



Agenda

Welcome Event – Tuesday June 20

Dress code: Business Casual

6:00 PM – 8:00 PM Welcome Event and Registration

Shorty's at The Mill

Light fare, drinks

Check in with the workshop, pick up your badge, and visit with other attendees in a relaxed atmosphere.

Day 1 – Wednesday, June 21

Dress code: Business Casual

8:00 AM – 9:00 AM Breakfast and Registration

The Mill, Foyer and Ballroom C

Buffet style breakfast (Assorted Freshly Baked Muffins, Assorted Bagels, Whipped Butter, Assorted Cream Cheese, Assorted Fruit Preserves, Seasonal Fresh Fruit Salad) coffee, water

9:00 AM Welcome and Opening Remarks

Dr. Daniel Carruth

Associate Director, Center for Advanced Vehicular Systems, Mississippi State University

Dr. Jason Keith

Dean, Bagley College of Engineering, Mississippi State University

Maj. Gen. (ret.) Jim Martin

Associate Vice President for Corporate Engagement and Economic Development, Mississippi State University

9:20 AM US Army Perspectives Introductory Remarks

Mr. Bartley Durst

Director, Geotechnical and Structures Laboratory, US Army Engineer Research and Development Center

Day 1 – Wednesday, June 21 Cont.

9:35 AM

US Army Modeling and Simulation Panel

Mr. Nicholas Boone

Senior Scientific Technical Manager, Tech Director, Force Projection/Maneuver Support, US Army Engineer Research and Development Center

Dr. Rajneesh Singh

Associate Chief of the Science of Intelligent Systems Division, Army Research Laboratory

Dr. Raju Namburu

Chief Technology Officer, Information Technology Lab, US Army Engineer Research and Development Center

Moderator: Dr. Daniel Carruth, *Mississippi State University*

10:10 AM

Break

10:20 AM

Industry Users and Developers Panel

Mr. Robert Belle-Isle

Robotics Software Engineer, Neya Systems

Mr. Karl Leodler

Founder and CEO, Dynamic Dimension Technologies

Dr. Tamer Wasfy

Founder and Chairman, Advanced Science and Automation Corp.

Dr. Xiaobo Yang

SAE & ASME Fellow, Senior Chief Principal Engineer, Global Technology Center, Oshkosh Corporation

Moderator: Dr. Reed Mosher, *Mississippi State University*

11:20 AM

Keynote: NATO AVT-341: Off-Road Mobility Assessment Methods and Tools for Autonomous Military Ground Systems

Dr. Paramsothy Jayakumar

Senior Technical Expert, Analytics, US Army DEVCOM Ground Vehicle Systems Center

12:00 PM

Lunch

The Mill, Foyer and Ballroom C

Buffet style lunch including vegetarian options, drinks (coffee, tea, water)

Day 1 – Wednesday, June 21 Cont.

1:00 PM

Academic Users and Developers Panel

Dr. Chris Goodin

*Assistant Research Professor, Center for Advanced Vehicular Systems,
Mississippi State University*

Dr. Yunyi Jia

*McQueen Quattlebaum Associate Professor, Department of Automotive
Engineering, Clemson University*

Dr. Samuel Misko

*Project Manager – Commercial & DoD Programs, Automotive Vehicle Mobility
(AVM) Program, The University of Alabama at Birmingham*

Dr. Dan Negrut

*NVIDIA CUDA Fellow, Bernard A. and Frances M. Weideman Professor,
Department of Mechanical Engineering, University of Wisconsin-Madison*

Moderator: Mr. Jody Priddy, *US Army Engineer Research and Development
Center*

2:00 PM

**Technical Session: Modeling and Simulating Cyberspace for Autonomous
Ground Vehicles**

Mr. Carter Bullard

Director of Cyber Security, Neya Systems

2:20 PM

Breakout Instructions

2:30 PM

Breakout Session 1

Focused roundtable conversations: unpacking recent successes, current
challenges, and future of autonomous vehicle simulation.

3:30 PM

Break – MSU Ice Cream in Foyer

3:45 PM

Breakout Session 2

Focused roundtable conversations: unpacking recent successes, current
challenges, and future of autonomous vehicle simulation.

4:45 PM

Wrap up

6:00 PM – 8:00 PM

Dress code: Casual

Group Dinner @ The Little Dooley

Directions: <https://goo.gl/maps/Wfv8Hfrp3HgL3kpP8>

*Dinner including Catfish, Chicken, Pulled Pork, Baked Beans, Mac and Cheese,
and Tea*

A cultural landmark in Starkville, “The Little Dooley” is known for its delicious
offerings such as catfish and BBQ pork and a range of beverages. A 10-12
minute walk from The Mill or parking available on-site.

Day 2 – Thursday, June 22

Dress code: Business Casual

8:00 AM – 9:00 AM	Breakfast and Registration The Mill, Foyer and Ballroom C <i>Made-to-order omelets, breakfast potatoes, fresh fruit, coffee, water</i>
9:00 AM	Welcome and Agenda for Day 2
9:10 AM	Group Discussion Brief review of Day 1 events and group discussion.
9:30 AM	Keynote: Digital Engineering for Autonomous Off-Road Vehicles in the Automotive Research Center Dr. Bogdan Epureanu <i>Arthur F. Thurnau Professor, Professor of Mechanical Engineering, and Professor of Electrical Engineering and Computer Science</i> <i>Director, Automotive Research Center, University of Michigan</i>
10:15 AM	Sub-realtime Autonomy Simulation in CREATE-GV Mr. John Kaniarz <i>Senior Computer Engineer, Immersive Simulation, US Army DEVCOM Ground Vehicle Systems Center</i>
10:45 AM	Break
11:00 AM	Breakout Session 3 Focused roundtable conversations: unpacking recent successes, current challenges, and future of autonomous vehicle simulation.
12:00 PM	Lunch The Mill, Foyer and Ballroom C <i>Sandwiches, soup, and chips, drinks (coffee, tea, water)</i>
1:00 PM	Technical Session Session Chair: Ms. Sara Fuller Integrated Simulation Workflows for Off-Road Autonomy Mr. Mihir Acharya <i>Senior Product Manager, MathWorks</i> Ms. Julia Antoniou <i>Senior Application Engineer, MathWorks</i>
1:20 PM	Autonomous Vehicles Simulation Platform Dr. Tamer M. Wasfy <i>Founder and Chairman, Advanced Science and Automation Corp.</i>

Day 2 – Thursday, June 22 Cont.

1:40 PM	Enhancing Workflows and Goals: Bringing CAD Models to Simulation Mr. Matt Miller <i>Electrical Engineer, GS Engineering</i>
2:00 PM	Considerations for the Lunar Terrain Vehicle Mr. Christopher Yeager <i>Senior Robotics Engineer and Leidos Technical Fellow, Leidos</i>
2:20 PM	Summary and Path Forward Review of the results of the breakout discussions. Collaborative development of a roadmap for modeling and simulation of autonomous ground vehicles.
3:00 PM	Adjourn
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3:15 PM	Optional: Organizational Meeting Discuss the future of SAMS AGV.
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3:30 – 5:00 PM	Optional: Tours of the Center for Advanced Vehicular Systems Directions: https://goo.gl/maps/TXXrByeoXAtp4PGm6 Tours of Mississippi State University's Center for Advanced Vehicular Systems (CAVS) are available for those interested. Sign-up sheets will be available at the registration desk.

