

# Agenda

## Fundamentals of Modern Driving Dynamics

8 a.m.	<i>Welcome and coffee</i>	1 p.m.	<b>Full Vehicle Virtual Prototypes for Ride</b> <ul style="list-style-type: none"> <li>• Ride comfort, harshness, shimmy</li> <li>• Maneuvers and modeling methodology</li> <li>• Tire models and other considerations</li> </ul>
8:30 a.m.	<b>Introduction and Overview</b> <ul style="list-style-type: none"> <li>• Basic terminology of architectures, events and metrics, etc.</li> <li>• Chassis and full vehicle development process overview</li> <li>• Identifying the challenges</li> </ul>	2 p.m.	<i>Break</i>
9:30 a.m.	<b>The Role of K&amp;C Rig testing with CAE Models</b> <ul style="list-style-type: none"> <li>• Identification of suspension behavior</li> <li>• Using K&amp;C rigs for reverse engineering of 1D/3D CAE models</li> </ul>	2:15 p.m.	<b>Coordinating with Control System Development</b> <ul style="list-style-type: none"> <li>• Model based systems engineering (MBSE) principals</li> <li>• Defining and leveraging MiL, HiL, SiL methods</li> <li>• Developing realtime models</li> </ul>
10:15 a.m.	<i>Break</i>	3:15 p.m.	<b>Advanced Experimental Body Modal Contribution Techniques</b> <ul style="list-style-type: none"> <li>• Operational measurements</li> <li>• Body modal measurements</li> <li>• Frequency or time domain contribution per maneuver</li> </ul>
10:30 a.m.	<b>Full Vehicle Virtual Prototypes for Handling</b> <ul style="list-style-type: none"> <li>• Use of driving dynamics for model assembly</li> <li>• Addressing the need for variant management</li> <li>• Tire models and other complex components and considerations</li> </ul>	4:30 p.m.	<i>Close</i>
Noon	<i>Lunch</i>		

Agenda changes will be made at the discretion of Siemens PLM Software