Day 1 Program Agenda - March 6, 2019

7:30 a.m.  Registration and Continental Breakfast

8:45 a.m.  Welcome and Introductory Remarks
Dr. Joel Kopinsky, Managing Director
The ITB Group (U.S.A.)

9:00 a.m.  An Industry in Transition - A Live Survey

9:10 a.m.  Advancements in Fluoropolymer Materials for Multi-Layer Tube Technology
Product & Development Engineer and R&D Engineer
AGC Chemicals Americas (U.S.A.)
FEPM fluoroelastomers are shown to withstand service temperatures up to 200°C and to have excellent acid, base, amine, and steam resistance. New FEPM material technology will be discussed whereby it can be laminated to dissimilar elastomers to achieve a peel strength in excess of 7 N/in at elevated operating temperatures.

9:30 a.m.  New RILPERM®5340 Fuel Line for Low Washout Applications
Senior Account Manager
Arkema (U.S.A.)
A new 5-layer fuel line construction that meets Volkswagen’s TL 52712 specification is described. The construction includes bio-based PA 11 and a new tie-layer technology offering cost reduction with no performance compromise. Low wash-out and excellent cold impact are additional features.

9:50 a.m.  Networking Break

10:30 a.m.  KEYNOTE PRESENTATION
Driving the Future
President and CEO
Kautex Textron (Germany)

11:00 a.m.  Latest Fuel System for New RAV4
Assistant Manager
Toyota Motor Corporation (Japan) and Assistant Manager
FTS (Japan)
Based on TNGA (Toyota New Global Architecture), the latest fuel system for the new RAV4 was developed. This contributed to the vehicle concept, environmental performance, and enabled flexible global production.

11:30 a.m.  The Science of Influence and Persuasion - Utilizing Hard Science for Soft Skills
Chief Content Officer
Coursera (U.S.A.)

12:00 p.m.  Lunch

1:15 p.m.  The Science of Influence and Persuasion - continued

1:45 p.m.  Pressurized Tank Systems as the Ideal Solution for the Recent Trend Towards HEV and PHEVs
NAO Research Manager
Plastic Omnium (U.S.A. and Belgium)
Pressurized fuel tank systems do not require a regular charcoal canister purge, and therefore are a key contributor to vehicle CO₂ emission reduction since the ICE does not need to operate so as to enable the canister to meet diurnal emission targets. INWIN combines the best of lightweight low permeation fuel systems with modularity between pressurized and conventional...
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fuel tank systems. TANKTRONIC® adds intelligence and makes the fuel system fit for the future.

2:15 p.m. Volume Efficiency Though New Materials
Director Research
Kautex Textron (Germany)
Accommodating batteries, electronics, and safety systems are key factors driving improved volume efficiency and pressure resistance of fuel tank systems, especially for PHEVs. Deformation of the tank wall can be minimized by applying a high flexural modulus fiber reinforced sandwich structure with a resultant increase in usable tank volume.

2:45 p.m. Networking Break

3:15 p.m. EVAP Product Concepts for Future Emissions Control
Engineering Team Lead
Continental Powertrain North America (Canada)
The push to improve vehicle efficiency is creating new challenges for the EVAP systems on gasoline fueled vehicles. Initial solutions for some of these EVAP-related technologies have opportunities for improving performance, ease of use and cost.

3:45 p.m. Next Gen Brushless Fuel Pumps
Fuel Pump Engineer
Delphi Technologies (U.S.A.)
The drive to improve vehicle fuel economy and reduce emissions has increased the demand for brushless fuel pumps. Delphi’s initial brushless pump was optimized to meet European targets for diesel applications. Initial design concepts have been expanded to gasoline applications, low profile tanks, higher efficiency, and lower cost targets.

4:15 p.m. Capless Design Solutions for Global Applications
Global Director, Fuel Delivery
Stant (U.S.A.)
As emission requirements become more stringent, OEMs are migrating from fuel caps to capless solutions. A presentation will be offered that provides an overview of capless technology, integration considerations, and performance advantages of the latest capless designs.

4:45 p.m. Cocktail Reception and Networking

Organization is underway for
ITB’s annual Automotive Fuel Systems China 2019 Conference

Date: October 30 and 31, 2019
Venue: Marriott Shanghai Parkview. 333 Guanzhong Road (West), Jing’an District, Shanghai China

Participation details on-line at www.itbgroup.com or contact Bryan Eldredge, Program Manager at +1 (248) 380-6310 or beldredge@itbgroup.com
7:30 a.m. Registration and Continental Breakfast

8:45 a.m. Welcome and Introductory Remarks
Dr. Joel Kopinsky, Managing Director
The ITB Group (U.S.A.)

9:00 a.m. Proven LUPOLEN® Resins for Innovative Devices Lowering Automotive Polluting Emissions
Application Development Manager
LyondellBasell (Germany)
Water injection may help improve gasoline engine performance including combustion efficiency. Many design parameters can be applied to onboard water storage systems from SCR systems. However, bio-contamination is a new challenge not found with fuel and aqueous urea systems.

9:30 a.m. Additive Tanks with New Design Features Will Play a Key Role in Achieving Future Emission Standards
Head of Innovation & Business Development
Röchling Automotive (U.S.A.)
The use of additive tanks for both diesel and gasoline vehicles will be described. Suitable additives help achieve future emission targets. Improved design features and related technologies will be introduced together with the required competences for fulfilling these improved approaches.

10:00 a.m. Networking Break

10:30 a.m. How Pressure Sensors Enable Emission Reduction on ZEV's, Today and Tomorrow
Business Development Manager
First Sensor Mobility (Germany)
Clean air legislation is the driver behind interest in PHEVs, diesel with SCR, gasoline with water injection, hydrogen, natural gas and fully electric vehicles. For most of these applications the use of pressure sensors is not only likely, but necessary.

10:50 a.m. DOE's Co-Optima Initiative: Advanced Compression Ignition Strategies and Goal
Senior Fuels Chemist
National Renewable Energy Laboratory (U.S.A.)
An overview of the on-going strategy to develop novel blendstocks to enable efficiency gains in the medium- and heavy-duty engine arena will be provided. The discussion will cover the most promising potential blendstocks and how these in combination with diesel will enable improved combustion.

11:10 a.m. NVH Analysis for Fuel Systems
Engineering Supervisor and Product Release Engineer
Delphi Technologies (U.S.A.)
The ability to accurately measure and isolate vibration/noise levels at fuel delivery module, tank, and vehicle levels is a key skill-set to

EXHIBITORS TO-DATE:
AGC Chemicals
Alfmeier Friedrichs & Rath
Arkema
Delphi Technologies
Eaton
Evonik
Fraenkische
First-Sensor Mobility
GTR TEC
GVS Filtration
have in the development of new fuel systems. Software, hardware and special set-ups are needed to define the propagation sources for vibration and airborne noise.

11:40 a.m. Plastic Fuel Tank Design Optimization using BlowView Software
Research Officer
National Research Council Canada
The latest developments of BlowDesign software for improving the fuel tank extrusion blow molding process will be described. The optimization scheme considers two key steps: die shaping and processing conditions. Barrier layer thickness optimization is performed so as to minimize fuel permeation.

12:10 p.m. Quality Testing Costs, but Ineffective Testing Costs More!
North American Sales Director
Vacuum Engineering (U.S.A.)
Scandals have literally re-shaped the automotive industry overnight such that customer trust is critical. Helium, while undeniably expensive, is generally accepted as the most reliable and accurate form of leak testing. The testing can be efficient, and test quality and repeatability match production throughput.

12:30 p.m. Lunch

1:30 p.m. Lessons Learned - OEM Expert Panel
Zen Fuel LLC (Retired Ford)
Harley-Davidson (Retired FCA)
Vehicle Fuel System Specialists LLC (Retired General Motors)

2:00 p.m. Kautex eVent: The Smart Tank
Manager of Electronic Research
Kautex Textron (Germany)
Software utilization is representing an increasing part of the automobile development value chain. Fuel tank systems are no exception. Development of an electronically controlled fuel tank in which all venting paths are controlled by a single smart valve has been started by Kautex Textron together with Alfmeier.

2:30 p.m. New Immobilized Media Technology
Business Development Manager
Arkema (U.S.A.)
Immobilizing adsorbents, such as activated carbon, allows fuel adsorption capacity to be tuned, pressure drop to be reduced and enables simplified canisters. An efficient binder without compromising adsorptivity, KYBLOCK®, has been developed that is easy to handle and generates low fine dust.

3:00 p.m. Closing Remarks
A.Raymond / Rayconnect Inc.

Many automotive and truck customers prefer to use ARaymond™ Quick Connectors from Rayconnect because they answer their needs: ease of operation, locking safety, traceability, range diversity and integrated functions (valves, sensors, regulators). Our connectors are found in many types of fluid systems: fuel, fuel vapor, SCR, HVAC, engine cooling, battery cooling, oil cooling, power steering, brake vacuum and many other fluid applications.

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Arkema

Arkema is a leading material supplier to the automotive market. The Technical Polymers group is constantly advancing in extrusion and injection molding thermoplastic materials for fluid transfer in under-the-hood and fuel system applications. Our solutions feature an outstanding balance between performance, cost and secure supply, always anticipating the new trends and constraints of the automotive market.

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Fraenkische USA, LP

Celebrating over 110 years in operation, Fraenkische has been the industry leader in the design and development of plastic tubing solutions. Fraenkische invented the corrugated tubing process in 1959, and we are still leading the way in cutting edge solutions for the ever changing marketplace. We strive to develop tailored solutions to suit the individual needs of our customers.

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Kautex Textron

Kautex, a subsidiary of Textron Inc., is rated among the Top 100 Automotive Suppliers worldwide. The company is a leading global supplier of hybrid and conventional plastic fuel tank systems, selective catalytic reduction systems (SCR) and clear vision systems and sensors. In addition, the company produces and supplies camshafts, castings and industrial packaging. Headquartered in Bonn, Germany, the company owns and operates more than 30 facilities in 14 countries worldwide.

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Kuraray

Kuraray, established in 1926 in Japan, has since evolved into a global specialty chemical producer supplying resins, chemicals and synthetic fibers to the automotive, consumer, industrial and medical markets. EVAL™ brand EVOH, characterized by its outstanding gas and fuel barrier properties and Genestar, a high barrier, heat resistant polyamide resin (PA9T), are particularly suited for fuel delivery and component applications.

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Plastic Omnium
Plastic Omnium is the worldwide leader in Intelligent Exterior Systems, Clean Energy Systems and Modules. Through its CES division it offers solutions for all types of propulsion. Its selective catalytic reduction solution for diesel pollution complies with the most stringent diesel regulations whereas for gasoline vehicles, its water injection system optimizes consumption and emissions. The division is also focusing on tomorrow’s challenges by developing a complete hydrogen fuel cell system from storage to onboard electricity generation and system management.

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Polyplastics USA
Polyplastics is a global leader in the development and production of engineering thermoplastics solutions – with a focus on POM, PPS, PBT and COC products. With more than 50 years of experience, our technical experts enhance manufacturing and product performance backed by a strong global network of R&D, production and sales resources. Polyplastics is able to create advanced solutions and expand customer value in a technically evolving market.

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Stant
Stant is a global leader in the design, development and manufacture of technology-driven fuel closure, liquid transfer, and vapor management sub-systems and products for the automotive OEM and industrial markets. Stant’s global footprint and technical expertise enables us to provide innovative solutions that exceed customers’ expectations and needs. Operational excellence provides our customers with reliable and cost competitive solutions.

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TI Automotive
Global automotive manufacturers turn to TI Automotive to develop and produce award-winning, industry-leading automotive fluid systems. For nearly 100 years, TI Automotive has provided its technology to vehicles around the world. With more than 118 manufacturing locations in 28 countries, our strength lies in our ability to creatively meet the ever-changing needs of the global automotive industry.

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The ITB Group
The ITB Group was established in 1992 with a simple premise: to bridge the gap between developing a suitable technology platform and building a successful business. We are a highly specialized consulting firm with sub-specializations in acoustics, fuel systems, exhaust systems, plastic engine parts, interior/exterior systems and thermal management from a component and modular perspective.

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Conference Schedule

Plan now to participate in ITB’s upcoming automotive events. Opportunities to present, sponsor and/or exhibit are available.

- **Smart Automotive Surfaces 2019** - October 9 and 10, 2019. Livonia, Michigan, U.S.A.

For more information, please contact Bryan Eldredge, Program Manager at: beldredge@itbgroup.com or (1) 248-380-6310.