AMERICAN MANUFACTURING SUMMIT 2019

MARCH 26–27, 2019
THE WESTIN LOMBARD YORKTOWN CENTER • CHICAGO, IL

manusummit.com

TOMORROW’S CONNECTION TODAY
Driving business performance through process and technological innovation

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✉️ info@generisgp.com

PROGRAM
PROGRAM

DAY ONE

* JOIN US FOR THE PRE-SUMMIT HAPPY HOUR ON MARCH 25 AT 6:00 PM - 7:00 PM

6:30 am – 7:30 am

REGISTRATION AND NETWORKING BREAKFAST

7:30 am – 7:35 am

CHAIR’S OPENING REMARKS

PROCESS OPTIMIZATION CHAIR

JAY DOUGLASS
COO

PEOPLE CHAIR

ALLISON GREALIS
President and Manufacturing Leader

INNOVATION CHAIR

JOHN K. RAUSCHENBERGER
EVP and General Manager

7:35 am – 8:10 am

KEYNOTE

REVIVING U.S. MANUFACTURING THROUGH DISRUPTIVE INNOVATION

- Taking a look at best practices, ecosystems and programs to increase manufacturing
- Examining at successful initiatives and lessons learned
- Capitalizing on advances in manufacturing technologies to ensure long-term growth
- How digital manufacturing will create opportunities to increase manufacturing
- Best practices to cultivate an ecosystem of research and development
- Ensuring the right level of investments in new tools and technologies to propel your organization forward

SUDHI BANGALORE
VP, Industry 4.0

8:10 am – 8:45 am

PLENARY

HOW CAN YOU APPLY ANALYTICS AND ARTIFICIAL INTELLIGENCE TO YOUR FACTORY TODAY?

- Discussing successes and failures of applying AI to the factory floor
- Tips for selecting low cost, high return projects
- Exploring industry best practices for using AI to generate new business models

JAYANT KALAGNANAM
Director, Enabling IoT and AI Technologies, and Chief Scientist, Industry 4.0

DAVID MEEK
Partner, Digital Operations Center of Competency, Internet of Things
8:45 am – 9:20 am

PLENARY
RESKILLING YOUR TEAM FOR THE DIGITAL AGE
• Examining how digitization and technological innovation are changing team skills
• Key strategies for reskilling your team across all corporate levels
• Empowering your team through cross-training
• Preparing for the digitization of manufacturing by cultivating an agile IT organization
• Balancing volume and velocity within your organization by optimizing internal resources

JAMES YUAN  
Senior Director, Computational Intelligence  
PEPSICO

SIMON YEUNG  
SVP, R&D  
PEPSICO

9:20 am – 9:55 am

PLENARY
INDUSTRY 4.0: BUILDING A BETTER FUTURE FOR MANUFACTURERS
• Driving the evolution of the industrial world through digital transformation
• Empowering your team to work more productively by streamlining processes
• Generating new revenue streams by increasing competitiveness
• Creating customer value by fostering a culture of innovation
• Achieving global collaboration goals with an agile and always-connected work environment

MICHAEL WALTON  
Director, Industry Solutions Executive, Discrete Manufacturing  
Microsoft

10:00 am – 11:40 am

PRE-ARRANGED 1-2-1 NETWORKING AND REFRESHMENTS

11:45 am – 12:20 pm

WORKSHOP
PROCESS-BASED LEADERSHIP® TACTICAL PROCESSES FOR SUSTAINABLE STRATEGY EXECUTION
• Driving business acumen that allows colleagues to answer the question - “Are we winning or losing?”
• Having communication cadence that puts leaders on the offense, not defense
• Implementing an execution system that makes accountability visible, personal and measurable
• Moving engagement from an abstract conversation to a measurable process of ownership
• Integrating strategy into an onboarding system that promotes a - "welcome to our team, this is how we do business" - attitude

SHANE A. YOUNT  
President  
Competitive Solutions Inc.

WORKSHOP
WHAT IS THE CURE FOR YOUR APQP/PPAP HEADACHES?
• Examining TPT’s new Advanced Product Quality Planning (APQP) and Production Part Approval Process (PPAP) SaaS software application
• How companies struggle with day-to-day management and OEM-driven requirements
• Exploring Q-Pro and how it aids in supporting your OEM-driven APQP/PPAP requirements
• Demonstrating the benefits of Q-Pro vs. the current state technology

MANISH MATHUR  
TPT Technology Director

FRANS CRONJE  
CEO and Co-Founder  
dataprophet  
machine learning specialists
12:25 pm – 1:00 pm

PLENARY

INDUSTRY 4.0: HOW BRILLIANT FACTORIES ARE RESHAPING THE FUTURE OF MANUFACTURING

- Discussing factory operational efficiency and what it means today
- Exploring practical applications of autonomous vehicles, robotics, predictive maintenance analytics and data visualization
- Overcoming challenges to implementing Industry 4.0 tools and what GEA is doing to address it
- Improving the STEM pipeline, closing the skills gap and keeping up with the rapid pace of technology change

ROB WILLY
Executive Director, Advanced Manufacturing

1:05 pm – 2:05 pm

LUNCH & LEARN ROUNDTABLE DISCUSSIONS

HOW COLLABORATION YIELDS SUPERIOR FACILITY DESIGN: OPTIMIZING PLANNING, PROCUREMENT AND IMPLEMENTATION MANAGEMENT

Mike Noll
Director, Manufacturing and Distribution Systems

THE MODERN DESIGN ORGANIZATION: PROCESSES AND TOOLS

Jon Hirschtick
Co-Founder and CEO

Onshape

CREATING A MODERN DIGITAL ECOSYSTEM FOR END-TO-END GLOBAL CONTENT DELIVERY

Dean Berg
Strategic Account Director

Michael Walton
Director, Industry Solutions Executive

ARTIFICIAL INTELLIGENCE FOR MANUFACTURERS

Frank Crnic
North America Business Unit Executive

INNOVATIVE ERGONOMIC, SAFETY AND 5S SOLUTIONS FOR THE FAST-PACED WORKFORCE

Claus Lendal
CEO

ERGOMAT

HOW AI AND BLOCKCHAIN ARE CHANGING THE SUPPLY CHAIN

Frank Crnic
North America Business Unit Executive

IIOT AND ADVANCED ANALYTICS

Greg Schmidt
Information Solutions Sales Executive

DIGITIZE YOUR WORKERS DAY WITH AUGMENTED REALITY AND WEARABLES: DEPLOYMENT EXAMPLES AND BUSINESS OUTCOMES

Dan Flynn
VP, North American Sales

Mark Lilly
President and CEO

LillyWorks
**WORKSHOP**

**DIGITIZING THE SUPPLY CHAIN: USING SMART DATA TO DRIVE BUSINESS OUTCOMES**
- Surfacing gaps in the supply chain in time to develop mitigation strategies
- Visibility to create a robust S&OP process
- Promoting supplier collaboration and customer satisfaction

_Rick Diefenderfer_
Partner

cgn

**AN EXECUTIVE DISCUSSION ON EXCEPTIONAL MANUFACTURING PERFORMANCE AND QUALITY**
- Using a system-based performance management methodology to move past compliance to assurance
- Discerning between popular trends and the real tools that will define the next jump in manufacturing productivity
- Cascading the business strategy into financial and operational results

_Phil McIntyre_
Senior Director, Business Development

**INTEGRATING WORKFORCE AUTOMATION INTO YOUR CONTINUOUS IMPROVEMENT STRATEGY**
- Increasing efficiency by automating manual employee scheduling processes
- Reducing labor and manufacturing costs, while increasing productivity and reducing downtime
- Improving the alignment of your human capital with changing production demands
- Increasing compliance while reducing employee complaints and union grievances
- How workforce automation generates immediate and quantifiable ROI

_Sachin Agrawal_
VP, Product and Process Innovation

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**PROCESS OPTIMIZATION**

**SHAPING YOUR MANUFACTURING CULTURE: THE SHINGO MODEL**
- Delivering sustained improvement that can consistently deliver new levels of success
- Understanding what other process improvement practitioners have done to make notable improvements in their organizations
- Driving best in class assessment activities to provide strong assessment and accountability

_Shawn Barker_
Director, Operations and Assessments

**PEOPLE**

**HOW DIGITAL IS REDEFINING CUSTOMER AND OEM VALUE**
- Why are industrial companies seeking new ways to avoid production interruptions?
- Predicting preventive maintenance and ensuring facility uptime to maximize the bottom line
- Examining three critical ways remote monitoring can help identify plant maintenance issues and get you greater uptime in your facility
- Raising the bar on uptime, plant energy efficiency and total cost of ownership of systems
- Enabling first-trip issue resolution from identifying leaks to full system assessment
- Ensuring your facility is efficient and reliable

_Rolf Paepер_
VP, Product Management

**INNOVATION**

**HOW TO ENSURE HOLISTIC PRODUCT AND PROCESS INNOVATION IN YOUR ORGANIZATION**
- What techniques and toolkits can help deliver core operational and technological improvements?
- Operating in a bi-modal eco-system by leveraging legacy technology and digital transformation toolsets
- Working across departments to align on strategy and build confidence in the ability to execute on a plan
- Focusing on big picture transformation vs. siloed efforts
- Creating streamlined processes and building high performing teams
- Leveraging IoT, Big Data and Robotics Process Automation
- What’s next?: Measuring success and continuously looking for areas of improvement

_Niraj Krishna_
VP, Product and Process Innovation

_CVS Health_

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3:30 pm – 4:05 pm

WORKSHOP
UNLOCKING THE VALUE OF MANUFACTURING DATA FROM THE SHOP FLOOR TO THE TOP FLOOR WITH IIoT
- Increasing productivity of engineers and analysts
- Leveraging advanced analytic capabilities and machine learning for root cause analysis and forecasting
- Improving quality and reducing cost with predictive maintenance
- Driving better investment decisions

ERIK LAUBACHER
VP, IIoT
SIGHTLINE SYSTEMS

WORKSHOP
RELIABILITY AT SCALE: EXAMINING THE IMPACT OF A FULL FACILITY ROLL-OUT AND ITS IMPACT ON THE BOTTOM-LINE
- Utilizing modern technology to track the health of machines in real time, in a scalable manner
- Case study: The journey to rolling out an IoT solution at full-scale
- Taking actions on recommendations and assessing the impact on the facility level
- Overcoming potential road-blocks and selecting the right technologies to overcome them
- Putting together a ROI for the program

ARTEM KROUPENEV
VP, Strategy

MARK SIMS
VP, Strategy

4:10 pm – 5:30 pm

PRE-ARRANGED 1-2-1 BUSINESS MEETINGS AND HAPPY HOUR

5:35 pm – 6:10 pm

PLENARY
HOW THE SCOTTS MIRACLE-GRO COMPANY IS UTILIZING IOT AND THE CLOUD TO HELP MEASURE AND MONITOR MANUFACTURING PROCESSES
- Discussing the need to monitor temperature regulation in products to ensure product standards and production EHS
- Examining initiatives and steps created by production and IT teams to streamline product data collection and management
- Utilizing IoT and Cloud technology to increase efficiency and effectiveness
- Enhancing visualization and advanced simulation: Simulation and the Digital Twin
- Lessons learned in creating a digital process and utilizing new IT systems for production management
- What’s next?: Exploring the next steps to enhance manufacturing through digital teams at Scotts Miracle-Gro

MARK SIMS
VP, Strategy
SCOTTS MIRACLE-GRO
CLOSING KEYNOTE
THE #1 SKILL SET FOR FUTURE SUCCESS IS CREATIVITY: WHAT IT IS, WHAT IT LOOKS LIKE AND HOW IT CAN DRIVE YOUR BUSINESS?

- What is rapidly emerging as the most valued skill by business leaders today?
- Discussing why creativity at the forefront of key strategies
- Examining "The 4 Cs" essential to 21st-century skills:
  - Communication
  - Collaboration
  - Critical thinking
  - Creativity
- Case study: Showcasing business leaders from the creative vs. non-creative companies
- How to foster a creative environment
- Why trust is a major driver of creativity alongside freedom, openness and safety

CHAIR’S CLOSING REMARKS

PROCESS OPTIMIZATION CHAIR
JAY DOUGLASS
COO

PEOPLE CHAIR
ALLISON GREALIS
President and Manufacturing Leader

INNOVATION CHAIR
JOHN K. RAUSCHENBERGER
EVP and General Manager

NETWORKING DRINKS RECEPTION
PROGRAM DAY TWO

7:00 am – 8:00 am

NETWORKING BREAKFAST
WOMEN IN LEADERSHIP ROUNDTABLE
Enjoy breakfast refreshments and informal networking in the Exhibition Hall. We also invite our attendees to network at a Women in Leadership Roundtable with discussion from inspirational leaders in manufacturing, operations, engineering and supply chain. Seating is limited, so please sign up early.

NICOLE BARRICK
Director, Global Manufacturing

CHRISTIE CALLAHAN
VP, Process Innovation

DONEEN MCDOWELL
Executive Director, Manufacturing

KATIE DAVIS
VP, Engineering Excellence

ANA LOPEZ
VP, Manufacturing, CSS Medical Devices

ALLISON GREALIS
President and Manufacturing Leader

BREAKEFAST BRIEFS

DIGITAL TRANSFORMATION IN MANUFACTURING

DAIN MCCRACKEN
Director, Manufacturing Vertical

SAMSUNG

SMART CARTS FOR INDUSTRY 4.0

PER AUGUSTSSON
Founder and CTO

FLEXQUBE

DIGITAL TRANSFORMATION IN MANUFACTURING

DAIN MCCRACKEN
Director, Manufacturing Vertical

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Director, Manufacturing Vertical

SMART CARTS FOR INDUSTRY 4.0

PER AUGUSTSSON
Founder and CTO

FLEXQUBE

8:00 am – 8:05 am

CHAIR’S OPENING REMARKS

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PEOPLE CHAIR

ALLISON GREALIS
President and Manufacturing Leader

INNOVATION CHAIR

PATRICK OSBORNE
VP, Training and Education
8:05 am – 8:40 am

KEYNOTE
MAKING MANUFACTURING A PREMIER CAREER CHOICE AS THE NEXT INDUSTRIAL REVOLUTION UNFOLDS
• Attracting, developing and retaining the manufacturing workforce of tomorrow
• Exploring the impact of Industry 4.0, robots, automation, etc.
• Why this is not your grandfather’s manufacturing and why that matters
• Overcoming the skills gap
• Fostering local community, utilizing high school and college partnerships to succeed

ANNIE MONYOK  
Head, Human Resource Development, Occupational Safety & Health, thyssenkrupp Presta Danville, LLC

TOM WARNER  
CEO, thyssenkrupp Presta Danville, LLC

8:40 am – 9:15 am

PLENARY
DRIVING QUALITY AND EFFICIENCY: ENSURING CAPACITY FOR GROWTH, GLOBAL SAFETY AND SECURITY
• Building flexibility and efficiency into our manufacturing processes
• How do we use innovation in our manufacturing processes and supply chain to benefit the entire organization?
• Key drivers of innovation in the supply chain
• Best techniques for managing relationships in your production network
• Advancing mobile technology at The Coca-Cola Company from the boardroom to the front lines

SARVI BAJWA  
VP, Supply Chain Operations, NE Region

9:15 am – 9:50 am

PLENARY
LEADING MANUFACTURING TEAMS AROUND THE WORLD
• Leveraging plant optimization to build capability
• Sharing best practices to engage and enable employees
• Growing in emerging markets
• Communicating consistently and effectively across the organization

TIM FROSELL  
VP, Global Manufacturing and EHS&S

9:55 am – 11:15 am

PRE-ARRANGED 1-2-1 BUSINESS MEETINGS AND REFRESHMENTS
WORKSHOP
OPTIMIZING MANUFACTURING THROUGHPUT AND LEAD TIME THROUGH PROCESS SYNCHRONIZATION AND AGILE PLANNING AND SCHEDULING
• Discussing synchronized planning and scheduling, including master production schedule and synchronized material requirement
• Examining the business and operational challenges prior to the deployment of ORTEMS
• Reviewing deployment methodology and change management approaches
• Demonstrating dramatic improvements in throughput, lead time and identification of plant bottlenecks
• Case study: Using ORTEMS planning and scheduling to optimize manufacturing throughput and lead time of an air conditioning unit plant

YASSER ALKAZZAZ, PH.D.
Global Practice Director

WORKSHOP
MICROLEARNING: MODERN TRAINING FOR MODERN MANUFACTURERS
• Looking at disruptive technologies are revolutionizing manufacturing and supply chain operations
• Reaping the benefits of digital transformation, leaders must ensure that their workforce evolves in sync with the business
• Why traditional training programs aren’t capable of keeping up with digital operations
• How microlearning is a modern approach to training that leverages cutting-edge machine learning, mobile and big data analytics
• Delivering personalized training that makes sure employees remember to do the things that matter most to your business
• Discovering how microlearning can help you drive operational excellence and bottom-line results

BOB GLOWIENKE
SVP, Sales

WORKSHOP
SIMPLE AND EFFECTIVE APPROACHES TO INCLUDE LEGACY EQUIPMENT AS PART OF YOUR INDUSTRY 4.0 STRATEGY
• Debunking the “myth” of legacy technology not fitting into an Industry 4.0 strategy
• Connecting legacy systems to Industry 4.0 deployments as an alternative to upgrading or purchasing new capital equipment
• Quality over Quantity: Effective data that can enhance productivity coming from legacy technology
• Case study: Examples of successful legacy system connectivity

RYAN LEGG
VP, Industrial Solutions

PLENARY
AN OUTLINE OF KEY FACTORS AFFECTING THE OPTIMIZATION OF COMPLEX MANUFACTURING OPERATIONS
• Optimizing your bottom line by examining and monitoring key factors that affect your business goals of growing revenue and cutting cost
• Addressing increased competition from emerging markets Managing complex supply chains and volatile costs of raw material
• Navigating compliance requirements
• Examining innovative production processes to surface errors in the supply chain and distribution channels
• Minimizing cost and maximizing flexibility by finding the harmony in value stream complexity

ELAINE THIBODEAU
VP, Vision Surgical Manufacturing

11:20 am – 11:55 am

12:00 pm – 12:35 pm
12:40 pm – 1:15 pm

WORKSHOP
DISRUPT OR BE DISRUPTED: NAVIGATING YOUR IOT DIGITAL TRANSFORMATION JOURNEY TO MITIGATE RISKS AND DELIVER ROI
- Implementing IoT in a pragmatic thin layered approach to deliver ROI
- Addressing the obstacles of infrastructure, connectivity, skilled labor and end-user requirements
- Integrating people, data, things and processes to drive accountability and action
- Transforming factories to be as smart as the people operating them

NICK MARCHIOLE
VP, Sales

WORKSHOP
SMART MANUFACTURING: A NEW FRONTIER FOR INNOVATION, INDUSTRIAL IOT AND AUGMENTED REALITY
- Increasing productivity, flexibility and safety – all while reducing costs
- Discovering the benefits of the smart factory
- Redefining the way products are manufactured and serviced and creating new levels of worker productivity
- Demonstrating the ROI of digital transformation

JUSTIN HESTER
Director, Digital Transformation

WORKSHOP
CASE STUDY: KENNAMETAL’S INTELLIGENT ENTERPRISE TRANSFORMATION
- Experiencing promise, pitfalls and performance on the road to modernization
- Establishing a digital customer experience, new generation of workers, factory automation and IoT/Cloud technologies
- Examining a game-changing move from a ‘smart factory’ mission to a ‘connected enterprise’ strategy
- Accelerating progress through partnerships with Microsoft, SAP, PTC, Rockwell Automation and eLogic to enable access to scarce resources and increase speed-to-value
- Demonstrating value and results through innovation platforms, Operational Excellence and actionable insights

THOMAS MCKEE, JR.
VP and CIO
KENNAMETAL

MIKE SHIELDS
Founding Partner and Industry Strategist
eLogic

1:20 pm – 2:20 pm

LUNCH & LEARN ROUNDTABLE DISCUSSIONS

HOW TO PREPARE YOUR SHOP FOR THE FUTURE OF MANUFACTURING: TOOLS, TECHNOLOGY AND TALENT
- JIM RINK
  Plant Manager, Advanced Components Manufacturing

ENHANCING YOUR ORGANIZATION’S OPERATING EFFICIENCY AND OPERATIONAL EXCELLENCE
- BRAD HUNT
  VP, Operations Support
  ADM

SUCCESSION PLANNING: SUPPORTING, PROMOTING AND INSPIRING WOMEN IN MANUFACTURING
- ALLISON GREALIS
  President and Manufacturing Leader

SUSTAINABILITY PROGRAMS: HOW TO SUCCESSFULLY LAUNCH YOUR SUSTAINABILITY INITIATIVE
- JIM GILDEA
  Director, Manufacturing

DRIVING BUSINESS RESULTS AND CLOSING COMPETENCY GAPS THROUGH LEADERSHIP DEVELOPMENT
- NATALIE MITCHELL
  Zone AMS Leadership Development Pillar Leader

LEADING TALENT DEVELOPMENT INITIATIVES IN MANUFACTURING AND SUPPLY CHAIN OPERATIONS
- CHAVIS FERGUSON
  VP, Operations
  COAST
corp

LEVERAGING LEAN SIX SIGMA METHODOLOGY TO DRIVE DRAMATIC QUALITY AND COST IMPROVEMENTS: A SMALL BUSINESS PERSPECTIVE
- Ramin Zarrabi
  VP Manufacturing
  REYCO GRAMMING

BEST TECHNIQUES FOR CONTROLLING OPERATING COSTS AND DRIVING EFFICIENCIES THROUGH LEAN
- GREGG BARAN
  Director, Sink Manufacturing
  ELKAY

2:25 pm – 3:00 pm

PLENARY
TURNING PASSION INTO PROFIT: THE TRANSFORMATION JOURNEY THAT CAN DRIVE EXCELLENCE
• Establishing a vision of change that drives sustainability and allows breakthrough performance
• Creating a quality culture of operational excellence that generates cost savings and boosts productivity
• How behaviors can unleash the potential of your business

SALVADOR MONTES
VP, Manufacturing Operations
Fender

3:00 pm – 3:35 pm

PLENARY
HOW TO ADAPT TO THE IMPACT OF TRADE WARS: TARIFFS AND NAFTA
• Tariffs and NAFTA/USMCA: Actual and projected changes
• Examining impacts on corporations and the economy
• Corporate strategies to optimize under current and expected regulations
• Exploring policy alternatives to tariffs

HARRY MOSER
Founder and President
Mastering Initiative

3:35 pm – 4:20 pm

PANEL DISCUSSION
BUILDING THE MANUFACTURING DREAM TEAM: PRACTICES FOR FINDING, KEEPING AND GROWING FUTURE MANUFACTURING LEADERS
• How does your organization train and empower the next generation of manufacturing leaders?
• Harnessing the power of your organization’s most valuable resource - people
• Seeing development and retention of talent as vital for achieving long-term success
• Utilizing people, processes and technologies to enable better decision-making
• Discussing new technologies and collaborative business models to achieve greater speed to market and increased operational performance

JENNIFER WEISS
Manager, MDI Continuous Improvement
MCB

PATRICK STAGGS
Manager, Area Manufacturing
CROWN

DAVID SMITH
Global Director, Order Fulfillment
John Deere

MICHAEL MUILENBURG
Manager, Operational Technology and Strategic Planning, Film & Materials Resource Division
3M

SCOTT CROUTHAMEL
Senior Manager, Manufacturing
BorgWarner

JENNIFER WEISS
Manager, MDI Continuous Improvement
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MICHAEL MUILENBURG
Manager, Operational Technology and Strategic Planning, Film & Materials Resource Division
3M

SCOTT CROUTHAMEL
Senior Manager, Manufacturing
BorgWarner

4:20 pm – 4:25 pm

CHAIR’S CLOSING REMARKS AND SURVEY DRAW PRIZE GIVEAWAY

PROCESS OPTIMIZATION CHAIR
JAY DOUGLASS
COO

PEOPLE CHAIR
ALLISON GREALIS
President and Manufacturing Leader

INNOVATION CHAIR
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