

30-31. 10. 2018

Royale Chulan  
Damansara, KL

# INTRO



Imagine the smart city of the future, an intelligent, adaptive, and intuitive city which is driven by limitless possibility and innovation. This is the future that awaits us all, provided that we begin laying the groundwork for all the necessary parts: smart people, smart technologies, and most of all – smart buildings.

Smart buildings stand as the beacons of tomorrow, capable of connecting with other facilities, exchanging real-time information and responding to changes in the environment. All of this functionality is encompassed within a comfortable easy-to-use interface. In order for us to reach this phase of facility design, we must meet organizational and technological challenges head-on.

According to recent studies, it was found that by the year 2030 – the building of the era should be one that is completely independent. The building itself should be capable of self-learning and be functionally autonomous. This conference will take you through the process of reaching the smart building of the future: - from planning and conceptualization all the way to construction and fitting.

Our selected speakers will have you looking forward to the future of smart building design by sharing their case studies, practical field experience in building design and project management, and new methodologies that they've obtained abroad. An efficient, flexible, and exciting world of smart building management will be open to you.

# OBJECTIVE

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This conference aims to give a stepping stone for industries by providing the important information needed to leverage connected technologies, analytics and integrated systems which cover three major areas:

1) Economics; reduce operating & maintenance cost, lower construction cost, increase asset value.

2) Environmental; energy reduction & optimization, sustainability, livability, and comfortability.

3) Experiential; safety & security, increase productivity and industrial growth.

## SHOULD ATTEND |

- Building owners / Building Contractors / Building Services
- Maintenance / Facility Personnel
- Architectural Practitioner
- Engineering Practitioner
- Hotel Practitioner
- Hospital Facility Personnel
- Property Developers
- Housing / Property Managers
- Energy Management Service Companies
- Low Voltage Electrical Contractors
- Building Solution Integrator
- Project Consultant
- University/ Academician
- Government





# MARKET

"Smart building technology is predicted to grow by 34% annually over the next five years with a forecast of a \$25 billion total market value by 2021. "

- Thomas Goubau

"Our underlying market figures indicate that the overall market for systems in buildings will grow from \$110.9Bn in 2014 to \$181.1Bn in 2020, with Physical Security, Lighting Control and Fire Detection & Safety representing the 3 largest segments."

"Including the cost requirement of adding connectivity through sensor to existing or newly installed building system, we therefore project that the global market for the Internet of Things in Buildings (BIoT) will rise from \$22.93Bn in 2014 to over \$85Bn in 2020."

- Smart Building Research, Memoori

# TOPICS COVERED

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- **"Smart Building: Enhancing Sustainability, Accessibility and Livability"**  
by Mr. Prabodh K Seth, CEO, iCEE International, Malaysia
- **"Challenges of Facilities Management for Smart Building"**  
by Mr. Mohd Mazhar bin Mohd. Marzuki, Principal Consultant, Avanver FM.
- **"Smart Solutions in the Hotel Real Estate" – *Hotel to Lead Smart Building Revolution. (Case Study)***  
by Mr. Arjan De Boer, Founding Partner, Insitu Asia Holdings Pte. Ltd. Singapore.
- **"Smart Building: The Building that Learns"**  
by Mr. Gregers Reimann, Managing Director, IEN Consultant.
- **"The Role of Building Automation System in Smart Building"**  
by Mr. Siew Peng Wah, Director, Seikou Systec Sdn. Bhd. (KNX Partner)
- **"Lighting Design of Things"– *The future of lighting design in the world of IoT-***  
by Mr. Martin Klaasen, Founder & Managing Director, Klaasen Lighting Design
- **1) "Big Data & Security for Smart Building"**
- **2) Case Study for Healthcare; Smart Hospital"**  
by Mr. Kumaravel Muniappan, Chief Transformation Officer, Sancy Berhad, Malaysia.
- **"Internet of Things in Buildings (BloT): How IoT is Enabling Intelligent Buildings"**  
by Mr. Vikas Saxena, Country Division Lead & Vice President, Building Technologies Division, Siemens Malaysia.
- **"Blockchain: The New Standards in Smart Buildings by Smart Developers"**  
by Mr. Jean Pierre Dumas, Co-Founder of Sharkoo, Thailand.
- **"Optimizing HVAC Design and Operation for Smart Buildings"**  
by Dr. Lal Jayamaha, Founder of LJ Energy, Singapore.

*\* Asia iKnowledge reserves the right to alter or modify the advertised speakers/ topics should the need arise.*

# EVENT SCHEDULE

Day 1

October 30, 2018

8.00am – 9.00am

Registration – Day 1

9.00am – 9.10am

Opening Address

9.10am – 10.30am

**"Smart Building: Enhancing Sustainability, Accessibility and Livability"**  
by Mr. Prabodh K Seth, CEO at iCEE International, Malaysia

10.30am – 10.45am

Coffee and Networking Break

10.45am – 11.45am

**"Challenges of Facilities Management for Smart Building"** by Mr.  
Mohd Mazhar bin Mohd Marzuki, Principal Consultant of Avancer FM

11.45am – 12.45pm

**"Smart Solutions in the Hotel Real Estate" – Hotel to Lead Smart Building Revolution (Case Study)"** by Mr. Arjan De Boer, Founding Partner of Insitu Asia Holdings Pte. Ltd. Singapore.

12.45pm – 2.00pm

Lunch and Networking Break

2.00pm – 3.30pm

**"Smart Building: The Building that Learns"** by Mr. Gregers Reimann, Managing Director of IEN Consultant.

3.30pm – 3.45pm

Coffee and Networking Break

3.45pm – 5.15pm

**"The Role of Building Automation System in Smart Building"**  
by Mr. Siew Peng Wah, Director of Seikou Systec Sdn. Bhd. (KNX Partner)

5.15pm – 5.30pm

End of Day 1 Session & Closing Remarks

## Day 2

October 31, 2018

8.00am – 9.00am

Registration – Day 2

9.00am – 10.00am

**"Lighting Design of Things" – *The Future of Lighting Design in the World of IoT*** – by Mr. Martin Klaasen, Director of Klaasen Lighting Design (KLD), Singapore.

10.00am – 10.45am

**"Big Data & Security in Smart Building"** by Mr. Kumaravel Muniappan, Chief Transformation Officer at SANCY Berhad.

10.45am – 11.00am

Coffee and Networking Break

11.00am – 11.45am

**"A Case Study of Healthcare & Smart Hospital"** by Mr. Kumaravel Muniappan, Chief Transformation Officer at SANCY Berhad.

11.45am – 12.30pm

**"Internet of Things in Buildings (BloT): How IoT is Enabling Intelligent Building"**

by Mr. Vikas Saxena, Country Division Lead & Vice President, Building Technologies Division, Siemens Malaysia.

12.30pm – 2.00pm

Lunch and Networking Break

2.00pm – 3.30pm

**"Blockchain: The New Standard in Smart Buildings by Smart Developers"** by Mr. Jean Pierre Dumas, Co-Founder of Sharkoo, Thailand.

3.30pm – 3.45pm

Coffee and Networking Break

3.45pm – 5.15pm

**"Optimizing HVAC Design and Operation for Smart Building"** by Dr. Lal Jayamaha, Founder of LJ Energy, Singapore.

5.15pm – 5.30pm

End of Day 2 Session & Closing Remarks



The background image shows a modern building interior. On the left, a white pillar stands next to a curved glass wall. To the right, a spiral staircase with a dark metal railing winds upwards. The glass reflects the sky and the building's structure, creating a complex geometric pattern. The overall atmosphere is bright and architectural.

# WHY

"Corporate and investor owner are installing smart solutions across their portfolios, not only for the sake of energy efficiency, but also to reduce risk, improve operational performance, and enable better capital planning."

*-Jones Lang LaSalle*

"The key benefits range from energy savings to productivity gains to sustainability. Smart building strategies can reduce energy costs, increase the productivity of the facility staff, improve building operations, support sustainability efforts and enhance decision-making across the organization."

*- Philip Tracy*



# OUR SPEAKERS

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## Martin Klaasen

Director of KLD, Singapore

MARTIN is an award-winning lighting designer, design consultant, lecturer and resource speaker with more than 30 years of experience in the lighting industry operating predominantly in the Asia Pacific region. Martin has a master's degree in industrial design and started his career of many years in creative and innovative lighting design with Philips (in Holland and overseas). He furthered his career by setting up his own lighting consultancy practice first with Lumino Design International, based in Singapore, later in Australia with Lighting Images.

Since 2011 Martin applies his passion for lighting design exclusively through his own company; Klaasen Lighting Design (KLD). Martin brings to his designs a unique awareness of lighting technologies that improve and enhance the quality of lighting in professional installations. Some of his designs have received national and international lighting design awards. The list of his expertise and experiences spans all applications and projects around the globe. Martin is also passionate about sharing his knowledge by educating his clients and the public through his many articles in the media and since the last few years his daily blog.

"Light Talk" is featured on the Professional Lighting Designers Magazine's website and enjoys a fervent and worldwide group of followers. Martin's first year of blogging, too much acclaim, was compiled into a book of the same name. Martin is a sought-after impact speaker and has presented at major lighting events around the world such as the Professional Lighting Designer's Convention in Copenhagen, Worldbex in Manila, Acetech in Mumbai, the IES in Perth, Project Lighting in Qatar and Light Fair in Las Vegas.





## Prabodh K Seth

CEO at iCEE International, Malaysia

Prabodh is a diverse individual & qualified accountant. He has a passion for business and specialises in launching and turning companies around. He has built multiple successful companies and currently is spearheading ICEE International. ICEE is a break-through technology in Predictive Algorithms using IoT and Cloud Computing to deliver Intelligent Efficiency, a Global award-winning energy efficiency solution company.

He loves life, enjoys learning, thrives on challenges, and believes firmly in the power of positive thinking and cooperation.

The Intelligent Chiller Energy Efficiency (ICEE) System is an IoT solution, using sensors and intelligent algorithms, that ensures ideal temperature/humidity in a building consistently and in doing so conserves energy (up to 30%) of the largest component in central air conditioning systems, the chiller. One of the telling testaments of relevancy of this system is buildings that are too cold or uncomfortable, and thus our founder's dream to find an automated, self-adjusting system that can continuously address each individual building's specificity without manual intervention.

Digitally transforming management of chillers into a real-time, automatic, dynamic optimisation process, it is ideal for any building that wants to save energy & money as it requires no human interface. The ICEE System works with any brand and age of chiller, complements building automation system and is ideal for Demand Response Management solutioning (solution). Our unique value proposition is that any organisation with a lot of buildings will see improvement in profit margins significantly, over and above a lucrative symbiotic investment with a guaranteed three-year ROI Model. Though a start-up, we have seven proven sites with 3 years of validated data and are a Global Winner - Energy Efficiency Category at the International Cleantech Open Forum 2017.

## Gregers Reimann

Managing Director of IEN Consultant

Gregers Reimann is the managing director of IEN Consultants, the pioneering green building consultancy in Malaysia, which specializes in building designs that have good daylighting, are highly energy efficient and have excellent thermal and visual comfort. Key project references during Gregers' 13 years of working in Asia include the GEO Building designed to be a zero-energy office building, the ST Diamond office building (2012 ASEAN Energy Award winner), the Pertamina Energy Tower – the first skyscraper designed to be ZERO energy, the KLIA2 airport (LEED Gold) and the biophilic 'Paramit – factory in the forest' (2018 RIBA International Prize nominee). Gregers has also been a technical reviewer for the EU Energy-Efficiency Buildings project and is the appointed Chairman of the "Green Buildings and Sustainable Communities" committee under the EU-Malaysian Chambers of Commerce and Industries (EUMCCI).



Gregers regularly contributes to green building articles and frequently lectures at universities. He has a keen interest to pursue innovative and integrated design solutions bridging the gap between architects and engineers.



## Dr. Lal Jayamaha

Founder of LJ Energy

Dr. Lal Jayamaha is the Founder & CEO of LJ Energy which is one of the leading ESCOs (Energy Service Companies) in Asia with offices in Singapore, Malaysia and Sri Lanka. He is also the author of two books "Energy Efficient Building Systems" and "Energy Efficient Industrial Systems", published by McGraw-Hill, USA. He graduated from Queen Mary College, University of London with a First-Class Honours degree in Mechanical Engineering in 1982.

In 1990 he was awarded a Research Scholarship by the National University of Singapore to undertake a research leading to a MEng degree. After completing his Masters' degree in 1993 he continued his research in heat transfer relating to building heat gain and building energy performance and was awarded a PhD. degree in 1997.

After completing his PhD, he specialised in the area of Energy Management and has been the team leader for many major energy audits, energy retrofits and Green Building projects in the Asian region.

He is a QuESS (Qualified Energy Services Specialist), BCA Registered Energy Auditor, SCEM (Singapore Certified Energy Manager), LEED AP, GBI Facilitator, GreenRE Manager, Professional Engineer (PE) and a Chartered Engineer (UK). He is also a member of the Institution of Mechanical Engineers, UK and the American Society for Heating, Refrigerating and Air-conditioning Engineers (ASHRAE).

## Arjan De Boer

Founding Partner of Insitu Asia

Arjan is a founding partner of InSitu Asia - InSitu is a hotel developer and operator and is also the developer of District 6, a co-working space in Singapore. District 6 has hosted Singapore's first Proptech Hackathon in 2018 and will host Singapore's first Protech Accelerator 'Propell Asia' in 2018 in partnership with Lend Lease and JLL. Insitu Asia has partnered with PropTech companies supporting the operations of their hotels.

With regards to traditional hotel developments, Arjan's experience includes developing hotels and resorts in over 10 countries in the Asia Pacific region, from conceptual phase to opening; including branded apartments and luxury villa resorts. Having lived in Asia for over 20 years, Arjan's employment experience includes the role of Senior Vice President of Development and Technical Services at Regent Hotels and Resorts (May 2013 – July 2016); a Hotel group owned by the listed FIH Regent Group. Prior to Regent, Arjan helmed Technical Services and Development at Alila Hotels and Resorts for over 10 years.



## Jean Pierre Dumas

Co-Founder of Sharkoo

Jean Pierre Dumas is the Co-Founder of Sharkoo and is an experienced Tech Entrepreneur and Investor with successful startups and exits in the field of Blockchain, ICOs, Proptech, IoT, Smart Cities & Smart Buildings. Previously, he was the Founder and CEO at Appyshpere; a leading real estate concierge platform company that bringing together web services, IoT and AI. The aim was to provide a platform where the clients (property developers) can create and self-manage an application for their projects. With his vast experience, he helped his clients by providing an application/platform that enables people to communicate with the management of property projects, run transactions (book rooms, service etc.), link outside services and control the smart IoT devices in their home.



## Vikas Saxena

Country Division Lead & Vice President,  
Building Technologies Division, Siemens  
Malaysia.

Vikas Saxena graduated with a Bachelor of Engineering in Industrial Electronics from the Amravati University in India. He started out his career as a commissioning engineer for AC / DC drives before joining Siemens Ltd India in 1996 in a range of capacities including sales for PLC products, group head for automation and drives products / systems and as regional manager for the north and east markets of Siemens Building Technologies division. More than a decade later, he moved on Siemens Sri Lanka as its Country Manager in 2009, leading the company's country operations there in the four sectors of Energy, Industry, Healthcare and Infrastructure & Cities. In 2012, he became the General Manager for Building Technologies in Siemens United States in the state of Iowa for another 3 years.



Vikas was then appointed to Siemens Malaysia as the Country Division Lead and Vice President for Building Technologies which he heads till date. With demonstrated expertise in the electrical and electronic manufacturing and Building Technologies industries, he also holds a Masters-degree in Marketing Management from Mumbai University, India.



## Siew Peng Wah

Director of Seikou Systec Sdn Bhd

Mr. Siew Peng Wah, founder & CEO of Seikou Systec Sdn. Bhd. which is leading KNX building & home control solution integrator in Malaysia for some major GBI certified building. He is also the founder & certified KNX trainer of KNX Skills Development Centre Sdn. Bhd. which provide KNX certified courses recognize internationally and providing KNX building control system training solution to all Technical and Vocational Education and Training (TVET) institution. KNX is a worldwide standard apply for building & home automation for more than 25 years. With the open technology, KNX standard has become a leading control solution in smart building.

He is also appointed by Ministry of Works to conduct special KNX training in Electrical Installation for competitors representing Malaysia at ASEAN Skills Competition and World Skills Competition.

## Kumaravel Muniappan

Chief Transformation Officer

Certified Management Professional  
at SANCY Berhad

Kumaravel is a certified management professional who holds the position as chief transformation officer at SANCY Berhad. Kumaravel is also equipped with more than 21 years of experience in the IT industry. In addition to this, he has committed himself to the Healthcare Industry building and Smart Hospital Project over the last ten years. He possesses extensive hands-on experience in the implementation of various Total Hospital Information System such as EMR, Tele Radiology, Tele Lab, Medical IoT integration with MOH, MOD and Private Hospitals (local and international).



He has expertise in the following fields: IT Project management, IT Infrastructure, Outsource Management, IT Resource and Provision Planning, Network Infrastructure Scalable Planning and Deployment Management, Business Process Improvement and System Integration Implementation. He is truly dedicated towards driving innovation in healthcare systems and operations in ways that matter.



## Mohd Mazhar bin Mohd Marzuki

Principal Consultant of Avancer FM.

Mohd Mazhar Mohd Marzuki holds a Masters' of Business Administration (MBA) in Building & Facilities Management and a Bachelors' degree in Engineering (Mechanical). He is a Graduate member of Board of Engineers Malaysia & Institution of Engineers Malaysia. He is currently the Vice President of the Malaysian Association of Facility Management (MAFM), where he was the Committee since 2005. He is also the President of the Malaysian Association of Consultants in the Built Environment (MACBE) and Council Member of the Malaysian Service Provider's Confederation (MSPC) and the Committee of the Malaysian Board of Technologist (MBOT). Since graduation, he already started and possess hands-on experience in Facilities Management in buildings in Klang Valley, prominent ones being KL Tower, Rohas Perkasa (Kuala Lumpur), Palace of Justice (Putrajaya) and HSBC Data Center (Cyberjaya) and KLSE building, as well as the performance auditor for buildings and premises owned by the Government and private entities.

As a prominent FM Consultant in Malaysia, he has involved as a Consultant for various Government and private organisations such as CIDB Malaysia, the Inland Revenue Board (LHDN), Public Works Department (JKR), Celcom Axiata, Malaysia Building Society Berhad, Maybank, Malaysian Resource Corporation Berhad (MRCB), Felda and TH Properties Sdn Bhd.



# ACT NOW

"We, now, are all smart. Even if we don't believe ourselves to be so, we have access to the technology that makes us so. Smart people make smart buildings. More than that, however, smart people expect buildings to be smart; so do companies, occupiers, regulators, governments, and stakeholders.

We are collectively no longer working towards the future; we are in it. It's time – long overdue perhaps – that the buildings in which we live and work reflect a 'future now' view of the world. We have the technology to make buildings smart; effectively, we no longer have the choice, either commercially or ethically, not to do so."

*-Thomas Miller, BLP*