

# PF&L

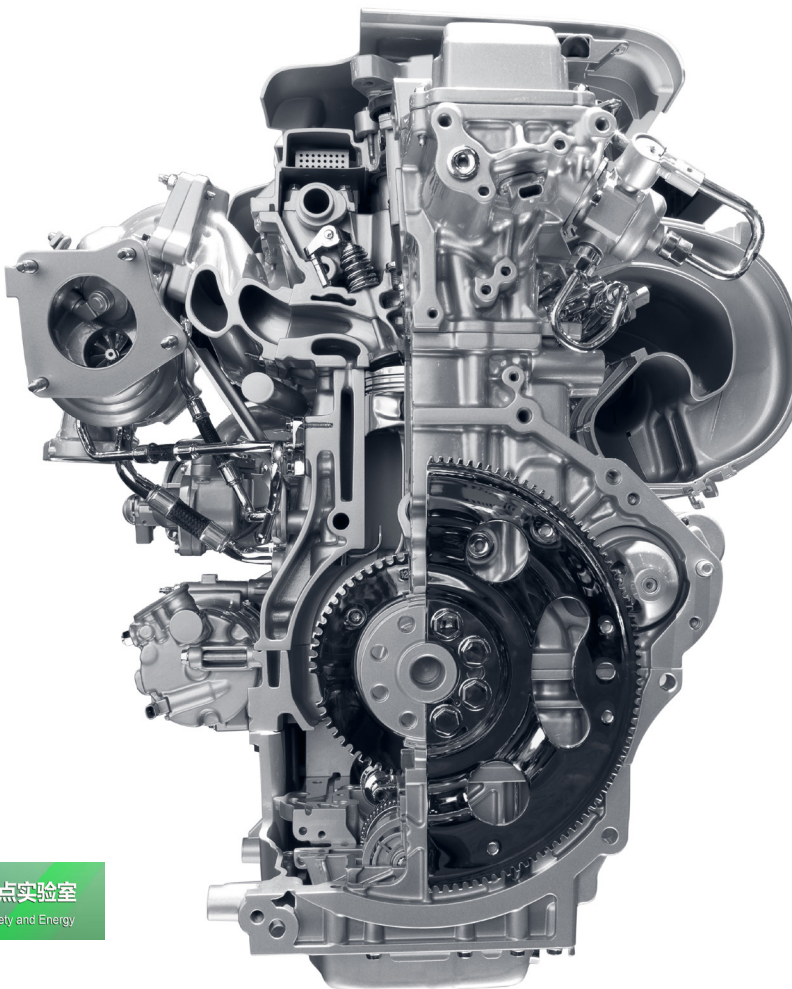
## INTERNATIONAL POWERTRAINS FUELS & LUBRICANTS MEETING

October 16-18, 2017 | Beijing, China

### CO-LOCATED SYMPOSIUM

#### **Clean Fuels for Future High Efficiency Engines Symposium**

Thursday October 19, 2017



### CO-HOST



**[sae.org/pfl](http://sae.org/pfl)**





“The Keynote Addresses and Executive Panel Discussion provided an unparalleled opportunity for attendees to hear firsthand from top corporate and government leaders where they see our industry headed. The value of these sessions with associated Q&As made this conference a must-attend for business insight far beyond that of a purely technical conference.”



# MAKE PLANS TO JOIN SAE INTERNATIONAL AND YOUR INDUSTRY PEERS IN BEIJING

The International Powertrains, Fuels and Lubricants Meeting is where the most highly regarded experts in engineering, science and supply will gather to update the industry on the latest progress and emerging technologies for powertrains, fuels and lubricants. Experience thought-provoking keynotes, a comprehensive range of technical sessions, a clean fuels workshop, and cultivate global connections with key industry professionals. Expand your experiences in the booming automotive hub of China.

## NETWORK WITH TOP COMPANIES

- Afton Chemical Corporation
- BAIC Motor
- BASF
- BP Castrol
- Chang'an Automotive
- Chevron
- Cummins Inc
- Delphi
- Dongfeng Motor
- FAW
- Ford Motor Company
- Geely
- General Motors LLC
- Honeywell
- Mazda Motor
- PetroChina
- Saudi Aramco
- Shell Technology Ltd
- Sinopec
- The Lubrizol Corporation
- WeiChai Power
- SAIC Motor
- and more

The International Powertrains, Fuels & Lubricants Meeting provides a valuable opportunity for business professionals, OEMs, researchers, engineers and others from around the world to hear and discuss new and emerging technologies that are being implemented to meet regulations by reducing emissions and boosting fuel economy, while delivering the best, overall powertrain performance.

## EXPAND YOUR REACH

Exhibit and Sponsorship opportunities are available that will provide your organization with cost-effective solutions to maximize your marketing dollars and exposure to this global, influential audience.

Don't miss your chance to have a prominent presence at International Powertrains, Fuels and Lubricants. Reserve your sponsorship or exhibit space today.

Megan McCoy, SAE International  
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## TECHNICAL SESSIONS

0-D and 1-D Modeling and Numerics  
Advanced Battery Technologies  
Advanced Fuel Cell Vehicle Applications  
Advanced Hybrid and Electric Vehicle Powertrains  
Alternative and Advanced Fuels  
CI and SI Power Cylinder Systems  
Cold Start and Transients  
Combustion Control and Optimization  
Combustion in Compression Ignition Engines  
Combustion in Gaseous Fueled Engines  
Combustion in Spark Ignition Engines  
Control System Design and Calibration  
Controls for Hybrids and Electric Powertrains  
Diagnostic Development  
Diesel Engine Lubricants  
Driveline Lubricants  
Dual Fuel Combustion  
Electric Motor and Power Electronics  
Emissions Control Modeling  
Emissions Measurement and Testing  
Engine Block, Cylinder Heads, Oil & Water Pumps, Intake & Exhaust Systems  
Engine Boosting Systems  
Exhaust Emissions Control Systems  
Exhaust Emissions Control: New Developments  
Fluid Flow Measurement and Analysis  
Fuel & Additive Effects on Engine Systems  
Fuel Injection and Sprays  
Gaseous Engine Emissions  
Gasoline Engine Lubricants  
High Efficiency IC Engine Concepts  
Holistic Session on Fuel Consumption and Fuel Economy  
Homogeneous Charge Compression Ignition, HCCI  
Multi-Dimensional Engine Modeling  
New CI and SI Engines and Components  
Partially Premixed Combustion, PPC  
Particle Emissions from Combustion Sources  
Powertrain NVH  
Powertrain Thermal Management: Combustion Chamber, Battery Cooling, and Engine Cooling  
Small Engine Technology  
Spark Assisted Compression Ignition, SACI  
Transmission & Driveline Technology  
Valvetrain (Including VVA)

To stay up-to-date on the current program, visit...

**sae.org/pfl**

## EVENT HIGHLIGHTS

### KEYNOTES- AT-A-GLANCE

#### Monday, October 16

**Research on Low Carbon Technologies of Heavy Duty Diesel Engines for Commercial Vehicles**

**Dr. Jun Li**

*Academician, China Academy of Engineering,  
President of China FAW Corporation Limited  
R&D Center*

#### Tuesday, October 17

**Powering Progress Together -  
Innovation through Collaboration**

**Dr. Steve Bryce**

*Vice President Fuels Technology, Shell*

#### Wednesday, October 18

**Future Cummins Powertrains and  
the Implications for Future Fuels and  
Lubrication Systems**

**Dr. Wayne Eckerle**

*VP Research & Technology, Cummins*

### NETWORKING EVENTS

**Sunday, October 15:**

18:30-19:30

**Networking Reception**

sponsored by  昆仑润滑油

**Monday, October 16:**

18:30-19:30


**Welcome Reception**

sponsored by 

**Tuesday, October 17:**

18:30-20:30

**Conference Dinner**

sponsored by 

**Wednesday, October 18:**

18:30-20:30

**Gala Dinner**

sponsored by 

# CO-LOCATION SYMPOSIUM

## Clean Fuels for Future High Efficiency Engines Symposium - Thursday October 19










Sponsored by:



08:30 - 08:45	<b>OPENING REMARKS</b> <b>Prof. Shijin SHUAI</b> State Key Laboratory of Automotive Safety and Energy, Tsinghua University
08:45 - 09:45	<b>CLEAN FUELS FOR FUTURE HIGH EFFICIENCY ENGINES SYMPOSIUM</b> <b>CHAIR: Prof. Shijin SHUAI</b> State Key Lab of Automotive Safety and Energy, Department of Automotive Engineering, Tsinghua University
08:45 - 09:15	<b>Overview of Global Transportation Fuel Supply</b> <b>Ahmad Al Khowaiter</b> Chief Technology Officer, Saudi Aramco
09:15 - 09:45	<b>Trend of Future Automotive Engine Technology</b> <b>Neville Jackson</b> Chief Technology & Innovation Officer, Ricardo
10:00 - 12:00	<b>POLICY PUSH VS CONSUMER PULL</b> <b>CHAIR: Thomas Wallner</b> Manager, Fuels, Engine and Aftertreatment Research at Argonne National Laboratory
10:00 - 10:30	<b>Outlook of Automotive Industry Development in China</b> <b>Chunsheng Ma</b> Deputy Director, Division of Automobile Industry, Ministry of Industry and Information Technology of the P.R. China
10:30 - 11:00	<b>Strategies to Address CAFC, NEV, and CO2 in China Auto Industry</b> <b>Prof. Fuquan (Frank) Zhao</b> Director of Tsinghua Automotive Strategy Research Institute , Tsinghua University
11:00 - 11:30	<b>Market Penetration Study for High Efficient Vehicles</b> <b>Zhenhong Lin</b> Senior Researcher, Oak Ridge National Laboratory
11:30 - 12:00	<b>Drivers of Demand for Fuel-Efficient Vehicles: Findings from KAPSARC's Quantitative Analysis of Consumer Behaviors</b> <b>Rubal Dua</b> Senior Research Associate, The King Abdullah Petroleum Studies and Research Center
13:30 - 15:30	<b>FUTURE FUELS ENABLERS</b> <b>CHAIR: Steve Przesmitzki</b> Global Team Leader, Saudi Aramco R&DC Strategic Transport Analysis
13:30 - 14:00	<b>Current Situation, Future Development and Countermeasures of Automotive Fuel Cleaning in China</b> <b>Xianghong CAO</b> Academician, China Petroleum & Chemical Corporation
14:00 - 14:30	<b>Fuel Requirements of Future Engines</b> <b>Gautam Kalghatgi</b> Principal Professional, R&DC, Saudi Aramco
14:30 - 15:00	<b>Development of Lubricant and Fuel Additives</b> <b>Joseph W. Roos</b> Afton Chemical Corporation
15:00 - 15:30	<b>Trends of Transport Fuels</b> <b>Roger Cracknell</b> Shell Global Solutions (UK)
15:45 - 17:45	<b>PROSPECTS FOR ADVANCE ICES</b> <b>Prof. Hongming XU</b> Birmingham Univ.
15:45 - 16:15	<b>Future Engine and Technologies</b> <b>Toshihide Yamamoto</b> General Research Manager, Mazda Motor Corp.
16:15 - 16:45	<b>Potential of Combustion Engine Efficiency</b> <b>Prof. Bengt Johansson</b> Professor, King Abdullah University of Science & Technology
16:45 - 17:15	<b>Direction of Powertrain Technology for Passenger Cars</b> <b>Yuan SHEN</b> Chief Engineer, Geely Group
17:15 - 17:45	<b>Technology Roadmap of Heavy-Duty Vehicle Engines</b> <b>Dr. Dehui TONG</b> Vice president, Weichai Power
17:45 - 18:00	<b>WRAP-UP AND CLOSING REMARKS</b>
17:45-18:00	<b>Enabling a Sustainable Mobility Solution</b> <b>Amer Amer</b> Fuel Technology Chief Technologist, R&DC, Saudi Aramco
18:00 - 20:00	<b>NETWORKING RECEPTION</b>

Separate Registration is required

## EVENT-AT-GLANCE

October 15 <b>SUNDAY</b>	October 16 <b>MONDAY</b>	October 17 <b>TUESDAY</b>	October 18 <b>WEDNESDAY</b>	CO-LOCATION SYMPOSIUM October 19 <b>THURSDAY</b>
<b>14:00 – 20:00</b> Registration	<b>08:00 – 17:00</b> Registration	<b>08:00 – 17:00</b> Registration	<b>08:00 – 17:00</b> Registration	<b>08:00 – 12:00</b> Registration
<b>18:30 – 19:30</b> <b>Networking Reception</b> – Sponsored by PetroChina  <b>昆仑润滑油</b>	<b>08:30 – 10:00</b> <b>Welcome, Opening Ceremonies and Keynote - Jun Li, FAW</b> – Sponsored by SGS 	<b>08:30 – 09:30</b> <b>Keynote - Steve Bryce, Shell</b>	<b>08:30 – 09:30</b> <b>Keynote - Wayne Eckerle, Cummins</b>	<b>08:30 – 08:45</b> <b>Opening Remarks</b>
	<b>10:00 – 10:30</b> <b>Networking Break</b>	<b>09:30 – 10:00</b> <b>Networking Break</b>	<b>09:30 – 10:00</b> <b>Networking Break</b>	<b>08:45 – 09:45</b> <b>Keynote Speeches</b>
	<b>10:30 – 12:30</b> <b>Technical Session</b>	<b>10:00 – 12:30</b> <b>Technical Session</b>	<b>10:00 – 12:30</b> <b>Technical Session</b>	<b>10:00 – 12:00</b> <b>Technical Session</b>
	<b>12:30 – 14:00</b> <b>Networking Lunch</b>	<b>12:30 – 14:00</b> <b>Networking Lunch</b>	<b>12:30 – 13:30</b> <b>Networking Lunch</b> – Sponsored by Chevron  	<b>12:00 – 13:30</b> <b>Networking Lunch</b>
	<b>14:00 – 16:00</b> <b>Technical Sessions</b>	<b>14:00 – 16:00</b> <b>Technical Sessions</b>	<b>13:30 – 15:00</b> <b>Technical Sessions</b>	<b>13:30 – 15:30</b> <b>Technical Session</b>
	<b>16:00 – 16:30</b> <b>Networking Break</b>	<b>16:00 – 16:30</b> <b>Networking Break</b>	<b>15:00 – 18:30</b> <b>Meeting China 6 Light-Duty PN Regulation</b> – Sponsored by Corning Inc. 	<b>15:30 – 15:45</b> <b>Networking Break</b>
	<b>16:30 – 18:30</b> <b>Technical Session</b>	<b>16:30 – 18:30</b> <b>Technical Session</b>	<b>18:30 – 20:30</b> <b>Gala Dinner</b> – Sponsored by Afton Chemical 	<b>17:45 – 18:00</b> <b>Wrap-up and Closing Remarks</b>
	<b>18:30 – 19:30</b> <b>Welcome Reception</b> – Sponsored by Lubrizol Corporation 	<b>18:30 – 20:30</b> <b>Conference Dinner</b> – Sponsored by Shell 		<b>18:00 – 20:00</b> <b>Networking Reception</b> – Sponsored by Saudi Aramco 
				<b>Separate Registration is required</b>

### EXHIBIT HOURS

Monday 08:00 – 19:30  
Tuesday 08:00 – 16:30  
Wednesday 08:00 – 15:30

### REGISTRATION HOURS

Sunday 14:00 – 20:00  
Monday 08:00 – 17:00  
Tuesday 08:00 – 17:00  
Wednesday 08:00 – 17:00  
Thursday 08:00 – 12:00

### VENUE INFORMATION

#### CHINA NATIONAL CONVENTION CENTER

South, 3rd Floor

Address: No.7 Tianchen East Road, Chaoyang District, Beijing 100105 China

## FOR INFORMATION, CONTACT:

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**Register now at [sae.org/pfl](http://sae.org/pfl)**