**April 8**  
**SUNDAY**

**FUTURE REGULATIONS AND REGULATORY ACTIVITY**

1 p.m.  
Moderator Overview  
Zoran Filipi

1:15 p.m.  
Assessing the Efficiency and Low-Emissions Potential of Future Gasoline Engines  
Daniel Barba, EPA

1:55 p.m.  
Co-Optima Initiative’s Approach to Multi-Mode Combustion Strategies  
Jim Szybist, Oak Ridge National Lab

2:35 p.m.  
What’s the Role of the ICE Going Forward?  
Greg Pannone, Novation Analytics

3:15 p.m. Break

**ADVANCED GASOLINE COMBUSTION STRATEGIES**

3:45 p.m.  
Development of High Efficiency Jet Ignition Engines for Multiple End-Use Applications  
Mike Bunce, Mahle

4:25 p.m.  
Future Internal Combustion Engines for Efficient Contribution to Environment  
Toshihide Yamamoto, Mazda

5:05 p.m.  
Prerequisites for a Successful Spark Assisted Compression ignition (SACI)  
Andreas Kaechele, University of Stuttgart

5:45 p.m.  
Introduction of World First Mass Production Variable Compression Ratio Engine “VC-TURBO”  
Shinichi Kiga, Nissan

6:30-7:30 p.m. Reception

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**April 9**  
**MONDAY**

**ADVANCED LIGHT-DUTY CONCEPTS**

8 a.m.  
High Efficiency Engine Requirements for Future Electrified Powertrain Architectures  
Eric Curtis, Ford

8:40 a.m.  
A Pragmatic Approach to Maximizing Internal Combustion Emissions Efficiency  
Russell Durrett, GM R&D

9:20 a.m.  
Development of High Efficiency Gasoline Engine with Thermal Efficiency over 43%  
Youngnam Kim, Hyundai

10 a.m. Break

**ADVANCED HEAVY-DUTY CONCEPTS**

10:30 a.m.  
Heavy Duty Engine Efficiency Potential and the Impact of Emissions Regulation  
Charlie Roberts, Southwest Research Institute

11:10 a.m.  
High Efficiency Engines for Long Haul Trucks  
Arne Andersson, Volvo Trucks

11:50 a.m.  
Supercritical CO2: A New Opportunity for High Performance Waste Heat Recovery  
Tom Briggs, Southwest Research Institute

12:30 p.m. Lunch

**OUTLOOK, IC ENGINE AND POWERTRAIN SYSTEMS**

1:30 p.m.  
Paul Miles, Sandia

2:10 p.m.  
The Direction of Powertrain Development Toward the Electric Mobility Era  
Terutoshi Tomoda, Toyota

2:50 p.m.  
Honda Powertrain Strategy and Future ICE Technology  
Tomonori Niizato, Honda

3:30 p.m. Break

**NEW ICE CONCEPTS**

3:50 p.m.  
Engine and Powertrain Efficiency to Meet Standards in the US, China, and Europe from 2020 to 2030  
Chris Thomas, GAST Strategy Consulting LLC

4:30 p.m.  
Lubricants – Enabling Future Powertrain Technologies and Enhancing Efficiency  
Alex Michibberger, Lubrizol

5:10 p.m.  
Energy in the Air - Using V2X Information for Real-time Vehicle Powertrain Control and Optimization  
Scott Hotz, Southwest Research Institute; Anna Stefanopoulou, University of Michigan

5:30 p.m.  
Using Connectivity and Automation to Improve Heavy-Duty Truck Fuel Economy  
Greg Shaver, Purdue University; Ed Hodzen, Cummins

6 p.m. Symposium Concludes