

Registration Open!

2019 Nissan Manufacturing Innovation Summit

October 2nd and 3rd; Golf Tournament Oct 4th

NISSAN



We are excited to announce the third annual Nissan Manufacturing Innovation Summit hosted by Nissan and the regional SME Chapter. This event will provide Nissan and other manufacturers exposure to new and innovative ideas for improving quality and lowering costs in our industry.

For 2019 summit, we are continuing the two days with fifty plus booths in a new layout and adding a New Golf Tournament on October 4th. Free registration for attendees to the summit and any of the fifteen breakout sessions and four demonstration session.

The food trucks will return for convenient lunch purchase both days for attendees. Free coffee and water will be served also.



October 2nd & 3rd



October 2nd & 3rd



October 2nd

Conference Open: October 2nd and 3rd 8:00– 3:00pm

Location: 663 Ken Pilkerton Dr, Smyrna, TN 37167

Registration Open!

2019 Nissan Manufacturing Innovation Summit

Golf Tournament Oct 4th

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The Nashville Chapter of SME invite you to participate in this **First Annual Fall Golf Outing** at Old Fort Golf Club in Murfreesboro.

Registration is limited to the first 100 players.

[2019 SME First Annual Fall Golf Outing](#)

All proceeds from this event will fund the SME43 Scholarship Foundation that provides financial support to deserving students attending Colleges and Universities. Come out to the Old Fort Golf Club to knock the dust off the clubs.

The following will be included in the registration fee: Green Fees, Breakfast, Lunch, Range Balls and many opportunities to win various door-prizes and competitions.

*Mulligans \$20

*Putting Contest \$10

Schedule:

7:00 am Registration

8:30 am Shotgun Start - Scramble Format

1:00 pm Lunch, Networking, Award Ceremony

NISSAN EMPLOYEES ONLY: Contact Rachel Hall for Discount Code

Golf Tournament: Oct 4th

Location: 1028 Golf Lane, Murfreesboro, TN 37129

Registration Open!

2019 Nissan Manufacturing Innovation Summit

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Summit Schedule:

Wednesday (October 2nd, 2019)

7:30am	Visitor Check-in Begins
8:00am	Summit Open
8:00am – 8:05am	Opening Comments Room 204
8:05am–8:15am	Welcome
8:15am–8:45am	Keynote Speaker
8:00am–3:00pm	Booths Open
2:00pm	Best Booth Award Announced
3:00pm	Summit Closed

Vendor booths will be set up throughout TCAT. Throughout the event, the attendees will be asked to choose a booth that is most memorable. Pick up voting card at registration table.

Thursday (October 3rd, 2019)

7:30am	Visitor Check-in Begins
8:00am – 3:00pm	Booths Open
9:00am - 2:00pm	Breakout sessions
3:00pm	Summit Closed

Friday (October 4th, 2019)

Golf Tournament

Conference Open: October 2nd and 3rd 8:00– 3:00pm

Location: 663 Ken Pilkerton Dr, Smyrna, TN 37167

Welcome Keynote Speaker

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Dr. David James Urban

Dean,
Jones College of Business,
MTSU

Dr. David J. Urban became Dean of the Jennings A. Jones College of Business at Middle Tennessee State University in July 2013. He previously served for 24 years in the School of Business at Virginia Commonwealth University (VCU), where he held several different faculty and administrative positions.

Dean Urban received a B.S. in Commerce from the University of Virginia, and both an A.M. in Psychology and a Ph.D. in Business Administration from the University of Michigan--Ann Arbor.

Dean Urban's business and marketing background includes duty as an officer in the U.S. Navy Supply Corps. He has engaged in training or research assignments with numerous corporate, government and nonprofit organizations, and he is a charter recipient of the American Marketing Association's Professional Certified Marketer™ (PCM) designation. He recently completed a term as Chair of the Board of Directors for the Rutherford County (TN) Chamber of Commerce, and is the current Board of Directors Chair for the local United Way.

His expert comments have appeared over 400 times in electronic or print media, including outlets such as CNBC, Fox Business Network, Bloomberg Business Week, The Wall Street Journal, USA Today, Washington Post, New York Times, and Chicago Tribune. His main research interests are in customer satisfaction assessment, retailing, and distribution channel management. He has received 29 research grants from public and private organizations, and has published extensively in academic and professional journals.

In addition to being a certified Dale Carnegie® Trainer, Dean Urban has won eight national awards for teaching excellence, and has been inducted into four different national honor societies. In 2017, on behalf of the Jones College, he received the Dale Carnegie® Global Leadership Award in recognition of the college's leadership in human relations and community development.

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Location: 663 Ken Pilkerton Dr, Smyrna, TN 37167

Vendor Booths

Exhibitor	Booth	Exhibitor	Booth
Advanced Control Solutions	17, 18, 19	Mighty Lube Systematic Lubrication, Inc.	44
Advanced Engineering Inc.	10	MiR Robots	20
Amazon Web Services	23	Mitsubishi Electric Automation	35
ATN Hoelzel LP	42	Nashville Made	14
ATS Applied Tech Systems LLC	54	NavVis	40
C & E Advanced Technologies, Inc.	37	Nikon Metrology, Inc.	45
Camtech Manufacturing Solutions	29	Perceptron, Inc.	30
Centro, Inc.	33, 34	Precision Metalforming Association	15
Cognex	50	Rockwell Automation	48
Coherix	31	Seifert Technologies, Inc.	24
Digital Acceleration Office	2	Senseye	52
ESI	7, 8	Siemens Digital Industries	38
FANUC AMERICA	5, 6	Sight Machine	39
FlexSim Software Products, Inc.	12	SMC CORPORATION OF AMERICA	41
Fusion3 3D Printers	28	SME	13
Georgia Tech Professional Education	36	Sumitomo Drive Technologies	47
JR Automation	22	Surgere, Inc.	46
Keyence Corporation	26	Symbio Robotics, Inc.	27
KYZEN	51	TABLEAU Software	3
Kuecker Logistics Group	1	TAMA	16
LEONI EPS, Inc.	32	TriMech	49
MachineMetrics	43	Troax	21
MEAD Electronics	53	VRSI	4
Measuring Solutions	25	Zebra Technologies	9
Microsoft Corporation	11		

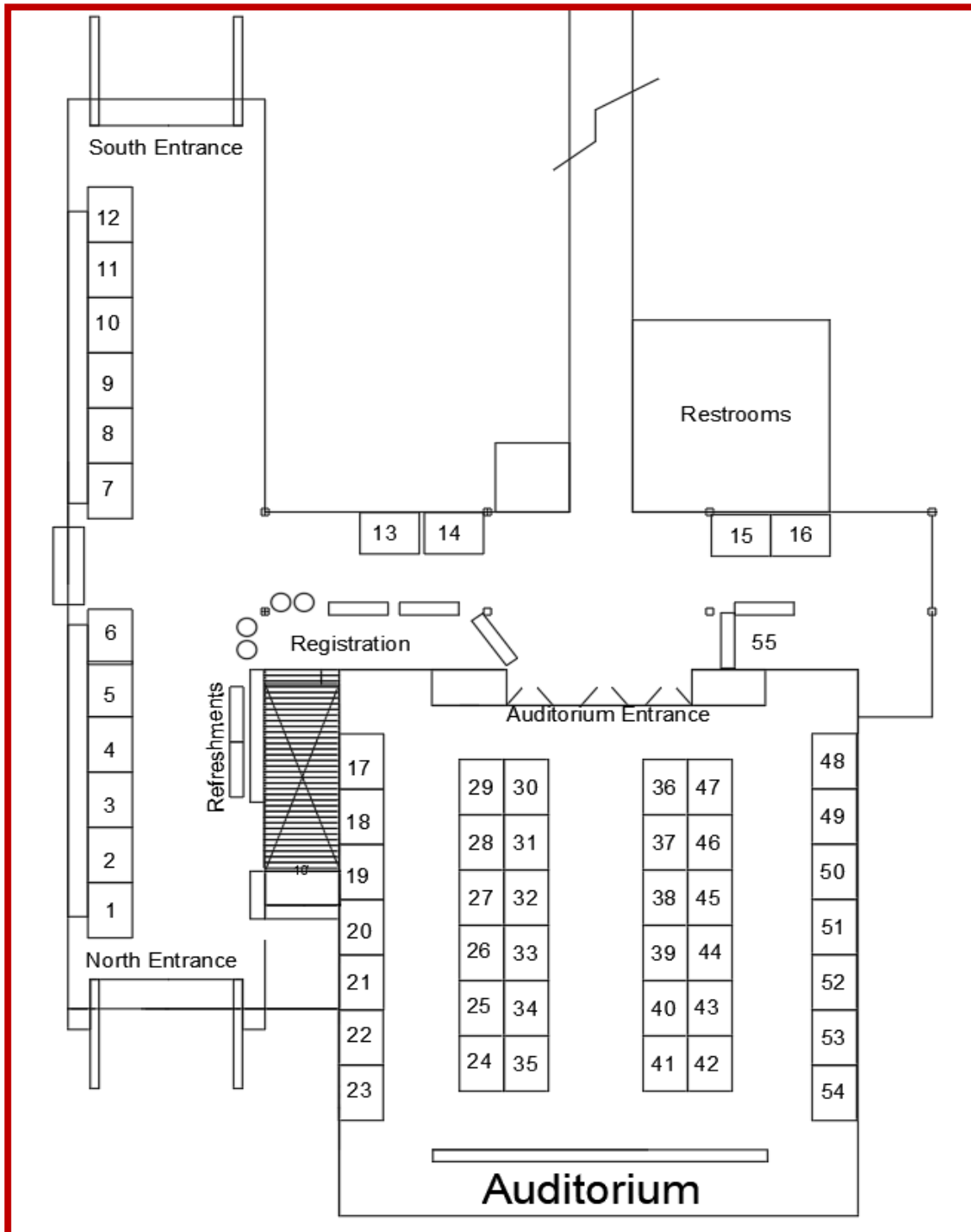
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Location: 663 Ken Pilkerton Dr, Smyrna, TN 37167

Booth Layout

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First Floor Summit Layout



Conference Open: October 2nd and 3rd 8:00– 3:00pm

Location: 663 Ken Pilkerton Dr, Smyrna, TN 37167

Register for Sessions!

**2019 Nissan Manufacturing
Innovation Summit
October 3rd, 2019 ONLY**

Breakout Sessions - Room 204:

Tableau	9:00– 9:50 am
FANUC America	10:00-10:50 am
Nissan/Tableau	12:00 -12:50 pm
Advanced Control Solutions	1:00-1:50 pm
Tableau/Nissan	2:00 - 2:50 pm

Breakout Sessions - Room 206:

Senseye	9:00– 9:50 am
ESI	10:00-10:50 am
ESI	1:00-1:50 pm

Breakout Sessions – Room 208:

Zebra Technologies	9:00– 9:50 am
Perceptron, Inc.	10:00-10:50 am
Amazon Web Services	12:00 -12:50 pm
Advanced Engineering, Inc.	1:00 - 1:50 pm
Georgia Institute of Technology	2:00 - 2:50 pm

Demonstrations – Room 213:

Coherix	9:00– 10:00 am
FlexSim Software Products, Inc.	10:30-11:30 am
NavVis US, Inc.	12:30 –1:30 pm
Staco Energy Products	2:00 - 3:00 pm



Register for Sessions!

2019 NMIS

October 3rd, 2019 ONLY

Breakout Sessions - Room 204:

Tableau	9am	Ethan Rice
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Common Dashboard Mistakes / Visual Best Practices

In this session we will go through common mistakes people make when building dashboards and strategies for fixing those mistakes. We will also go through a variety of dashboards to show how visual best practices can take a good dashboard and make it great. This presentation will be interactive and participation is encouraged.

FANUC America Corporation	10am	Art Glen & Mark Lohmeier
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What's New @ FANUC

What's new and exciting @ FANUC? New Products, New Features, New Functions, New Facilities. Mark Lohmier (FANUC CNC) & Art Glen (FANUC Robotics) will provide a FANUC Global and North American update on what's new with FANUC.

Nissan	12 pm	Michael Hedge
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Nissan Analytics and Collaboration Projects

This session will showcase the integration of Tableau into manufacturing workflows and connection with other business information systems.

Advanced Control Solutions	1 pm	Cale Harbour
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Collaborative Robots – Breaking down the automation barrier

Collaborative robots are changing the face of manufacturing worldwide by provide a safe, easy to program, quickly deployable and fast ROI to all types of manufacturing. This session will review the basics of what a collaborative application is, what applications provide quick results, and the steps necessary to consider when deploying and commissioning a Collaborative Robot"

Tableau/Nissan	2 pm	Ethan Rice/Michael Hedge
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Tableau Helpful Hints

This session will review a variety of tips, tricks, and features that will help you more quickly deliver a functional analysis tool.

Register for Sessions!

2019 NMIS

October 3rd, 2019 ONLY

Breakout Sessions - Room 206:

Senseye	9 am	Alexander Hill
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Achieving rapid ROI with Predictive Maintenance – Year 1 lessons at NNA

Predictive Maintenance is often first to mind for factory Digital Acceleration with the potential for rapid ROI through a dramatic reduction in unplanned downtime, however when performed at plant wide scale there are a number of things to carefully consider and plan in order to achieve best success. Senseye [together with NNA - TBC] will present & lessons-learned and results workshop from Year 1 of running PdM at a multi-plant wide scale – including how an ROI of <1 month was achieved.

ESI	(2) Sessions: 10 am & 1pm	Alan Arico
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Speed off the assembly line with Virtual Manufacturing

Achieve operational excellence – Simple enough – right?

The bar is high for OEMs as they endeavor to meet ever growing demand and market pressures. Because design sets the stage for manufacturing and service, it is critical for engineering teams to recognize the interactions of people with their proposed products and processes to assure ease of production, operation, and assembly.

Learn how industry is achieving digital transformation through virtual manufacturing. This breakout session will discuss how virtual manufacturing enables engineering teams to make better informed decisions early and ultimately realize significant reductions in costly late engineering change orders. ESI will also dive into in the use of virtual reality for immersive reviews to conduct Human-Centric Assembly and Maintenance Validations which can significantly reduce risks to operator safety, improve on time delivery, deliver repeatable quality, and ultimately improve product profitability.

Register for Sessions!

2019 NMIS

October 3rd, 2019 ONLY

Breakout Sessions – Room 208:

Zebra Technologies	9am	Eric Garland
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Digital Transformation at the Enterprise Edge

Zebra Technologies is an industry leader when it comes to helping enterprises gain digital visibility and insight at the leading edge of operations. Eric Garland, Director of Solutions Sales, will provide an overview and insights on some of the current trends within the manufacturing space as well as key solutions Zebra can deliver to enhance visibility, traceability, and overall asset intelligence within plant floor and warehouse environments.

Perceptron, Inc	10am	Jeff Boomer
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Automated Gap & Flush Measurement

Fit and Finish is the first indicator of a vehicles perceived quality, making it a focus area for nearly all Automotive OEMs. Integration of an automated Gap and Flush metrology system provides the objective data required to control the complex manufacturing processes related to the Fit and Finish. Discussion will include updates on the latest Automated Gap and Flush sensing technology and best practices for deploying the technology in the body shop and final assembly.

Amazon Web Services	12 pm	Ramesh Adabala
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Revolutionizing Manufacturing: Artificial Intelligence and Machine Learning

In this session, we will cover AWS cloud AI/ML capabilities for addressing common use cases in the automotive and manufacturing industry such as Optimization of supply chain and manufacturing processes (Industry 4.0), Forecasting of demand in supply chain / logistic, Predictive maintenance, etc... The key take-away from this session is a practical understanding of the Machine Learning & AI services at AWS [Lex, Polly, Rekognition, Amazon Machine Learning, SparkML, GPU instances, etc...]

Advanced Engineering, Inc	1 pm	Jim Neufeldt
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Under the Hood of Advanced Manufacturing- PLC's and Databases

This Presentation will look at how the manufacturing world has been merging PLC's and Databases to make the most advanced manufacturing systems. The winner in manufacturing is the one that best uses these two manufacturing tools together. We will touch on Scheduling, Recipe Download, Downtime (OEE), Traceability, SPC, Historians, Process analysis, IIOT, and Industry 4.0.

Georgia Institute of Technology	2pm	Dr. Chelsea White & H. Milton
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NextGen Supply Chains: Agile, Trusted, Digitized

Improved real-time information quality and analysis for real-time supply chain control will increase NextGen supply chain efficiency and will result from mining value from the ever-increasing velocity, volume, and variety of available and possibly noise-corrupted data. Trends affecting the design and operation of NextGen supply chains include: urbanization and urban supply chain stress; the need for greater supply chain agility due to rapidly shifting customer expectations, business trends, and geopolitical risks; supply chain digitization and cybersecurity risk; supply chain reconfiguration; automation; IoT and Blockchain; the impact of the Amazon effect on the evolution of the urban warehouse.

Register for Sessions!

2019 NMIS

October 3rd, 2019 ONLY

Demonstrations – Room 213:

Coherix

9 am

Dr. Zhenhua Huang

Structural Adhesive and Sealant Dispensing Process Control

Coherix's Predator3D™ bead inspection and process control system helps automotive manufacturers better deal with the real production variation from various sources to ensure the right amount of adhesive/sealant is applied at the right location for meeting product requirements such as vehicle safety, corrosion-resistance, water/oil seal. Its new process control capabilities can also help reduce production down time and operating expenses.

Flexsim

10:30 am

Bill Nordgren

Using Simulation Modeling and Analysis in Just-In-Time Job Sequencing

Accuracy is critical when sequencing jobs in a complex manufacturing environment. Many factors can cause sequence differences, such as the rework/defect of a part in the line, or even a missing or mismatched part. Simulation modeling and analysis can be an invaluable tool to understand exactly what is happening in your job sequences, and provides opportunities to test and improve sequencing in a risk-free virtual environment.

NavVis US, Inc.

12:30 pm

Richard Prosser

Digital Factory - Enabling Next Gen Manufacturing

Manufacturers leverage Digital Factory technology for modeling, communications and to operate manufacturing processes. It is often heavily used for Manufacturing Engineering, Layout & Line Planning, Equipment Relocation, Facilities Maintenance/Repairs and Factory Operations. NavVis provides a state-of-the-art solution that quickly captures a Digital Twin of the entire facility. The resulting data is easy to use via our browser-based virtual 360 degree walk through. It provides key functions such as precise measuring, routing and creating unique points of interest.

Staco Energy Products

2 pm

Barry Samuels

Power Quality Understanding & Trends

Are you responsible for maintaining uptime of equipment, processes or power systems? Attend this very informative session to learn about issues facing all North American manufacturing facilities in regards to power & power quality along with industry trends and fallacies.