

## Wednesday, October 9

9:00 a.m. - 5:00 p.m. **Pre-Event - [Model-Based Development Symposium](#)**  
 FCA, NAVAIR, University of Michigan, Enedyme, University of Parma, and more!

## Thursday, October 10

7:30 a.m. - 8:30 a.m. **Registration/Breakfast/Networking**

8:30 a.m. - 8:40 a.m. **Welcome Address**  
 Jason Napolitano - *Senior Vice President Americas, Altair*  
[Salon 1 - 2](#)

8:40 a.m. - 9:15 a.m. **The Convergence of Simulation and Data**  
 Jim Scapa - *Founder, Chairman and CEO, Altair*  
[Salon 1 - 2](#)

9:15 a.m. - 9:50 a.m. **The Future of Decision Making**  
 James Dagg - *Chief Technology Officer - Modeling and Visualization, Altair*  
[Salon 1 - 2](#)

9:50 a.m. - 10:20 a.m. **Imagining a World that Works**  
 Dr. Dayna Baumeister - *Partner, Biomimicry 3.8*  
[Salon 1 - 2](#)

10:20 a.m. - 10:50 a.m. **Networking Break** - Visit the Ask the Expert Pods, Altair Workflows, Sponsors, and Altair Partner Alliance

10:50 a.m. - 11:20 a.m. **Breaking Design Silos with Real-Time Collaboration**  
 David Cohen - *Chief Engineer, NAWCAD Director, Systems Acquisition Group, NAVAIR*  
[Salon 1 - 2](#)

11:20 a.m. - 11:50 a.m. **Empathetic Engineering**  
 Naveed R. Parvez - *CEO, Andiamo*  
[Salon 1 - 2](#)

11:50 a.m. - 12:20 p.m. **Vehicle Architecture Design**  
 James Truskin - *Technical Fellow - Body Adv. Architecture, FCA*  
[Salon 1 - 2](#)

12:20 p.m. - 1:35 p.m. **Lunch** - Visit the Ask the Expert Pods, Altair Workflows, Sponsors, and Altair Partner Alliance

12:20 p.m. - 1:35 p.m.	CM Labs Simulations <a href="#">Garnet I</a>	<b>Lunch + Learn</b>	DELL and Intel <a href="#">Garnet II</a>	<b>Lunch + Learn</b>	Materialise <a href="#">Sapphire I</a>	<b>Lunch + Learn</b>	nCode HBM Prensica <a href="#">Sapphire II</a>	<b>Lunch + Learn</b>
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1:35 p.m. - 2:05 p.m. **Mobilizing Humanity in a New Way**  
 Rob Miller - *Chief Marketing Officer, Hyperloop Transportation Technologies*  
[Salon 1 - 2](#)

2:05 p.m. - 2:20 p.m. **TBA**  
 Tejas Karmarkar - *Senior Principal Product Manager, Oracle*  
[Salon 1 - 2](#)

2:20 p.m. - 2:50 p.m. **Human Plus Machine: How Sarcos is Revolutionizing the Future of Work with Industrial Robotics**  
 Chris Beaufait - *Chief Operating Officer, Sarcos Robotics*  
[Salon 1 - 2](#)

2:50 p.m. - 3:20 p.m. **Networking Break** - Visit the Ask the Expert Pods, Altair Workflows, Sponsors, and Altair Partner Alliance

3:20 p.m. - 4:20 p.m. **Panel: AI & The Future of Product Lifecycles**  
 Momdouh Refaat (Moderator) - *Chief Data Scientist, Altair*  
[Salon 1 - 2](#)

4:20 p.m. - 4:50 p.m. **Identifying and Capturing Business Growth Opportunities with Machine Learning**  
 Carlos Eduardo Lopes - *Advanced Engineering Global Director, Maxion Wheels*  
[Salon 1 - 2](#)

4:50 p.m. - 5:20 p.m. **Flying Car**  
 Josh Elvander - *Vice President of Global Engineering, Terrafugia*  
[Salon 1 - 2](#)

5:20 p.m. - 8:30 p.m. **Networking Reception** - Cocktails, live entertainment, and racing! Visit the Altair Race Track

## Friday, October 11

8:00 a.m. - 9:00 a.m.	<b>Registration/Breakfast/Networking</b>		
	<b>Track 1: Getting Smarter</b> <i>Salon 2</i>	<b>Track 2: Accelerating Innovation</b> <i>Salon 4</i>	<b>Track 3: Future Powertrains</b> <i>Salon 1</i>
9:00 a.m. - 9:20 a.m.	<b>Simplifying Your Connected World – Enabling Connected Products</b> Brian Peters, Altair	<b>The Key Role of Simulation in Development of Aluminum Profiles and Study of Glass Structures in Shorter Design Time</b> Gabriele Romagnoli, Faraone	<b>An Efficient and Automated Design Strategy for Multi-physics E-motor Development</b> TBA, Daimler
9:20 a.m. - 9:40 a.m.	<b>Enabling Smart Buildings – Leveraging the Power and Breadth of IoT to Create Simple and Low Cost Smart Building Solutions</b> Bryan Anderson, Altair and Carbon Lighthouse	<b>SimSolid for ACCRA Tooling Simulation</b> Eric Gillund, Multimatic	<b>Integrating Battery Testing Hardware with System Simulation for Accurate Hardware-in-the-loop Testing of e-Powertrain</b> TBA, Chroma/Sendyne
9:40 a.m. - 10:00 a.m.	<b>Smarter Ways for Optimizing Product Performance with the Help of Altair’s Digital Twin Platform</b> Christian Kehrer, Altair	<b>Machine Learning in 3D: Teaching Algorithms to Organize, Judge and Generate Parts</b> Eamon Whalen, Altair	<b>Title TBA</b> Altair/Romax/B&K
10:00 a.m. - 10:20 a.m.	<b>Title TBA</b> TBA, Company TBA	<b>Title TBA</b> TBA, Company TBA	<b>Using Machine Learning and Optimization to Develop E-motor</b> Diana Mavrudieva, Altair
10:20 a.m. - 10:50 a.m.	<b>Networking Break</b> - Visit the Ask the Expert Pods, Altair Workflows, Sponsors, and Altair Partner Alliance		
	<b>Track 1: Electrifying Everything</b> <i>Salon 2</i>	<b>Track 2: Multidimensional Thinking</b> <i>Salon 4</i>	<b>Track 3: Manufacturing Transformation</b> <i>Salon 1</i>
10:50 a.m. - 11:10 a.m.	<b>Optimized Energy Harvesting for Sustainable Smart Lighting Systems</b> Adrian Rendon, Schneider Electric	<b>The Role of Finite Element Analysis in the Development and Optimization of Novel Sports Head Protection</b> John Cagle, VICIS	<b>Ford Stamping</b> Eamon Whalen, Altair
11:10 a.m. - 11:30 a.m.	<b>The Wahoo KICKR Bike: Designing a Ride Experience That Blurs the Line Between Virtual and Reality</b> Anqi Sun Altair	<b>Multiphysics Automated and Integrated Design Process</b> Ken Singh and Surendra Gaikward, FCA	<b>Nissan’s Approach on Advanced Manufacturing and Generative Design</b> Dr. Nanzhu Zaho, Nissan
11:30 a.m. - 11:50 a.m.	<b>Altair Drones Enabled with Machine Learning</b> Eamon Whalen, Altair	<b>Engineering Jet Engines with OptiStruct, an Alternative for Rotordynamic Evaluation</b> Illya Emmanuel Arcos Perez, GE	<b>TBA</b> TBA, TBA
11:50 a.m. - 12:10 p.m.	<b>Meet Your Energy Efficiency Goals in Your Electrification Projects with Simulation</b> Dr. Vincent Leconte, Altair	<b>Applications of ML for Product Development</b> Johnathon Ollar, Altair	<b>TBA</b> TBA, Company TBA
12:10 p.m. - 1:25 p.m.	<b>Lunch</b> - Visit the Ask the Expert Pods, Altair Workflows, Sponsors, and Altair Partner Alliance		
12:10 p.m. - 1:25 p.m.	Chiastek <i>Garnet I</i>	Lunch + Learn FEMFAT <i>Garnet II</i>	Lunch + Learn Phoenix Integration <i>Sapphire I</i>
	Lunch + Learn RAMDO <i>Sapphire II</i>	Lunch + Learn	Lunch + Learn
	<b>Track 1: Power Up Wireless</b> <i>Salon 2</i>	<b>Track 2: Scale Up</b> <i>Salon 4</i>	<b>Track 3: Cool Fluids</b> <i>Salon 1</i>
1:25 p.m. - 1:45 p.m.	<b>Industrial IoT (IIoT) Networks Powered by 5G New Radio</b> Amitabha (Amitava) Ghosh, Nokia Bell Labs	<b>Engineering Collaboration in the Cloud (Altair365)</b> TBA, Navair Ed Wettlaufer, Altair	<b>A Talk on the Challenges Involved in Secondary Air Systems Design of Indigenous Turkish Turboshift Engine Development Program</b> Mustafa KOCAGÜL, TEI TUSAŞ Engine Industries Inc.
1:45 p.m. - 2:05 p.m.	<b>Automotive Cellular Antenna Elevation Angle Study</b> Leo Oh, General Motors	<b>TBA</b> TBA, TBA	<b>nFX</b> Dr. Kostas Karmaloegekos, Romax
2:05 p.m. - 2:25 p.m.	<b>The Unique Challenges of Automotive Antenna Design and Test</b> John F. Locke, Ford Motor Company	<b>Get in the Groove with HPC</b> Eric Morales, Ping	<b>Empowering Aerodynamic Design Exploration – Volkswagen Group Research Case Study</b> Dr. Bastian Schnepf, Altair
2:25 p.m. - 2:45 p.m.	<b>Upcoming New Wireless Solutions and Applications, including 5G</b> Dr. Jordi Soler, Altair	<b>HPC for Teaching and ML Model and Better HPC Job Allocation with ML</b> Dr. Fatma Kocer, Altair	<b>Collaboration Between the Design Studio and Aerodynamics – the Future</b> Dr. Paul Stewart, Altair