



INDUSTRY TRANSFORMATION:
IMPERATIVES FOR FUTURE SKILLS AND LEARNING

SINGAPORE INTERNATIONAL TVET CONFERENCE 2018

3–4 OCTOBER 2018

Organised by



Institute of Technical Education

Supported by



Ministry of Education
SINGAPORE

■ SPEAKERS



KEYNOTE SPEAKER

Mr Andreas Schleicher

Director for Education and Skills, and Special Advisor on Education Policy to the Secretary-General, Organisation for Economic Co-operation and Development (OECD)

EDUCATING STUDENTS FOR THEIR FUTURE, NOT OUR PAST

In the 21st century, the kinds of things that are easy to teach have become easy to digitise and automate. The future is about pairing the artificial intelligence of computers with the cognitive, social and emotional skills and values of human beings. And it is about constantly learning, unlearning and relearning in a world where education and work are closely integrated, and where lifelong skills-based learning supersedes stacking up qualifications upfront. The presentation will examine where countries stand against these challenges.



KEYNOTE SPEAKER

Mr Volker Schebesta

Deputy Minister for Education & State Secretary, Ministry of Education, Youth and Sports (KM), Baden-Württemberg, Germany

VOCATIONAL EDUCATION 4.0 — CHALLENGES AND APPROACHES OF PREPARING THE WORKFORCE FOR THE SKILLS NEEDED IN A DIGITALISED WORLD OF WORK

The ongoing digital revolution is changing all fields of our lives drastically. It has changed ways of private communication but even more the production and working processes in industry and commerce. Routine operations are taken over by machines and the operation of digitalised systems calls for more complex skills at the operator. This development forces education policy makers worldwide to rethink concepts of qualification for the future workforce. Based on an analysis of the current situation of the dual system of vocational training in Germany, the presentation will reflect approaches to meet these new digital challenges. This includes questions like revision and modernisation of curricula, training structures and equipment, as well as requalification of teaching and training staff.

SPEAKERS

Dr Carl Frey

Co-Director, Oxford Martin Programme on Technology & Employment, Oxford Martin School, University of Oxford, United Kingdom

Mr Lam Yi Young

Deputy Secretary (Future Economy), Ministry of Trade & Industry, Singapore

Mr Enrico Rühle

Board Member, Festo Didactic SE, Germany

Mr Ong Kim Pong

Regional CEO, Southeast Asia, PSA International Pte Ltd, Singapore

Ms Janet Ang

Vice-President, Industry Solutions & Business Development, IBM Asia Pacific, IBM Innovation Services Pte Ltd, Singapore

Mr Gilbert Tan

Chief Executive Officer, Employment and Employability Institute (e2i), and Assistant Director-General of the National Trades Union Congress (NTUC), Singapore

Mr Ng Cher Pong

Deputy Secretary (SkillsFuture), Ministry of Education and Chief Executive, SkillsFuture Singapore

Dr Carrie Yau

Executive Director, Vocational Training Council, Hong Kong

Mr Lim Peng Hun

Deputy Principal (Academic), Singapore Polytechnic, Singapore

Dr David Ross

President and Chief Executive Officer, Southern Alberta Institute of Technology, Canada

Mr Patrice Choong

Director, Innovation & Entrepreneurship, Ngee Ann Polytechnic, Singapore

Mr Tan Seng Hua

Dean, ITE Academy and Senior Consultant, ITE Education Services, Institute of Technical Education, Singapore

Ms Mary Faraone

Chair, TAFE Directors Australia (TDA), and Chief Executive, Holmesglen Institute, Australia

PROGRAMME DETAILS

WED 03 Oct 2018

Conference Day 1: Riding the Wave of Industry Transformation for TVET Future

- 9AM ○ **Registration**
Welcome Reception
(Participants to be seated by 9:55 am)
- **Welcome Remarks**
Ms Low Khah Gek
Chief Executive Officer,
Institute of Technical Education, Singapore
- **Opening Address by Guest of Honour**
Mr Ong Ye Kung
Minister for Education, Singapore
- **Keynote Address**
**Educating Students for their Future,
not our Past**
Mr Andreas Schleicher
- **The Future of Work: Is This Time Different?**
Dr Carl Frey
- **Panel Discussion**
- 12:30PM ○ **Lunch**
- **Future Economy, Future Jobs, Future Skills:
Singapore's Approach**
Mr Lam Yi Young
- **Professional Qualification for Industry 4.0**
Mr Enrico Rühle
- **Building A Future-Ready Human Capital
Through Industry Partnership**
Mr Ong Kim Pong
- **Coffee Break**
- **Riding the Wave of Industry Transformation
for TVET Future — New Pathways**
Ms Janet Ang
- **Why Singapore's Tripartite Synergy is Key
to Our Future Skills and Learning**
Mr Gilbert Tan
- **Panel Discussion**
- 6PM ○ **End of Conference Day 1**

THU 04 Oct 2018

Conference Day 2: Innovating Teaching and Learning for TVET in the Future Workplace

- 8:15AM ○ **Registration**
(Participants to be seated by 8:55 am)
- **Keynote Address**
**Vocational Education 4.0 — Challenges and
Approaches of Preparing the Workforce for the
Skills Needed in a Digitalised World of Work**
Mr Volker Schebesta
- **Strengthening Partnerships in the
Skills Eco-System**
Mr Ng Cher Pong
- **Coffee Break**
- **Skilling for a Changing World: Hong Kong's
Vision for a Smart City**
Dr Carrie Yau
- **Looking Back to Move Forward - Educational
Narrative for Skills Future**
Mr Lim Peng Hun
- **Panel Discussion**
- 12:10PM ○ **Lunch**
- **Accelerating Change: Applied Education
Graduates And The Evolving Needs of Industry**
Dr David Ross
- **Grooming Entrepreneurs**
Mr Patrice Choong
- **Discipline-Specific Pedagogy For TVET —
Learning to Do, Learning to Be**
Mr Tan Seng Hua
- **Coffee Break**
- **Ecosystems — The Way of the Future**
Ms Mary Faraone
- **Panel Discussion**
- **TVET 2018 Round-Up**
Ms Low Khah Gek
- 5PM ○ **End of Conference Day 2**

FRI 05 Oct 2018

Post-Conference Executive Learning Programme (ELP) (Optional)

The Executive Learning Programme (ELP) is an exclusive learning journey for TVET Conference participants to visit some of Singapore's premier TVET institutes. Participants have an opportunity to experience how TVET is delivered to train an impactful workforce for the future economy.

- 8:30AM ○ **Registration**
- **The Sandbox at Ngee Ann Polytechnic**
Ngee Ann Polytechnic started out as Ngee Ann College in 1963, and offered courses in language, commerce and technology. Today, it is a leading institution of higher learning, anchored on its core strengths of pioneering a broad-based and holistic learning approach, forging strategic alliances and providing enriching overseas experiences to prepare its students for a global workplace. With an environment where education is about developing aptitudes and interests, every student has opportunities to discover and stretch to his or her full potential.

As a future-ready campus, Ngee Ann Polytechnic's community of students, alumni and staff are digitally-enabled, innovative, progressive and well-poised for the future economy. Join the ELP to check out The Sandbox, a one-stop centre offering support to students to develop and experiment their business ideas since 2015.
- **Espace at ITE College West**
ITE College West, as one of ITE's three state-of-the-art Colleges, was opened in 2010 as a 'College of Service and Innovation'. Home to some 8,000 students, the College offers students an exciting Learn, Live and Play environment. Equipped with training facilities such as a 22-room training hotel and student-run restaurant, ITE College West also features an Automation and Robotics Centre and an Automotive Hub. These are interactive learning spaces that promote niche and cross-disciplinary application of technology, innovation and enterprise. Participants will get the opportunity to visit Espace, a collaborative 'makerspace' for making, learning, exploring and sharing.
- 1:30PM ○ **End of Programme**

ABOUT THE CONFERENCE

Rapid changes in technology and industry are impacting economies worldwide. The Fourth Industrial Revolution brings about new developments that will affect the way we learn, live and work. What does this mean for the future of Technical and Vocational Education and Training (TVET)? How can TVET institutions, practitioners and policy makers work with the industry to prepare the workforce for the challenges of the future? What are some of the policies, approaches and programmes we can look to in response to the digital economy and industry transformation? The **Singapore International TVET Conference 2018** seeks to address and explore answers to these issues.



■ GUEST OF HONOUR

Mr Ong Ye Kung
Minister for Education,
Singapore

■ WHO SHOULD ATTEND

Policy Makers, Leaders,
Principals, Researchers,
Educators, Practitioners,
Professionals and Experts
in the field of VTE

■ WHY YOU SHOULD ATTEND

Be at the forefront of preparing youths and the workforce for the future workplace. Be empowered to facilitate an exchange of innovative ideas and practices within the international TVET fraternity.

CONFERENCE VENUE

Raffles City Convention Centre, Singapore

80 Bras Basah Road, Raffles City Shopping Centre, Singapore 189560

Nearest Train Station:

City Hall (NS25 / EW13)

CONFERENCE FEES

■ EARLY BIRD (Till 31 Aug 2018) ■ STANDARD

■ EXECUTIVE LEARNING PROGRAMME (Optional)



Group Discount:
SGD 3,200
per group of 5



Group Discount:
SGD 4,000
per group of 5



To Register

www.ite.edu.sg/tvetsingapore2018

For Enquiries

secretariat@tvvet2018.sg

ABOUT THE INSTITUTE OF TECHNICAL EDUCATION

The Institute of Technical Education (ITE) is a principal provider of post-secondary career and technical education (CTE) in Singapore and a key authority in developing national occupational skills certification and standards. As a public education institution under Singapore's Ministry of Education, ITE takes in about 28,000 full-time students annually, and offers another 26,000 training places for working adults to re-skill and upskill as the industry transforms. Its unique **Hands-On, Minds-On, Hearts-On™** learning philosophy nurtures well-rounded graduates who are **'Career-Ready, Life-Ready and World-Ready'**. Through its strong and extensive linkages with the industry, ITE ensures its training curriculum and learning facilities keeps pace with industry transformation.

In 2005, ITE became the first education organisation in Singapore to receive the coveted Singapore Quality Award for organisational excellence. In 2011, ITE achieved the pinnacle Singapore Quality Award with Special Commendation, which recognises ITE leading practices. With its long experience in providing TVET, ITE has provided training and consultancy for 27 countries in Asia, Africa, the Middle East, and Central and Latin America.

Our photographers will be taking photos at this event. The pictures may be used in various communications platforms, including but not limited to publications, ITE website, Corporate Newsletter and Facebook page.

The information is accurate at time of print, but may be subject to change.

