

WCX™ Technical Session Matrix

as of 1/5/2018
Subject to Change

C O L O R	Automotive Body/Chassis/ Safety/Structure	Propulsion/ Powertrain	Materials	Emissions/ Environment/ Sustainability	Automotive Electronics	Integrated Design & Manufacturing
	Other	Connect2Car @ WCX				

Tuesday, April 10		Wednesday, April 11		Thursday, April 12	
9:00 a.m. - 12:00 p.m.	2:00 - 5:00 p.m.	9:00 a.m. - 12:00 p.m.	2:00 - 5:00 p.m.	8:30 - 11:30 a.m.	1:00 - 4:00 p.m.
M102: Advances in Lightweight Materials	M104: Applications of Advanced High-Strength Steels and Press Hardening for Automotive Structures	M105: Sheet Metal Forming Technology (Part 1 of 2)	M105: Sheet Metal Forming Technology (Part 2 of 2)	M107: Failure Analysis of Materials, Components and Systems	M106 Advances in Metalcasting
M202: Advanced Analysis, Design, and Optimization of Materials, Restraints, and Structures for Enhanced Automotive Safety and Weight Reduction (Part 1 of 4)	M202: Advanced Analysis, Design, and Optimization of Materials, Restraints, and Structures for Enhanced Automotive Safety and Weight Reduction (Part 2 of 4)	M202: Advanced Analysis, Design, and Optimization of Materials, Restraints, and Structures for Enhanced Automotive Safety and Weight Reduction (Part 3 of 4)	M202: Advanced Analysis, Design, and Optimization of Materials, Restraints, and Structures for Enhanced Automotive Safety and Weight Reduction (Part 4 of 4)	M200: Fatigue Modeling / Testing & CAE Durability Analysis (Part 1 of 2)	M200: Fatigue Modeling / Testing & CAE Durability Analysis (Part 2 of 2)
M203: Automotive Engineering Testing and Test Methods (Part 1 of 2)	M203: Automotive Engineering Testing and Test Methods (Part 2 of 2)	M205 Materials and Residual Stress Test Development M213 Multi-Discipline Interaction and Special CAE Applications	M208: Load Simulation and Vehicle Performance: Tire and Terrain	M206: Load Simulation and Vehicle Performance: Nonlinear Components/Systems	M207: Load Simulation and Vehicle Performance: Ride Comfort
M209: Load Simulation and Vehicle Performance: Multi-body Dynamics and Intelligent Vehicle Dynamics (Part 1 of 2)	M209: Load Simulation and Vehicle Performance: Multi-body Dynamics and Intelligent Vehicle Dynamics (Part 2 of 2)	M210: Load Simulation and Vehicle Performance: Handling and Dynamics (Part 1 of 4)	M210: Load Simulation and Vehicle Performance: Handling and Dynamics (Part 2 of 4)	M210: Load Simulation and Vehicle Performance: Handling and Dynamics (Part 3 of 4)	M210: Load Simulation and Vehicle Performance: Handling and Dynamics (Part 4 of 4)
M211: NVH CAE Analysis & Testing Correlations (Part 1 of 2)	M211: NVH CAE Analysis & Testing Correlations (Part 2 of 2)	M214: Automotive Tribology (Part 1 of 2)	M214: Automotive Tribology (Part 2 of 2)	M204: Optical Measurement and Nondestructive Testing Techniques in Automotive	M217: Materials-Environment Interactions
M300: Automotive Polymeric, Plastic Components and Composites (Part 1 of 2)	M300: Automotive Polymeric, Plastic Components and Composites (Part 2 of 2)	M301: Advances in Instrument Panels, Seats, and Interiors	M302 Automotive Composites Structures M215 Composite Modeling/ Testing and Analysis Technology	M216: Welding and Joining and Fastening (Part 1 of 2)	M216: Welding and Joining and Fastening (Part 2 of 2)
SS101 CAD/CAM/CAE Technology (Part 1 of 4)	SS101 CAD/CAM/CAE Technology (Part 2 of 4)	SS101 CAD/CAM/CAE Technology (Part 3 of 4)	SS101 CAD/CAM/CAE Technology (Part 4 of 4)	M400/401: UV/EB Leading the Way for the Future of Automotive (Part 1 of 2)	M400/401: UV/EB Leading the Way for the Future of Automotive (Part 2 of 2)
HX101 Thermal System Components (Part 1 of 2)	HX101 Thermal System Components (Part 2 of 2)	HX102 Thermal Systems Modeling and Simulation (Part 1 of 3)	HX102 Thermal Systems Modeling and Simulation (Part 2 of 3)	HX102 Thermal Systems Modeling and Simulation (Part 3 of 3)	HX103 Energy Efficiency of Thermal Systems
HX104 Climate Control (Part 1 of 4)	HX104 Climate Control (Part 2 of 4)	HX104 Climate Control (Part 3 of 4)	HX104 Climate Control (Part 4 of 4)	HX105 Thermal Systems for Hybrid and Electric Vehicles (Part 1 of 2)	HX105 Thermal Systems for Hybrid and Electric Vehicles (Part 2 of 2)
PFL450 Particle Emissions from Combustion Sources (Part 1 of 4)	PFL450 Particle Emissions from Combustion Sources (Part 2 of 4)	PFL450 Particle Emissions from Combustion Sources (Part 3 of 4)	PFL450 Particle Emissions from Combustion Sources (Part 4 of 4)	PFL460 Gaseous Engine Emissions (Part 1 of 2)	PFL460 Gaseous Engine Emissions (Part 2 of 2)
PFL421 System Integration And Durability	PFL440 Emissions Measurement and Testing (Part 1 of 3)	PFL440 Emissions Measurement and Testing (Part 2 of 3)	PFL440 Emissions Measurement and Testing (Part 3 of 3)	PFL425 On-board Measurement and Control	PFL426 Meeting the ARB Low Emission Standard
PFL424 Advances in Nox Reduction Technology (Part 1 of 2)	PFL424 Advances in Nox Reduction Technology (Part 2 of 2)	PFL430 Emissions Measurement and Testing (Part 1 of 4)	PFL430 Emissions Measurement and Testing (Part 2 of 4)	PFL430 Emissions Measurement and Testing (Part 3 of 4)	PFL430 Emissions Measurement and Testing (Part 4 of 4)
AE202 Cybersecurity for Cyber-Physical Vehicle Systems (Part 1 of 2)	AE202 Cybersecurity for Cyber-Physical Vehicle Systems (Part 2 of 2)	AE303 Wiring and Harnesses	AE403 System Safety and Verification of Automated Driving Systems & ADAS (Part 1 of 3)	AE403 System Safety and Verification of Automated Driving Systems & ADAS (Part 2 of 3)	AE403 System Safety and Verification of Automated Driving Systems & ADAS (Part 3 of 3)
AE206 Infotainment Systems	AE401 Driver Assistance Systems: Algorithms, Applications and Electronic Sensing (Part 1 of 5)	AE401 Driver Assistance Systems: Algorithms, Applications and Electronic Sensing (Part 2 of 5)	AE401 Driver Assistance Systems: Algorithms, Applications and Electronic Sensing (Part 3 of 5)	AE401 Driver Assistance Systems: Algorithms, Applications and Electronic Sensing (Part 4 of 5)	AE401 Driver Assistance Systems: Algorithms, Applications and Electronic Sensing (Part 5 of 5)
AE506 Autonomous Systems (Part 1 of 3)	AE506 Autonomous Systems (Part 2 of 3)	AE506 Autonomous Systems (Part 3 of 3)	AE502 Vehicle to Vehicle	AE105/108/109 Systems Integration	AE301 Engine & Transmission Control
AE507 The Internet of Connected Vehicles	GAMIC	AE302 Sensors and Actuators (Part 1 of 2)	AE302 Sensors and Actuators (Part 2 of 2)	AE402 Electromagnetics and Antennas	AE203 Systems Diagnostics and Prognostics
AE103 Model-Based Controls and Software	AE509 Blockchain and IoT	AE201 Vehicle Networks and Communication (Part 1 of 2)	AE201 Vehicle Networks and Communication (Part 2 of 2)	AE504 Intelligent Transportation Systems (Part 1 of 2)	AE504 Intelligent Transportation Systems (Part 2 of 2)
AE503 Vehicle to Infrastructure (Part 1 of 2)	AE503 Vehicle to Infrastructure (Part 2 of 2)	AE101 Systems Engineering	AE501 Intelligent Vehicle Initiative (Part 1 of 3)	AE501 Intelligent Vehicle Initiative (Part 2 of 3)	AE501 Intelligent Vehicle Initiative (Part 3 of 3)

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C2C @ WCX 10:40am-12:00pm Roundtable:OEM/Governm ent Interaction	C2C @ WCX 2-3:20pm Big Data for Diagnostics/Prognostic Development Panel 3:30-5:00 PM Roundtable: Validation Is the Path To Getting On the Road - What is it Going to Take to Get Us There?	C2C @ WCX 10:40am-12:00pm AE299 CyberSecurity 2.0 – Collaboration, Incident Response and Automation	C2C @ WCX 2:00pm-3:30pm Roundtable: Communications Infrastructure Exchange – The Latest in Technology Updates 3:30-5:00pm Systems Engineering Panel	C2C @ WCX 8:30am-9:00am Trevor Jones Award Winner Keynote 9:00 am-10:30am Roundtable: SEMI	C2C @ WCX 1:00pm-1:20pm Connected Vehicle Challenge Sponsor: What the Connected Vehicle Challenge is all about 1:20pm-4:00pm WCX Connected Vehicle Challenge 2018
PFL410 Exhaust Emissions Control - New Developments (Part 1 of 2)	PFL410 Exhaust Emissions Control - New Developments (Part 2 of 2)	PFL422 Advanced Catalysts and Substrates (Part 1 of 2)	PFL422 Advanced Catalysts and Substrates (Part 2 of 2)	PFL423 Advances in Particulate Filter Substrates (Part 1 of 2)	PFL423 Advances in Particulate Filter Substrates (Part 2 of 2)
IDM101: Predictive Analytics and Tools Development	IDM102: Reliability and Robust Design in Automotive Engineering: Reliability-Based Design Optimization and Robustness	IDM103: Reliability and Robust Design in Automotive Engineering: Reliability and Accelerated Testing	IDM104: Reliability and Robust Design in Automotive Engineering: Decision Under Uncertainty/Uncertainty Modeling	IDM105: Reliability and Robust Design in Automotive Engineering: Reliability and Robust Design in Automotive Aero- Thermal and Fluid Systems	IDM106: Reliability and Robust Design in Automotive Engineering: Model Validation and Verification
IDM109: Integrated Computational Materials Engineering (ICME)	IDM201: Modeling and Simulation of Military Ground Vehicles (Part 1 of 3)	IDM201: Modeling and Simulation of Military Ground Vehicles (Part 2 of 3)	IDM201: Modeling and Simulation of Military Ground Vehicles (Part 3 of 3)	IDM110: Business Modeling/Operation Research/Big Data Analytics	IDM302: Additive (3D Printing) Manufacturing
IDM300 Trends in Development of Accelerated Reliability and Durability Testing Technology IDM111 Multidisciplinary Design Optimization (MDO) IDM400 Key Success Factors for DFSS, Lean Product Development, and Manufacturing	SDP100 Sustainable Development for Automotive Industry: LCA and Automotive Sustainability: Materials Production; Manufacturing; Use; End-of-Life and Auto Industry Corporate Sustainability Programs	SDP100 Sustainable Development for Automotive Industry: Advances in Alternative Energy Sources for Sustainable Development in the Transportation Sector (Part 1 of 2)	SDP100 Sustainable Development for Automotive Industry: Advances in Alternative Energy Sources for Sustainable Development in the Transportation Sector (Part 2 of 2) and Vehicle Electrification Strategies for Sustainability	IDM304: Intelligent Manufacturing Solutions	IDM303: Robotics and System Integration
SS100 Body Engineering and Design (Part 1 of 2)	SS100 Body Engineering and Design (Part 2 of 2)	SS103 Design Optimization - Methods and Applications (Part 1 of 2)	SS103 Design Optimization - Methods and Applications (Part 2 of 2)	SS700 Tire and Wheel Technology (Part 1 of 2)	SS700 Tire and Wheel Technology (Part 2 of 2)
SS600 Steering and Suspension Technology Symposium (Part 1 of 2): Steering	SS600 Steering and Suspension Technology Symposium (Part 2 of 2): Suspensions	SS000 Noise, Vibration, and Harshness (NVH) (Part 1 of 4)	SS000 Noise, Vibration, and Harshness (NVH) (Part 2 of 4)	SS000 Noise, Vibration, and Harshness (NVH) (Part 3 of 4)	SS000 Noise, Vibration, and Harshness (Part 4 of 4) (NVH)
PFL710 Advanced Hybrid and Electric Vehicle Powertrains (Part 1 of 5)	PFL710 Advanced Hybrid and Electric Vehicle Powertrains (Part 2 of 5)	PFL710 Advanced Hybrid and Electric Vehicle Powertrains (Part 3 of 5)	PFL710 Advanced Hybrid and Electric Vehicle Powertrains (Part 4 of 5)	PFL710 Advanced Hybrid and Electric Vehicle Powertrains (Part 5 of 5)	PFL211 Basic SI Combustion Processes
PFL740 Electric Motor & Power Electronics (Part 1 of 3)	PFL740 Electric Motor & Power Electronics (Part 2 of 3)	PFL740 Electric Motor & Power Electronics (Part 3 of 3)	PFL215 SI Combustion Ignition	PFL720 Advanced Fuel Cell Vehicle Applications (Part 1 of 2)	PFL720 Advanced Fuel Cell Vehicle Applications (Part 2 of 2)
SS800 Vehicle Aerodynamics (Part 1 of 6) SS500 Occupant Protection: Accident Reconstruction (Part 1 of 4)	SS800 Vehicle Aerodynamics (Part 2 of 6) SS500 Occupant Protection: Accident Reconstruction (Part 2 of 4)	SS800 Vehicle Aerodynamics (Part 3 of 6) SS500 Occupant Protection: Accident Reconstruction (Part 3 of 4)	SS800 Vehicle Aerodynamics (Part 4 of 6) SS500 Occupant Protection: Accident Reconstruction (Part 4 of 4)	SS800 Vehicle Aerodynamics (Part 5 of 6) SS901 Electric Vehicle Drivetrain Dynamics	SS800 Vehicle Aerodynamics (Part 6 of 6) SS502 Occupant Protection: Event Data Recorders (EDR) Technical Expert Panel Discussion: What do Autonomous Vehicles mean for Regulation
SS501 Occupant Protection: Biomechanics (Part 1 of 2)	SS501 Occupant Protection: Biomechanics (Part 2 of 2)	SS510 Occupant Protection: Structural Crashworthiness and Occupant Safety	SS503 Occupant Protection: Integrated Safety Systems	SS504 Occupant Restraints (Air Bags, Seat Belts, Knee Bolsters, Child Seats, etc.)	SS508 Occupant Protection: Safety Test and Simulation Methods and Applications
SS400 Active Safety: Systems and Sub Systems (Part 1 of 2)	SS400 Active Safety: Systems and Sub Systems (Part 2 of 2)	SS505 Occupant Protection: Pedestrian and Cyclist Safety (Part 1 of 2)	SS505 Occupant Protection: Pedestrian and Cyclist Safety (Part 2 of 2)	SS506 Occupant Protection: Rear Impact, Side Impact and Rollover	SS200 Fire Safety
SS900 Vehicle Dynamics, Stability and Control (Part 1 of 6)	SS900 Vehicle Dynamics, Stability and Control (Part 2 of 6)	SS900 Vehicle Dynamics, Stability and Control (Part 3 of 6)	SS900 Vehicle Dynamics, Stability and Control (Part 4 of 6)	SS900 Vehicle Dynamics, Stability and Control (Part 5 of 6)	SS900 Vehicle Dynamics, Stability and Control (Part 6 of 6)
SS302 Human Factors in Driving and Automotive Telematics (Part 1 of 2)	SS302 Human Factors in Driving and Automotive Telematics (Part 2 of 2)	SS300/01 Automotive Lighting and Driver Vision (Part 1 of 2)	SS300/01 Automotive Lighting and Driver Vision (Part 2 of 2)	SS303 Seating Comfort (Part 1 of 2)	SS303 Seating Comfort (Part 2 of 2)
PFL730 Advanced Battery Technologies (Part 1 of 4)	PFL730 Advanced Battery Technologies (Part 2 of 4)	PFL730 Advanced Battery Technologies (Part 3 of 4)	PFL730 Advanced Battery Technologies (Part 4 of 4)	PFL217 Abnormal SI Combustion (Preignition)	PFL216 Dilute SI Combustion

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PFL213 Abnormal SI Combustion (Knock) (Part 1 of 2)	PFL213 Abnormal SI Combustion (Knock) (Part 2 of 2) PFL214 Fuel / Additive Effects on SI Combustion Processes	PFL750 Controls for Hybrids and Electric Powertrains (Part 1 of 4)	PFL750 Controls for Hybrids and Electric Powertrains (Part 2 of 4)	PFL750 Controls for Hybrids and Electric Powertrains (Part 3 of 4)	PFL750 Controls for Hybrids and Electric Powertrains (Part 4 of 4)
PFL220 Combustion in Compression-Ignition Engines (Part 1 of 6)	PFL220 Combustion in Compression-Ignition Engines (Part 2 of 6)	PFL220 Combustion in Compression-Ignition Engines (Part 3 of 6)	PFL220 Combustion in Compression-Ignition Engines (Part 4 of 6)	PFL220 Combustion in Compression-Ignition Engines (Part 5 of 6)	PFL220 Combustion in Compression-Ignition Engines (Part 6 of 6)
PFL110 0-D and 1-D Modeling and Numerics Part 1: Models for Air & exhaust management and air-borne noise	PFL110 0-D and 1-D Modeling and Numerics Part 2: Models for SI Combustion and Emissions (Part 1 of 2)	PFL110 0-D and 1-D Modeling and Numerics Part 2: Models for SI Combustion and Emissions (Part 2 of 2)	PFL110 0-D and 1-D Modeling and Numerics Part 3: Models for CI Combustion and Emissions	PFL110 0-D and 1-D Modeling and Numerics Part 4: Physical plant models for controls	PFL110 0-D and 1-D Modeling and Numerics Part 5: Models for Mechanical Systems, Drivelines and Vehicles PFL110 0-D and 1-D Modeling and Numerics Part 6: General Thermodynamics & Fundamentals
PFL120 Multi-Dimensional Engine Modeling (Part 1 of 6)	PFL120 Multi-Dimensional Engine Modeling (Part 2 of 6)	PFL120 Multi-Dimensional Engine Modeling (Part 3 of 6)	PFL120 Multi-Dimensional Engine Modeling (Part 4 of 6)	PFL120 Multi-Dimensional Engine Modeling (Part 5 of 6)	PFL120 Multi-Dimensional Engine Modeling (Part 6 of 6)
PFL510 New CI & SI Engines and Components (Part 1 of 2)	PFL510 New CI & SI Engines and Components (Part 2 of 2)	PFL520 Engine Boosting Systems (Part 1 of 2)	PFL520 Engine Boosting Systems (Part 2 of 2)	PFL530 CI & SI Power Cylinder Systems	PFL290 Cold Start and Transients
PFL610 Transmission Systems/Drive Unit (Part 1 of 2)	PFL610 Transmission Systems/Drive Unit (Part 2 of 2)	PFL250 Partially Premixed Compression Ignition, PPCI (Part 1 of 2)	PFL250 Partially Premixed Compression Ignition, PPCI (Part 2 of 2)	PFL230 Homogeneous Charge Compression Ignition, HCCI (Part 1 of 2)	PFL230 Homogeneous Charge Compression Ignition, HCCI (Part 2 of 2)
PFL680 Driveline Modeling (Part 1 of 2)	PFL680 Driveline Modeling (Part 2 of 2)	PFL620 All Wheel Drive PFL630 IVT / CVT	PFL640 Driveline Controls	PFL670 Driveline Components/Subsystems (Part 1 of 2)	PFL670 Driveline Components/Subsystems (Part 2 of 2)
PFL140 Fluid flow Measurement & Analysis	PFL150 Diagnostic Development	PFL660 Driveline NVH	PFL270 Combustion in Gaseous-Fueled Engines (Part 1 of 3)	PFL270 Combustion in Gaseous-Fueled Engines (Part 2 of 3)	PFL270 Combustion in Gaseous-Fueled Engines (Part 3 of 3)
PFL260 Dual Fuel Combustion (Part 1 of 4)	PFL260 Dual Fuel Combustion (Part 2 of 4)	PFL260 Dual Fuel Combustion (Part 3 of 4)	PFL260 Dual Fuel Combustion (Part 4 of 4) PFL280 Combustion Control and Optimization (Part 1 of 3)	PFL280 Combustion Control and Optimization (Part 2 of 3)	PFL280 Combustion Control and Optimization (Part 3 of 3)
HX106 Powertrain Thermal Management: Combustion Chamber, Battery Cooling, and Engine Cooling (Part 1 of 2)	HX106 Powertrain Thermal Management: Combustion Chamber, Battery Cooling, and Engine Cooling (Part 2 of 2)	PFL130 Control System Design & Calibration (Part 1 of 3)	PFL130 Control System Design & Calibration (Part 2 of 3)	PFL130 Control System Design & Calibration (Part 3 of 3)	CONG201 Mobility History
PFL310 Fuel and Additive Effects on Engine Systems	PFL350 Heavy Duty Diesel Lubricants PFL360 Driveline Lubricants	PFL340 Automotive Gasoline Engine Lubricants	PFL180 Technological Developments in China (Part 1 of 3)	PFL180 Technological Developments in China (Part 2 of 3)	PFL180 Technological Developments in China (Part 3 of 3)
PFL110 0-D and 1-D Modeling and Numerics Part 7: Hydraulics, Lubrication & Thermal Management	PFL201 Technical Expert Panel Discussion: Understanding the Potential Efficiency Opportunities through the Co-Optimization of Fuel and Engine Technologies for Medium-Duty and Heavy-Duty Engines -- Technical Expert Panel Discussion (TBD)	PFL330 Alternative and Advanced Fuels (Part 1 of 4)	PFL330 Alternative and Advanced Fuels (Part 2 of 4)	PFL330 Alternative and Advanced Fuels (Part 3 of 4)	PFL330 Alternative and Advanced Fuels (Part 4 of 4)
PFL570 Valvetrain, including VVA (Part 1 of 2)	PFL570 Valvetrain, including VVA (Part 2 of 2)	PFL580 Engine Block, Cylinder Heads, Oil & Water Pumps, Intake & Exhaust Systems (Part 1 of 2)	PFL580 Engine Block, Cylinder Heads, Oil & Water Pumps, Intake & Exhaust Systems (Part 2 of 2)	PFL550 Powertrain NVH (Part 1 of 2)	PFL550 Powertrain NVH (Part 2 of 2)
PFL370 Holistic Session on Fuel Consumption and Fuel Economy (Part 1 of 2)	PFL370 Holistic Session on Fuel Consumption and Fuel Economy (Part 2 of 2)	PFL170 High Efficiency IC Engines Concepts (Part 1 of 4)	PFL170 High Efficiency IC Engines Concepts (Part 2 of 4)	PFL170 High Efficiency IC Engines Concepts (Part 3 of 4)	PFL170 High Efficiency IC Engines Concepts (Part 4 of 4)
PFL320 Fuel Injection and Sprays (Part 1 of 6)	PFL320 Fuel Injection and Sprays (Part 2 of 6)	PFL320 Fuel Injection and Sprays (Part 3 of 6)	PFL320 Fuel Injection and Sprays (Part 4 of 6)	PFL320 Fuel Injection and Sprays (Part 5 of 6)	PFL320 Fuel Injection and Sprays (Part 6 of 6)