Talk on "Cyber-security Approaches in Advanced Real-time Systems (SCADA)… and why it is the best way forward" (Rescheduled from 5th Dec 2020)

Organized by : Consulting Engineers, Special Interest Group

Date : 6th February 2020
Time : 9.00am to 11.00am
Venue : Malakoff Auditorium, Wisma IEM, Petaling Jaya
BEM Approved CPD/PDP : IEM20/HQ/163/T

The Institution of Engineers, Malaysia

Synopsis - Covid-19, lack of informed individuals, global interactions, high-speed communications among others, have forced the digital automation / electronic communications, as A way of life into the 'manual labor / physical interaction orientated' activities in Malaysia, without A choice and in the shortest possible of circumstances. These 'binary technologies' brings with it A new form of concerns that were not present with the older ways of doing things and are collectively referred to as cyber-security concerns. SCADA forms part of this highly automated scenario that is only going to be expanding at faster rates in the future. As such, cyber-security approaches and practices has to dynamically evolve to handle present complex, as well as future unknown threats. Fortunately, SCADA methodical approaches sets A solid platform to analyze the issues and prescribe possible solutions with highly desirable outcomes and solutions. All this requires an equally advanced thinking skills in cyber security that is coupled with practical 'outof-the-box' paradigm approaches. This includes classifying all threats into cyber-espionage, cybertheft, cyber-terrorism and cyber-war. This approach puts the damages from cyber-security in an appropriate context for many of the shareholders and stakeholders across vast business disciplines. The old ways of thinking and approaches might have worked so far, but it will fall short with many more threats coming online exponentially, from multiple sources and complexities. In A world where cyber security is confidential and covered by Ndas, it is difficult to pool the cutting-edge knowledge and applications for the collective good. Therefore, highly automated and complex systems have been operating in A limited, physically confined mode with outdated hardware and software that deprives the international competitive edge that all Malaysian companies need.

Speakers Biodata - Ir. S. Vignaeswaran PEPC has more than 30 years of working experience in the electrical, computer, IT, SCADA, project management and tendering field. He has been involved in state-of-the-art applications which includes cybersecurity from the 1990s. He has an Electrical Engineering degree from Monash University (Clayton, Australia) and MSc in IT/BIS from University of Keele, UK. He continues to publish international papers in Engineering, IT, Computer Security and Project Management fields. He has published the June 2019 IEM magazine that has solely focused on the new developments in Malaysian Cyber-Security approaches and trends, for the Malaysian engineering community. He has, and is currently carrying out Malaysian National Security projects and has been Client's HOD (Electrical & Automation) in a large-scale Saudi Arabian project up to RM 8 billion in value. Additionally, he has worked in international automation projects that incorporates cyber security concerns by the very nature of their operational scope. He is currently involved in a cyber security project that is pushing the frontiers of cyber security applications in Malaysia specifically and internationally in general.

Registration Fees : IEM Member RM15.00 / Non Member RM70.00 (Register Online @ WWW.MYIEM.ORG.MY)