



SCHEDULE & DISPATCH
TRACK & TRACE

DOCUMENT CONTROL

CAPACITY PLANNING

DYNAMIC SCHEDULING

ENERGY CONTROL

ORDER MANAGEMENT

MACHINE COMMUNICATION

Agenda

**Subject to Change*

3rd Smart Factory World Symposium
Manufacturing 4.0: Rules
October 26, 2017 in Chicago | @DMDII



Why Register?



Mohamed Abuali, PhD.
Managing Director Americas
FORCAM, Inc.

The rules for manufacturing are changing.

Every day in plants around the world, workers are using data as a tool to obliterate downtime and drive productivity. The silos that separated the Information Technology and Operations departments are being razed, and are being replaced by bridges and tunnels to connect data with the people who need to use it.

The new rules of Manufacturing 4.0 recognize the opportunity provided to plant leaders.

Knowing with certainty the operational state of your equipment and having the power to open bottlenecks and avoid breakdowns gives manufacturing visionaries from the corner office to the line worker the power to change their operations.

It is here, however, where the real rules will change in manufacturing.

If we give our maintenance personnel everything they need to analyze, assess, repair, and replace equipment, we must also give them the power to make these decisions and the confidence their decisions will be supported. We must also train them thoroughly in how to make these choices and how those choices affect not just operations, but also the entire enterprise.

The technology around Manufacturing 4.0 works. The connective nature of data, the explosive growth of analytics, and cloud computing's availability have opened new avenues for manufacturers to find out exactly what's happening in their facilities.

Instead of pushing people out of the process, however, these new manufacturing rules require—INSIST—that our workers own the state of their plant and are ready to improve every aspect of their operation with their skill and knowledge.

That's why I believe the most important part of Manufacturing 4.0 cannot be found in a sensor or on a data screen.

The real key is people.

They must be the catalysts for change in manufacturing worldwide if we are to achieve the levels of efficiency, productivity, energy management and above all, safety, that Manufacturing 4.0 can provide.

Maintenance will be the first area of manufacturing that will be affected by Manufacturing 4.0, and it is the place where I believe we have the greatest potential for change, and for cost savings.

The Shop Floor will make the Top Floor look so good—IF we provide the Shop Floor with the tools they need, the training they require and the confidence they deserve to take this exciting new age in manufacturing and turn it into the revolution we've heard so much about. ■

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**The Rules for Manufacturing are Changing.
Empower your Team.**

Event Host The DMDII



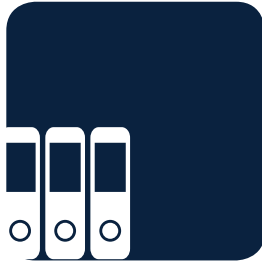
Join the DMDII
Membership

The DMDII is revolutionizing manufacturing by applying best-practices across the product life cycle and establishing effective industry-academia-government partnerships



Place

Manufacturers can experience new, cutting-edge digital manufacturing products that they can use to improve productivity and profitability



Source

Relationships with other manufacturers and technologists to work together to identify and solve problems and create new business opportunities



R&D

Companies can pool resources to develop and prove-out new technology solutions



Demo

Where manufacturers can see and try new, cutting-edge digital manufacturing products to improve productivity and profitability at their own facilities



Training

Interested individuals or manufacturing employees can test drive and learn how to use the latest digital technologies through consulting services, classes and workshop

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The biggest surprise: The “real numbers” on shop productivity and machine utilization were not as high as managers thought. “We figured that our machines were cutting metal about 50% or so over two shifts. It was more like 40% when monitoring first started. It is now higher than 55% and climbing.

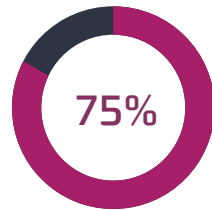
Bill Metz, Vice President Operations at Richards Industries

FORCAM Events

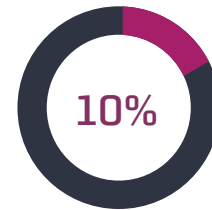
FORCAM's Smart Factory World Symposium aspires to become North America's leading event for Smart Manufacturing and Operational Excellence. Each year, over 200 guests from manufacturing, politics, academia and research congregate to discuss latest Industrial Internet of Things (IIoT) trends and developments for the Smart Factory.

Whether you're new to smart manufacturing, or an expert on shop floor digitization - this is the place to be to pick up on new trends and insights to achieve operational excellence in manufacturing.

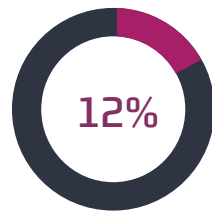
Attendee Statistics



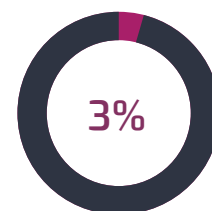
Manufacturing



Institutional



Partner / Service



Media

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Strategically, the biggest risk of NOT having FORCAM's Shop Floor Management Technology is that we would be out performed by our competitors.

*Martin Thorden, President
GKN Aerospace Newington*

Master of Ceremony

Bob Vavra

Content Manager

CFE Media / Plant Engineering



Bob Vavra is the editor of Plant Engineering magazine since 2005, a role that has allowed him to cover the rise and fall and rebirth of manufacturing in the U.S. and around the world.

He has been a journalism professional for more than 40 years, including 25 years in the newspaper industry. In his career in trade publishing, Bob has covered such industries as retail petrol, retail grocery and safety. He is the producer of CFE Media's Global Automation and Manufacturing Summit, and he has helped coordinate U.S. press coverage of President Obama's visit to Hannover Messe in 2016.

In his spare time he enjoys golf, travel and fantasy sports, and his only other claim to fame is a 2002 appearance as a contestant on Jeopardy.

Agenda

07:45 - 08:30 AM Registration & Continental Breakfast

08:30 - 08:45 AM Welcome Notes & Introduction Master of Ceremony

Presenter: Mohamed Abuali, Ph.D., Managing Director at FORCAM, Inc. Americas
Master of Ceremony: Bob Vavra, Content Manager at CFE Media / Plant Engineering

08:45 - 09:05 AM Opening Keynote: The Role of the DMDII for North American Manufacturing

Presenter: Tom McDermott, Executive Director, DMDII Chief Program Officer at UI LABS

09:10 - 09:30 AM Keynote: The Opportunities and Challenges of Manufacturing 4.0 | IIoT

Presenter: David R. Brousell, Co-Founder Manufacturing Leadership Council, Frost & Sullivan

09:35 - 10:05 AM Ask the Expert: Is American Manufacturing still Competitive?



Moderator: Bob Vavra, Content Manager at CFE Media / Plant Engineering
Automotive Expert: John Fleming, Executive VP Manufacturing & Labour Affairs Ford Motor Co. (retired)
Aerospace Expert: Dean Bartles, Ph.D., Director at John Olson Advanced Manufacturing Center University of New Hampshire

10:05 - 10:30 AM Break, Exhibition, Networking, DMDII Shop Floor Tours

10:30 - 11:30 AM **Panel: Lean Mindset - Digital Continuum of Automotive and Aerospace**



- Moderator: Bob Vavra, Content Manager at CFE Media / Plant Engineering
- Panelist: Jamison Rediehs, Director of Rexnord Business Systems (RBS) at Rexnord Aerospace
- Panelist: Mimi Hsu, Ph.D., Corporate Digital Manufacturing Lead at Lockheed Martin
- Panelist: Isaac Bennett, Global IT Innovation Manager at Moxion Wheels, a Division of Iochpe Moxion
- Panelist: Gary A. Silberg, Partner, National Sector Lead for the Automotive Industry at KPMG
- Panelist: Shahrukh Irani, Ph.D., President at Lean and Flexible

11:35 - 12:00 PM **Premium Partner Special: 60-Second Pitch**



- Moderator: Mohamed Abuali, Ph.D., Managing Director at FORCAM, Inc. Americas
- Exhibitor: Infor
- Exhibitor: JobsOhio
- Exhibitor: Predictronics
- Exhibitor: WAGO Corporation
- Exhibitor: Hannover Fairs USA

12:00 - 02:00 PM **Brief on Lunch Schedule: Manufacturing Workshop & DMDII Shop Floor Tours**

Master of Ceremony: Bob Vavra, Content Manager at CFE Media / Plant Engineering

12:10 PM **Lunch Time & Networking & Exhibition**

01:00 PM **Pre-Registered Only*: DMDII Shop Floor Tours**

Tour Guide: Kelley Patrick, Lead Manufacturing Engineer at the DMDII / UI LABS Collaboration

01:00 PM **Luncheon Manufacturing Workshop: Voice Your Rules for Manufacturing 4.0**

What are Your Rules for:

Table A

Topic: Change Management?

Table B

Topic: Regulatory Requirements?

Table C

Topic: Connectivity Questions?

Workshop Moderation

Lam Tse
John Mack
Wim Huijs
FORCAM Inc.

02:00 - 02:15 PM **Luncheon Manufacturing Workshop: Presentation of Findings**

Master of Ceremony: Bob Vavra, Content Manager at CFE Media / Plant Engineering

Manufacturing 4.0: Rules

02:15 - 03:00 PM



Live Demo and Q&A: Your Challenges in Production were Heard Digital Transformation for Manufacturing in North America

Moderator: Bob Vavra, Content Manager at CFE Media / Plant Engineering

Presenter: Mohamed Abuali, Ph.D., Managing Director at FORCAM, Inc. Americas

Presenter: Juergen Vischer, Head of Academy at FORCAM GmbH

03:00 - 03:30 PM

Break, Exhibition, Networking, DMDII Shop Floor Tours

03:30 - 03:50 PM

Keynote: Paving the Way to Manufacturing Success with Technology

Presenter: Mike Stone, Product Manager, EAM at Infor

03:50 - 04:20 PM



Ask the Expert: How can Manufacturing Unlock the Value of Data?

Moderator: Juergen Vischer, Head of Academy at FORCAM GmbH

Data Expert: Lloyd F. Colegrove, Ph.D., Data Services Director, Analytical Technology Center at The Dow Chemical Company

Data Expert: Porfirio Lima, CEO, Disruptive Technology Division at Metalsa (teamvoxel)

04:20 - 05:20 PM



User Panel: Strategies for Successful Digital Transformation

Moderator: Kimberley Hagerty, Associate Director Industry 4.0 Digital Manufacturing Transformation at Pratt & Whitney

Panelist: Vito Sarullo, Production Manager Aerospace at Dynomax Inc.

Panelist: Bob Luthy, Continuous Improvement Manager at Richards Industries

Panelist: Bryan Little, Plant Manager at MiTec Powertrain Inc.

Panelist: Eric Heuser, Manufacturing Manager at Arconic

05:20 - 05:25 PM

Introduction: Smart Factory Roundtables

Presenter: John A. Mack, Directory of Business Development and Government Affairs at FORCAM, Inc.

05:25 - 05:35 PM

Closing Remarks from the Mastermind of FORCAM FORCE™

Presenter: Franz E. Gruber, Founder and Chairman, CEO at FORCAM

05:35 ~ 07:00 PM

Speed Dating: Cocktails & Hors d'Oeuvre & Final DMDII Shop Floor Tours



TOGETHER - LET'S MAKE IT A GREAT EVENT.

About

FORCAM is the global technology partner to discrete manufacturing companies providing a united approach for sustained manufacturing excellence across all operations. Our awarded technology suite FORCAM FORCE™ monitors the performance of over 60,000 machines globally and is deployed by best-in-class manufacturers. Customers achieve productivity increases far over 20% in less than 12 months.

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