



IloTTalk^{US}

Digitizing the Industrial Value Chain

October 3rd - 4th 2019
Boston, USA

DAY ONE

08.15 - 09.00

REGISTRATION

09.00 - 09.10

WELCOME & CHAIRPERSON'S OPENING REMARKS FOR DAY ONE
Mark Maybury, CTO, Stanley Black and Decker

09.10 - 09.45

Advancing the Industry 4.0 Innovation Ecosystem

- Global technological trends and advances are creating unprecedented threats and opportunities at an increasing rate of change
- Advances in artificial intelligence, additive manufacturing, and robotics promise new economic value
- Effective human-machine teaming will differentiate the top performers and upskilling is essential
- IoT enabled anticipatory analytics promise cost avoidance and optimal operations
- Safety, security, and sustainability are possible with effective systems analysis and design
- Advancing the I 4.0 Ecosystem enables more rapid and resilient progress

Mark Maybury, CTO, Stanley Black and Decker

09.45 - 10.20

IoT@BMW: Digitalization of the Body Shop, Plant Spartanburg - Challenges and Technology Horizons

- Advances in IoT, additive manufacturing, and robotics promise new agility for manufacturing
- Effective human-machine teaming will enable new opportunities for the work force but also creates new challenges
- IoT enabled anticipatory analytics promise cost avoidance and optimal operations
- Technical training strategies of the work force will differentiate the top performers

Dr. Stefan Markus Baginski, Manager Maintenance & Production Technologies Body Shop, BMW Manufacturing Co., LLC;

10.20 - 11.10

COFFEE BREAK & MEETINGS

11.10 - 11.45

Using smart edge devices for collecting and aggregating manufacturing data - integrating machine, factory and enterprise approaches

- What are edge devices and when should they be deployed in manufacturing?
- Edge devices as a platform for I 4.0, key attributes and functions
- What underlying technology and IT infrastructures need to be in place for edge devices to be effective
- MES vs. "Edge Platform" avoiding line modification and re-validation
- How, when and where should edge analytics be implemented in advanced manufacturing?

Ram Kothapalli, GM, IloT Managed Services, GE Power

11.45 - 12.45

One to One Meetings

- Smart/Advance Manufacturing and Industry 4.0
- Digital Transformational Change
- IloT Platforms
- IloT Applications
- IloT Security
- IloT Analytics
- IloT ROI
- Big Data & Manufacturing Information
- Big Data Analytics
- Cloud Applications
- Edge Technology
- Integration
- M2M
- IoT Automation
- Manufacturing Technology
- Manufacturing Automation
- Robotics
- Additive Manufacturing
- Facility Management and Integration
- Workforce Development
- Supply Chain & Logistics

11.45 - 12.15

Digitisation of Manufacturing: A Pragmatic Approach

- Moving from theory to practice - Lessons learned, key take-aways and key problems to be solved
- Integration of IoT, Big Data, Analytics, and AI in manufacturing
- Example use case: dynamic scheduling and predictive quality
- Approach to co-creation

12.15 - 12.45

Enabling Industrial IoT Edge Applications

- Industry 4.0 represents one of the most innovative verticals in IoT
- Enabling Enterprises to benefit from IoT while maintaining production requires new solutions
- Identifying actionable insights for Industrial IoT Edge applications with examples of analytics, productivity and quality that directly impact ROI
- Eliminating Operational Blind Spots - the #1 ROI of the IloT

12.45 - 13.35

NETWORKING LUNCH

IloT Roll Out - Case Studies

Smart Manufacturing

13.35 - 14.10

Digital Transformation @ TE

- Why should you go digital
- Challenges we face
- Our learnings
- Our results

Mark Maas, Director Global Digital Factory Lead, **TE Connectivity**

14.15 - 14.50

GE Aviation (Ceramic Matrix Composites): Digitizing and industrializing a new product at a record pace

- The journey to industrializing any new product reveals new challenges... how do we want to operate in the future
- Lessons learned, challenges and approach to I4.0
- Accelerated learnings from our data and analytics strategy
- Improved cycle-time with automated thermal process conformance
- Reduced unscheduled maintenance through condition-based maintenance
- Improved component yield through adoptive manufacturing

Scott Quinn, Director, Digital Operations, **GE Aviation**

14.55 - 15.30

Digital Transformation of Industrial Services

- IIOT enabled service models
- How analytics unlocked productivity, availability and reliability
- Business model innovation
- Lesson learned

Emrah Ercan, Director, Digital Solutions, **SUEZ Water Technologies and Solutions**

Pfizer's Journey to Enterprise Wearables

- Process to choose hardware and software and appropriate use cases
- Duration to time to validate and implement
- Pitfalls and challenges of the process
- Lessons Learned and success factors

Nathan Yorgey, Director PGS BT Transformation, **Pfizer**

IoT in Manufacturing, A Transformational Change and Lessons Learned

- Manufacturing has been connecting things for many years, now optimized infrastructures accelerate the pace, allowing innovative useful applications to be developed
- The journey, the challenges faced, the lessons learnt, as well as expectations going forward

Kimberley Hagerty, Director Digital Factory, Manufacturing Operations, **Carrier Corporation**

Visions for the Smart Biopharma facility - An evolution into Industry 4.0

- What is your organization doing with structured & unstructured data for efficiency and effectiveness?
- How to leverage this data for asset intelligence
- How to leverage this data for process optimization
- Examining data sets that can provide insights into potential efficiency gains

Christopher Kopinski, Global Product Leader, Analytics, **GE Healthcare Life Sciences**

15.30 - 16.20

COFFEE BREAK & MEETINGS

16.20 - 17.50

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16.20 - 16.50

Industrie 4.0's Impact on IoT and Manufacturing Execution Systems

- Implement global and local MES for Smart manufacturing solutions
- Which manufacturing strategy to consider when deploying MES?
- Where is the ROI in Industrie 4.0 and MES?
- Advice from manufacturers already implementing MES for Industrie 4.0

16.50 - 17.20

Defining And Implementing A Data Analytics Platform That Would Ignite Data-Driven Decisions On The Factory Floor

- Defining use cases enabling workshop personnel converting data to business value
- Operational excellence - actionable insight in a fast manner to drive process stability
- Operational insurance - system-supported root-cause analysis
- Making manufacturing less dependent on individuals' knowledge from the workshop
- Developing of an appropriate user interface
- Identifying required data
- Benefits

17.20 - 17.50

New frontiers in Cyber Security

- How to protect your business against cyber-security risks and threats from IIoT?
- Understand what innovative products can be brought into production lines and the opportunities they bring
- What is preventing the move towards more digitalisation within factories?
- Practical advice from experience on cyber-security technology to help establish and reinforce protection measures

17.55 - 18.30

Creating a Roadmap to Successfully integrate Industrial IoT

- Learn about what other companies are currently doing to begin their integration
- What challenges and stumbling blocks could you be facing and how to get round these?
- Establish your company's ambition and vision of the future
- Which strategy to adopt to implement connected asset management across your industrial machinery?

Raj Tiwari, Digital Technologies and Transformation Leader, **Johnson & Johnson**

18.30

CHAIRPERSON'S CLOSING REMARKS AND END OF DAY ONE

18.45

NETWORKING DRINKS RECEPTION

DAY TWO

08.25 - 08.35

CHAIRPERSON'S OPENING REMARKS FOR DAY TWO
Mark Maybury, CTO, Stanley Black and Decker

08.35 - 09.10

Blockchain in the Industrial IoT

- Introduction to the Economy of Things
- Business cases for Distributed Ledger Technologies (Blockchain) in Manufacturing
- Approaches in the Manufacturing Domain
- Insights into a Proof of Concept

Klaus Uwe Roehm, Manager Process Integration, **Bosch Rexroth Corporation**

09.10 - 09.45

Framing the Future: Digital Intensity + it's impact on Transformation

- Act now: The need for the creation of an intelligent and digital factory vision is here
- People, culture and organizational pain points are key considerations
- Engage in plans to grow your digital culture
- Plan and communicate your technology roadmaps for competitive leadership

Laura Gordon Barbaro, Managing Director and Transformation Leader, **Intel**

09.45 - 10.20

How can we empower our Manufacturing Workforce for the Digital Era

- Defining Industry 4.0 for ourselves. Is it the same for everyone?
- How will Smart manufacturing change the future requirements of work qualifications and skills?
- Digital transformation journey - Where do you start and how?
- Manufacturing workforce - enabling the workforce for the digital era
- How can we measure the success of a digital workplace transformation?

Richard Allbert, Head of Digital Innovation, **Pirelli**

10.20 - 10.50

COFFEE BREAK & MEETINGS

10.50 - 11.25

Exploring the Potential of Blockchain and IoT integration

- Blockchain - is it just a hyped technology?
- Understanding the value of integrating of IoT and Blockchain
- How can Blockchain solutions be designed?
- When and where to start

Ravi Arikapudi, Global Program Manager, **Abbott**

11.30 - 12.30

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IoT Analytics - Striking the right balance between edge and Hub

- Why is edge computing growing in popularity?
Analysis and action at the edge
- Managing data flows: the essential role of the edge as a gatekeeper to cloud computing
- Taking the right approach: finding what works for you

12.00 - 12.30

Practical approach for integrating data & analytics

- What's Happening & Where to Look?
- Unified Theory of Technology & markets
- What's your organizational purpose & your value?
- Exponential Technologies & Maturity

12.30 - 13.20

NETWORKING LUNCH



13.20 - 13.55

Digital Transformation in Manufacturing Supporting Group

- Knowing the goal and vision but how to get there? Sustainable process – Global rollout
- Process of Digital Transformation – Acquire, Organize, Analyze & Intelligence
- How to start your journey? “Continuous Improvement Cycle” Understanding the present state to achieve sustainable improvement.
- Real time data analysis for production and predictive maintenance

Ashwin K C Kothandaraman, Corporate OPEX Innovation Manager – Digital Transformation, **Georgia Pacific**

Mass-Customized Medical Devices: A Digital Manufacturing Methods Case Study

- Overview of the global Atlantis production environment
- Description of the infrastructure utilized to provide patient-specific medical devices with ultra-short lead times
- Examples of several digital manufacturing techniques in use, including IIoT

Thomas Cole, Former Vice President - DIS Operations & Global Expansion, **Dentsply Sirona**

14.00 - 14.35

Digital Transformation in the Process Industry – Why, How, What and When

- Examples and a road map from large chemical industry perspective
 - Why should the Process Industry care?
 - How would you implement digital processes?
 - What products should go through a digital transformation?
 - When is the right time to switch over?

Karsten Keller, Director Technology Innovation & Improvement Management, **Avecia**

Role of IoT and Data Analytics in Digital Manufacturing Journey

- IoT is used as a framework to connect all end-to-end processes throughout the enterprise
- IoT is used to digitize all processes and track key performance indicators, and drive continuous improvement
- Digital thread approach makes it possible to leverage CAD models and product data once created throughout the value chain
- Data analytics is used to understand insights and drive predictive maintenance

Pandu Boyapally, Advanced Technology Manager, **The Toro Company**

14.35 - 14.50

COFFEE BREAK

14.50 - 15.25

Open Panel Discussion: What's Next for Industrial 4.0?

- Obviously Industry 4.0 is not going to go through the same hype cycle as cellular generations
- But the time has come to look at the accomplishments of IIOT 4.0
- Where are we now? What is the current state of play?
- How do we get to the next phase of optimization and execution?
- A look at the standards and best practices
- What gaps and opportunities exist for improvement?

15.25

CHAIRPERSON'S CLOSING REMARKS

15.30

CLOSE

