

SIAA QUARTERLY NEWSLETTER

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EDITION



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MEET OUR NEW CORPORATE MEMBERS

Welcome to the SIAA community !



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[Automated Micron Assembly Pte Ltd](#)



[Bossard Pte Ltd](#)



[Hibex Singapore Pte Ltd](#)



[Jeff Supplies Pte Ltd](#)



[Nachi Singapore Pte Ltd](#)



[Omega Consulting and Management Services Pte Ltd](#)



[PBA Systems Pte Ltd](#)



[Pilz South East Asia Pte Ltd](#)



[PNR Engineering Systems Pte Ltd](#)



[Priboy Shipping Supplies Pte Ltd](#)



[Republic Polytechnic](#)



[Skylab Networks Pte Ltd](#)



[Solustar Pte Ltd](#)



[Transtec Technology Pte Ltd](#)

SIAA WISHES ALL



COUNTRY INSIGHTS UNITED KINGDOM



The UK: Home of World-leading technology



Global Tech City:
Europe's fastest
growing tech capital



Culture of Innovation: Strong
start-up culture bolstered by
tech clusters all over the UK



Highly Competitive: Especially in high
tech areas such as automotive, additive
manufacturing, advanced composite
materials, data analytics

Proudly made in the UK:
Global reputation for
quality, reliability and
ethics



Advanced Manufacturing & Automation



High Growth : Advanced manufacturing
productivity grew 3 times faster than the
rest of UK's economy as a whole

Attractive Proposition to Investors:
UK businesses spent over 90 billion
GBP on products to support the
advanced manufacturing industry in
2017



UK's High Value Manufacturing Network:
Helping companies accelerate from early
stage research towards full
commercialisation

UK's High Value Manufacturing Catapult Automation Forum:
Understanding interactions between humans and machines to provide
automated systems with the cognitive ability to react to changes in
consumer demand and product variability.

The UK is one of the world's great technology ecosystems. It is home to thousands of dynamic, high quality and innovative companies – from the most exciting new startups to global brands with centuries of history. This infographic shows you the UK's highlights as a country and in the focus industry of Advanced Manufacturing & Automation. For more information, visit great.gov.uk

UPDATES

THE SINGAPORE INTERNATIONAL ROBO EXPO 2017 WAS A SUCCESS!

Taking place from 2 to 3 November 2017, the Singapore International Robo Expo (SIRE) 2017 was a resounding success, hosting over 2,500 local and international attendees comprising industry captains, government officials, investors, academia, and sectoral practitioners, who came together in discourse on "Optimising Solutions & Accelerating Transformation". The two-day event enriched delegates' knowledge on exploring the impacts and challenges facing the industry through its conference and expert speakers. Concurrently, the SIRE expo proved to be a valuable source for partnerships, expansion of business networks, and growth of brand visibility. It featured showcases from renowned and international companies, including 3 country pavilions from United Kingdom, The Netherlands and Singapore, as well as new initiatives like the inaugural Startup Marketplace.



The Singapore International Robo Expo (SIRE) will return from 1 – 2 November 2018 at the Sands Expo & Convention Centre, Marina Bay Sands! In its 3rd edition, SIRE aims to be a platform that creates opportunities for people to **meet, connect and convert**. As the industry moves towards decreasing costs and greater flexibility of robotics technology, it is important to bring together the trade and community segments in dialogue on the business capabilities and **wider adoption of robotics**."

Coming up!

MEMBERS' VISIT TO OMRON ATC @ 26 JAN 2018 TIME: 2.30pm

SINGAPORE, 28 September, 2017 – OMRON Asia Pacific, a global leader in automation technology, announced the launch of its Automation Center (ATC) in Singapore. Professor Quek Tong Boon, Chief Executive, National Robotics Programme, and Mr Takehito Maeda, Managing Director of Industrial Automation Business, OMRON Asia Pacific, officiated the centre's opening.

The OMRON ATC in Singapore offers a glimpse into the future of manufacturing. It is dedicated to exploring the use of advanced artificial intelligence (AI), the Internet of Things (IoT), and robotics technologies for manufacturing applications.

Visitors will get to see a working model of OMRON's Smart and Future Factory, and the Future CEO Cockpit, which showcase how a new level of manufacturing intelligence and operational visibility can be attained through disruptive technologies."

Finally, the OMRON ATC in Singapore will provide a realistic platform for the team to work with customers across industries -- including automotive, electronics and healthcare -- to test new ideas and allow them to experience first-hand the benefits of industrial automation. This ultimately helps companies to find new ways of doing things to overcome business challenges and better meet the needs of their customers.



IoT Asia 2018



Stand a Chance to Win Conference Passes!

Much is said about digital transformation but what does it really mean for you and your organisation? What do you think and how should you prepare for a technological future that is still playing out?

Share your views and concerns in IoT Asia 2018's survey, our 1st-ever collaborative study with the Lee Kuan Yew Centre for Innovative Cities (LKYC) at Singapore University of Technology and Design (SUTD) that combines industry expertise with research rigour. Click [here](#) to go to the survey!

Need more reasons to participate?

- Respondents will receive an advance copy of the survey report with actionable insights
- Completed surveys received by 15 Jan 2018 will stand a chance to win IoT Asia 2018 All Access conference passes
- First 200 respondents will receive IoT Asia 2018 on-site F&B vouchers

IoT ASIA | 21-22 March 2018
SINGAPORE EXPO
INTERNATIONAL EXHIBITION & CONFERENCE ON THE INTERNET OF THINGS
TRANSFORMING BUSINESSES, GOVERNMENT AND SOCIETIES
www.internetofthingsasia.com | #iotasia

SIAA members get
EXTRA 30% OFF
conference rates except
Academic.
Use code IOT18SIAA30

SME OUTREACH WORKSHOP

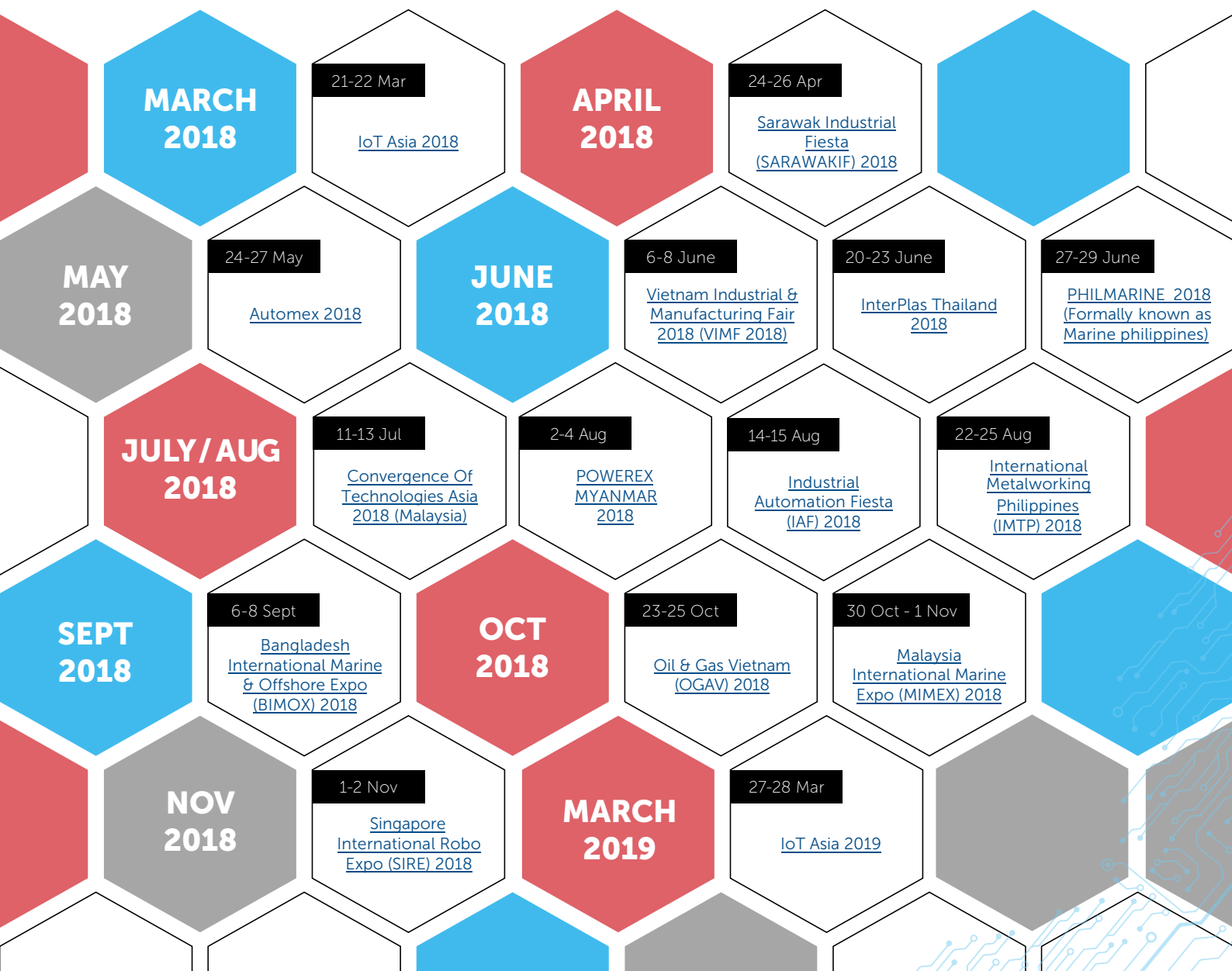
DATE : 2 MAR 2018



The 1st SME Outreach Workshop for 2018 will be held on 2 Mar. The theme is "IoT in Tourism and Hospitality". Singapore Tourism & Hospitality sector is a growing industry. The city registered 17.6 million visitors this year. Singapore snagged the fourth spot in a list of the most visited cities worldwide for the second time in a row, according to Euromonitor International's top 100 city destinations. Inbound arrivals in Singapore grew by 6.1% and is projected to grow at an exponential rate for the next eight years with projected visitor arrivals pegged at 21.3 million for 2020 and 30.2 million for 2025. As arrival numbers continue to soar, congestion is increasingly becoming an issue in Singapore with its limited land area. To respond to this problem and ensure continued arrivals, mobility, health and environment projects will be rolled out under the Smart Nation Initiative. It is important for companies to ride on this tide and be part of the transformation of the hospitality sector where technology is a major part of this journey as due to the rise of digital trends.

FIND OUT THE UPCOMING iMAP EVENTS!

*iMAP application results to be released in Feb 2018.



MEMBERS' and PARTNERS' NEWS

Request for Proposal (RFP) for Autonomous Environmental Service Vehicles (AESV)

Supported by the National Robotics Programme and in partnership with Ministry Of Transport, National Environment Agency has just launched the **Request for Proposal (RFP) for Autonomous Environmental Service Vehicles (AESV)** – Cleaning of public roads and pavements.

The AESV RFP is already published on IGMS (<http://researchgrant.gov.sg>), you can visit the website for further details.

The AESV to be developed is an outdoor utility vehicle capable of cleaning roads and/or pavements; collecting debris, litter and leaves from the roads and/or pavements; and dispose of the stored litter automatically without much human intervention. Closing date is **16 Mar 2018 (noon)**.

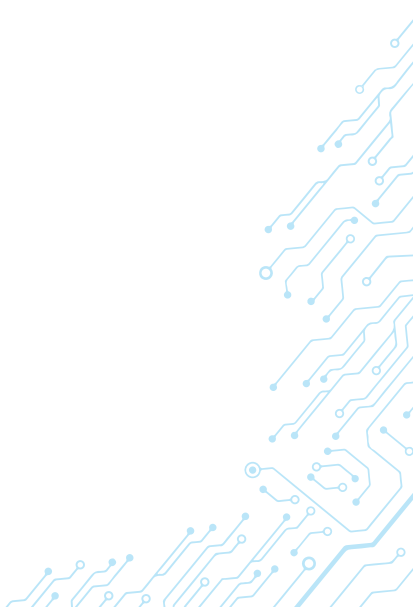
SINGAPORE SMART INDUSTRY READINESS INDEX (SIRI)

Get a copy of Singapore Smart Industry Readiness Index by EDB now!

The Singapore Smart Industry Readiness Index is a world's first Industry 4.0 tool that is developed by the government for nationwide transformation of industrial sectors. The Index is a diagnostic tool that companies – across all industries and sizes – can use to better understand Industry 4.0 concepts, evaluate the current state of their facilities, architect a comprehensive transformation roadmap and deliver concrete, sustained value for their businesses.

The index draws reference from the RAMI1 framework and was validated by an advisory panel of 21 academic and industry experts. The Index was also piloted with both small medium enterprises and multinational corporations in Singapore to ensure a balance between technical rigour and usability.

A downloadable copy of the Index can be found at: <https://www.edb.gov.sg/content/edb/en/news-and-events/news/2017-news/advanced-manufacturing-release.html>.



TECHNOLOGY OFFER

TP AGV AUTONOMOUS TRANSPORTER

Technology Overview

Intelligent/collaborative robots are great tools for improving productivity in the manufacturing environment. They are designed to work along-side humans.

The TP AGV robot provides a simple, lean solution for materials transportation, and can handle payloads of up to 50kg (can be customized to handle higher payload). It is fully autonomous and can navigate narrow spaces with position accuracy of $\pm 35\text{mm}$. The TP AGV robot uses open-source Robot Operating System (ROS), is modular and easy to configure, customizable and scalable, unlimited extension to include vision, GPS, camera, 6-axis arm with 3-finger hand and other gadgets, etc.

Customer Benefits

The goal is to make the hardware and software development for the transporter robot more accessible to SMEs and robotics researchers, by lowering the development cost and increasing the capabilities of the robot. This will allow SMEs and researchers without hardware/software expertise to participate in the implementation and deployment of transporter robots in manufacturing plants. The TP AGV transporter robot will be an affordable and easily assembled test-bedding platform for SME industry and the robotics research community at large.

Potential Applications

Some of the possible applications are deployment in work spaces that are hazardous to humans. Other applications include developing a modular robotics system with capabilities which can be scaled appropriately to achieve a variety of unspecified tasks, for example, cooperative mobile platform to create a production transporter chain. Other possible spin-offs are medical robot, warehouse robot and tour-guide robot.



STREAMLINE ASSEMBLY AND JOB MANAGEMENT TO MEET DEMAND



Watch this On-Demand Webcast by Epicor expert, Frank McLoughlin to learn how to **improve your assembly processes and quickly review the relationship between production jobs and demand.**

Job Management is a comprehensive production control solution designed specifically for the planning, routing, scheduling, costing, and tracking of products. It includes innovative tools for better planning and costing with historical run analysis that compares estimates to actuals on a run-by-run basis.

Explore how the Epicor assembly and job management capabilities provide;

- Ensure that orders or changes don't fall through the cracks
- Perform job costing by job, customer, part product group, or overall company basis.
- For assemblies produce routings, costing, and tracking of single or multiple-level parts
- Easily identify wasted processes and continuous improvement on the production floor

DOWNLOAD



If you have any questions, please contact us at seamarketing@epicor.com.