SCAL Built Environment Summit 2017

Construction in the Future Economy

26 October 2017  8.30am - 1.00pm  Max Atria @ Singapore EXPO

The Built Environment Summit will bring together leaders and stakeholders across the built environment value chain to share perspectives on their respective roles as Singapore prepares for the future economy. With the theme “Construction in the Future Economy”, the Summit will cover key topics such as:

• Reshaping the mindset and technology for construction of the future
• International trends on construction robotics, smart cities and sustainability
• Transforming the construction industry for Singapore’s future economy

Hear from international and local experts and industry leaders as they discuss what it will take for our built environment sector to strive and remain relevant, seize opportunities in regional growth and maintain business competitiveness.

Who should attend: Business owners, top management, directors, senior management and qualified personnel of companies across the built environment sector

Fees (inclusive of GST)

SCAL Members – S$128.40
CIJC Members – S$192.60
Non-Members – S$235.40

Approved Accreditations:

PDUs - 3 units
CET - 4 Hours

Pending Accreditation: BOA-SIA

For more details, contact:
Ms Elene Yeo | Email: elene@scal.com.sg
Ms Tan Wei Xuan | Email: weixuan@scal.com.sg
Tel: 6793 9020  www.scal-academy.com.sg
Programme

8.30 am  Registration

8.50 am  Guests to be seated

9.00 am  Welcome Address
Mr Kenneth Loo, President, Singapore Contractors Association Ltd

9.10 am  Opening Address by Guest-of-Honour

9.20 am  SCAL Productivity and Innovation Award Prize Presentation

9.30 am  Keynote Address: Shaping the Future of Construction
Dr Michael Max Buehler, Head of Infrastructure & Urban Development, World Economic Forum

10.00 am  Robotics Transforms Construction and Built Environment
Prof Thomas Bock, Chair for Building Realisation and Robotics, Technical University of Munich

10.30 am  Networking Break

11.00 am  Current and Future Trends of Smart Cities and Sustainability
Mr Gerhard Styr-Hipp, Head of Group Smart Cities & Energy Policy, Fraunhofer Institute for Solar Energy Systems ISE

11.30 am  The Construction Industry Transformation Map
Building and Construction Authority (BCA)

12.00 pm  Built Environment Leaders’ Dialogue
Panelists:  Er Chua Tong Seng, President, Association of Consulting Engineers Singapore (ACES)
Mr Augustine Tan, Real Estate Developers’ Association of Singapore (REDAS)
Mr Kenneth Loo, Singapore Contractors Association Ltd (SCAL)
Mr Ong Tze Boon, President, Singapore Institute of Architects (SIA) (tbc)
Building & Construction Authority (BCA) (tbc)
Moderator:  Mr Ho Meng Kit, Chief Executive Officer, Singapore Business Federation (SBF)

1.00 pm  Networking Lunch
End of Summit

2.30 pm  Guided Tour of BuildTech Asia 2017

*Programme subject to change

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Synopsis and Speakers’ Profile

Keynote Address: Shaping the Future of Construction

While most other industries have undergone tremendous changes over the past few decades, and have reaped the benefits of process, product and service innovations, the construction sector has been hesitant to fully embrace the latest innovation opportunities, and its labour productivity has stagnated or even decreased over the last 50 years. This mediocre track record can be attributed to various internal and external challenges: the persistent fragmentation of the industry, inadequate collaboration between the players, the sector’s difficulty in adopting and adapting to new technologies, the difficulties in recruiting a talented and future-ready workforce, and insufficient knowledge transfer from project to project. To name just a few. Dr. Buehler will present the World Economic Forum’s multi-year Future of Construction project, which is intended to guide and support the industry’s digital transformation, and helping it to address its key challenges. By describing how flagship projects have implemented innovations, he will showcase the transformative potential of innovations.

Dr. Michael Max Buehler,
Head of Infrastructure & Urban Development, World Economic Forum

Michael Max Buehler is the Head of Infrastructure and Urban Development at the World Economic Forum. Michael is responsible for managing strategic relationships with approximately 50 global CEOs from the engineering, construction, real estate and urban services sectors. Michael has seventeen years of international, academic and professional experience in the construction, mining and real estate industries including project management positions on major public infrastructure and public-private partnership projects. Prior to joining the Forum, Michael worked with Deloitte in Infrastructure and Capital Projects Advisory practices in Vancouver, British Columbia. Michael managed projects for clients and industry leaders at C-suite level including major public infrastructure, mining and real estate projects as well as on capital programs and portfolios for private and public entities. Before, Michael worked for Bilfinger, a leading industry player for major infrastructure projects providing worldwide engineering, procurement, construction management, O&M and project finance services. Michael is experienced in managing project stakeholders in complex multi-contract project environments. Michael has a PhD in civil engineering, an MBA with finance and accounting specialization, is registered and licensed as a Professional Engineer in British Columbia and is a certified Project Management Professional.

Robotics Transforms Construction and Built Environment

Automation and robotics has been regarded as one of the leading areas of innovation in construction, with regard to the improvement of the industry. Research has been conducted for decades, and new automation and robotics technologies continue to be developed for the construction industry. In the meantime, cities, especially in the developing world, are facing unprecedented issues as a result of economy shifts, demographic change, and environmental pressures. These issues include but are not limited to population aging, labour shortage, land shortage, lack of adequate infrastructures, and environmental challenges. In the foreseeable future, automation and robotics in construction will provide a new paradigm to tackle these serious issues in the process of urban transformation.

Prof Thomas Bock,
Chair for Building Realisation and Robotics, Technical University of Munich

Thomas Bock is a professor of building realisation and robotics at Technical University of Munich (TUM). He got his education in architecture at Stuttgart University in Germany, in engineering at IIT in Chicago in USA as Fulbright Scholar and in construction automation and robotics at University of Tokyo in Japan. He consulted several international ministries and evaluates research projects for various international funding institutions. He holds fellowships, honorary doctor and professorship degrees and visiting professorships. Professor Bock serves on several editorial boards and since 2017 is associate editor of the Springer journal “Construction Robotics”. He authored and co-authored about 450 articles and since 2015 the world wide first Construction Robotics handbook series consisting of 5 volumes at Cambridge University Press.

Current and Future Trends of Sustainable and Smart Cities

Cities are facing severe challenges with a growing urgency to act. Climate change and urbanisation are strong drivers for the transformation towards Sustainable and Smart Cities, which aim to provide their citizens water, food, energy, mobility, housing, jobs, education, health care, culture, etc. in a clean, secure, and healthy environment by using smart technologies. The trends in renewable energy sources, smart grids and storages, intelligent energy management, energy efficient buildings and construction methods, zero emission vehicles, multi-modal transport and digital services supporting smart and interdisciplinary solutions will be presented.

Gerhard Stryi-Hipp,
Head of Group Smart Cities & Energy Policy, Fraunhofer Institute for Solar Energy Systems ISE

Gerhard is head of the Smart Cities group at the Fraunhofer Institute for Solar Energy Systems ISE in Germany. He is a physicist and expert on renewable energy systems. 1994 he became managing director of the German Solar Industry Association. Since 2009 he is researcher at Fraunhofer ISE with the research focus on Smart Cities and sustainable energy systems since 2012. The Smart City team supports cities by the development of concepts and implementation of lighthouse projects on smart and sustainable energy systems for neighbourhoods, districts and cities in national and international projects, e.g. in Thailand, China, Korea and Mongolia.
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Please complete the registration form and send the completed form by e-mail or fax to SCAL Academy before 18 October 2017. For further enquiries, please do not hesitate to contact:
Miss Elene Yeo | Tel: 6793 9020 | Fax: 6793 4401 | Email: elene@scal.com.sg
Miss Tan Wei Xuan | Tel: 6793 9020 | Fax: 6793 4401 | Email: weixuan@scal.com.sg

Participants Information (Please Write / Type or Print Clearly in Capital Letters)

Name: ___________________________ NRIC/WP/FIN ______________ Designation: ______________

Name: ___________________________ NRIC/WP/FIN ______________ Designation: ______________

Name: ___________________________ NRIC/WP/FIN ______________ Designation: ______________

Organisation / Institution: ___________________________ Company Reg No: ______________

Address: __________________________________________________________

Contact Person: ___________________________ Tel :(Office) ______________ (Mobile) ______________

Fax: ___________________________ Email: ___________________________

Registration Fee per participant (Please tick the appropriate box)
(Companies may apply for 40% off registration fees under PIC scheme subject to qualifying conditions.
For more information, please visit IRAS website on PIC scheme

SCAL/SLOTS Member [ ] $128.40
CIJC Member (ACES, IES, REDAS, SIA, SIBL, SISV, SPM) [ ] $192.60
Non-Member [ ] $235.40

Note: All rates quoted in Singapore Dollars (SGD). The registration fee includes 7% GST, Seminar Materials, Tea Break and Lunch.

Payment
By crossed cheque made payable to “SCAL Academy Pte Ltd” and send to SCAL Academy @ 150 Neil Road, Singapore 088879. Please indicate for “SCAL Built Environment Summit 2017” behind the cheque.

Terms and Conditions
1) Written notice of replacement or withdrawal must be given at least 7 Days before the event date with a penalty charge of 50% of the registration fees for withdrawal. For any replacement, $50 will be charged per participant replacement.
2) There will not be any refund or credit on fee paid.
3) Speakers, topics and venue are correct at the time of printing. SCAL reserve the right to substitute any of the speakers, cancel or change the content, venue and timing of the forum for reasons beyond its control.

Name / Authorised Signature / Designation ___________________________ Company Stamp (if applicable) ___________________________ Date ___________________________