

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**
 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 Garnet I	Lunch + Learn	DELL and Intel Garnet II	Lunch + Learn	Materialise Sapphire I	Lunch + Learn	nCode HBM Prensica Sapphire II	Lunch + Learn
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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**
 Momdough 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. - 5:10 p.m. **Flying Car**
 Josh Elvander - *Vice President of Global Engineering, Terrafugia*
[Salon 1 - 2](#)

5:10 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.	Registration/Breakfast/Networking		
	Track 1: Getting Smarter <i>Salon 2</i>	Track 2: Accelerating Innovation <i>Salon 4</i>	Track 3: Future Powertrains <i>Salon 1</i>
9:00 a.m. - 9:20 a.m.	Simplifying Your Connected World – Enabling Connected Products Brian Peters, Altair	Architectural Design with Simulation Gabriele Romagnoli, Faraone	An Efficient and Automated Design Strategy for Multi-physics E-motor Development TBA, Daimler
9:20 a.m. - 9:40 a.m.	Enabling Smart Buildings – Leveraging the Power and Breadth of IoT to Create Simple and Low Cost Smart Building Solutions Bryan Anderson, Altair and Carbon Lighthouse	SimSolid for ACCRA Tooling Simulation Eric Gillund, Multimatic	Integrating Battery Testing Hardware with System Simulation for Accurate Hardware-in-the-loop Testing of e-Powertrain TBA, Chroma/Sendyne
9:40 a.m. - 10:00 a.m.	Smarter Ways for Optimizing Product Performance with the Help of Altair’s Digital Twin Platform Christian Kehrer, Altair	Machine Learning in 3D: Teaching Algorithms to Organize, Judge and Generate Parts Eamon Whalen, Altair	Title TBA Altair/Romax/B&K
10:00 a.m. - 10:20 a.m.	Title TBA TBA, Company TBA	Title TBA TBA, Company TBA	Using Machine Learning and Optimization to Develop E-motor Diana Mavrudieva, Altair
10:20 a.m. - 10:50 a.m.	Networking Break - Visit the Ask the Expert Pods, Altair Workflows, Sponsors, and Altair Partner Alliance		
	Track 1: Electrifying Everything <i>Salon 2</i>	Track 2: Multidimensional Thinking <i>Salon 4</i>	Track 3: Manufacturing Transformation <i>Salon 1</i>
10:50 a.m. - 11:10 a.m.	Optimized Energy Harvesting for Sustainable Smart Lighting Systems Adrian Rendon, Schneider Electric	The Role of Finite Element Analysis in the Development and Optimization of Novel Sports Head Protection John Cagle, VICIS	Nissan’s Approach on Advanced Manufacturing and Generative Design Dr. Nanzhu Zaho, Nissan
11:10 a.m. - 11:30 a.m.	The Wahoo KICKR Bike: Designing a Ride Experience That Blurs the Line Between Virtual and Reality Brian Brothers, Altair	Multiphysics Automated and Integrated Design Process Ken Singh and Surendra Gaikward, FCA	TBA TBA, Ford Stamping
11:30 a.m. - 11:50 a.m.	Altair Drones Enabled with Machine Learning Eamon Whalen, Altair	Engineering Jet Engines with OptiStruct, an Alternative for Rotordynamic Evaluation Illya Emmanuel Arcos Perez, GE	Robot Customization with WAAM and Generative Design - Turning Requirements Into a Functional Digital Twin Thomas van Glabek, MX3D
11:50 a.m. - 12:10 p.m.	Meet Energy Efficiency Goals in Your Electrification Projects with Simulation Vincent Leconte, Altair	Applications of ML for Product Development Johnathon Ollar, Altair	TBA TBA, Company TBA
12:10 p.m. - 1:25 p.m.	Lunch - 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
	Track 1: Power Up Wireless <i>Salon 2</i>	Track 2: Scale Up <i>Salon 4</i>	Track 3: Cool Fluids <i>Salon 1</i>
1:25 p.m. - 1:45 p.m.	Industrial IoT (IIoT) Networks Powered by 5G New Radio Amitabha (Amitava) Ghosh, Nokia Bell Labs	Engineering Collaboration in the Cloud (Altair365) TBA, Navair Ed Wettlaufer, Altair	A Talk on the Challenges Involved in Secondary Air Systems Design of Indigenous Turkish Turboshift Engine Development Program Mustafa KOCAGÜL, TEI TUSAŞ Engine Industries Inc.
1:45 p.m. - 2:05 p.m.	Automotive Cellular Antenna Elevation Angle Study Leo Oh, General Motors	TBA TBA, TBA	nFX Dr. Kostas Karmaloegekos, Romax
2:05 p.m. - 2:25 p.m.	The Unique Challenges of Automotive Antenna Design and Test John F. Locke, Ford Motor Company	Get in the Groove with HPC Eric Morales, Ping	uFX Bastian Schnepf, VW Group by Altair
2:25 p.m. - 2:45 p.m.	Upcoming New Wireless Solutions and Applications, including 5G Dr. Jordi Soler, Altair	HPC for Teaching and ML Model and Better HPC Job Allocation with ML Fatma Kocer, Altair	CFD for Conceptual Design Dr. Paul Stewart, Altair