



WEDNESDAY
JULY 10

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11:00 AM - 1:45 PM

Exclusive visit of the innovation space of Accenture in Singapore



Join us for an exclusive visit of the innovation space of Accenture in Singapore on 10 July 2019 from 11:00 am to 1:45pm . We will arrange 2-way shuttle service from Marina Bay Sands Hotel.

Located at South Beach Tower, just a **few steps from the Industry of Things World Asia** at Marina Bay Sands, the new space provides an immersive and interactive state-of-the-art environment where you can see real use case and scenarios of how emerging technologies such as Applied Intelligence, Blockchain, Augmented Reality and analytics are being used to drive a strategic advantage in the industry. Get a better understanding of how technologies can bring better business outcomes.

Places are limited to 40 conference attendees, so if you haven't already secured your spot, get in contact now!

We will be meeting the bus at 10:45am at the bus "MBS B1 Coach Bay" indicated on the map below:

3:00 PM - 6:00 PM

Industrial IoT - The Bootcamp



Join the information and real-world experience packed **Industrial IoT Bootcamp** to define how **IIoT** will change your business.

The Industrial IoT represents a major shift in how information flows and needs to be managed. Join the IIoT Boot Camp for a deep grounding in the concepts behind IIoT and how to make your organisation ready for the future. Expert speakers will take a deep dive on key topics like AI, sensors, automation, IT architecture big data and innovation to give you all the tools you need to make the most of IIoT within your enterprise.

Location: Marina Bay Sands Conference Center, Level 4, Simpor room 4601AB & 4602

3:00 PM - 4:30 PM

(1) Industrial IoT Bootcamp: Secured IoT Interoperability from Sensor to IT Enterprise



Secured Interoperability is the key enabler to connect your device, machine or service with plug and produce experience. Learn about the world largest ecosystem for industrial interoperability, including the open source framework OPC UA which have been reviewed by international security experts. This presentation is about the differences between IIoT and Industrie4.0 but also about what connectivity does not enough:

- Why is semantic interoperability the key for the Industrial IoT, M2M and Industrie 4.0?
- What connectivity does not enough: why is semantic interoperability the key for the Industrial IoT, M2M and Industrie 4.0?
- Why OPC Unified Architecture is required to name your product "Industrie 4.0 compliant"?
- What are role do initiatives like IIC, Platform Industrie 4.0, Japanese IVI, China 2025, and Korea Manufacturing have to play and how do we make sure they are all connected?
- How is collaboration transforming information integration between IT and OT?

Stefan Hoppe, Vice President, OPC Foundation

3:00 PM - 4:30 PM

(2) Industrial IoT Bootcamp: Cognitive approaches to maintenance



Cognitive approaches to maintenance offer potential solutions to organizations that face challenges related to unplanned machine downtime. How can cognitive approaches help speed time and drive flexible automation for organizations challenged in configuring machines quickly to increase flexibility?

- Apply intelligent capabilities, machine learning and anomaly prediction to detect the unknown
- Enhance IIoT initiatives with new R&D strategies
- Merge sensor data with business information to prioritize failure management strategies
- Utilize cognitive anomaly detection to address the challenges that data scientists face
- Predict critical asset failure in real time with cognitive anomaly detection and prediction

Amit Verma, Sr. VP, Digital Transformation for Procurement & Supply Chain, Reliance Industries Limited

3:00 PM - 4:30 PM

(3) Industrial IoT Bootcamp: Addressing IoT Ecosystem Collaboration & Organizational Paradox in Digital Transformation



CK Vishwakarma, Founder, IoTSG

4:30 PM - 5:00 PM

Networking and Afternoontea Break



made with

Get a cup of tea and let all the information sink in. Don't forget to network with your fellow participants!

5:00 PM - 6:30 PM

(4) INDUSTRIAL IOT BOOTCAMP: Designing the system that makes the products – The use of design thinking and industrial analytics in production and supply chain design



There's many different reasons why an Industrie 4.0 project can fail. It can go over budget, go behind schedule, not be accepted by the end users, be too complicated, or simply not work as advertised.

But there's only one way an Industrie 4.0 project can be successful. And that is if it adds real value to the manufacturing company. The value may be found in increased capabilities such as increased consistency, increased productivity, increased flexibility, or increased agility. Or the value may be found in reduced costs such as reduced labor costs, reduced material costs, reduced energy costs, or lower levels of rework and waste.

And, for an Industrie 4.0 project to be successful, it has to be about more than just the technology. It can't be just a technology project. It has to be about delivering real benefits to the company.

Even if an Industrie 4.0 project comes in under budget, ahead of schedule, and has the newest and coolest technology on the market, if it doesn't deliver real value to the company, it is a failure.

Join us in the World Café as we discuss many different techniques for finding payback for Industrie 4.0 projects:

- Providing significant new capabilities and processes
- Reducing capital costs and reducing operating costs
- Empowering teams and improving decision-making
- Creating new and better ways of doing business
- Metrics and measuring both tangible and intangible payback

Brandon Lee, Chairman of the APAC board, MESA International

7:00 PM - 9:00 PM

ICEBREAKER SESSIONS: Break the ice and get the show on the road



made with

What is the Icebreaker Session?

The Icebreaker session takes place on the evening before the event starts.

Just when everyone arrives, we are inviting you to join us for some early networking and give you the chance to settle in the atmosphere of the event. This is the time and place to share your thought-provoking ideas and get things off an interesting start. Glass in hand, make your way around the round tables, discuss and network with the speakers and business partners. We invite you to a unique location and allow you to get to know your fellow conference attendees in a relaxed and interactive setting.

How is it organised?

- In order to launch the conference, relevant topics and questions will be touched on moderators at their round tables.
- Without slides, moderators will present their project or thoughts on a particular approach and enter into an open discussion with interested participants.
- During the Icebreaker Session, participants can move freely between the round tables and get involved in conversation.
- Discussions evolve, either led by the moderator or on a personal basis between individual participants.

Break the ice and get the show on the road!

7:00 PM - 9:00 PM

(1) Icebreaker Round Table: Digital Manufacturing Transformation - the next wave of opportunities for productivity improvements and new revenue streams



- Digital transformation is a process leveraging unprecedented levels of data from machines, smart assets, predictive equipment
- The broad deployment of digital technology requires rethinking both business and operating models: it changes the way an organization works and can create value
- Analytics and data make the difference: they drive performance, long term growth and adaptability
- IT and OT convergence is key to succeed; new skills are required
- Early IoT investments are driving results: productivity improvements and reduction in operating costs, improved quality and better coordination with customers

Bob Murphy, Senior Vice President Connected Enterprise Consulting, Rockwell Automation

7:00 PM - 9:00 PM

(2) Icebreaker Round Table: Pillars of Industry 4.0 Transformation Success



- Enterprise-wide mindset & vision
- Real-time data ecosystem
- IIoT, visibility through sensorization
- Automation and optimization

Willson Deng, Chairman, Singapore Manufacturing Consortium

7:00 PM - 9:00 PM

(3) Icebreaker Round Table: Defining and future-proofing Industrial IoT Architectures – Cloud, Edge, Fog and more



- What are the benefits of Edge computing over cloud and traditional architectures?
- How do we migrate to modern architectures and how do we deal with legacy?
- What are the considerations when decide where to house data and where to analyse?

Dr Hong H. Ong, Senior Director, MIMOS Berhad

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(4) Icebreaker Round Table: Data Governance and Policies in Industrial IoT



CK Vishwakarma, Founder, IoTSG

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07:30 AM - 08:10 AM

REGISTRATION & IoT Asia COMMUNITY WALL



The official registration for the conference: Pick up your name batch, take a **Polaroid photo** for the IoT Asia Community Wall, use your personalized **matchmaking app**, make first contacts & **plan meetings** and get started. **Welcome to the IoT Asia 2019!**

08:10 AM - 08:30 AM

Welcoming and Introduction by we.conect and the Conference Chair



Andrea Götz, Director for Conferences in Industrial IoT, we.CONECT Global Leaders
Willson Deng, Chairman, Singapore Manufacturing Consortium

08:15 AM - 08:20 AM

Say Hello!: Get the show on the road



Discover who is joining the conference and why. To warm you up for the conference we invite you to get to know your conference peers. **Have your business cards ready.**

08:30 AM - 09:00 AM

Opening Keynote: Organizational Culture – the Backbone of successfully implementing new projects and processes



Raise for good working environment: Providing the right infrastructure and processes for integrating evolving technologies and AI and data analytics in Manufacturing

Philip Bernard, Vice President WW HDD Operations & Sustaining Engineering, Western Digital

09:00 AM - 09:30 AM

Morning Keynote: Digitalization in a Low Cost Country and Impact on Leadership Behavior



- Building a new production facility in a low/best cost country
- Organizational development under changing technical possibilities
- Requirements on leadership to implement a world class "digital" production system

Klaus Mueller, COO Asia Pacific, Schaeffler AG

09:30 AM - 10:00 AM

Keynote: The Call To Action For Digital Transformation - Why It's Time To Put Our Pencils Down



One well-known quote advises: "Start by doing what's necessary; then do what's possible; and, suddenly, you're doing the impossible."

These days, most manufacturers are focused on digital transformation, and many lack a clear roadmap to success. Some struggle with how to get started, others grapple with questions around network infrastructure and security, while still others ponder how to leverage an overwhelming amount of data. We're all eager to achieve the game-changing results that await us as we change how our products are designed, manufactured and supported. But "getting there" can be an intense journey and it will most assuredly require steadfast commitment and vision.

Murphy will discuss why many initial efforts are slow to deliver meaningful results and how to ultimately realize the significantly impactful outcomes a comprehensive digital transformation should deliver.

Bob Murphy, Senior Vice President Connected Enterprise Consulting, Rockwell Automation

10:00 AM - 10:30 AM

MORNING TEA BREAK AND NETWORKING



Get tea, get snacks, make connections and talk with your peers – and have the chance to actively participate in product and service demos on the expo floor.

10:00 AM - 10:30 AM

HUBS - ONE2ONE MEETING SESSION 360°



Our native app based online community identifies and determines interests, consultation requirements, consulting expertise and solutions as well as currently ongoing projects of the participants. This assessment allows for qualified and time-efficient exchange within the partnering sessions at the event.

Search – Find – Match – Network

10:30 AM - 3:15 PM

STREAM 1 | IIOT BUSINESS MODELS & DIGITAL TRANSFORMATION



Willson Deng, Chairman, Singapore Manufacturing Consortium

10:30 AM - 3:15 PM

STREAM 3 | INDUSTRIAL DATA ANALYTICS, MACHINE LEARNING & COGNITIVE MANUFACTURING + REAL-TIME VISIBILITY & END-TO-END SUPPLY CHAIN



CK Vishwakarma, Founder, IoTSG

10:30 AM - 11:00 AM

STREAM 1 | IIoT Business Models & Digital Transformation: Industry 4.0 - On the Experience from Strategy to Implementation - Best Practices



- How to define Industry 4.0 framework and its important elements for manufacturers
- The importance of end-to-end digitalization and vertical integration
- Application of IoT in machinery and shop floor to achieve significant benefits
- Introduction of Track and Trace solution to fill the gap of common hidden problems in factories
- An example of digitalization, connectivity and visualization to achieve real time information generation

Keith Kwok, Senior Project Manager, IT, Ka Shui International Holdings Limited

10:30 AM - 11:00 AM

STREAM 2 | IIoT Implementation and Use Cases for Shop Floors and Operations 4.0: The Integrated Digital Factory - Driving Operational Excellence through Visualizing Real-Time Production Performance Data at the Shop-Floor



- The Internet of Machines, connecting 100 plants world-wide through the cloud
- Integration of SAP-ERP, Overall Equipment Effectiveness and Statistical Process Control
- Daily Management System supported by real-time visualization of line performance
- Producing better quality products at lower cost thanks to accurate data for Root Cause Analysis

You can only improve what you can measure and visualize in a way that shows the need to close the gap between what is happening and what should happen. Integrated Digital Factory does just that. It shows the production team in real-time what is going on now and what happened in the past color coded based on expected performance targets integrating OEE, SPC and SAP-ERP data KPI in one screen. This is done using the "Internet of Machines" sending all machine sensor information to the cloud and after processing the data it is then send back to the shop floor where the data and visualized on large TVs, PCs and tablets. This drives effective Daily Management System meetings and problem Root Cause Analysis based on accurate data so that we can produce better quality products at lower cost.

Rony Bejjani, IT Strategy & Quality Director, faurecia

10:30 AM - 11:00 AM

STREAM 3 | Industrial Data Analytics, Machine Learning & Cognitive Manufacturing: IIoT and AI applications in Power Utility



Jitendra Nalwaya, Vice President Sustainability & Clean Technology, BSES Yamuna Power Limited

11:00 AM - 11:30 AM

STREAM 1 | IIoT Business Models & Digital Transformation: Industry 4.0 innovation strategy - Making the factory of the future a reality



- Industry 4.0 and related technologies has opened the doors for transforming all aspects of B2B business today
- Digital tools are already changing how we make things, how we sell things, how we deliver things, and how we service B2B customers
- The session will share examples of the Digital Transformation in Tetra Pak with focus on AR/VR/ MR technology to simulate everything; from the equipment in the factory to the final product is invaluable, and the ability to do it instantly and effectively makes VR a transformative technology for plant design & engineering

Ashish Dahiya, Cluster Digital Leader, Asia, Tetra Pak

11:00 AM - 11:30 AM



STREAM 2 | IIoT Implementation and Use Cases for Shop Floors and Operations 4.0: Creating a future vision for seamless global manufacturing ecosystems, zero-waste and powered by Industrial IoT

- What kind of IIoT futures are possible to eventuate?
 - Do platformers dominate the market?
 - Do platformers leak or sell your company secrets?
 - Could platforms become open and based on International Standards, or will they become 'big brothers' like GAFA (Google, Apple, Facebook and Amazon) in a B2C world
- How do you survive or do business in either scenario and which kind of future is the best for your business?
- What are the key turning points that will define which future state eventuates?
- How could you control the turning points to get the best future for you?

Andrey Zolotavin, Senior Real Time Systems Engineer, Kuwait Oil Company

11:00 AM - 11:30 AM



STREAM 3 | Industrial Data Analytics, Machine Learning & Cognitive Manufacturing: AI demystified and the In-House Open Source AI concept

The numbers on your AI market size report are probably wrong. You are getting information about data science, machine learning and AI from parties with a vested interest. Misinformation may be passed off as good marketing. You have spent your money and political capital on software and consultants, but if you take an honest look at your P&L, you have bought PR instead of real ROI. Meanwhile, the gap between technology companies and traditional MNCs is opening ever wider.

In this presentation, we discuss useful handles to distinguish AI from other analytics capabilities, common dysfunctions that cause enterprises to stumble in developing in-house data science capabilities, and major issues around the emerging AI space, along with the opportunity for organizations to step up and take responsibility to be competent and ethical practitioners of AI.

Jason Widjaja, Associate Director Data Science (AI & Data Products), MSD International GmbH

11:30 AM - 12:00 AM



STREAM 1 | IIOT BUSINESS MODELS & DIGITAL TRANSFORMATION: IIOT in a world-scale dairy processing operation - connecting customers to cows and everything in between

- Operational efficiency and manufacturing cost management has been a traditional OT focus
- However new requirements are now appearing, as customers & consumers demand more insight into corporate supply chains and manufacturing activities
- IIOT and edge computing technologies play a key role supporting both of these areas

Dr Hong H. Ong, Senior Director, MIMOS Berhad

11:30 AM - 12:00 AM



STREAM 2 | IIOT IMPLEMENTATION AND USE CASES FOR SHOP FLOORS AND OPERATIONS 4.0: Industry 4.0 Factory Of The Future

Bronwyn Fox, Professor and Director of the Manufacturing Futures Research Institute, Swinburne University of Technology

11:30 AM - 12:00 AM



STREAM 3 | INDUSTRIAL DATA ANALYTICS, MACHINE LEARNING & COGNITIVE MANUFACTURING: How the Artificial Intelligence is revolutionising Manufacturing

- How should industrial enterprises integrate artificial intelligence
- The real value of the AI for industrial enterprises
- The key case studies and use cases that apply to transform your site into a smart factory

Wolfgang Liertz, Head of Software, Digitalization and Business Transformation, TRUMPF Werkzeugmaschinen GmbH + Co. KG

12:00 AM - 12:30 AM

STREAM 1 | IIoT Business Models & Digital Transformation: Walk the talk – What is the recipe for a successful digital transformation program?

We all agree digitalization is important, but only 5% of digital transformations really deliver expected results. So what, is the recipe for a successful digitalization effort?

We will brainstorm the key challenges in leading digitalization programs and share ideas and best practices from our experience. Join us for this session, if you have had enough of 'tech-jargons' and really want to make a difference in your organization from digitalization initiatives.

- **Awareness:** Building a common understanding of digitalization potential within the organization
- **Engagement:** Mobilizing the employees, securing commitment and generating use cases
- **Focus:** Defining clear vision and priorities on how will the organization create value out of digitalization
- **Commitment:** Scaling up pilots, defining the right operating model, resources etc.
- **Agility:** Re-assessing priorities based on customer feedback & technological developments

12:00 AM - 12:30 AM



STREAM 2 | IIoT Implementation and Use Cases for Shop Floors and Operations 4.0: MulteFire - LTE-based Technology for Unlicensed Spectrum

MulteFire is an LTE-based technology, based on 3GPP specifications, that operates standalone in unlicensed or shared spectrum. By removing the requirement that you have to own licensed spectrum, MulteFire creates new business opportunities that allow industrial IoT verticals to deploy and benefit from the LTE technology and ecosystems. This talk will provide an overview of MulteFire and share key technology benefits when it is deployed in industrial IoT applications.

- Introduction to MulteFire technology, an LTE-based technology that operates standalone in unlicensed or shared spectrum
- How MulteFire enables anyone to deploy their own private LTE or neutral host network
- MulteFire's performance advantages over other wireless technologies
- MulteFire use cases
- The market opportunity for MulteFire

Dr. Yi Shi, Industry Working Group Chair, MulteFire Alliance and Senior Research Engineer, Huawei, Multefire Alliance

12:00 AM - 12:30 AM

STREAM 3 | INDUSTRIAL DATA ANALYTICS, MACHINE LEARNING & COGNITIVE MANUFACTURING: An Industrial Immune System - AI Cyber Defense for OT Environments

In this session, learn:

- How new AI algorithms are automating OT, ICS, sensor and IoT threat detection
- Why 100% visibility allows you to preempt emerging situations
- How automation can assist your security team to stay ahead of unknown attacks
- Real-world examples of detected OT & IoT threats
- Detect malicious & accidental insiders and sophisticated threat-actors

There is an urgent need for a new approach to combat the next generation of cyber-threats beyond the data center – across Operational Technology, Industrial Control Systems (ICS), sensors, and industrial IoT devices. New AI-driven technology is making its way into innovation labs and into production environments within the world's leading energy, manufacturing, municipalities, hospitals, and construction companies. These network-connected robots, sensors and IoT devices offer improvements in automation, efficiency and even safety, but often lack built-in cyber security.

With support for industrial and automation protocols, mesh networks, and Wi-Fi, Darktrace sits passively in your environment and detects the threats that you don't know to look for. Utilizing autonomous, self-learning technologies to detect and respond to emerging threats is an achievable cyber security goal, irrespective of the device or network that the suspicious behavior originated on.

12:30 AM - 1:45 PM

LUNCH BREAK & NETWORKING

Get tea, get food, make connections and talk with your peers – and have the chance to actively participate in product and service demos on the expo floor.



12:30 AM - 1:45 PM

HUBS - ONE2ONE MEETING SESSION 360°



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Search – Find – Match – Network

12:45 AM - 1:15 PM

INNOVATION LAB

The Innovation Lab is your chance to hear from the most relevant and innovative start-ups in the IIoT space. Each Start-up gets 4 mins to introduce their concept and company. Afterwards you have the chance to talk to your favourite start-up in a dedicated Q&A round. The start-ups will also be present in the dedicated start-up corner throughout the event to answer any questions you have. This is where innovation happens!

1:45 PM - 2:15 PM

STREAM 1 | IIoT Business Models & Digital Transformation: IoT Enabled Container



- Resolve the container Security Issue
- Sense and Measure the key Logistics Data
- How to implement in cost & time effective manner
- Delivering value to all stakeholders

SundaraRaman Anandan, Head of Supply Chain Solutions – APAC Land Transportation, DB Schenker

1:45 PM - 2:15 PM

STREAM 2 | IIOT IMPLEMENTATION AND USE CASES FOR SHOP FLOORS AND OPERATIONS 4.0: 3D Printing - From Shipping Parts To Sending Files



Disrupt the supply chain for marine parts whereby the existing inefficient and rigid supply chain process will be replaced with a customized, on demand, and more efficient process of 3D printing.

Sachin Gupta, Business Manager - Oil Solutions, Wilhelmsen Group

1:45 PM - 2:15 PM

STREAM 3 | New technologies Real-Time visibility & End-to-end Supply Chain: Supply Chain Powered by Technology and IIoT



- Optimizing Supply Chains by using IoT
- Setting up operations strategy, capabilities and solutions
- Getting digital transformation rolling: work processes, organization design, and productivity

Natalie Rubnan Que, Supply Chain Strategy, Manufacturing, Research & Development, Quality, & Innovation IT Director, Mondelez International, Inc.

2:15 PM - 2:45 PM

STREAM 1 | IIOT BUSINESS MODELS & DIGITAL TRANSFORMATION: IoT and Operational Equipment Effectiveness (OEE) – Strategies to capture, monitor and improve OEE to help increase revenue.



Operational Equipment Effectiveness (OEE) in manufacturing is not only critical for overall operations but capturing and proactively acting on OEE metrics helps increase throughput and ultimately, revenue. In this session, Peri Subrahmanya, Product Manager, IoT at Bayer Crop Science a division of Bayer, will cover why OEE is important and strategies to capture, measure and improve upon OEE. Further, Peri will cover ROI on IoT cloud, build vs buy implementation models including edge computing and talk about the strategy he has implemented at Bayer Crop Science to help achieve high operational throughput.

- What is OEE and why is it important
- How can IoT help capture, measure and improve OEE
- ROI on IoT implementations
- Bayer's strategy, roadmap and execution regarding OEE utilizing IoT.

2:15 PM - 2:45 PM

STREAM 2 | IIoT Implementation and Use Cases for Shop Floors and Operations 4.0: Industrial IoT applications to guarantee reliability of machines



- Leveraging predictive analytics for reducing downtime
- Using Analytics to improve machine performance
- AI based Digital twin technology to improve asset efficiency and asset reliability

Sunny Desai, General Manager- Smart Manufacturing, Reliance Industries Limited

2:15 PM - 2:45 PM

STREAM 3 | Industrial Data Analytics, Machine Learning & Cognitive Manufacturing: 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, Head, IoT/AuM, GE Power

2:45 PM - 3:15 PM

STREAM 1 | IIoT Business Models & Digital Transformation: IoT Projects in Brownfield Setups



- Practical Challenges linked to interoperability, secure access and more..
- Opportunities & linked Benefits across the value stream
- Successful Business Use Cases implemented
- Key Action Areas

Atul Govil, Chief Transformation Officer & Head (SAP & IT), India Glycols

2:45 PM - 3:15 PM

STREAM 2 | IIOT IMPLEMENTATION AND USE CASES FOR SHOP FLOORS AND OPERATIONS 4.0: How to bring automation and IoT in manufacturing



IoT technical use cases and new business models:

- Digital Identities – Impact on component manufacturing and lifecycles
- Harnessing the power of sensors, cloud and Big Data
- Individual product customisation and manufacturing flexibility connecting the customer to the factory floor in real-time

Rakesh Singh, Director Corporate Strategy and Operations Development, Srithai Superware India Pvt. Ltd.

2:45 PM - 3:15 PM

STREAM 3 | New technologies Real-Time visibility & End-to-end Supply Chain: Impacts of the Fourth Industrial Revolution on Logistics



- How will the latest technology (Automation, AI, Blockchain, and IoT) affect the international logistics industry?
- Why haven't we seen more of an impact so far on the logistics industry through the adoption of the latest technology?
- What are the hottest three trends in the logistics industry when it comes to technology and what is the timeline for them to be utilized?
- Transformation teams are everywhere in international logistics companies now, so why isn't digitalization a top priority?
- What kind of talent is needed to help transform the international logistics community to be ready for the digital era?

Safiul Karim Gazi, General Manager - Global Business Development and Innovation, Gulf Oil Marine Ltd.

3:15 PM - 3:20 PM

INTRODUCTION TO THE CHALLENGE YOUR PEERS SESSION



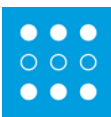
Andrea Götz, Director for Conferences in Industrial IoT, we.CONECT Global Leaders

3:20 PM - 3:50 PM



3:20 PM - 3:50 PM

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3:50 PM - 4:40 PM

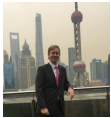
() CHALLENGE YOUR PEERS

Challenge Your Peers is an innovative workshop concept which enables participants to engage in a direct exchange with experts from a certain industry. The aim is to discuss and to identify challenges within the sector as well as problems, needs and solutions. In the run-up of the conference we.CONECT gathers information about the main questions and interests of the participants. During the session, they then discuss their specific issues and topics with their peers. Please choose a table according to your interests and main challenges.

Challenge your Peers in [MOTION!](#)

3:50 PM - 4:40 PM

(1) CHALLENGE YOUR PEERS: Impacts of the Fourth Industrial Revolution on Logistics



- How will the latest technology (Automation, AI, Blockchain, and IoT) affect the international logistics industry?
- Why haven't we seen more of an impact so far on the logistics industry through the adoption of the latest technology?
- What are the hottest three trends in the logistics industry when it comes to technology and what is the timeline for them to be utilized?
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- What kind of talent is needed to help transform the international logistics community to be ready for the digital era?

Mac Sullivan, Senior Business Development Manager, Toll Global Forwarding

3:50 PM - 4:40 PM

(2) Challenge Your Peers: How to build an AI strategy - transform connected machine data to business outcomes



Doug Shean, Head of Technology Innovation APAC/IMEA, Procter & Gamble

3:50 PM - 4:40 PM

(3) CHALLENGE YOUR PEERS: IoT Implementation in Industrial Automation



Standards and Good Engineering Practice for designing high availability of IoT system to have Continuous availability of IoT data and minimize disruption to enterprise business and operation.

- Approach to budgeting for IoT implementation
- Implementation approach for "Green Field" and "Brown Field Projects
- Risk Assessment for Implementation in "Green Field" and "Brown Field"
- Mitigating vulnerabilities
- Standards and Good Engineering Practice for designing high availability of IoT system to have Continuous availability of IoT data and interruptions to enterprise

Vatsan Menon, Division Program Manager, Vopak

3:50 PM - 4:40 PM

(4) CHALLENGE YOUR PEERS: Could shop floor culture be the most important factor in implementing IIoT into your Operation Excellence programs



- Shop floor culture & its influence on the entire business operations/ company success
- Setting and Achieving IIoT transformation goal through process optimisation
- Not losing value of pre-IIoT Operational Excellence projects and how to translate these programs into a new manufacturing paradigm
- Creating a narrative of growth and transformation rather than fear of new technology
- Team building, trust and bonding between employees

Saurabh Gupta, General Manager - Kanpur Plant, Supreme Industries

4:40 PM - 5:10 PM

Keynote: 1st Step in Digital Transformation Journey – A cheat sheet



- Organisational drivers for digital transformation (focus on Cx, OX & business model)
- Showcase a tried & tested approach for building a digital blueprint at enterprise level
- Showcase a value chain CANVAS framework which supports ideation process in addressing the business challenges a firm faces today & may face in future
- Key transformation enablers & role of a Digital Service Unit (DSU)

Punit Joshi, VP - Strategy & Business Development, NS Bluescope

5:10 PM - 5:40 PM

Case Study: Digital Transformation - Retrofitting IIoT for Legacy Equipment



- Introduction
- What is the Internet of Things for HVAC (heating, ventilation, and air conditioning)?
- Digital Transformation: An IIoT Retrofit Experience
- Questions

Jeremy Jones, Vice President and Chief Information Officer, Comfort Systems USA

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Keynote: Industry X.0 - Reinvention of Industry



accenture

Senior business leaders recognize Artificial Intelligence (AI) as the new driver of industrial value creation. But, many struggle at innovating hyper-personalized experiences and efficiencies for their customers, workforce and ecosystems with AI. To lead in the new with AI, businesses must start visualizing and deploying AI as a strategic fulcrum of building smarter products supported by smart services. Based on insights derived from Accenture's proprietary survey and case study research, we developed a three-prong approach that products and hi-tech companies must adopt to become adept at developing and delivering intelligent business value with AI.

Eric Schaeffer, Senior Managing Director, Accenture

6:10 PM - 6:15 PM

Closing remarks of Industry of Things World Asia Day 1



made with by we.CONECT



Andrea Götz, Director for Conferences in Industrial IoT, we.CONECT Global Leaders
Willson Deng, Chairman, Singapore Manufacturing Consortium

7:00 PM - 9:00 PM

BITS, BITES AND BUBBLES: The IoT Asia Evening Dinner



made with

Do you want to network with your peers?

Do you want to digest the day and your key findings?

Do you want to sit back & connect with your new acquaintances?

Relax after the first conference day and begin a great evening with drinks, food and bubbly networking.

The simply perfect combination of an inspiring atmosphere and the right people launch you into the second day. **Bits, Bites & Bubbles is THE place for you!**

[BOOK YOUR DINNER TICKET HERE](#)

WEDNESDAY
JULY 10

THURSDAY
JULY 11

FRIDAY
JULY 12

08:00 AM - 08:25 AM

REGISTRATION & INDUSTRY OF THINGS ASIA COMMUNITY WALL



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The official registration for Day 2: Grab a coffee, **networking with your community**, use your **personalized matchmaking app**, make next contacts, **plan your meetings** and get started. **Welcome to Day 2 of the Industry of Things World Asia 2019!**

08:15 AM - 08:30 AM

WELCOME AND INTRODUCTION by we.conect AND THE CONFERENCE CHAIR



made with



Andrea Götz, Director for Conferences in Industrial IoT, we.CONECT Global Leaders
CK Vishwakarma, Founder, IoTSG

08:30 AM - 09:00 AM

Opening Keynote: What are the elements of world class manufacturing with industry 4.0 and Machine Learning



MAXION
WHEELS

- Setting up an Interdisciplinary Digital Labs Approach
- AR/VR – Remote Video Support in Production
- Smart Factory and RFID-supported traceability
- Machine Learning and Big Data Analytics in Production: Predictive maintenance, process optimization, AI efficiency gains

Esteban Remezc, CIO, Maxion Wheels

09:00 AM - 09:30 AM

Case Study: What are the elements of world class manufacturing with industry 4.0 and Machine Learning



FCA
FOR COMPLEX AUTOMOBILES

- Setting up an Interdisciplinary Digital Labs Approach
- AR/VR – Remote Video Support in Production
- Smart Factory and RFID-supported traceability
- Machine Learning and Big Data Analytics in Production: Predictive maintenance, process optimization, AI efficiency gains

Rajesh Sharma, General Manager and Head - ME, Fiat India Automobiles Pvt Ltd

09:30 AM - 10:00 AM



WEIR

Case Study: How do we get down to fine detail in our IoT engineering transformation projects

- Too much of engagement around IoT is about big concepts, large shifts in process and new technology
- These broad changes go on to effect 1000s of finely-tuned processes – yet this is rarely discussed in detail
- How can we make broad change with disrupting existing operations
- What can techniques/approaches can be put in place to predict what fine changes need to take place
- Benefit will only flow when the fine details is resolved – should we actually start with fine detail rather than broad concepts?

Ben Baker, Group Head of Digital Technology, Development, and Platforms, The Weir Group PLC

10:00 AM - 10:30 AM

Keynote: The promises and challenges of IIOT, and IT and OT integration - a practical guide

- IIoT promises great benefits in as IT and OT but what are the challenges and how to overcome them?
- Nobody wants to give up control of their traditional domains, systems and expert areas – a cultural challenge
- How do we retrofit old systems and plants with sensor and connectivity layers?
- What needs to be taken into account in terms of security?
- How do we integrate sensors and data repositories with software layers?

10:30 AM - 10:45 AM



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WORLD CAFÉ SESSIONS

WHAT IS A WORLD CAFÉ?

World Café session are designed to help you discuss with colleagues and peers similar issues and challenges that everyone is facing in the industry.

Not only will the conversation be moderated by an expert speaker, the aim of the session is to find real solutions to real world problems with the 5 rounds of this session. Share you knowledge during the World Café session and deepen your networking experience!

HOW IS IT ORGANISED?

Based on the theory of the power of collective knowledge, participants are brought together to share challenges and jointly gain new perspectives and develop solutions. 12-15 participants are allocated to the offered World Café session tables. The host (moderator, possibly with co-moderator) of each round table welcomes the guests and briefly introduces controversies, challenging or project related questions.

After 30 to 35 minutes, participants move to the next table based on the assigned order on their name badge to enter into a new discussion. At the beginning of each new World Café round, the moderator gives a short conclusion of previously discussed aspects and questions emerged. This offers the opportunity to build up on the discussion continuously. Be part of several thematic conversation rounds with changing topics and team constellations – Join our unique World Cafe Sessions!

Andrea Götz, Director for Conferences in Industrial IoT, we.CONECT Global Leaders

10:45 AM - 11:15 AM

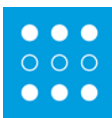


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MORNING TEA BREAK, & NETWORKING

Get tea, get snacks, make connections and talk with your peers – and have the chance to actively participate in product and service demos on the expo floor.

10:45 AM - 11:15 AM



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HUBS - ONE2ONE MEETING SESSION 360°

Our native app based online community identifies and determines interests, consultation requirements, consulting expertise and solutions as well as currently ongoing projects of the participants. This assessment allows for qualified and time-efficient exchange within the partnering sessions at the event.

Search – Find – Match – Network

11:15 AM - 12:45 AM

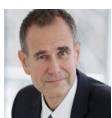


made with

WORLD CAFE ROUND (1) (2) (3)

We start with the first 3 rounds, each round is about 35 minutes long. After each round, participants change the roundtable, according to the arrangement of your coffee cups on their name badge.

11:15 AM - 3:00 PM



accenture

Group A | (1) Strategy café: Industry X.0 - Reinvention of Industry

- Digital technology is disrupting industry as it shifts established power plays and blurs industry lines
- Digital is reinventing the Product with software becoming the connective tissue for value creation
- ...and it's redefining the very notion of the what, how and why of the Product

Eric Schaeffer, Senior Managing Director, Accenture

11:15 AM - 3:00 PM

Group A | (2) Interoperability Café: Interoperability in a multi-vendor environment allowing a free flow of information among the platforms.



HITACHI
Inspire the Next

- Automation should not lead to domination by one vendor.
- Open Systems allow new market entrance and innovation to continue
- How to secure the integration of open elements to be less or equal to one vendor total integration.
- The Role and tasks of customers, vendors and standardization bodies.

Peter Schalkwijk, Director Planning Department, Client Solutions Division, Hitachi Construction Machinery

11:15 AM - 3:00 PM

Group A | (3) Machine Learning Café: Predicting the Life of metal cutting tools using Machine Learning/ AI Algorithms - Challenges and Resolution



SECO

In the manufacturing sector cutting tools contribute to major part of manufacturing cost. By managing the life of cutting tool this cost and downtime is optimized. To manage the life of cutting tool there are various conventional and old methods, but they don't work with IoT ecosystem or current Cognitive Practices.

The potential of IoT ecosystem and continuous monitoring of real time machining parameters is to predict the life of cutting tools by using Artificial Intelligence and Machine Learning Models on these Real time (time series data). My work as an AI Researcher has shown with 97% accuracy on when cutting tools break based on analysing data generated through machining operations.

- What are the challenges in Cutting Tool Industry?
- Where to find the relevant Data in Cutting tool Industry?
- How demand drives innovation for ML/AI in Cutting Tool Industry?
- How to utilise the Open Source Platform for extracting solutions?
- What are the probable area of use cases of implementing ML/AI?

Abhishek Ranjan, R&D-CAD Programmer Design Automation, Seco Tools

11:15 AM - 3:00 PM

Group A | (4) AR/VR café: The future of Robotics, AR/VR and digital twins in manufacturing



DEEPAK FERTILISERS AND PETROCHEMICALS CORPORATION LIMITED

- What are the current landscape and offerings in robotics/virtual
- What realistic roadmaps and business cases exist for implementation?
- What are the benefits and positives of implementing this technology – safe, remote access, efficiency?
- How do we approach the human side and potential risks/ HR concerns?

Dr. Makarand Sawant, Senior General Manager - IT, Deepak Fertilisers And Petrochemicals Corp. Ltd.

11:15 AM - 3:00 PM

Group A | (5) IIOT, AUTOMATION & DATA STRATEGY CAFE: How to develop a data strategy roadmap?



Tetra Pak

As you make decisions about how to collect, engage with, operate on and leverage your data it's important to form a holistic point of view in adopting a data strategy to optimize your technology investments, improve your processes and lower your costs. An effective data strategy roadmap helps make choices grounded in business priorities, to get the most value from your data. In this World Cafe we will discuss steps for creating a data strategy roadmap and how to turn industrial IoT Data into a competitive advantage.

- How to define IIoT Data Standard?
- How to functionalise your data to deliver business value?
- How to integrate disparate data sources and eliminate silos?
- How to build a strategic data catalogue ?
- How to build a data strategy and a roadmap?
- How to build your data lake roadmap?
- How to automate RPA/BOT to deliver business value?

Balaji Rajamani, Enterprise Architect - Data Management and Analytics, Tetra Pak

11:15 AM - 3:00 PM

Group A | (6) IIoT technology café: Designing & Enabling Secured, Scalable and Flexible IoT to improve productivity



CAT

- What does it take to implement IIoT technology?
- Is it about technology, people, processes or maybe organizational culture?
- What hidden traps and challenges are waiting for the market leaders wanting to create an ecosystem of interconnected products?
- How do we get started on this journey and what technology and team structures need to be in place?
- What are the key milestones, KPIs and goals and how do we know when we're achieving them?

Piyush Purvey, Embedded Product Lead, Caterpillar Inc.

11:15 AM - 3:00 PM

Group B | (1) Transformation café: Avoiding Digital Transformation stalls and developing a strategy for success



Rockwell Automation

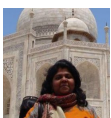
Where are you on your Digital Transformation journey? What are you doing to get to the next step and ensure measurable success? In this session, learn how Rockwell Automation developed a strategic plan to implement the Connected Enterprise in manufacturing facilities around the globe—achieving 2x annual labor productivity, reducing lead times by 50%, and reducing defects—and help you identify the things you need to consider for success on your own journey.

- What stage of maturity are you in your Digital Transformation?
- What are you doing to go beyond the status quo and develop a plan for what's next?
- What are key considerations and tactics to achieve measurable success?

Bob Murphy, Senior Vice President Connected Enterprise Consulting, Rockwell Automation

11:15 AM - 3:00 PM

Group B | (3) Automation café: How to develop a data strategy roadmap?



bp

As you make decisions about how to collect, engage with, operate on and leverage your data it's important to form a holistic point of view in adopting a data strategy to optimize your technology investments, improve your processes and lower your costs. An effective data strategy roadmap helps make choices grounded in business priorities, to get the most value from your data. In this World Cafe we will discuss steps for creating a data strategy roadmap and how to turn industrial IoT Data into a competitive advantage.

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- How to build your data lake roadmap?
- How to automate RPA/BOT to deliver business value?

Rani Sinnasamy, Master Data Management Manager, BP

11:15 AM - 3:00 PM



Group B | (4) IoT Transformation café: Ongoing IoT transformation project in process control and automated maintenance in the oil refining business

- Our test-bed refinery and the goals for connected, responsive systems
- Our automated tank loading and 'one-click' complex batch control system
- "Factory-online" direct tanker filling – process control straight from refinery to shipment
- Refinery of the future: Wireless tablet-based automated maintenance tracking with QR codes, 3d modelling support and SAP tracking

Sharul Rashid, Principal Engineer - Process Controls, PETRONAS

11:15 AM - 3:00 PM



Heraeus

Group B | (5) Design thinking café: Designing the system that makes the products - The use of design thinking and industrial analytics in production and supply chain design.

- To what extent are IoT technologies relevant to your company's value chain?
- Where can IoT technologies be applied in your company's value chain?
- What are the challenges of implementing IoT technologies?
- How can you prepare your company for the adoption of IoT technologies?
- How to use design methodology to maximize the potential of IoT technologies in your company's value chain?

Design thinking is increasingly becoming a means to attaining a competitive advantage in today's business world especially in the manufacturing industry where physical products and software experiences are converging more than ever before. Ambient information collected by connected devices, telematics and SMAC (social, mobile, analytics and cloud) that comprise the Internet of Things (IOT) are accelerating this change. It's not only bridging the gap between consumers and manufacturers but also optimizing manufacturing processes across the supply chain, helping manufacturers achieve higher operational efficiencies.

Amanda Mellek, Program Manager Digitalization, Heraeus Noblelight

11:15 AM - 3:00 PM

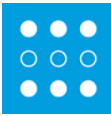


Group B | (6) Digitalization Café: Manufacturing Transformation with Machine Learning & Augmented Reality

- What Can We Achieve under the New Virtualized Environment?
- Understanding the key technology trends and how they would impact manufacturing in the future
- How industry as a whole should be transformed to enable the competition through platform economy
- What are the business drivers and process to follow for transformation

Raul Samaniego, Director of Manufacturing and Supply Chain Operations - Asia, AJE Group

12:45 AM - 2:00 PM



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12:45 AM - 2:00 PM



LUNCH BREAK & NETWORKING

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2:00 PM - 3:00 PM



WORLD CAFE SESSIONS 4 & 5

Another 2 rounds full of discussion, ideas & challenges. Find your Top 3 Key Take Aways!

3:00 PM - 3:30 PM



3:30 PM - 4:00 PM

Afternoon Keynote: The Application of Artificial Intelligence to improve safety, productivity, and energy efficiency in surface mine sites



Objectives and Takeaways

- To understand how we can use AI to develop predictive models in mine sites
- To get familiar with integrated optimization opportunities in mines using AI methods
- To better understand the application of AI making decisions algorithms in mining

Case Studies and Projects

- AI application to reduce haul truck fuel consumption in surface mines
- Truck bunching simulation and application development
- Mine locomotive engine failure prediction
- Mine locomotive fuel consumption (prediction and optimization)

Dr. Ali Soofastaei, AI Research Developer, Vale

4:00 PM - 4:30 PM

Case Study: Operations X.0 – end to end supply chain/production optimisation using classical analytics and machine learning



- Identification of cost saving potentials
- Machine Learning use cases for procurement and supply chain-operation planning
- How to start the data journey
- Autonomous Supply Chain Operation – New KPIs Identify workflows and business value in supply chain

I am motivated by the vision of how Manufacturing Operations and Procurement industry will evolve in the year 2022. To me, the new foundation for the role of an effective CPO and COO in 2022 has been laid out already in the year 2017. Having a core domain knowledge of Procurement and Supply Chain operations is a pre-requisite. But having a hands-on understanding of Data science and Automation in business scenarios is where the strategic direction lies for CXOs. I am keen to share my opinion from my decade-long experience in Supply Chain operations and Procurement industry and my 2 years journey with Data Science and Machine Learning in particular.

Gaurav Sharma, Procurement Manager and Data Scientist, Apollo Tyres

4:45 PM - 5:00 PM

SUMMARY OF THE EVENT BY THE CHAIR & we.CONECT



Andrea Götz, Director for Conferences in Industrial IoT, we.CONECT Global Leaders
CK Vishwakarma, Founder, IoTSG

5:00 PM - 5:05 PM

END OF INDUSTRY OF THINGS WORLD ASIA 2019