

2ND SMART MANUFACTURING AND INDUSTRY 4.0 FORUM

Co-Located With:
3rd Digital Supply Chain And Humanless Warehouse Forum

Main Forum: 29 – 30 October 2019
Pre - Forum Site Tours: 28 October 2019
Venue: The Langham Melbourne, Australia

GLOBAL THOUGHT LEADERS & KEY SPEAKERS INCLUDE



THE HON KAREN ANDREWS
Minister For Industry, Science and Technology



MARIO DIMOVSKI
CEO
Tradiebot Industries



CAMERON MCEACHERN
Head of Operations & Products - Oceania
DHL eCommerce



KNG KRISHNA
Director ANZ Supply Chain
Castrol BP Australia



SANTIAGO VELA GOMEZ
Strategy and Digital Transformation Lead
PACCAR
PACCAR Australia



FRANCK WEBERT
Operations and Business Transformation Director
Australia & New Zealand
Essilor International



IAN HARDCASTLE
Practice Director,
Digital Engineering and Services
Jacobs
JACOBS



JUXI LEITNER
Research Fellow
Australian Centre for Robotic Vision



MOATAZ AHMED
Plants Director
Claremont & Burnie
Mondeléz International
Mondeléz International



LEANDRO LOPEZ DIGON
Deputy Chair
Economic Development
Australia



DISCOVER THESE HIGHLIGHTS AT THE FORUM

Mondeléz International's Smart Factory Transformation Case Study

Creating Factory of the Future with Advanced Manufacturing Analytics

Smart Manufacturing and Industry 4.0 Success Stories

Boeing's Additive Manufacturing Case Study

How Ford Motor Is Getting Ready For The Industry 4.0

Why On-Demand Manufacturing Could Be the Future of Manufacturing

Advanced Manufacturing and Logistics 4.0

The Power of AI in Entire Manufacturing

PACCAR: How Data Empowers its Manufacturing

Future of Robotics in Manufacturing: Co-Bots, AI Integration and Robots as A Service

Predictive Maintenance With IoTs

How IoT, Connectivity & Data Analytics are Transforming Manufacturing

CBRE: Logistics 4.0 & Smart Supply Chain Management

DHL: Overhauling The Entire Future Supply Chain with 3D Printing

Digital Engineering and Impact on Manufacturing

+61 3 9909 7310

<http://www.claridenglobal.com>
admissions@claridenglobal.com

28 – 30 OCTOBER 2019 | THE LANGHAM MELBOURNE
REDEFINING MANUFACTURING EXCELLENCE: THE DAWN OF THE SMART FACTORY

2ND SMART MANUFACTURING AND INDUSTRY 4.0 FORUM

CO-LOCATED WITH 3RD DIGITAL SUPPLY CHAIN AND HUMANLESS WAREHOUSE FORUM

FORUM AT A GLANCE

PRE-FORUM SITE TOURS: MONDAY, 28 OCTOBER 2019

- Factories of the Future Site Tour
- Additive Manufacturing Sharing Session and Site Tour
- Robotics and Automation Site Tour

DAY 2: TUESDAY, 29 OCTOBER 2019

- Visionary Keynote: **Australia's Advanced Manufacturing Initiatives** "Industry 4.0" - Transforming the City-State into Australian's Future Manufacturing Powerhouse
- Smart Factory of the Future Case Study: Mondeléz International transforms its **Australia Plant into a Smart Factory**
- Roundtable Discussions: Smart Manufacturing and Industry 4.0 Technology **Success Stories and Takeaway Lessons from Key Players**
- Australia 3D Printing Case Study : How Additive Manufacturing enables Rapid, Low-cost Production of quality 3D-Printed Parts
- **DHL Case Study:** From Part to Whole: Overhauling The Entire Future Supply Chain with 3D Printing
- Why **On-Demand** Could Be the Future of Manufacturing
- **Dulux Industry 4.0 Case Study:** How it Transforms its Plant into a World Top Five Smart Factory
- How **Ford Motor** Is Getting Ready For The 4th Industrial Revolution: AI & Autonomous Cars
- **SMEs Panel:** How can SMEs Start to Automate their Manufacturing Floor

DAY 3: WEDNESDAY, 30 OCTOBER 2019

- **The Power of AI in Entire Manufacturing:** From Demand Planning to Automated Quality Control and Predicting Machines Breakdown
- **The Future of Robotics in Manufacturing:** Co-Bots, AI Integration and Robots as A Service
- Robots of The Future: Hyundai Ventures Further Into the Robotics Industry of The Future with Wearable Industrial Robots
- **Automotive Industry** - Examining The opportunity of open data sharing with the connected world
- Predictive Maintenance With IoT: **What It Means for Manufacturing 4.0**
- Panel: How IoT, Connectivity & Data analytics are Transforming Manufacturing
- Coles Case Study: What does State-of-The-Art Automated Warehouse of the Future Look Like?
- Woolworths Case Study: How Automated Guided Vehicles runs Smartest Warehouse
- **Logistics 4.0** - Smart Supply Chain Management with Industry 4.0



REGISTER BY
7 AUGUST 2019
TO SAVE AU\$600!

5 KEY TAKEAWAYS FROM ATTENDING THE FORUM

1. **Prepare your manufacturing capability** for the new frontier of manufacturing systems to drive greater value both on the factory floor and across the entire supply network
2. **Discover the latest advanced Industry 4.0 innovations** to enable responsive, adaptive and connected manufacturing
3. **Unlock novel digital and physical capabilities** to achieve growth and profitability in a tumultuous time
4. **Acquire practical insights, proven solutions and effective strategies** to aid in your organization's smart manufacturing transition to remain competitive
5. **Engage and network** with some of most innovative minds in the thriving times of smart manufacturing and Industry 4.0 solutions and activities

PARTICIPATING COMPANIES INCLUDE:



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PAST SPONSORS OF SMART MANUFACTURING FORUMS



HYDAC

“
Very well organized event. Staffs are very attentive and work hand in hand in putting us in contact with prospect customers.
”

Senior Marketing Specialist, Hydac

“
The conference was very good and will most likely participate again next year.
”

General Manager Strategy, Transformation & Technology, Konica Minolta



KONICA MINOLTA



SIGNAVIO

“
A special thanks to the team for helping deliver on the networking and engagement with delegates. The quality of engagement with the organizations present was made more valuable with the help of Clariden
”

Senior Marketing Manager APAC, Signavio

29 OCTOBER 2019: CHAMPAGNE NETWORKING SESSION

Enjoy a glass of champagne whilst networking with other like-minded individuals on topics that are of most interest to you and fellow delegates.



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PAST PARTICIPATING COMPANIES

Clariden Global's Smart Manufacturing Forums in the past two years have brought together hundreds of delegates from various industries and companies to discuss the opportunities and challenges of smart manufacturing and how we can work together to transform the industry:

- 3D Systems
- Agilent Technologies
- Aker Solutions
- Altus NZ
- AMS Sensors Singapore
- ASM Assembly Systems Singapore
- Australian Country Choice
- Averis
- Babcock
- Bang & Olufsen Asia
- BayCurrent Consulting
- Bendigo Kangan Institute
- Bosch
- Capral Aluminium
- Cetim Asia Pacific
- Changi Airport Group (Singapore)
- CLT Engineering
- Cohu Malaysia
- Continental Automotive Singapore
- Coraza Systems Malaysia
- CSIRO
- Dassault Systèmes Singapore
- Dell
- Dell Global B.V
- Department of Defence
- Department of Economic Development, Jobs, Transport and Resources
- Department of State Development, Manufacturing, Infrastructure and Planning
- Dimension Data (Singapore)
- DirectEdge Manufacturing
- DST

- Engro Corporation Limited
- Fec Cables
- Federation University
- Fitzroy Professional Services
- FlexLink Systems
- FrieslandCampina AMEA
- Ginkgo3D
- Globaltronic Precision
- GM Holden
- Hastings Deering
- Hicom HBPO
- Hydac
- Hydro Tasmania
- Institute of Technical Education
- IPOS
- IPOS International
- JTC Corporation
- Keysight Technologies
- Konica Minolta
- Korvis Asia
- kozato kizai
- Kraiburg Tpe Technology
- Land Engineering Agency
- Lion
- Memjet Australia
- Menicon Singapore
- Mentor Media
- NOJA Power Switchgear
- Océ Technologies B.V.
- Panasonic Asia Pacific
- Panasonic R&D Center Singapore
- PCI
- Pepperl+Fuchs Asia

- PNMB
- PT. Indesso Aroma
- Quickstep
- Republic Polytechnic
- RetroCast
- Rose Valley Steel Works
- Schaefer Kalk (Malaysia)
- Schenck Process Australia
- Schenker (Asia Pacific)
- Seal Innovations
- Shell Eastern Trading
- Sick China
- Signify
- Sime Darby Auto Bavaria
- Simitri Group International
- Skyworks Globa;
- SME Corporation Malaysia
- ST Logistics
- TAE Aerospace
- Temasek Polytechnic
- Tetra Pak Jurong
- Thales Group
- TRUMPF
- University of Auckland
- UTAC Headquarters
- Vestel Elektronik AS
- Volvo Group Truck Operations
- Warren & Brown Technologies
- Western Digital (Malaysia)
- WesTrac NSW
- Yokogawa Engineering Asia



HEAR WHAT ATTENDEES GOT TO SAY ABOUT OUR **SMART MANUFACTURING AND INDUSTRY 4.0 FORUMS**

28 - 30 OCTOBER 2019 | MELBOURNE, AUSTRALIA



“
Very high quality of content and presentation. The content was not overly theoretical and was very applicable to my own business.
”

Director, Altus NZ

“
Good speakers with comprehensive presentation and interesting insight gained on Industry 4.0.
”

Head of Package Development (Singapore),
Infineon Technologies



“
Well organized forum and full of up-to-date information regarding current industry trends.
”

R&D Engineering Manager,
Warren & Brown Technologies

“
For someone who is a total novice to Industry 4.0, I walked out of the forum reasonably informed of what this can do for Memjet and gave me some ideas on things I can implement almost immediately.
”

Process Development Team Leader, Memjet Australia



“
Very high standard content and level of presentation. The content was effectively delivered within time frame allocated. Great networking opportunity as well!
”

Specialist Engineer - Advanced Vehicle Development, GM Australia



HEAR FROM KEY EXPERTS FEATURED SPEAKERS LINE UP



THE HON KAREN ANDREWS
Minister
Department for Industry,
Science and Technology
(Invited)



MARIO DIMOVSKI
CEO
Tradiebot Industries



JOSEPH LAWRENCE
Principal Partner
ANZ Strategic Partnerships
Group



KHG KRISHNA
Director ANZ Supply Chain
Castrol, BP Australia



IAN HARDCASTLE
Practice Director, Digital
Engineering and Services
Jacob



**PROF. DIMITRIOS
GEORGAKOPOULOS**
Director of Key IoT Lab
Swinburne University
of Technology



DON MOLONEY
Deputy Director (Innovation)
Maritime Lifecycle Support
Department of Defence of
Australia



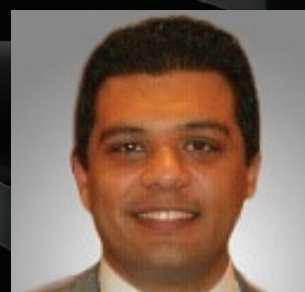
**PROF. ALEKSANDAR
SUBIC**
Deputy Vice-Chancellor
(Research & Development)
Swinburne University of
Technology



CAMERON MCEACHERN
Head of Operations &
Products - Oceania
DHL eCommerce



CHRISTINE G. MILLER
Head of Supply Chain
Advisory - Pacific
CBRE Asia Pacific



MOATAZ AHMED
Plants Director Claremont
& Burnie
Mondelēz International



HEAR FROM KEY EXPERTS FEATURED SPEAKERS LINE UP



SANTIAGO VELA GOMEZ
Strategy and Digital
Transformation Lead
PACCAR



SIMON ROWE
Supply Chain Transformation
Leader ANZ
Kimberly-Clark



JEETENDRA BHARDWAJ
Senior Enterprise Architect
-Connected Systems
Automotive Industry



JUXI LEITNER
Research Fellow
**Australian Centre
for Robotic Vision**



FRANCK WEBERT
Operations and Business
Transformation Director
Australia & New Zealand
Essilor International



**JOÃO CURADO
SILVEIRINHA**
Former Global Chief
Technology Officer (CTO)
Banlaw



LEANDRO LOPEZ DIGON
Deputy Chair
**Economic Development
Australia**



RAJDEEP JADHAV
Head of Large Industries
Air Liquide



WEI DENG
Director of Solutions
JD GROUP
(Invited)



AMAL D
Digital Platform &
Solution Architect
Woolworths Group



KEN MCALISTER
Group Manufacturing
Excellence Leader
Lion



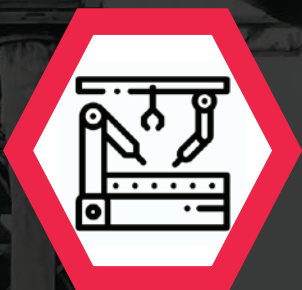
OVAIS AZIZ
Product Owner IoT
Boral



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FORUM HIGHLIGHTS



MONDELÉZ INTERNATIONAL'S
SMART FACTORY
TRANSFORMATION CASE STUDY



CREATING FACTORY OF THE
FUTURE WITH ADVANCED
MANUFACTURING ANALYTICS



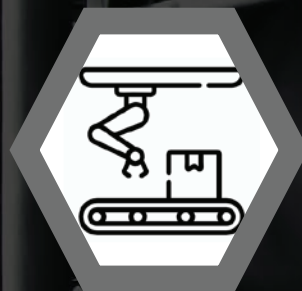
SMART MANUFACTURING
AND INDUSTRY 4.0 SUCCESS
STORIES



BOEING'S ADDITIVE
MANUFACTURING CASE
STUDY



HOW FORD MOTOR IS
GETTING READY FOR THE
INDUSTRY 4.0



WHY ON-DEMAND
MANUFACTURING COULD
BE THE FUTURE OF
MANUFACTURING



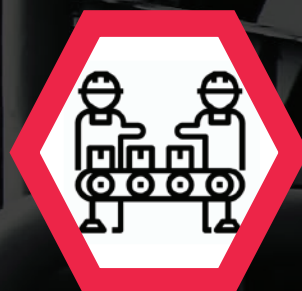
ADVANCED MANUFACTURING
AND LOGISTICS 4.0



THE POWER OF AI IN
ENTIRE MANUFACTURING



PACCAR: HOW DATA
EMPOWERS ITS
MANUFACTURING



FUTURE OF ROBOTICS IN
MANUFACTURING:
CO-BOTS, AI INTEGRATION
AND ROBOTS AS A SERVICE



PREDICTIVE MAINTENANCE
WITH IOTS



HOW IOT, CONNECTIVITY
& DATA ANALYTICS
ARE TRANSFORMING
MANUFACTURING



CBRE: LOGISTICS 4.0 &
SMART SUPPLY CHAIN
MANAGEMENT



DHL: OVERHAULING THE
ENTIRE FUTURE SUPPLY
CHAIN WITH 3D PRINTING



DIGITAL ENGINEERING AND
IMPACT ON MANUFACTURING



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10 REASONS TO JOIN US IN OCTOBER

Envision and digitally transform your manufacturing processes to start, scale and sustain their adoption of Industry 4.0 processes and solutions

Gain a 360-degree overview about the latest Industry 4.0 technologies from the key players in the scene and their corresponding tremendous economic potentials

Network, transfer knowledge and strike mutually beneficial partnerships with organization decision makers, industry experts and other stakeholders for business successes

Examine best practices of local and global organizations that have successfully launched Industry 4.0 roadmaps and achieved their economic agendas

Tap into exclusive insights, market-leading case studies and solutions from smart manufacturing experts in creating effective and customer-centric manufacturing strategies

Unveil ground-breaking initiatives enabled by smart manufacturing technologies

Gather inspiration from thought-provoking sessions to fast track your Industry 4.0 adoption to achieve manufacturing agility, efficiency, innovation and thinking

Harness unparalleled insights on the latest uses and applications of smart manufacturing solutions to improve productivity, efficiency and accuracy of operations

Discover the key technological drivers and trends for the manufacturing landscapes of ANZ and other regional hubs

Gather first-hand information on government and industry support, grants, policies and regulations, and their impacts on your digital transformation



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Who You Will Meet:

SENIORITY LEVEL OF DELEGATES

40%

Vice President /
Director /
General Manager

20%

Board / C-Level /
President / Managing
Director

20%

Head of
Department

20%

Manager

Industries (including but not limited to):

- Airlines/Aviation
- Architecture & Planning
- Automotive
- Aviation & Aerospace
- Building Materials
- Construction
- Consumer Goods
- Consumer Electronics
- Defence & Space
- Design
- Education
- Health, Wellness and Fitness
- Hospital & Healthcare
- Industrial Automation
- Machinery
- Manufacturing
- Military
- Packaging and Containers

In the Roles of:

Board level as well as senior management level as below would be beneficial from attending this forum:

- Management Planning (Design & Development)
- Design
- Engineering
- Business Innovation/Strategy
- Technology
- Manufacturing
- Packaging
- Automation
- Industrial
- Technical
- Product
- Enterprise Integration

- Data
- Maintenance
- Production (Processes/ Controls)
- Information System/Technology
- Quality Control & Assurance
- Supply Chain
- Operations
- Site/Plant/Warehouse management
- Configuration Analyst
- Prototype specialist
- Prosthetic specialist
- Research & Development
- Software developers
- UI/UX Design
- 3D Professionals



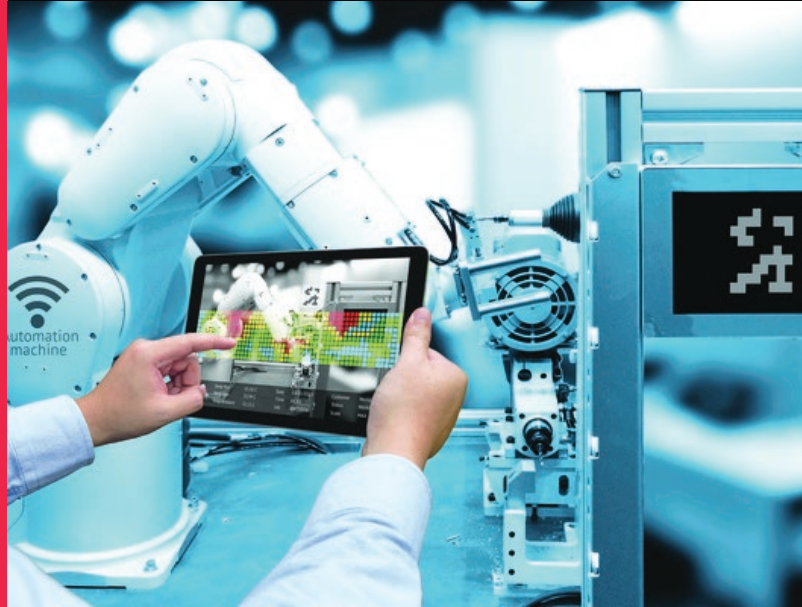
PRE - FORUM SITE TOURS

MONDAY, 28 OCTOBER 2018

Site Tour A: 09:00 - 11:00

FACTORIES OF THE FUTURE SITE TOUR

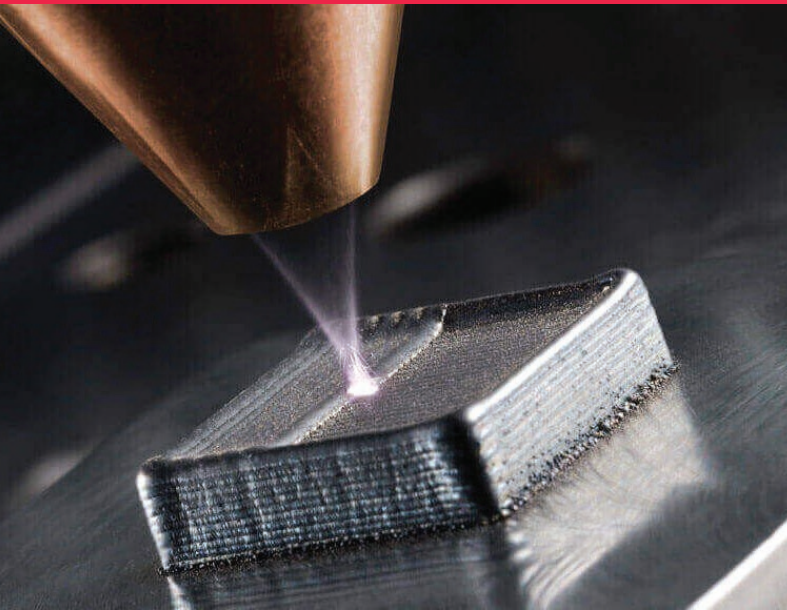
In this exclusive site tour, delegates will have a glimpse of the future of manufacturing. Delegates will be able to get up-close and personal with emerging technologies of Industry 4.0 like world-class **advancements in data and analytics, robotics and automation, and production methods such as 3-D and 4-D printing**, all of which play a **critical role in reshaping manufacturing and operations**, and helping companies achieve significant—even sensational—improvements in productivity. Hear from the leading experts in the smart manufacturing industry on how to ignite a successful smart manufacturing strategy through transforming your strategy, data and processes.



Site Tour B: 11:00 - 13:00

ADDITIVE MANUFACTURING SHARING SESSION AND SITE TOUR

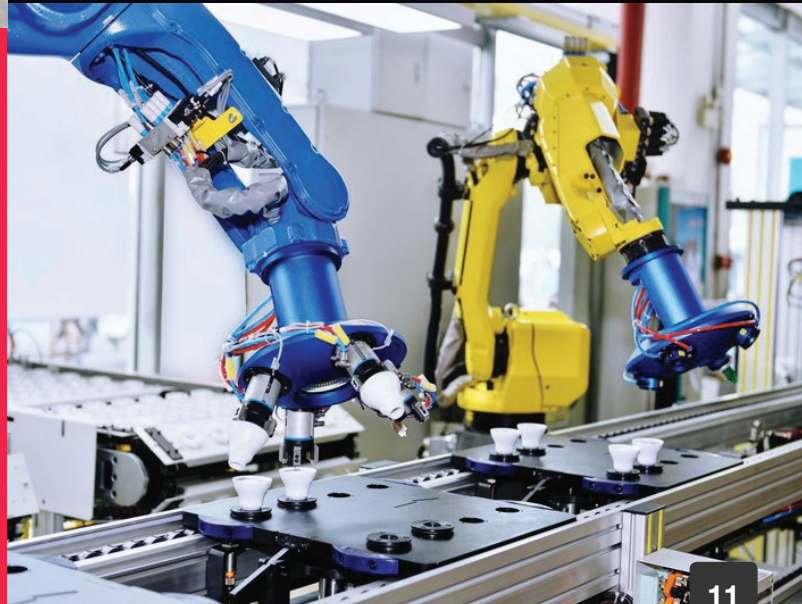
In this exclusive site tour, the leading experts in Australia's 3D printing industry will show you the diverse industrial applications of 3D printing and demonstrations of the various innovations and possibilities enabled by 3D printing: **rapid prototyping, direct tooling, rapid jig & fixture, design for additive manufacturing and process optimisation**. Join us and see how 3D printing is revolutionizing industries including manufacturing, medicine, architecture, aerospace, and many more.



Site Tour C: 14:00 - 16:00

ROBOTICS AND AUTOMATION SITE TOUR

In this exclusive site tour, join us and **discover novel robotics manufacturing solutions in hardware and software that can benefit growing industries such as food and beverage, pharmaceutical, consumer electronics, and solar photovoltaics**. Hear from the leading experts in the robotics and industrial automation sectors on how robotics automation is revolutionizing the face of manufacturing. Learn how your manufacturing processes can become even more cost competitive while meeting the highest standards of productivity and quality.



<http://www.claridenglobal.com>



admissions@claridenglobal.com



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MAIN FORUM AGENDA

29 – 30 OCTOBER 2019 | MELBOURNE, AUSTRALIA

DAY ONE - 29 OCTOBER 2019

THE RISE OF SMART MANUFACTURING AND INDUSTRY 4.0 TECHNOLOGIES

09:00 Welcoming Speech, Opening Remarks & Thank You Sponsor Speech by Conference Producer

09:15 **Keynote: Australia's Advanced Manufacturing Initiatives "Industry 4.0" - Transforming the City-State into Australian's Future Manufacturing Powerhouse**

- How digital transformation can help Australia's manufacturing sector handle pressure from both regional competition and domestic restructuring
- Smart Manufacturing as a key driver for Australia's growth towards an innovation-driven economy
- Australia's i4.0 strategy to move the industry towards quicker adoption and help manufacturers transition from a value-add model to a value creation model



THE HON KAREN ANDREWS
Minister
Department of Industry, Science and Technology



PROF. ALEKSANDAR SUBIC
Deputy Vice-Chancellor (Research & Development)
Swinburne University of Technology



09:45 **Smart Factory of the Future Case Study: Mondelēz International transforms its Australia Plant into a Smart Factory**

- Embracing horizontal, vertical and digital integration
- Embracing digitalization : building the foundation and starting pioneer initiatives
- Becoming smarter : Incorporating advanced manufacturing elements like robotics, automation, real-time global production network and end-to-end digital integration



MOATAZ AHMED
Plants Director Claremont & Burnie
Mondelēz International



10:15 Morning Refreshment & Networking

10:30 **Roundtable Discussions: Smart Manufacturing and Industry 4.0 Technology Success Stories and Takeaway Lessons from Key Players**

1. Advanced Manufacturing Analytics
2. 3D Printing and Additive Manufacturing
3. Artificial Intelligence, Robotics and Automation
4. IoTs & Sensors in Manufacturing
5. Automated Warehouse & Supply Chain



KHG KRISHNA
Director ANZ Supply Chain
Castrol, BP Australia



FRANCK WEBERT
Operations and Business Transformation
Director Australia & New Zealand
Essilor International



JUXI LEITNER
Research Fellow
Australian Centre for Robotic Vision



RAJDEEP JADHAV
Head of Large Industries
Air Liquide



KEN MCALISTER
Group Manufacturing Excellence Leader
Lion



ADDITIVE MANUFACTURING & 3D PRINTING

11:30 **Australia 3D Printing Case Study : How Additive Manufacturing enables Rapid, Low-cost Production of quality 3D-Printed Parts**

- Unique advantages of 3D printing over powder-based and wire-based 3D Printing systems and techniques
- Additive manufacturing generating value by reducing the cost and time needed to design, build and deliver products to customers
- How 3D printing will help to produce parts faster and at higher volume



DON MOLONEY
Deputy Director (Innovation)
Maritime Lifecycle Support
Department of Defence of Australia



12:00 **DHL Case Study: From Part to Whole: Overhauling The Entire Future Supply Chain with 3D Printing**

- 3D Printing's limitless potentials in simplifying the production of highly complex and customizable products and parts
- Massive benefits offered by Additive Manufacturing: Increased speed to production, manufacturing design freedom, and just-in-time and on-demand manufacturing
- End-of-runway services to achieve fast response times and speed to market for time-sensitive shipment of critical parts



CAMERON McEACHERN
Head of Operations & Products - Oceania
DHL eCommerce



12:30 Lunch & Networking



MAIN FORUM AGENDA

29 - 30 NOVEMBER 2018 | THE LANGHAM MELBOURNE

13:30 The Frontiers of Digital Design and Manufacturing: How the New Era of Manufacturing Will Be Enabled by Highly-Integrated Digital Advances

- 4D printing and the world of novel, smart and high performance materials
- Simultaneously enabling the design of the product, its materials, and their manufacturing processes
- Computer-aided design system to enable designers to take advantage of the unique capabilities of additive and digital manufacturing



IAN HARDCASTLE
Practice Director, Digital Engineering and Services
Jacob



14:30 Why On-Demand Could Be the Future of Manufacturing

- How On-Demand Manufacturing Can Reduce Costs, Improve Supply Chain Efficiency
- How 3D Printing can help to accelerate on-demand manufacturing?
- How on demand manufacturing Improve pilot production



DON MOLONEY
Deputy Director (Innovation)
Maritime Lifecycle Support
Department of Defence of Australia



15:00 Afternoon Refreshments & Networking

15:30 Dulux Industry 4.0 Case Study: How it Transforms its Plant into a World Top Five Smart Factory

- Transforming an end-to-end automated plant from traditionally labor-intensive
- How DuluxGroup is leveraging IoT to innovate its products and solutions into the connected era as a material science based manufacturing company
- Fundamentals of and learning lessons from innovating for IoT
- How implementing an Industry 4.0 facility opens up opportunities for growth and product innovation on a scale



BREAKTHROUGH INNOVATION CASE STUDIES IN INDUSTRY 4.0

16:00 How Ford Motor Is Getting Ready For The 4th Industrial Revolution: AI & Autonomous Cars

- How Ford Motor is taking a proactive approach to the inevitable shift to autonomous vehicles
- Artificially intelligent self-driving cars video, radar, light detection, distance sensing capable of "communicating" with pedestrians and other vehicles



MARIO DIMOVSKI
CEO
Tradiebot Industries



16:30 SMEs Panel: How can SMEs Start to Automate their Manufacturing Floor

- How will smart manufacturing disrupt the business models of SMEs?
- Is there a place for SMEs in smart/advanced manufacturing?
- Understanding the assistance and solutions available for SMEs



JOSEPH LAWRENCE
Principal Partner
ANZ Strategic Partnerships Group



JOÃO CURADO SILVEIRINHA
Former Global Chief Technology Officer (CTO)
Banlaw

17:00 Closing Remarks by Forum Chairperson

17:15 Champagne Networking



Enjoy a glass of champagne whilst networking with other like-minded individuals on topics that are of most interest to you and fellow delegates.



MAIN FORUM AGENDA

29 - 30 OCTOBER 2019 | MELBOURNE, AUSTRALIA

DAY TWO - 30 OCTOBER 2019

FACTORY-FORWARD - HOW ADVANCED MANUFACTURING AND LOGISTICS 4.0 CAN TAKE ROOTS

09:00 Welcoming Speech, Opening Remarks & Thank You Sponsor Speech by Conference Producer

ARTIFICIAL INTELLIGENCE, MACHINE LEARNING AND ROBOTICS AUTOMATION

09:15 **The Power of AI in Entire Manufacturing: From Demand Planning to Automated Quality Control and Predicting Machines Breakdown**

- AI radically improving the efficiency and effectiveness of decision-making in highly complex data environments while embedding an ever-increasing amount of knowledge within these intelligent systems
- How machine learning and deep learning can transform planning, scheduling and predictive maintenance
- Applying sophisticated robots for accuracy and quality and self-organize logistics for seamless deliveries



PROF. DIMITRIOS GEORGAKOPOULOS
Director of Key IoT Lab
Swinburne University of Technology



09:45 **The Future of Robotics in Manufacturing: Co-Bots, AI Integration and Robots as A Service**

- Increase in Co-bots
- Artificial Intelligence integration
- Cloud robotics
- Robotics as a Service (RaaS)



JUXI LEITNER
Research Fellow
Australian Centre for Robotic Vision



10:15 *Morning Refreshment & Networking*

10:30 **Robots of The Future: Further Into the Robotics Industry of The Future with Wearable Industrial Robots**

- How robotics not only offers future mobility solutions but also presents alternative solutions to reduce workforce productivity decline
- State-of-the-art technologies in wearable robots, service robots and micro-mobility to prevent workplace accidents and increase efficiency
- Deep investments and collaborative efforts to further efforts and commitment in artificial intelligence and robotics



JUXI LEITNER
Research Fellow
Australian Centre for Robotic Vision



ADVANCED MANUFACTURING ANALYTICS & INDUSTRIAL IOTS

11:00 **(Automotive Industry) Examining The opportunity of open data sharing with the connected world**

- Examining how a collaboration data system can help organisations work towards cross industry ecosystem
- Identifying the current barriers to data sharing between jurisdictions and implementing strategies to address this
- Evaluating how your organisation is driving



JEETENDRA BHARDWAJ
Senior Enterprise Architect -Connected Systems
Automotive Industry

11:30 **Tonsley Manufacturing Innovation Hub (TMI) Case Study: Boosting Factory of the Future's Industry 4.0 capability with advanced manufacturing training**

- Accelerating the growth of advanced manufacturing by skilling future workforce with the adoption of digital technologies
- Showcase latest automation, advanced robotics and the Internet of Things in transforming future manufacturing
- Application of the Industry 4.0 in highly networked and flexible cloud-based production systems

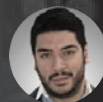


LEANDRO LOPEZ DIGON
Deputy Chair
Economic Development Australia



12:00 **Empowering Manufacturer with AR/VR/MR to Gain Insights on Equipment Health and Product Models to Improve Plant Operations**

- Explore trends and the future projections of AR and VR applications
- Increase floor productivity by leveraging new technology over contemporary laptops and manuals
- Create 360-degree reality with AR/VR/MR to improve industrial processes with context-sensitive support and real-time traceability



SANTI (SANTIAGO VELA GOMEZ) VELA
Strategy and Digital Transformation Lead
PACCAR



12:30 *Lunch & Networking*



MAIN FORUM AGENDA

29 – 30 OCTOBER 2019 | MELBOURNE, AUSTRALIA

13:30 Predictive Maintenance With IoT: What It Means for Manufacturing 4.0

- Breaking the tradeoff: Leveraging the power of the smart factory
- The long-awaited potential to optimize maintenance tasks in real time, maximizing the useful life of equipment while minimizing downtime and disruptions
- Advanced data analytics from critical equipment sensors, ER and CMM systems and production to enable accurate prediction models and proactive maintenance



PROF. DIMITRIOS GEORGAKOPOULOS
Director of Key IoT Lab
Swinburne University of Technology



14:00 Panel: How IoT, Connectivity & Data analytics are Transforming Manufacturing

- How IIoT and the rising state of interconnectivity are shaking up traditional industrial business models
- Discovering key IIoT technologies, how they interact, and how you can customize them to fit the specific needs of your applications
- Best practices to create a digital, intelligent and predictive factory with IIoT



SIMON ROWE
Supply Chain Transformation Leader ANZ
Kimberly-Clark



AMAL D
Digital Platform & Solution Architect
Woolworths Group



OVAIS Aziz
Product Owner IoT
Boral



AUTOMATION IN SMART WAREHOUSES & SUPPLY CHAIN

14:30 How JD.com Built A Fully Autonomous Warehouse The Size Of 7 Football Fields With Nearly Zero Employees

- Instead of the usual 500 people to run a 40,000m² fulfilment warehouse, JD.com - China's logistics and e-commerce giant employ just four people, whose jobs centred around servicing the robots running the warehouse the size of 7 football fields. The warehouse's complex network of automated machineries is made up of over 1,000 industrial robots that pick, scan, sort, transfer and pack packages using crates on conveyor belts, as well as camera systems and robot controllers. The packages are then picked up by driverless forklifts and brought to the core corresponding truck for delivery to the right destination. With robots alone, the centre can handle over 200,000 orders a day.



WEI DENG
Director of Solutions
JD GROUP (Invited)



15:00 Afternoon Refreshments & Networking

15:30 Woolworths Case Study: How Automated Guided Vehicles runs Smartest Warehouse



- Showcase Woolworths' new fully automated distribution centre - AU\$215 million facility
- Optimize productivity and efficiency with high-speed conveyor belts technology and multi-storey racking systems
- Increase flexibility by replacing AGV with others during maintenance and providing maximum availability on its daily operation

16:00 Logistics 4.0 - Future Warehousing & Smart Supply Chain Management

- The big impact areas of change for the warehouse of the future?
- The trends for the warehouse of 2025?



CHRISTINE G. MILLER
Head of Supply Chain Advisory - Pacific
CBRE Asia Pacific



16:30 Edge Computing: How Edge Computing will Improve Manufacturing Reliability, Speed and Resilience

- Massive benefits of edge computing: Enhancing disaster recover, speed, resilience and security
- Reliable on-premises edge computing resources that can gather and process IoT data and maintain the pace of production
- Why Edge computing systems should integrate with cloud environments to create a hybrid edge-cloud infrastructure

17:00 Closing Remarks by Forum Chairperson



MAKE THE MOST OF 2ND SMART MANUFACTURING AND INDUSTRY 4.0 FORUM

CO-LOCATED WITH: 3RD DIGITAL SUPPLY CHAIN AND HUMANLESS WAREHOUSE FORUM
28 - 30 OCTOBER 2019 | MELBOURNE, AUSTRALIA

Association Partner



South East Melbourne Manufacturers Alliance (SEMMA) was established in 2003 to support manufacturing in Melbourne's South and East region.

Current membership base of 210+ companies representing a sales value of over \$5Billion, over 15,000 employees and over an estimated 60,000 jobs in support sectors.

SEMMA strives to remain the leading voice in Victoria representing the interests of the manufacturing community in our region. We engage with State and Federal Government on key issues facing our members and we collaborate and engage with the regional Councils to reinforce our message on a local scale. Through collaboration with R&D organisations such as CSIRO, Monash, Deakin and Swinburne we introduce technology opportunities to you.

In essence, we strive to achieve our goal "Working together as one Team"

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Do you have solutions to assist and contribute to the overall improvement of the manufacturing industry? Looking for the ideal platform to raise your profile and to increase your ROI?

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- **Unparalleled industry exposure**
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- **Reaffirming your position in the industry and Long-term business partnerships**

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- **Affiliation with an internationally recognized commercial event organizer**

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Job Title: _____ Department: _____

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FORUM FEES





Forum Packages	Super Early Bird Fee (if payments and registrations are received by 7 Aug 2019)	Early Bird Fee (if payments and registrations are received by 4 Sep 2019)	Final Early Bird Fee (if payments and registrations are received by 2 Oct 2019)	Regular Fee
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A: 2-day Individual Pass for 2nd Smart Manufacturing and Industry 4.0 Forum Only (Most Popular)	AU\$1,995	AU\$2,195	AU\$2,395	AU\$2,595
B: 2-day Individual Pass for 2nd Smart Manufacturing and Industry 4.0 Forum + 1-day Pre-Forum Smart Manufacturing Site Tours	AU\$2,495	AU\$2,695	AU\$2,895	AU\$2,995
ALL ACCESS PASS (3RD DIGITAL SUPPLY CHAIN AND HUMANLESS WAREHOUSE FORUM + 2ND SMART MANUFACTURING AND INDUSTRY 4.0 FORUM)				
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PLEASE NOTE: The forum fee includes lunch, refreshments and forum documentation. Payments are required with registration and must be received prior to the forum to guarantee your place.

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FORUM VENUE AND ACCOMMODATION INFORMATION

The Langham Melbourne
 28 - 30 October 2019
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 Phone: +61 3 8696 8888
 Website: <http://www.langhamhotels.com/en/the-langham/melbourne/>

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