



**AUTO
MOTIVE
CIRCLE**

SEP 24 - 25

**CONFERENCE
PROGRAM**

THE FUTURE OF MANUFACTURING

September 24-25, 2024

Summerville (Charleston), SC | USA

**GUIDED
TOUR****SEP 24 - 25
THE FUTURE OF MANUFACTURING****WITH GUIDED TOUR AT VOLVO CARS****INTRODUCING: VOLVO CAR USA**

In 2015, Swedish car maker Volvo Cars announced its first U.S. manufacturing facility just outside of Charleston, South Carolina. The plant became operational in June 2018.

The decision to choose Berkeley County, South Carolina as the home for the new factory was taken as a result of its easy access to international ports and infrastructure, a well-trained labor force, an attractive investment environment and experience in the high-tech manufacturing sector.

Today, Volvo produces the **EX90**, a fully electric SUV, and the **Polestar 3**, another fully electric SUV built on the same platform, at their South Carolina facility.

In 2022, Volvo Car Charleston (VCCH) expanded operations to include a battery assembly plant. The new battery assembly plant is the base to be able to produce BEVs. With this investment, Volvo Cars took a critical step towards preparing for the EX90 start of production.

Volvo is looking forward to welcoming the participants of this conference in South Carolina, and to taking you on an exclusive guided tour through the VCCH manufacturing facility!

During the 2-hour tour, you are going to meet experts from Volvo in the Body Shop and in Final Assembly, where they will take you on fascinating technical deep dives. There will also be lots of time for you to ask them questions.

STATIONS ON THE GUIDED TOUR:**BODY SHOP****Mechanical Joining**

This station will offer some deep dives into Mechanical Joining and the importance of the specific steel mixture used in Volvo's car bodies.

Welding Process

This station will highlight Volvo's unique Welding + Hemming Process.

**PAINT SHOP****Noise, Vibration, Harshness Foam**

At this station, Volvo will provide insights into their NVH Foam Process.

**FINAL ASSEMBLY****Battery Assembly**

Volvo's new battery assembly plant is the base to be able to produce BEVs.

LIDAR

This station will focus on the integration of Lidar technology into the vehicles.

Launch Readiness

Volvo prepares for projects by doing physical pre-series builds in Sweden and at the plant in Charleston. We'll take a look at the launch room to talk about how Volvo prepare to launch a new vehicle.



AGENDA

SEP 24 - 25

THE FUTURE OF MANUFACTURING

WITH GUIDED TOUR AT VOLVO CARS

TUESDAY | SEPTEMBER 24

8:00 AM **Registration, Coffee & Breakfast Snack**
Meet the Exhibitors

9:00 AM **Welcome & Conference Introduction**
Dr. Sibylle Freitag, Presidium
Automotive Circle, DE

FUTURE TRENDS IN AUTOMOTIVE MANUFACTURING

9:30 AM **The Future of the Automotive Supply Chain**
Oliver Haase, Senior Vice President, Purchasing &
Supplier Network Americas
BMW Manufacturing Co., US

10:15 AM **Coffee & Contacts**
Meet the Speakers & Exhibitors

10:45 AM **Trends in Automotive Production – Lessons Learned Through Competitive Analysis at Volkswagen Group**
Dr. Kai Mi Yang, Competitor Analysis/Benchmarking Audi AG, DE;
Ramon Ebert, Planning Engineer, Volkswagen AG, DE

DIGITAL TWINS

11:15 AM **Digital Twins and the Industrial Metaverse**
Brian Breuhan, Global Manufacturing Optimization Strategist
General Motors Company, US

11:45 PM **Boosting Digital Factory Twins with Next-Gen Reality Capture**
Nate McCall, Magnus Rönnäng, Senior Solution Consultants
NavVis, US

12:15 PM **Lunch & Contacts**
Meet the Speakers & Exhibitors

AI AND AR INNOVATIONS

1:30 PM **AI in Advanced Manufacturing**
Rajesh Iyengar, CEO & Co-Founder
Lincode, US

2:00 PM **Transforming Tribal Knowledge in Manufacturing with Augmented Reality and AI**
Javier Ortiz, CEO & Co-Founder, NewForge, US;
Austin Janocha, Quality Engineer, Bosch - B/S/H Home Appliances, US - in cooperation with SCRA

SUCCESS FACTOR: PEOPLE

2:30 PM **How the Industry Can Shape the Education of Future Engineers**
Dr. Andrew T. Hsu, President; Knudt Flor, Senior Vice President for Innovation and Industry Engagement
College of Charleston, US

3:00 PM **Coffee & Contacts**
Meet the Speakers & Exhibitors

3:30 PM **Panel Discussion: Closing the Skills Gap**
Knudt Flor, College of Charleston, US
Chris Nielsen, Levatas, US

INTRODUCTION TO THE VOLVO CAR CHARLESTON PLANT

4:15 PM **Overview - Volvo Car U.S. Operations**
David Stenström, Vice President Manufacturing Americas
Volvo Car Operations U.S.

5:00 PM **Get-together**
Meet the speakers & Exhibitors

6:00 PM **Networking dinner**

THE FUTURE OF MANUFACTURING 2024

YOUR CONTACTS

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CONFERENCE VENUE

Lowcountry Conference Center
406 Sigma Dr
Summerville (Charleston), SC 29486
USA



AGENDA

SEP 24 - 25 THE FUTURE OF MANUFACTURING

WITH GUIDED TOUR AT VOLVO CARS

WEDNESDAY | SEPTEMBER 25

6:40 AM **Coffee & Breakfast Snack**
Meet the Exhibitors

GUIDED TOUR AT VOLVO CAR CHARLESTON PLANT

7:00 AM All meet at conference desk
7:10 AM Bus leaves hotel
7:45 AM Welcome at Volvo Car Charleston Plant
Security Equipment & Instructions
8:00 AM Start of **Guided Tour** (ca. 2 hours)

11:00 AM **Coffee & Contacts back at the Hotel**
Meet the Exhibitors

ADVANCED MANUFACTURING SOLUTIONS: INNOVATION HIGHLIGHTS

IMPULSE
PRESENTATIONS

11:15 AM **Automating Industrial Inspections with AI, Robots and Drones**
Adrienne Zarn, VP of Customer Success, Levatas, US

11:30 AM **AI Platform for Industrial Autonomy - Providing Robots with Intellect**
Kristi Martindale, Chief Commercial Manager, Palladyne AI, US

11:45 AM **Exploring Motion Amplification and Its Advancements**
Cory Burns, Southeast Sales Manager, RDI Technologies, US

12:00 PM **The Importance of People, Process and Software around 3D Printing as Part of a Digital Transformation Strategy**
Mike Cady, Director Global Named Account Program, Markforged, US

12:15 PM **Lunch & Contacts**
Meet the Speakers & Exhibitors

1:15 PM **Autonomous Forklifts for the Loading Dock**
Peter Anderson-Sprecher, CTO & Co-Founder, Fox Robotics, US

1:30 PM **Autonomous Yard Trucks: Revolutionizing Manufacturing Logistics**
Debbie Yu, President & Co-Founder; Brent Hudspeth, VP Business Development, ISEE, US

1:45 PM **The Effects of Back-Support Exoskeletons for Manual Material Handling and Industry Application** - Dr. Divya Srinivasan, Professor of Industrial Engineering, Clemson University; Jill Steamer, Human Factors & System Engineer, Boeing Research and Technology, US in cooperation with SCRA

ADVANCED MANUFACTURING SOLUTIONS: MEET THE SPEAKERS

DISCUSSIONS &
DEMONSTRATIONS

2:00 PM **Levatas** - Adrienne Zarn: Automated Industrial Inspection

Palladyne AI - Kristi Martindale: AI Platform for Industrial Autonomy

RDI Technology - Cory Burns: Motion Amplification

Markforged - Mike Cady: 3D Printing as part of a Digital Transformation Strategy

Fox Robotics - Peter Anderson-Sprecher: Autonomous Forklifts

ISEE - Debbie Yu, Brent Hudspeth: Autonomous Yard Trucks

Clemson University - Dr. Divya Srinivasan; **Boeing Research and Technology** - Jill Streamer: Exoskeleton for Manual Material Handling and Industry Application

3:20 PM **Coffee & Contacts**
Walk & Talk in the Demonstration Area

3:40 PM **Conclusions**
Program Committee & OEM Advisory Board

3:55 PM **Summary, Outlook & Farewell**
Sibylle Freitag, Presidium, Automotive Circle, DE

4:00 PM **End of conference**

*Subject to change
Status as of: September 13, 2024*