

NEWS LETTER



INSTITUTION OF INCORPORATED ENGINEERS, SRI LANKA - UAE BRANCH

Volume : 13.1

Since : 2006

March 2019

MESSAGE FROM CHAIRMAN – UAE BRANCH

It is my great pleasure to extend heartfelt greetings to the readers of the 1st Newsletter of the IIESL UAE Branch for the year 2019.

As IIESL UAE branch, we have extensive tasks to go forward during this year in order to achieve our goals. We have given our priority for the registration in the UAE as a professional institute in order to meet the legislative constraints in Dubai. This is due to the current requirement of registering civil organizations under Community Development Authority of Dubai-UAE, by the Royal Decree of Dubai Law No. 12. We are in the process of discussing with a Management Company and Sri Lanka Business Council in order to explore the avenues for registration. The above process is in progress and the developments will be informed in the near future. Conjointly, we are limited to carry out our routing activities such as; conducting Continuing Professional Development (CPD) programmes, educational workshops and regular CSR activities. We have already planned our events for the year 2019 and eagerly waiting to finalize the registration process in order to re-start our professional activities.

Moreover, I would like to remind all our Members and Associate Members in the UAE who intend to practice Engineering profession in Sri Lanka, should be registered at the Engineering Council, Sri Lanka, under Act No 4 of 2017 of the Parliament of the Socialist Republic of Sri Lanka. As IIESL members, we should register through IIESL as Incorporated Engineers or Engineering Diplomates category in order to practice the engineering profession. The Engineering Council has already been formed and the inaugural meeting was held in Colombo recently and the registration process will be commenced soon. Once the process is

commenced, we will inform you the procedure to be followed for registration. Besides, I request all Associate Members who have fulfilled the requirements for membership grade, to forward your application to our membership development sub-committee to review your submission and provide necessary guidance prior to sending to the Headquarters.

Furthermore, I am suggesting to all that who needs an upgrade of your career must attend CPD's, workshops, following Bachelors/Master's Degree programmes conducting by various Universities/Institutions in the UAE or achieve a professional membership from a recognized Professional Institution in order to cater the requirement of the Gulf region. As a Branch, we initiated conducting mock interviews for the members who intends to attend forthcoming APC interviews for the Australian Institute of Quantity Surveyors (AIQS) and Royal Institution of Chartered Surveyor (RICS, UK). Even, if the member requires any assistance/guidance for educational or professional matters, please feel free to contact me or any other Executive Committee member of our branch.

I want to take a moment to thank all of our members and to those who have been with us over the years. We continue to be the professional home for our members as well as the public.

Finally, I want to emphasize that the Team Spirit is the key factor for the success of our branch and it plays an important role, both in our personal and professional life.



Best Wishes

Eng. Anura Jagodage, NDT, MSc, FIIESL, FAIQS, MRICS, AIQS(SL) - Chairman, IIESL UAE Branch

Registering as an Engineering Practitioner in Sri Lanka

As per Clause 14 of the Engineering Council, Sri Lanka Act, No 4 of 2017 no engineering practitioner shall engage in the practice of engineering profession unless such engineering practitioner is registered under section 15 of the Act. The Incorporated Engineers and Engineering Diplomates are required to register through IIESL.

All the Corporate Members and the Associate Members of the Institution of Incorporated Engineers, Sri Lanka are hereby informed to forward the details requested in the application form (No.07) to IIESL head office to give your consent to register as Engineering Practitioners.

IIESL Member listing: <http://iie.lk/en/qualified-members-listing//>

Dear Members,

If you wish to serve the Institution of Incorporated Engineers, Sri Lanka as Examiners/ Panelists, please send your application to IIESL by email: iiesl@iiesl.lk

Please provide the following details.

1. Name :
2. IIESL Membership No.:
3. Postal Address :
4. Field:
5. Contact No.
6. E-mail Address
7. No. of years served as a Member:
8. Ability to work on Saturdays from 9.00 am to 4.00 pm :

THOSE WHO ALREADY SERVE AS PANELISTS MAY NOT APPLY.

New applicants will be given a Training and Successful candidates will be enrolled as Examiners / Panelists.

CIDA Credential Committee Members who represent IIESL

Eng. A.M.S. Kulasekara and Eng. P.A.D.R. Chandrasiri had been nominated by the IIESL to represent IIESL in Credential Committee of Construction Industry Development Authority (CIDA) and CIDA has appointed them with effective from September 2018



Eng. A.M.S.Kulasekara
NDT , GCGI (UK), FIIESL, I Eng.
Past President
Institution of Incorporated Engineers, Sri Lanka



Eng. P.A.D.R. Chandrasiri
NDT , GCGI (UK), FIIESL, I Eng.
President- Elect
Institution of Incorporated Engineers, Sri Lanka

ENGINEERING COUNCIL WILL COMMENCE REGISTRATION SOON

As discussed at the joint meeting held amongst Engineering Council, Sri Lanka (ECSL), Institution of Engineers, Sri Lanka (IESL) and Institution of Incorporated Engineers, Sri Lanka (IIESL) on 28th November 2018, ECSL will commence registration of engineering practitioners very shortly. Registration of Incorporated Engineers and Engineering Diplomates in ECSL will be channeled through IIESL.

This meeting was held in IIESL, Colombo 7 and Eng. (Prof.) S.B.S. Abayakoon and several members of ECSL, President of IESL were present. Eng. B.S. Perera (President), Eng. P.A.D.R. Chandrasiri (President - Elect), Eng. W.D. Fonseka (Vice President), Eng. R.M.S. Upali (Vice President) represented IIESL.

What is an Engineering Judgment?

Engineers often have to deal with critical situations for which there is no precedence or a known solution. They rely on their knowledge and expertise to make decisions, and in some cases the reasoning behind such decisions cannot be justified or obvious to others. The concept of evidence-based practice (EBP) for an engineering issue, with the intention of complementing engineering judgment and making it more transparent.

The approach is based on posing pertinent questions and finding satisfactory answers, then analyzing and synthesizing them to obtain sound decisions.

Engineering judgment is the solution which binds the best available evidence. Evidence could be research based, empirical, peer assisted or lessons learned synthesized using reasoning or by mathematical and statistical methods.

The underlying premise is that engineering judgment is the ability to fuse data from diverse sources. Such ability is indispensable when dealing with complex systems. Experts' biases can be mitigated if the best available evidence is systematically collected, validated and used in judgment by several experts. The EBP framework formalizes what is already used by most engineers in practice.

REGISTERING THE IIESL-UAE BRANCH UNDER A GOVERNMENT BODY

Sri Lankan Professional's Associations (SLPA) in the UAE

The Steering Committee formed consisting representatives of various professional bodies to establish a professional organization to be registered under a UAE government authority, met on 3rd February 2019 to discuss further on the current developments on the proposals under consideration. Currently two options are being considered, namely:

- a) Form an independent body: Sri Lanka Professional's Association in the UAE licensed under MCI Middle East, a global consulting, live

communication, and congress and event management company. The preliminary requirements to establish the SLPA under the license of MCI Middle East have been finalized and the MOU has now been agreed upon for signing.

- b) Obtain registration of the Sri Lanka Professionals under the Sri Lanka Business Council, a body registered and licensed under the Dubai Chamber of Commerce and Industries in the UAE (SLBC). SLBC has recently informed the Steering Committee that their Committee of Management is currently formulating the required constitution for the amalgamation.

The Steering Committee will look into both options and proceed on with the more onerous mode of getting the required legal cover, recognition and license.

Engineering Council of Sri Lanka

The Engineering Council of Sri Lanka (ECSL) has announced the establishment of the Engineering Council, Sri Lanka with effect from 24th August 2018, in accordance of the Engineering Council, Sri Lanka Act No 4 of 2007. The Engineering Council, Sri Lanka is thereby made responsible for the:

- Maintenance of professional standards and conduct of engineering practitioners
- Registration of different categories of engineering practitioners, and
- To provide for matters connected therewith or incidental thereto.

In accordance with the act, the Institution of Incorporated Engineers, Sri Lanka (IIESL) will make necessary arrangements to register the following engineering practitioners, having respective memberships in the IIESL:

- Incorporated Engineer
- Engineering Diplomat

This communication is to convey the initiative taken by the 2018/2019 Council to ensure that the three types of Engineering Practitioners under the purview of IESL get registered with the ECSL, **as required by the law of the country.**

Congratulations.....

PIMA- UAE Personality of the Year



Vice Chairman, IIESL-UAE Branch Eng Deepal Rajaguru was awarded the "Annual Personality of the Year" award by PIMA-UAE during their Annual Get-together held recently in Dubai, in appreciation of his services rendered to the PIMA-UAE. Hon Consul General of Sri Lanka, Mr. Charitha Yattogoda awarded the trophy to Eng Rajaguru.

Secretary, IIESL-UAE Branch, Eng Nalaka Kanthiarachci attended the inauguration of the 6th Intake of the MBA Programme of PIM, Sri Lanka in Dubai on 6th March 2019 at Holiday Inn Express Hotel, Dubai.

IIESL-UAE Branch took the initiative to facilitate the launch of the PIM MBA Programme in the UAE for the first time in September 2009.



Inauguration of the 6th Intake of the MBA programme of PIM, Sri Lanka in Dubai ceremony group photo



New Year - 2019 Celebrations and Family Get-together

@

Al Naboodah Club House - Al Awir

On Friday 19th April 2019

4.00pm onwards

Aruna 056 4265548

Chula 052 6449652

Dulin 055 9704461

Organized by IIESL - UAE



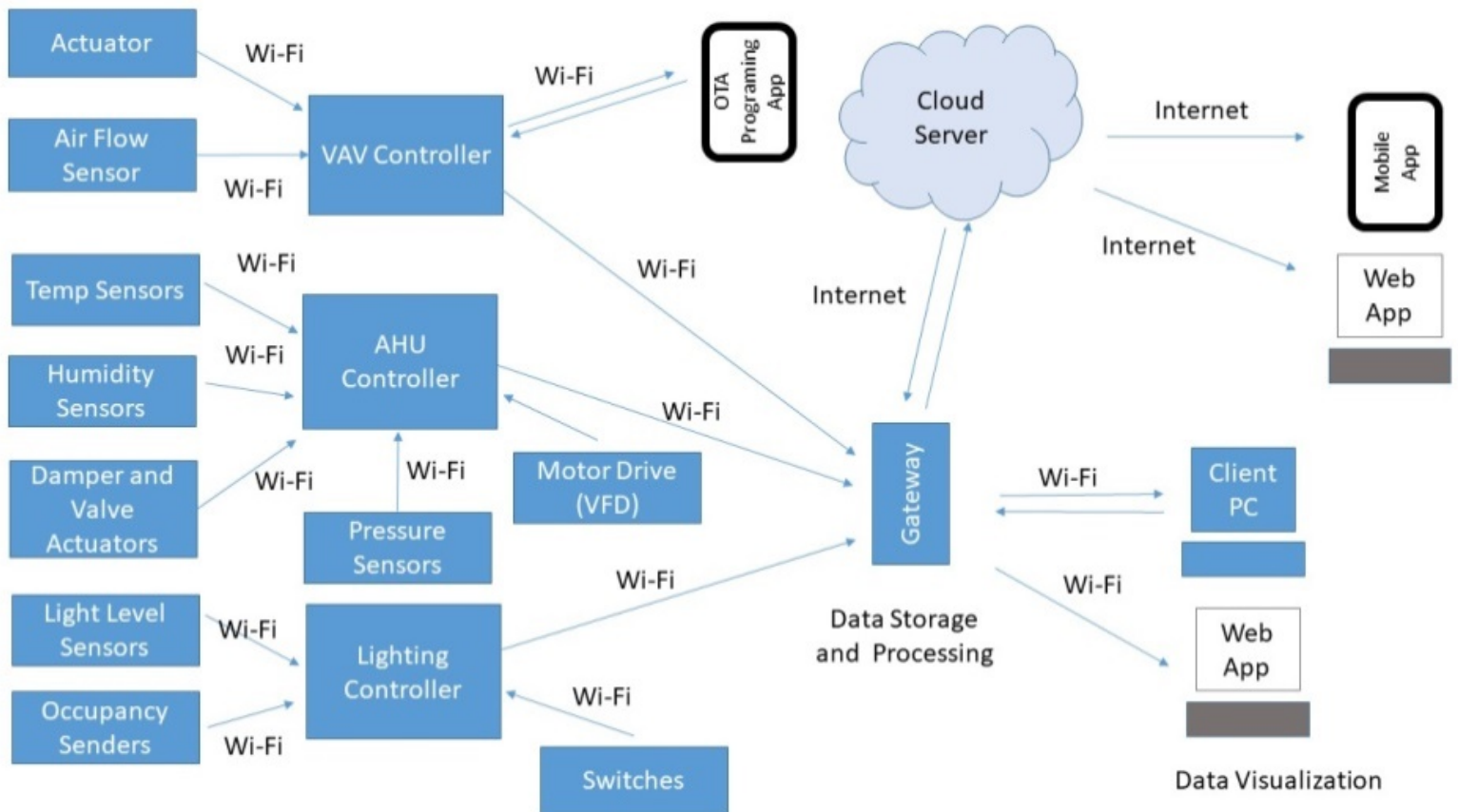
How Modern Control Systems Can Help In Ensuring Building Performance

As a construction Professional and a project manager, one of the major challenges in projects that I have seen is the timely completion of the ELV Systems and integration of all MEP services to work as one system using building controls.

This has become more important with the current expectations of meeting the code requirements for better building performance (LEED, WELL etc.). Use of high tech systems for controlling also has increased the integration requirements.

Below listed are some of the MEP Systems installed in buildings to provide occupant comfort

1. HVACR System
2. Building Pressurization System
3. Air Quality Controls
4. Lighting and Lighting Control System
5. Power Distribution and Motor Control Systems
6. Metering , Data Gathering and Visualization Systems
7. Audio Visual Systems



In modern buildings these systems are required to work as one. Therefore the above systems should be tightly integrated using building controls to control the

1. Space Temperature
2. Humidity
3. Air Flow
4. Air Pressure
5. Air Quality (CO₂, CO content etc.)
6. Light level
7. Motor Speed Controls (used for Air Flow control ,Chilled Water Flow control etc)
8. Music , Public Addressing and Sound level (Specially in Hospitality Industry and Auditoriums)

These systems are designed as separate systems by specialist engineers to meet the respective codes, standards and regulations. The MEP Systems are installed by specialist teams. Usually the integration is left to a building controls specialist or a group of specialists. Building Controls are usually commissioned at a very late stage in a building construction project.

Usually the HVAC Sensors, Lighting Sensors, Switches and other devices may require to be relocated at the final commissioning and performance testing stage in order to achieve the optimum system performance

This makes it complex and costly to carry out any changes in MEP installations if required to make the control system work and achieve the tight integration of separate MEP Systems.

The modern advances in wireless sensors, controllers, actuators, switches and control systems has given a very practical and easy way to overcome this issue.

The advances in wireless communication methods such as Wi-Fi , Bluetooth Low Energy (BLE) , LoRa and the availability of modern Web Based Control systems, iOS and Android Apps has made the control systems truly flexible, scalable , easy and simple to install and commission

To achieve the above all MEP equipment should be compatible with the modern control systems. A typical wirelessly connected Building Control System is shown in below figure

This is one option for connecting various sensors, actuators and drivers wirelessly. Any protocol such as Wi-Fi, BLE, LoRa, ZigBee or a collection of wireless protocols can be used for connectivity.

Modbus TCP, BACnet/IP, Profinet are some of the widely accepted and approved soft communication automation protocols that can be used with above arrangement.

This system does not require complex cabling, containment arrangements and most sensors and actuators can operate with built in long-life (up to 10 years based on the application) batteries eliminating the power requirement for the sensors.



Article by: Eng. Nalaka Kanthiarachchi.

MIIESL, MIET (UK), GCGI (UK), PMP, I Eng.

Excel Shortcuts Cheat Sheet

- **F1** Displays the Office Assistant or (Help > Microsoft Excel Help)
- **F2** Edits the active cell, putting the cursor at the end
- **F3** Displays the (Insert > Name > Paste) dialog box
- **F4** Repeats the last worksheet action (Edit > Repeat)
- **F5** Displays the (Edit > GoTo) dialog box
- **F6** Moves to the next pane in a workbook (if the window is split)
- **F7** Displays the (Tools > Spelling) dialog box
- **F8** Toggles whether to extend a selection with the arrow keys
- **F9** Calculates All the worksheets in All the open workbooks
- **F10** Toggles the activation of the Menu Bar
- **F11** Displays the (Insert > Chart) dialog box that creates a chart (on a chart sheet) using the highlighted range
- **F12** Displays the (File > Save As) dialog box
- **Shift + F2** Inserts or edits a cell comment (Insert > Comment)
- **Shift + F3** Displays the (Insert > Function) dialog box
- **Shift + F4** Repeats the last Find, the same as (Edit > Find Next)

Excel Shortcuts Cheat Sheet

- **Shift + F5** Displays the (Edit > Find) dialog box
- **Shift + F6** Moves to the previous pane in a **workbook (if the window is split)**
- **Shift + F8** Toggles between switching Add Mode on or off*
- **Shift + F9** Calculates just the active worksheet
- **Shift + F10** Displays the (Shortcut) menu for the selected item
- **Shift + F11** Inserts a new worksheet (before the active sheet) into the active workbook (Insert > Worksheet)
- **Shift + F12** Saves, Displays the (File > Save As) dialog box if a new workbook
- **Ctrl + F1** Closes and reopens the current task pane (ribbon in 2007)
- **Ctrl + F2** Print Preview
- **Ctrl + F3** Displays the (Insert > Name > Define) dialog box
- **Ctrl + F4** Closes the selected workbook window
- **Ctrl + F5** Restores the size of the active workbook or window
- **Ctrl + F6** Moves to the next open workbook or window
- **Ctrl + F7** Activates the Move window command
- **Ctrl + F8** Activates the Resize window command

Continue with next Newsletter.....

Inco 2019 Industrial Exhibition

21st, 22nd & 23rd June 2019 & BMICH

For Stall Reservations: 0777 741073

Organized by: The Institution of Incorporated Engineers, Sri Lanka

Inco Secretariat 490, Oceaniaca Tower

Galle Road

Colombo 03



Tel. Fax/ 011 4736708 / Tel: 011 1736708 E.Mail

inco@slt.net.lk

Obituary Notice

Eng. P. Weerakkody, Past President of the Institution of Incorporated Engineers, Sri Lanka passed away on 2nd March 2019 in Sri Lanka.



Eng. P. Weerakkody

Past President

Period of Presidency

1994-1995

Members of the IIESL_UAE branch wish late Eng Weerakkody attain the Supreme Bliss of Nibbana

Important Notice

IIESL UAE Branch has initiated conducting mock interviews for the members who intends to attend APC interviews for the Australian Institute of Quantity Surveyors (AIQS) and Royal Institution of Chartered Surveyor (RICS, UK).

We request members who are willing to get the services to contact the secretary of the IIESL-UAE Branch to arrange the interviews.

Besides, if the member requires any assistance/guidance for educational or professional matters, please feel free to contact the secretary by email: iiesluae@gmail.com.

Achievements....

1	Eng. Jayantha Hettiarachchi	C Eng	Chartered Engineer, Engineering Council, UK
		MIMechE	Chartered Mechanical Engineer, Institution of Mechanical Engineers, UK
2	Eng. Hemantha Jayasree	AIQSL	Associate Member, Institute of Quantity Surveyors, Sri Lanka
3	Mr. Chaminda Jayawardane	MRICS	Member, Royal Institution of Chartered Surveyors, UK
4	Mr. Chandana Senarathne	MSc (QS)	Hariot Watt University, Dubai Campus
5	Mr. Ayodya Perera	MBA	Master of Business Administration , University of Sri Jayawardanepura.
6	Mr. Aruna Uduwerella	MAIQS	Member of Australian institute of Quantity Surveyors
7	Mr. Manoj Sampath	MAIQS	Member of Australian institute of Quantity Surveyors
8	Eng, Buddhika Nivunhella	MAIQS	Member of Australian institute of Quantity Surveyors

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Sri Lankan New Year Festival 2019

இலங்கை புத்தாண்டு விழா
2019
 APRIL 12 | 8.00 AM ONWARDS | ZABEEL PARK DUBAI



The Traditional Cultural Show performed by Ranwala Balakaya



Avurudu Games



Avurudu Kumara and Kumariya



Free Health and Dental Camps



Sri Lankan Bank & Trade stalls



Sri Lankan food stalls



Performance by Saman Lenin and Nilaksh Helapita

Kotta Pora (Pillow fighting) | Kana Mutti (Breaking Earthen Pots)

Aliyata Asa Thabeema (Placing the eye of the elephant)

Sangawunu Amuththa seweema | Folk Songs | Tug of war and many other Games

All Children games will be starting at 8.00am onward

Blood donation camp | Free Legal & Employment Advise Camp

Eye testing and free Spectacles | Kids Fun Zone and much more



Selected games are open for non-Sri Lankans

12th April @ Zabeel Park, Dubai



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 to trade stalls, sponsorships and game segments