

INFORMATION AND COMMUNICATIONS TECHNOLOGY SPECIAL INTEREST GROUP (ICTSIG)

Presents

PHYSICAL DIGITAL CLASS “CRAFTING THE FUTURE”



SATURDAY, 8TH FEBRUARY
2025



11.00am - 1.00pm



IEM MAKERS SPACE, GROUND
FLOOR, WISMA IEM

Synopsis

In this dynamic two-hour knowledge sharing session, participants explored technologies that are shaping our digital landscape. The session delved into the convergence of various technological domains that are revolutionizing how we interact with and build our world. The future will see IoT becoming increasingly integral to our built environment, with sensors monitoring everything from structural health to environmental conditions, enabling predictive maintenance and optimal resource utilization. Artificial Intelligence will increasingly augment human expertise, handling complex calculations and design tasks that once required extensive manual analysis and accelerate project timelines and enhance engineering workflow, while allowing professionals to focus on creative and strategic aspects of their work. As coding becomes more accessible through intuitive interfaces and AI-assisted development tools, engineers and designers can create customized solutions for specific challenges and break down traditional barriers between conception and implementation, enabling rapid prototyping and iteration of ideas. Similarly as Building Information Modeling systems become more sophisticated, they're enabling seamless collaboration across disciplines and creating digital twins that can simulate building performance throughout its lifecycle. Each class will feature one of these new technologies. The class emphasized how these technologies don't exist in isolation but rather form an ecosystem of solutions that, when properly integrated, can drive innovation and efficiency across multiple sectors. Participants gained insights into how these tools and technologies can be leveraged to create more intelligent, sustainable, and efficient solutions for tomorrow's challenges. This knowledge sharing experience underscored the importance of staying current with technological advancements and understanding their potential applications in creating a more connected and efficient future.



Ir. Chai Chen Sing



Ir. Lee Mun Poh



Ir. Yasser Asrul Ahmad



Ir. Chee Shai Choon

25 Seats Only

CPD HOURS : 2 HOURS CPD | REF NUM : IEM25/HQ/041/T

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www.myiem.org.my

Speakers Biodata

Ir. Chai Chen Sing With 24 years of experience in the engineering industry, Ir. Chai's experience range from consulting services and contracting in construction industry, SCADA implementation for processing plant, web application development and Internet Of Things (IOT). He is currently the principal consultant for Versoset Engineers Sdn. Bhd. and also the technical director for Mercatura, an IOT solution provider. He heads the technical development for integrated custom-made embedded system as well as web application development utilising cloud solution. Ir. Chai Chen Sing graduated from university of new south Wales, Australia in 1992

Ir. Lee Mun Poh Graduated with a bachelor of science (mechanical engineering) from the university of Sussex (UK) in 1975. He is a registered professional engineer with a practising certificate (mechanical), board of engineers, malaysia. Ir. Lee has more than 45 years working experience in the field of industrial automation and controls. He was the past chairman to IEM ICTSIG. He has completed projects in wood, electronic, electrical, chemical and automotive industries.

Ir. Yasser Asrul Ahmad Ir. Dr. Yasser Asrul Ahmad holds a bachelor's degree in electrical engineering from Vanderbilt University USA, MSc from University Kebangsaan Malaysia (UKM) and PhD from International Islamic University Malaysia (IIUM). He is also a registered Professional Engineer with Practising Certificate registered with the Board of Engineers Malaysia (BEM). He started his career as a spacecraft engineer at Astronautic Technology (M) Sdn Bhd (ATSB) in 1999 where he was involved in various international satellite project collaboration such as TiungSAT-1 with Surrey Satellite Technology Limited (SSTL) UK, Small Payload Orbit Transfer Vehicle Project with AeroAstro, USA, and RazakSAT remote sensing satellite program with Satrec-i, South Korea, as well as internal studies on small GEO satellite communications and synthetic aperture radar satellite. He specialized in spacecraft transmitter and receiver, antenna system, electrical ground support equipment (EGSE) and ground station for frequencies ranging from VHF to Xband. Later he took up responsibility as a system engineer and project manager involving in satellite system engineering activities, such as satellite Assembly Integration and Test (AIT), launch and ground station ICD development, LEOP and launch campaign. After that, he joined ATM Solution Sdn Bhd a Malaysian technology partner for Agilent Technologies as a Technical Manager overseeing a team of application engineers to provide technical solutions using electronic test & measurement instruments to clients in the segment of Telecommunication, Education, Aerospace & Defense, and Government & GLC institutions. Subsequently, he pursued a career as an independent engineering consultant specializing on CubeSat development for his clients in Malaysia, Singapore and Indonesia. At the same time, he was appointed by University Selangor (UNISEL) as a Lecturer in Practise to share his working experience through teaching undergraduates at the Faculty of Engineering. He then developed an interest in academic and joined IIUM. He is also actively involved in community services where he is a corporate member of the Institution of Engineers Malaysia (IEM) and hold a position as the Chairman of ICT Special Interest Group (ICTSIG) for three session (2019-2022). In ICTSIG, activities such as talks & technical visits were organized in the area of IoT, Blockchain, AI, Green Energy, Smart Cities, 5G and programming languages. He also contributes to the country's engineering education development as an Accreditation Panel for Engineering Accreditation Council (EAC) and Engineering Technology Accreditation Council (ETAC)

Ir. Chee Shai Choon Ir. Chee Shai Choon is a CPESC certified professional who leads a group of software developers in C & S Software Solutions Sdn. Bhd. which incorporated in year 2006. He is specializing in storm water where he has developed a "core msma suite" which covers all the chapters in msma 2nd edition. He has completed the whole msma2 into digital edition. He is the software developer of the infrastructure software which provided the most comprehensive civil engineering software. He has accumulated 21 years of his experience in field of IT and engineering design. His official website: www.civilstructural.com.my. Currently his company has an international collaboration with three international engineering software companies from Europe i.e. Bricsys (recommended alternative cad) Bricscad BIM, Computer Control System(Bridges)-Greece and Ingeciber, S.A(FEM) Spain. Along with his involvement on IT, he had conducted a number of talks/training in various organizations like IEM, JOS in JPS Ampang, Wawasan Professional Training Centre in KL. Talks & seminar.