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Industry Collaborations, New Automotive Facilities and Automotive Trends Front ITE's Inaugural Automotive Conference

The automotive industry has seen several trends in recent years; trends such as autonomous vehicles, e-mobility, shifts in business models and more. To help our graduates and industry partners navigate the changing automotive landscape, ITE held its inaugural Automotive Conference on 27 February 2018 at ITE College West.

The theme of the Conference – ***The Evolving Automotive Landscape*** – addressed an urgent need to evolve and adapt to the rapid changes in the automotive industry. Four speakers were invited to speak on the trends the automotive industry is currently experiencing. These topics touch on e-mobility, autonomous vehicles, innovation in the industry, and electric vehicles. A synopsis of the topics can be found in **Annex A**.

Innovating to Suit Industry Needs

As part of the Conference, ITE's Technical Engineering Diploma (TED) in Automotive Engineering students also showcased their projects, some of which were done in collaboration with local companies. Two of these projects – a High Efficiency Spark Arrester System and a Resistive Load Bank (used for analysing fuel efficiency) – are currently being adopted by local construction company, Samwoh Corporation Pte Ltd, and construction equipment company, Yum Fong Trading Co. Pte Ltd. A synopsis of these projects can be found in **Annex B**.

New Automotive Facilities

During the Conference, ITE College West also unveiled its newly renovated automotive facilities. As the only Post-Secondary Education Institution offering automotive courses, ITE needs to ensure that its students are kept up to date with market trends and automotive technology. The upgraded facilities, which comprise a total of 10 workshops and two TED classrooms, will do just that.

With the newly upgraded facilities, the 700 students and adult learners that ITE trains on a yearly basis will enjoy cleaner and brighter working environments that are

equipped with advanced technology and the latest models of training vehicles. These would enable them to handle the new hybrid and electric vehicles as well.

**Figure includes full-time, CET, SkillsFuture and Traineeship courses.*

Support from Industry

ITE has the privilege of enjoying tremendous support from its industry partners and the Automotive Conference is testament to that. During the Conference, ITE welcomed three more companies which have pledged their support in helping to train our students in the field of automotive engineering. This was done through the signing of three separate Memorandums of Understanding (MOU) – with **Tower Transit Singapore Pte Ltd, HDT Singapore Holding Pte Ltd, Gates Industrial (S) Pte Ltd.**

As part of the MOUs, each company will be work with ITE to train students in technical services on buses (Tower Transit), electric vehicles (HDT Singapore Holding) and industrial power transmission (Gates Industrial). In addition, they will also provide internship places to selected students for 20 weeks; authentic learning opportunities through learning journeys, projects and seminars for both students and staff; as well as Achiever Awards and Book Prizes for outstanding students.

Released on: 27 February 2018

About ITE

The Institute of Technical Education (ITE) is a post-secondary education institution established in **1992** under the Ministry of Education. As a principal provider of career and technical education, and a key developer of national occupational skills certification and standards, ITE's **Mission** is to create **opportunities** for students and adult learners to acquire skills, knowledge and values for employability and lifelong learning. ITE's **Vision** is to be A **Trailblazer** in Career and Technical Education. Our **Values** are **Integrity, Teamwork, Excellence** and **Care**. ITE comprises the ITE Headquarters and three ITE Colleges - College Central, College East and College West.

SYNOPSIS OF TOPICS

TECHNOLOGY TRACK

Singapore's Plans for e-Mobility

By Dr Evan Gwee

Deputy Director, Future Mobility Research, Land Transport Authority

Synopsis:

In line with the national strategy to position Singapore as a "Living Laboratory" and to test new technologies for a more liveable and sustainable Singapore, LTA embarked on efforts to promote the use of electro-mobility in 2011 to explore the feasibility of using electric vehicles. This is a key strategy to mitigate carbon emissions from the transportation sector. Dr Gwee will share some insights on the work that has been done to promote e-mobility in Singapore for the past seven years, and LTA's plans going forward.

Autonomous Vehicles in Car-lite Singapore

By Mr Niels de Boer

Programme Director, Centre for Excellence for Testing & Research of Autonomous Vehicles, Nanyang Technological University

Synopsis:

Singapore has a vision of being a car-lite society and autonomous vehicles will play an important role in that. Mr de Boer will give an overview of the steps being taken to make autonomous vehicles a reality, the challenges in achieving ready-to-be-deployed autonomous vehicles, and how they will impact our daily lives.

SHARING ECONOMY & INNOVATION TRACK

Understanding the Truth of Innovation

By Mr Vic Naidu

Head, TRIGEN Automotive, HOPE Technik Pte Ltd

Synopsis:

Innovation – today's buzz word for companies to stay competitive and also a key factor of what drives the core of TRIGEN's identity. Yet, with innovation, there comes a series of the less-talked about issues. In this session, Mr Naidu will share what TRIGEN has achieved through the years and the challenges the team has to overcome to go global.

Joining the Clean and Renewable Energy Market: the vast potential of electrical usage in Singapore

By Mr James Ng

Managing Director, HDT Singapore Holdings Pte Ltd

Synopsis:

Electric vehicles (EVs) are increasingly regarded as a sustainable mode of transport as they can help reduce carbon emissions. They are also seen as more efficient than internal combustion engine vehicles. There are signs that they will replace conventional vehicles in the near future. Mr Ng will touch on the potential for EVs in Singapore, and how the operating costs of an EV will be significantly lower than that of an equivalent internal combustion vehicle as its technology advances.
