMBER 11 MONDAY

13:00 – 18:00

Registration

18:00 – 19:30

VIP Dinner

(By Invitation Only)

SEPTEMBER 12 TUESDAY

9:00 – 9:30

Welcome and Introductions

9:30 – 11:00

Market Analysis and Outlook

11:00 – 11:30

Tea Break

11:30 – 12:30

Panel Discussion

12:30 – 13:30

Lunch

13:30 – 15:30

Complete Vehicle Design

15:30 – 16:00

Tea Break

16:00 – 17:30

Complete Vehicle Design (Continued)

SEPTEMBER 13 WEDNESDAY

9:00 – 9:30

Keynote

9:30 – 11:00

Battery Technology and ESS

11:00 – 11:30

Tea Break

11:30 – 12:30

Battery Technology and ESS (Continued)

12:30 – 13:30

Lunch

13:30 – 15:00

Battery Technology and ESS (Continued)

15:00 – 15:30

Tea Break

15:30 – 17:00

Motor and Electronic Control Technology

IN CONJUNCTION WITH

SEPTEMBER 14-15

Fundamentals of Powertrain Design for Hybrid Electric Vehicles

INSTRUCTOR: Zhihui Duan

SEPTEMBER 14-15

Powertrain Product Development for Electrified Vehicles

INSTRUCTOR: Yiqing Yuan

SEPTEMBER 19-20

The Principles and Applications of Powertrain Controls for the New Energy Vehicles

INSTRUCTOR: Yunfei Luan

SEPTEMBER 19-20

Intelligent Vehicles: From Functional Framework to Vehicle Architecture

INSTRUCTOR: Chengliang Yin

SEPTEMBER 19-20

Critical Concepts of Tolerance Stacks Based on ASME Y14.5-2009

INSTRUCTOR: Ming Li

OCTOBER 26-27

Application Development of Electric Vehicles and Hybrid Electric Vehicles: Balancing Economic Objectives and Technical Requirements

INSTRUCTOR: Yuxiang Jiang

OCTOBER 26-27

Automotive NVH Analysis and Control

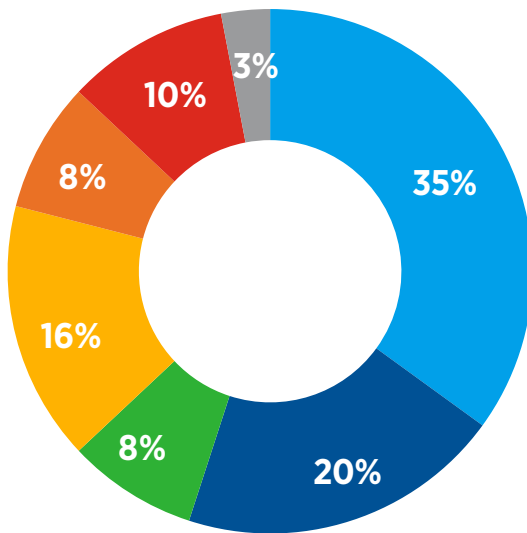
INSTRUCTOR: Jian Pang

WHO ATTENDED SAE 2016 NEW ENERGY VEHICLE FORUM?

LAST YEAR, THE NEW ENERGY VEHICLE FORUM ATTRACTS APPROXIMATE **400** PROFESSIONALS ATTENDEES CONSISTED OF:

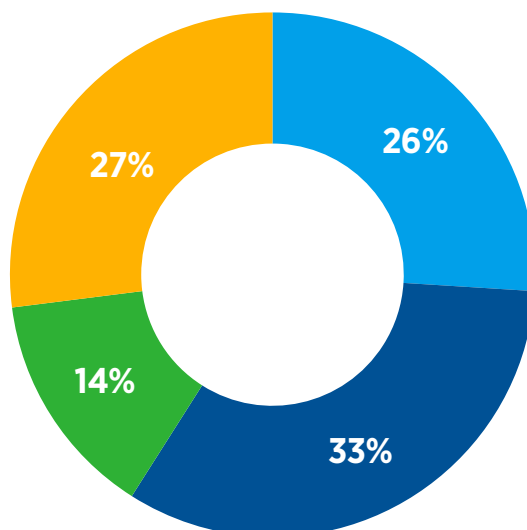
- CORPORATE EXECUTIVES
- ENGINEERS
- ENGINEERING MANAGEMENT (R&D/PRODUCT, SYSTEM DESIGN & DEVELOPMENT)
- ACADEMICS
- GOVERNMENT OFFICIALS
- CONSULTANTS

JOB CATEGORY



- Product Design & Development, R&D
- Corp.Executive
- Consultant
- Engineering Management
- Marketing & Sales
- Academia
- Others

INDUSTRY CATEGORY



- OEM - Ground Vehicle
- TIER 1 - Ground Vehicle
- TIER 2 - Ground Vehicle
- Others (Research, Equipment, Test, Software & Consultant)

WHAT COMPANIES ATTENDED SAE 2016 NEW ENERGY VEHICLE FORUM?

OEM

BAIC	DONGFENG	JAC	SINGULATO
Benz	DONGFENG HONDA	LeSEE	SUBARU
BMW	EVCAR	MAZDA	TOYOTA
BYD	FCA Group	NEXTEV	Volkswagen China
Changan	Ford	PATAC	VOLVO
Changan Ford	GEELY	PSA Group	XCMG Research Institute
Changan US Research and Development Center	GM	SAIC	YUTONG
Chery	Great Wall	SAIC	ZOTYE
Chery Jaguar Land Rover	HAITEC	SAIC GM	
	HYUNDAI	SAIC VOLKSWAGEN	

Tier Suppliers

Alliance 3D	Chroma	Inn-mag	Punch Powertrain
ANALOG DEVICES	DAJUN TECH	Inovance	ROGERS
AutoNavi	Delphi	JATCO	SAINT-GOBAIN
BAIDU	DENSO	Johnson Controls	SHAC
BAK	Dow Corning	Joyson	SIEMENS
BAOSTEEL	EAGTOP	LEONI	TDG-tech
Baumann	Exa	LG Electronics	TE Connectivity
BHP Billiton	GCL	Lite-On	Tristone Flowtech
BHTC	GLOBAL TECH	Manulism	UAES
BOSCH	GWINSTEK	Mentor	Vishay
Bosch HUAYU	HELLA	Mersen	WACKER
BrightKing	Henkel	NISSHIN	Willsemi
CATL	Heraeus Deutschland	NXP	YouYoung
CD-adapco	HHGrace	ParKins	ZHIDA TECH
China Dynamics	Honeywell	Plug Power	
CHOGORI	HUAWEI	Potevio	

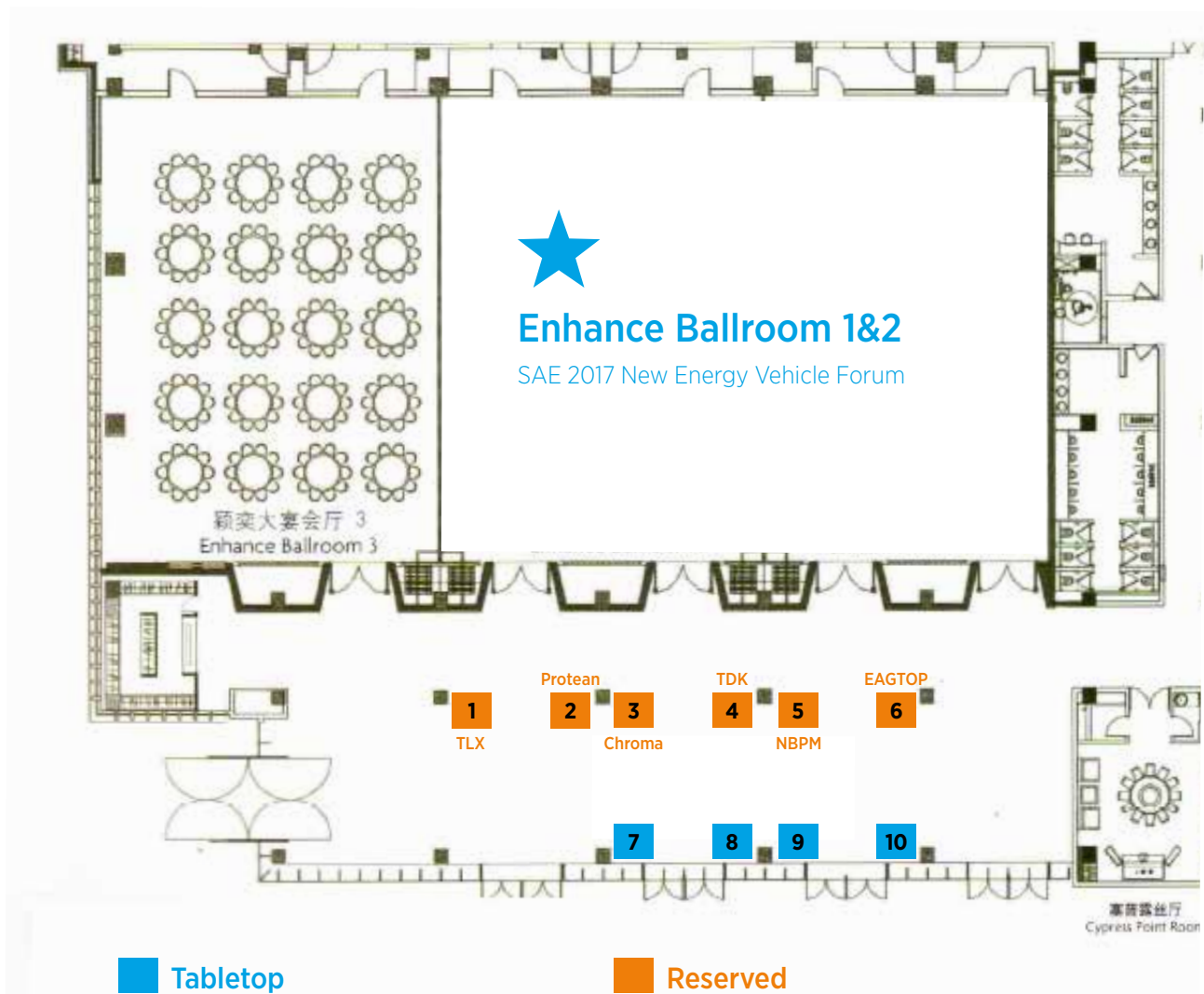
Equipment, Testing, Software, Consultant & Academia

Applus IDIADA	IHS	Northeastern University	Technology
AVL	Intertek	P3	Tianjin Economic- Technological Development Area
Bloomberg	Jiangsu University	PwC's Strategy&	Tongji University
BOCI	Jilin University	SGS	TÜV SÜD
CATARC	Keysight	Shanghai Electrical Apparatus Research Institute	University of Bath
China Academy of Machinery Science and Technology	Kolano and Saha Engineers	Shanghai Jiao Tong University	
CVC	Lux Research	Shanghai University Of Engineering Science	
DOPAG	Nanjing University of Aeronautics and Astronautics	shujubang	
East China University of Science and Technology	Navigant Research	South China University of	
IAV	North China University of Technology		

PREVIOUS SPONSORS & EXHIBITORS

ANWHA-AUTO	GROUP	CHOGORI	TRISTONE
IBM	Maxwell	DOW CORNING	PREH
KEMET	PEC	SIEMENS	WACKER
EAGTOP	BrightKing	Exa	
ALTRAN	DOPAG	ROGERS	

FLOOR PLAN



TECHNICAL PROGRAM

TUESDAY, SEPTEMBER 12

- 9:00 - 9:30 **Welcome and Introductions**
Billy XU, *General Manager, China - SAE International*
Chunrong SHAN, *General Manager - Shanghai International Automobile City Development & Services Co.,Ltd.*
- 9:30 - 11:00 **Keynote Speech - Market Analysis and Outlook**
Industry leaders will provide a market update and insight to future growth including regulation, policies, economic and technological advancements.
Ford Electrified Vehicles and Innovative Technology
Kevin Layden, *Senior Vice President - Ford Motor Company*
The Aspiring Future of Electrified and Connected Mobility in China
Marc-Fabio Wojis, *Senior Management Consultant - P3*
- 11:00 - 11:30 Tea Break
- 11:30 - 12:30 **Panel Discussion - Car Sharing and New Energy Vehicle Market Promotion**
Metropolitan residence now have a choice on how to get a ride. A simple button press on a smartphone can deliver a taxi to you almost anywhere. This session will allow you to ask the experts about vehicle sharing and where the industry is heading.
Moderator
Xiaoyuan WU, *Tongji University*
Panelists
Bo PENG, *Global Partner - PWC-Strategy&*
Tingting YUAN, *Vice President - Pand-Auto*
Chunhua HUANG, *CMO - EVCARD*
More Panelists will be announced
- 12:30 - 13:30 Lunch
- 13:30 - 15:30 **Complete Vehicle Design**
The development and design of complete new energy vehicles will face unique challenges from many aspects such as the lightweight design, the Electronic Instrument Cluster (EIC) System, Rechargeable Energy Storage System (RESS), Vehicle Control Unit (VCU) and complete vehicle energy management systems. Newly emerging technologies will be discussed.
Four Pillars of Electrification
Charon Morgan, *Director of Engineering - General Motors*
Overall Vehicle Design
Ming Kuang, *Technical Leader in Vehicle Controls at Research and Innovation Center - Ford Motor Company*
Non-Shielding Filter Technology for EV
Derek XU, *Director of The Greater China Market Design Department - TDK*
Jaguar & Land Rover (Invited)
NextEV (Invited)
- 15:30 - 16:00 Tea Break
- 16:00 - 17:30 **Complete Vehicle Design (Continued)**
Subject TBA
Siemens PLM
Subject TBA
Jean-noel GACEL, *Senior Resident Engineer - Arcelormittal*
Changan Auto (Invited)

WEDNESDAY, SEPTEMBER 13

9:00 - 9:30

Keynote Speech

GM Electrified Vehicles and Innovative Technology

Jennifer Goforth, *Chief Engineer - General Motors*

9:30 - 11:00

Battery Technology and ESS

Battery power is key to an electric vehicle. Vehicle mileage always remains the most important assessment indicator. This session will focus on energy density, safety, extension of life cycle and cost reduction.

Future EV Charging Trends

Christoph Tomoki Hein, *Manager of New Energy Vehicles Charging Systems - BMW Group*

PHEV/HEV Charging Technology - Challenge the Future Trend

Huibin LI, *Engineering Director - Delphi*

The Future of Urban Mobility is Connected, Autonomous, Electric & Wireless

Hongjun Yun, *Product Management Director - Qualcomm*

11:00 - 11:30

Tea Break

11:30 - 12:30

Battery Technology and ESS (Continued)

Subject TBA

Fang WANG, *Battery Chief Expert - CATARC*

Subject TBA

Keysight

Audi (Invited)

12:30 - 13:30

Lunch

13:30 - 15:00

Battery Technology and ESS (Continued)

The Development and Application of BMS Applicable for 48V Micromixing System

Michael Heinold, *Director of Global Hardware and Systems - Preh*

Electrification Strategies: Finding a Mass Market Solution

Liang CHENG, *Engineering Manager - JCI*

The Application Trend of Thermal Interface Materials in EV Power System

Weijun CHENG, *Thermal Technology Support Manager - Henkel Electronics.*

15:00 - 15:30

Tea Break

15:30 - 17:00

Motor and Electronic Control Technology

The advancements in motor and electronic control technology will be reviewed and discussed. Our experts will explore new directions in electronics and electric motor performance.

Suspension Optimization Technology for Wheel Hub Motor

Protean Electric

Inverter Testing/Technology

Horst Hammerer, *CEO - SET Power Systems GmbH, AVL*

Valeo (Invited)

Delphi (Invited)

REGISTRATION

Fee: CN¥ 3,000 (TWO DAYS)

All registration amenities include access to technical sessions, exhibit, tea break, lunch, reception, networking opportunities. Digital Presentations will be provided after the forum, which has been permitted by speakers.

If additional display space is needed, please inquire SAE directly.

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TO REGISTER ONLINE:

www.sae.org/events/nev



**Scan QR Code
& Register Now**

VENUE INFORMATION

Crowne Plaze Shanghai Anting Golf

Address: 6555 BoYuan Road, JiaDing District, Shanghai, China

Phone: +86-21-60568888

Information of Local Transportation

TRANSPORTATION	DISTANCE	TAXI FEE
To Shanghai Pudong Int'l Airport	around 75 km	around CNY 280.00
To Shanghai Hongqiao Int'l Airport & Railway Station	around 23 km	around CNY 80.00
To Shanghai Railway Station	around 28 km	around CNY 100.00



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