



# SRI LANKAN CONSULTING ENGINEER

Newsletter of the Association of Consulting Engineers, Sri Lanka



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Incorporated by Act No.  
42 of 2003)  
May, 2019

A Member Association of  
the International Federation  
of Consulting Engineers  
Issue 33

**KEEP IN TOUCH WITH THE ASSOCIATION OF CONSULTING ENGINEERS, SRI LANKA**

## From the Editor....

I submit my first newsletter with great pleasure as the Editor of the year 2018/2019 and also thanks for the former assistant secretary Eng. A W Gamage to proposing me as the Editor for the new year.

After assuming duties, I have been working, rendering services to the best of my ability to achieve the goals of the society.

I am happy to state that, I have been motivated to implement new concepts and ideas with the assistance of other council members and I also would like to highlight some important views in the forthcoming news.

Further, I extend my thanks to the colleagues who responded by sending emails and articles on time, in all forms to make this newsletter a success.

In conclusion I would like to mention that we would be able to achieve the aims of the association by working together as a team sharing ideas experiences and knowledge and also accomplish the general objectives of ACESL by determining resolutions for national and international issues that influence our profession.

Your feedback to the newsletters of ACESL will be highly valued and appreciated. I consider this as an opportunity to invite you all to forward your contributions in different ways.

**Eng. P Dhammika Dharmaratne**  
Editor/YPF Cordinator(ACESL)

## President's Message



**Eng. (Mrs) Kamala Gunawardena**  
President (ACESL)

As we embark on to 2019, I am highly honored and grateful to reach out to you as the president of ACESL. Looking back to the last year and prior in the council, I am very proud and impressed with the work that has been carried out. Every year the standard and the quality of the functions and the diversity of the events have been improving immensely and more and more people are taking their time to be involved in the events. With this positive mindset, I hope to carry on the work to the same standard while thriving to achieve more to the best of our abilities.

I am thankful to everyone in the council who has been supporting all the endeavors throughout and I hope you will continue to do the same this year. I envision bringing new ideas to fruition and meeting all the challenges in this evolving industry while also ensuring the strong foundation of ACESL is maintained. In order to achieve this, I believe that our consultancy services should be at the highest standard possible and I hope to enable this by ensuring that our Engineers receive the skills and the knowledge that would help them enhance their capabilities which in turn would contribute in the development of our country as a whole. I am excited and I am looking forward to receiving all your suggestions, feedback and new ideas that I am sure will help make this vision a reality.

## Annual General Meeting

**The Annual General Meeting was held on 5th December, 2018 at Raffles Banquets Hall at No : 262, Kotte Road Mirihana, Nugegoda, Sri Lanka, with an attendance of 43 members including 7 member firms.**

A Period of two-minutes silence was observed as a mark of respect to all the demised members of the Association.

The chief guest Eng. Ranjith Gunathilaka, Chairman of Chamber of construction industry addressed the gathering on “Role of Consultancy Engineers” and a summary of the speech is as follows.



**Eng. Ranjith Gunathilleka  
Managing Director,  
Sanken Construction (Pvt) Ltd.**

He commenced his speech by thanking council of ACESL for inviting him as the chief guest of that great evening and welcoming all the members gathered there. He/Eng. Gunathilleka stated that he had met some of them in different forums in the construction industry.

He said that he was surprised to say that there were no known faces of his batch and he stated that from volume of thousands of Engineers that passed out from his junior and senior batches very nominal presence was noted. Hence It is very essential to take remedial steps to minimize this pathetic situation.

He humbly requested the senior engineers to render their services to the public without thinking of monetary means.

Thereafter, he pointed out that the large numbers of Local Consultants as well as Foreign Consultants were engaged in several projects in Sri Lanka. There were

many projects with lack of consulting engineers with qualifications, experience and knowledge.

He also mentioned that an alarming vacuum is taken place due to the retirement of the professional engineers from this field.

He also mentioned that the female deployment is more than the males comparatively. It is a timely need to work very efficiently gaining experience and it is very essential to train the engineers to get the maximum benefit of their service He also emphasized that no one should be taken up as consulting engineers unless they are equipped with professional qualifications.

He spoke highly about the remarkable service of CECB which positively contributes for the development of the country by under taking numerous kinds of projects both in government and private sector.

Mr. Gunathilleka was glad to note the role of ACESL by getting the elite professionals under one umbrella. He declared that the annual gathering makes an influential to strengthen the field.

He requested the senior engineers to extend their service to their junior engineers without disappointing them. He also suggested to use SLEN or Construction chamber news bulletin to benefit them. Mr. Gunathilleka delivered an inspiring speech which will be encouraging the young and upcoming engineers.

Eng.Maj.Gunathilleka thanked the organizing committee of ACESL with all construction Industries for giving him this opportunity to express his views on the subject matter to learned forum comprised of very senior engineers.

I believe that our lots of members highly appreciated this suitable speech which was very valuable for the young engineers, who were involving for the construction industry.

**Highlights of AGM 2018 at 5th December, 2018 at Raffles Banquets Hall, Kotte**



**Registration Table**



**Appointment of New Council Members**



**Head Table**



**New Company Registration**



**President's Speech**



**Lunch**



**Hon. Secretary's Speech**



**Music Engineers**



## New Council for the Year 2018/2019

The 1st Council Meeting was held on the 19th December at CECB board room for the Session 2018/2019.

The Members of the new Council and the Office Bearers elected at the 1st Council Meeting are;

Post	Name
President	Eng. Mrs. K. Gunawardana
Vice President	Eng. S.H.U. De Silva
Hon. Secretary	Eng. A.W. Gamage
Hon. Treasurer	Eng. S.S. C. H. Pietersz
Hon. Assistant Secretary	Eng. H.M.A.M. Herath
Hon. Assistant Treasurer	Eng. Prof. R.U. Halwatura
Editor & Coordinator of Young Professional Forum	Eng. P. D. Dharmaratne
Immediate Past President	Eng. Kirthi Sri Senanayake
Council Member	Eng. Malith Mendis
Council Member	Eng. Ananda Senarath
Council Member	Eng. P.C. Jinasena
Council Member	Eng. W. Thiyambarawatta

## Technical Paper

### Meeting Environmental Challenge Created by Construction Industry through Green Building Practices

**Prof. Ranjith Dissanayake**

Senior Professor, Dept. of Civil Eng., University of Peradeniya.

Chairman, Green Building Council of Sri Lanka.  
VP Chamber of Construction Industries of Sri Lanka.

[ranjith@fulbrightmail.org](mailto:ranjith@fulbrightmail.org)

#### Abstract

There are several environmental issues that we face today such as Climate Change, Ecosystems & Endangered Species, Deforestation, Pollution, Water Scarcity & Water Pollution, Loss of Biodiversity, Overpopulation, Waste Disposal, Land Management & Urban Sprawl, Public Health etc. The construction industry is partly responsible for making the situation

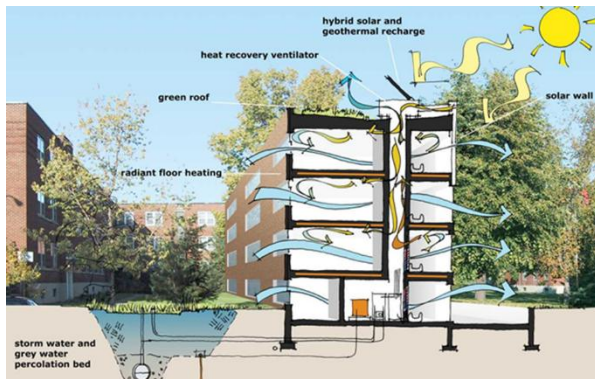
worse. In this article, while highlighting the above environment challenges and how these challenges could be addressed through the green building concept.



**Conventional building construction**

The main difference between green building and conventional building is that green building fully embraces resource efficient building strategies, which include all economically, socially and ecologically friendly construction procedures, while the conventional building practices put their effort only on economic and social benefits. As infrastructure development strategies are needed by the developing countries; a great urgency of implementing a proper tool to ensure ecological, economic, social and cultural aspects has been identified, as the conventional practices promote consumption of more resources than the environment can possibly withstand. The development of GREENSL® Rating System and GREENSL® Labelling System by the green building council of Sri Lanka has in many ways contributed toward achieving these goals, while ensuring the sustainability of the built environment. GREENSL® Rating System for built environment transforms the design, construction, and operation of built environments and shift practice towards higher performance, lower environmental impact, and ultimately leads to regenerative designs contributing toward the economic development and also the sustainability of the environment. In spite of that GREENSL® Labelling System aims to encourage sound environmental practices and to create both local and international markets for environmentally preferable products.

Green building requires integrated approach, but in practice it depends on new strategies in the various aspects of design and construction. Accordingly, for measuring the enviroRating System has introduced eight categories used in GREENSL namely, Management (MN), Sustainable sites(SS), Water efficiency(WE), Energy & atmosphere (EA), Material & Resources (MR), Indoor environment quality (EQ), Innovation & design process (ID) and Social & cultural awareness(SC) which ensures greener environment performance of a building, the GREENSL. The figure below shows a cross section of a green building.



**Cross section of a green building**

### Event Organized by ACESL

#### 1.0 Evening lecture

Presentation on “Pipe Laying, Pump Performance and Modern Plumber in Water Management”

Date : 7th March 2019  
 Venue : Silk Route, Malabe  
 Resource Person : Eng Gamini De Alwis  
 Participants : Council and General Members

#### 2.0 Field Visit

Field visit was arranged to Kadawatha-Kerawalapitiya Seciton.

Date : 30th March 2019

#### 3.0 Workshop No-1

Public lecture “Contractual letter writing”

Date : 11th May 2019  
 Venue : Silk Route, Malabe  
 Resource Person : Eng. G H Lawrance  
 Participants : Council and General Members

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