President Urges Members and the Secretariat to Forge Ahead in the New Year

“Let’s make our Vision a reality soon, we have it within us to make it happen” – President Eng. Jayavilal Meegoda

I wish you all a Happy and Prosperous New Year, 2017. Let’s make this year memorable for a leap forward in a qualitative transformation of our institution towards being amongst the leading professional institutions in engineering and technology in the world as envisaged in the IESL Vision.

Let this year gather speed in building up on the many improvements of the past in our infrastructure, systems and processes at the secretariat, the connectivity we have achieved with our locally dispersed members and those caught up in the wave of global migration of skills and residing overseas, prestige and recognitions brought by permanent membership in international mechanisms for mutual recognition of engineering competencies and education and the authority accrued thereby for registration of IntPE and accreditation of degree programmes in the country for their recognition, the high esteem of the presidency of the Federation of Engineering Institutions for Central and South Asia (FEISCA) bestowed upon the President of the IESL, the Memorandum of Understanding for mutual recognition with Institution of Engineers Australia (Engineers Australia) to facilitate mobility of Professional Engineers from one country to the other, etc., etc.

This year be memorable for a big boost for Young Engineers to derive the best benefits through promotion of skills through Debating Competitions, Entrepreneurs and Startups Forum, Water Forum and activities especially of the Young Members Section and the dynamic involvement of our Student Chapter Members. Let there be an upward movement in the professionalism of our members worldwide as never before with the progressive decentralization to the chapters of our professional development programmes and the evaluation and testing of competency for the Charter. The streamlining of functions of its secretariat using technologies of the times is being taken a step further by the SS system implementation now underway. Policies that would support this accelerated journey to our vision would be formulated with the care and in consistency with the Act of Incorporation and By-Laws of the institution that the Council has always demonstrated. We have it within us to do it. So let’s get together and do it. Thank you.

Eng. Jayavilal Meegoda
President

IESL Christmas Party 2016 Rekindles Full Spirit of Christmas

Members, spouses and children gathered in their numbers in the pleasant settings of the Members’ Lounge of the institution to make merry at the IESL Christmas Party on Saturday, December 10, 2016 from 6.30 pm onwards. Revived just the previous year after a lapse of many years, the event saw the participation almost doubled this year with all the more enjoyments with fun and games associated with the tradition.

Contd. on page 11...

President’s Corner
January 2017

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Eng. Jayavilal Meegoda
President
The Council 2016 / 2017

Eng. Jayavilal Meegoda
PRESIDENT-The Institution of Engineers, Sri Lanka. President, Federation of Engineering Institutions of South and Central Asia. Fellow - FIE (Sri Lanka)

Eng. W Gamage
IMMEDIATE PAST PRESIDENT Fellow - FIE (Sri Lanka)

Eng. W J L S Fernando
PAST PRESIDENT Fellow - FIE (Sri Lanka)

Eng. (Prof.) Mrs. Niranjanie Ratnayake nee Kodikara
PRESIDENT - ELECT Fellow - FIE (Sri Lanka)

Eng. (Dr.) L B K Laksiri
VICE PRESIDENT Fellow - FIE (Sri Lanka)

Eng. (Prof.) S B S Abayakoon
VICE PRESIDENT Fellow - FIE (Sri Lanka)

Eng. (Prof.) D A R Dolage
VICE PRESIDENT Fellow - FIE (Sri Lanka)

Eng. J A Granie R Jayalath
Honorary Secretary Fellow - FIE (Sri Lanka)

Eng. A P R De Silva
Honorary Treasurer Fellow - FIE (Sri Lanka)

Eng. T M R Dissanayake
CHAIRMAN AGRI. & PLANT. ENG. SEC. COMM. Member - MIE (Sri Lanka)

Eng. S S Gunawardana
CHAIRMAN BLDG. SERVICES ENG. SEC. COMM. Member - MIE (Sri Lanka)

Eng. K G H Kodagoda
CHAIRMAN CHEMICAL & PROCESS ENG. SEC. COMM. Member - MIE (Sri Lanka)

Eng. M N A Samad
CHAIRMAN CIVIL ENG. SEC. COMM. Member - MIE (Sri Lanka)

Eng. W W M B S Kosala G Kamburadeniya
CHAIRMAN ELECT. & ELECTRONICS ENG. SEC. COMM. Member - MIE (Sri Lanka)
The Council 2016 / 2017
The Editor – SLE
www.iesl.lk. For clarifications call Manager SLE – Doha, Qatar

www.iesl.lk. You can also post your draft article in the YOU ARE

Editor, Sri Lanka Engineering News, E-mail: dir.pub@iesl.lk

While I was reading through the predictions for my field of IT and communications, I found that heavy focus is placed on big data analysis and Artificial Intelligence (AI). Organizations and governments are investing heavily to digitalize the systems, while using Artificial intelligence. Intrinsically this mean less and less manual work and some of the labor will be redundant. Further in 2017, trend will be shifting to Edge computing from the CloudComputing. With the technologies like 5G and IOT (Internet of Things) more and more devices are connected and data is collected in the field. Hence processing will be required near to the devices not at the central servers as we do now.

The Energy industry will focus on how to make solar energy economical. Though the Fossil fuels (oil, natural gas, coal) will still be dominating the energy markets, increasing the solar energy systems will become a better alternative. Current solar cells are not very efficient in terms of converting solar energy to electricity. Further challenges are there for energy storage systems. It is expected that new materials and technologies will be developed soon.

What will happen in transportation? Cities around the world are developing integrated transportation systems. These include rail, bus, pedestrian, car, bicycles and parking slots. The urban infrastructure will be increasingly environment friendly. Providing clean water for all citizens is still a dream for most of the countries, hence large investments in these areas are expected. Heavy focus will be given to water recycling, rain water harvesting, cheaper techniques for desalination and storm water management.

As Sri Lankan Engineers we shall be fully aware of these trends in future. We need to lead in embracing these technologies, introduce them in our organizational business plans and effectively execute these projects. The IESL can facilitate discussions, educate the public and train our engineers in new technologies through CPD programs. Our universities and other research and development organizations shall strive hard to innovate in these future potential areas.

Eng. Indika Walpitage,
(indika.walpitage@gmail.com)

NOTICE TO ENGINEERING FACULTY UNDERGRADUATES

WRITE TO SLE
Be creative! Bring out the writer in you! Have an interesting story to tell? An idea to express? A question to ask, or a comment to make?

Start writing now! The Editor of the Sri Lanka Engineering News (SLEN) newsletter of the IESL invites articles of technical, managerial, artistic or any other nature, even campus humour from you, our engineers-to-be.

The editorial staff of the IESL is ready to support your initiative and give it the best chance of success to be published in the SLEN.

Write a true story of a project, a book review, a policy question to ask, or a comment to make? Have an interesting story to tell? An idea to express? A question to ask, or a comment to make?

Send your draft materials (around 800 words) to: The Editor, Sri Lanka Engineering News, E-mail: dir.pub@iesl.lk

You can also post your draft article in the YOU ARE THE AUTHOR -WRITE TO SLEN blog in the institutions website www.iesl.lk. For clarifications call Manager Publicity – IESL, Tel: 2698426 Ext 232.

Editor – ‘Sri Lanka Engineering News’

3rd Annual General Meeting of Institution of Engineers Sri Lanka – Qatar Chapter

by Eng. Prabuddha Lokuliyange Secretary for the session 2016/2017 IESL – Qatar Chapter Doha, Qatar

The Institution of Engineer, Sri Lanka – Qatar Chapter conducted its 3rd Annual General meeting on November 11, 2016 at Mercure Grand Hotel, Doha with the participation of Sri Lankan Engineers who are working in Qatar.

Eng. Jayavilal Meegoda, President of Institution of Engineer, Sri Lanka (IESL) participated in the event as the Chief Guest.

Formalities of the Annual General Meeting were started after lighting the traditional oil lamp by the Chief Guest followed by the presentation of the Annual Report by the outgoing chapter Secretary for 2015/2016, Eng. Jayavilal Meegoda.

The outgoing Vice Chairman, Eng. S. S. Madawela, welcomed and thanked the members of the chapter for their support and successful functions conducted during the session 2015/2016.

Outgoing Secretary, Eng. Anila Wijesinghe, thanked the chapter for her support and successful functions conducted during the session 2015/2016.

The President of the chapter, Eng. Prabuddha Lokuliyange, thanked the chapter members and the guests and expressed the wish for a successful session.

Elected office bearers of the Qatar Chapter for the session 2016/2017 from the received nominations, were inducted.

Eng. Jagath Gunasekara was appointed as the Secretary for the chapter for session 2016/2017 and Eng. Kamal Ariff was appointed as Vice Chairman.

Outgoing Chairman, Eng. Prabuddha Lokuliyange, thanked the chapter members for their support during the session 2016/2017.

The IESL – Qatar Chapter, newly appointed Executive Committee for 2016/2017 session

President – IESL, Eng. Jayavilal Meegoda addresses the gathering

IESL – Qatar Chapter, AGM – 2016 participants

lowed by the executive committee members of the Qatar chapter, Senior Engineers and other distinguished guests.

Outgoing Vice Chairman, Eng. Shantha Wearnasinghe welcomed the Qatar Chapter and the outgoing chapter Secretary for the session 2015/2016, Eng. Kamal Ariff presented the highlights of the events that were undertaken by the chapter during the particular period.

Chief Guest, President of IESL Eng. Jayavilal Meegoda, inspired the audience by highlighting the importance of professional engagement with IESL and becoming a Chartered Engineer of the institution which is now a permanent signatory to the Washington Accord.

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President – IESL, Eng. Jayavilal Meegoda addresses the gathering

Eng. Jagath Gunasekara was appointed as the Secretary, Editor and Treasurer respectively and in the meantime, Eng. Prasanna Janakasiri, Eng. Chanaka Guruge, Eng. Mohamed Rajas, Eng. Amila Mapa and Eng. Nadeera Wijesinghe were appointed as committee members for the 2016/2017 session of the chapter.

The AGM formalities ended with the start of the fellowship dinner which was made vibrant by the entertainment provided by renowned artist Visharadha Sarath Peris backed by the “Respect plus” band.

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WEF Holds Alms-Giving Ceremony at CMC Elders Home

The Women Engineers’ Forum (WEF) of the IESL held an Alms-Giving Ceremony at the CMC Elders Home, Wickramasinghepura, Battaramulla on 10th January, 2016 to mark the 111th anniversary of the IESL.

Lunch was provided for 130 residents and President IESL, two WEF past Presidents and the Executive Committee had got together in organizing the event. The President in his message for the 111th Anniversary conveyed the message: “Let’s make our Vision a reality soon, we have it within us to make it happen”.

The Chairperson of the WEF conveyed her message: “On behalf of the WEF I would like to congratulate for our 111th Anniversary. It was a pleasure that WEF could arrange an Alms Giving to an elderly home of 100 occupants to celebrate and mark our Anniversary. It has been a very successful year for the WEF as we have done many activities including Portcity Visit and two public lectures done by international guest speakers. I am looking forward to more women engineers participation and more commitment from our membership to take WEF an extra mile.”

111th Annual Sessions
October 2017
The Institution of Engineers,
Sri Lanka

Call for Papers

Technical papers are invited under the following categories:

- Engineering theory/research (academic) oriented technical papers
- Technical papers based on Engineering practice/design /projects/ techniques

The paper should be of value and interest to Engineers and aimed at making a contribution to the advancement of the Profession of Engineering. It must be based on review of past practice, information of current interest, or probing into new fields of engineering activity. It should be a presentation of thought provoking study contributing to planning, analysis, design, construction, fabrication, production, management or maintenance of Engineering works. In this context, practical papers are strongly encouraged. Wherever possible, theoretical papers should include a section on practical application or additional research areas to be pursued for effective technology transfer.

Submission of Papers:

Intention of submitting paper should be conveyed to the IESL with an abstract of the proposed paper. The abstract, not exceeding 300 words in English, together with details of the author(s) can be submitted in electronic format at the URL https://easychair.org/conferences/?conf=ieslas2017 with a copy (MSWORD) to iesl.sessions@gmail.com.

Schedule of Key Dates:

<table>
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<th>Event</th>
<th>Date</th>
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<tr>
<td>Last date for receipt of abstracts</td>
<td>13th March 2017</td>
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<tr>
<td>Notification of acceptance</td>
<td>03rd April 2017</td>
</tr>
<tr>
<td>Last date for submission of full paper</td>
<td>15th May 2017</td>
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<tr>
<td>Proposed dates for Technical Paper presentation at the Annual Sessions</td>
<td>23rd &amp; 24th October 2017</td>
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Best Paper Award

Best paper based on the marks given by referees and judges at the presentation will be entitled to the prestigious Prof. E.O.E. Pereira Award.

Mailing Address

All correspondence besides submissions in electronic format through:

URL https://easychair.org/conferences/?conf=ieslas2017 should be addressed to:

Eng. (Dr.) Jagath Manatunge
Editor, Technical Papers for Annual Sessions,
The Institution of Engineers
Sri Lanka, 120/15, Wijerama Mawatha,
Colombo 7.

For more information visit website www.iesl.lk (check Announcements)

“International Professional Engineer” status

Dear Corporate members,

The IESL has spread its wings by providing the opportunity to its members to obtain internationally recognized “International Professional Engineer” status.

International Professional Engineer (InPE) is governed by the International Professional Engineering Alliance (IPEA), which consists of the national engineering organizations of Australia, Canada, China Taipei, Hong Kong, India, Ireland, Japan, Korea, Malaysia, New Zealand, Singapore, South Africa, Sri Lanka, UK and USA.

We hereby kindly invite the corporate members of the IESL to apply for the membership status, in order to get qualified for this prestigious membership status that will immensely benefit.

Members who wish to work in lending banks such as WB or ADB, products will have a recognized qualification.

Members who wish to work with international contractors in Sri Lanka, will have an internationally recognized qualification.

Members who wish to be entrepreneurs and who will export their products will have recognized qualification.

Members who wish to work in lending banks such as WB or ADB, these Banks will recognize this qualification.

For further details pls. log into “My IESL” and click the submenu item “Registration as an International Professional Engineer”.

Eng. Jayavilal Meegoda
PRESIDENT, IESL
Dear Members,

Entrepreneurs Forum

Sri Lanka needs accelerated structural transformation in order to take the bulk of its population out of poverty. This requires deeper investment in factors leading to growth-enhancing structural change and the people’s mindset. Sri Lanka need to diversify and expand their sources of economic growth while creating opportunities for more inclusiveness. The vision will lead Sri Lanka attaining High income status through technological-driven and competitive industries.

A successful career is like a rollercoaster with many ups and downs, whether you’re an employee or an entrepreneur. Understanding how to maintain success and rise from the failures can help you to lead a more productive and fulfilling career.

There is a necessity to establish a forum for Entrepreneurship among the members of IESL. A lot of young startups needs guidance and support in making their budding businesses thrive. In my presidential address during the 2016/17 inauguration, this need was highlighted and it’s the time to find solutions.

To help provide insight on how to navigate a successful entrepreneurial career, IESL has lined up series of discussions with eminent entrepreneurs in this country.

First of this series was held on 02nd February 2017 with Eng. U.D.Jayawardane, the CEO/Director of LTL Holdings (Pvt) Ltd at Wimalasurendra Auditorium, IESL.

Engineers, both successful entrepreneurs and young Startups! You can now be a proud member of the IESL Entrepreneur Community by joining its Entrepreneurs Forum by visiting our website www.iesl.lk

Eng. Jayavilal Meegoda
PRESIDENT, IESL

IESL Qatar Chapter Conducts B Paper Examination

by Tilakasiri Ekanayaka
Professional Development Coordinator/IESL Qatar

IESL Qatar recently made history by conducting the B Paper examination of IESL on 4th September 2016. This is the first ever B paper examination held in an overseas center during the 110 years of professional excellence of IESL.

27 Associate Members of IESL sat for the examination held in Hotel Grand Mercure, Doha, Qatar on 04 September 2016. Another four IESLQ members sat the examination in Sri Lanka since they were on vacation at the time.

Eng. Jayavilal Meegoda President Elect IESL travelled all the way from Sri Lanka to Doha, Qatar to oversee the examination as the official representative from IESL parent body. Eng. Chandralal Mendis and Eng. Upali Leelasiri were the supervisors of the exam.

Contd. on page 11...

FEISCA Meeting

Members of the Federation of Engineering Institutions of South and Central Asia (FEISCA) who attended the inauguration ceremony of the 110th Session of the IESL as its invitees gathered for a meeting at the IESL Headquarters on 14th October, 2016 soon after the ceremonies connected to the inauguration were over. Eng. Jayavilal Meegoda the newly inducted President of the IESL for its 2016 / 2017 sessions, who incidentally is the current President of the FEISCA, chaired the meeting.
AUSTRALIA IS CALLING ALL YOU ENGINEERS

Are you employed in one of the following occupations? then here is you opportunity to move to one of the most sought after destinations in the world

Occupations in demand

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Biomedical Engineer
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www.australianmigrationcentre.com
Port City Visit, Nov.22 2016
Organized by WEF - A Great Experience!

There was a great demand for the Port City Visit on the 22 November 2016 organized by the Women Engineers’ Forum (WEF), and 70 members participated and had a great opportunity to Visit the largest Civil/Coastal

IESL Holds Workshop on ‘Curriculum Mapping and Aligning Assessments’

The IESL conducted a workshop on ‘Curriculum Mapping and Aligning Assessments’ on January 16, 2017 as part of its commitment as a permanent member of the Washington Accord, the international mechanism for the mutual recognition of four (4) year engineering degree programmes among its signatory countries. Prof. Julia Lamborn from Australia was the resource person for the workshop and around 50 academics from universities and institutions providing 4 year engineering degree programmes in Sri Lanka participated. President of IESL, Eng. Jayavilal Meegoda welcomed the participants to the workshop.

The four year full time degree programmes accredited by the IESL will be considered as substantially equivalent to the four year degree programmes that have been accredited by the other signatories to the Accord; Australia, Canada, Chinese Taipei, Hong Kong, China, India, Ireland, Japan, Korea, Malaysia, New Zealand, Russia, Singapore, South Africa, Turkey, United Kingdom and United States are among permanent signatories to the accord.

TRAINING PROGRAMMES IN HIGHWAY ENGINEERING

Module 1: Mechanistic Pavement Design (2nd GROUP)

Who should attend to this course: Engineers
Training programme covers theory and application related to Empirical Pavement Design (Road Note 31 and AASHTO), Pavement Stress/strain Calculations, Estimation of material properties and axle loading for mechanistic pavement design, Case Study: Habarana- Kantale Road, Training on CIRCLY Software, Pavement Evaluation

Dates: March - 13th & 14th 2017 Fees: Rs 20,000.00

Closing Date for the registration February 16th 2017

Module 2: Good Practices in Asphalt Pavement Construction

Who should attend to this course: Engineers and Technical Officers
Training programme covers theory and application related to Types of bituminous material Specification and Selection of Materials, Asphalt mix design, Asphalt production, delivery, laying and compaction, Quality control and quality assurance

Dates: March - 6th & 7th 2017 Fees: Rs 15,000/= 

Closing Date for the registration February 16th 2017

Venue: Department of Civil Engineering University of Moratuwa.

Registration: Completed applications should be forwarded to:
Course Coordinator,
Transportation Engineering Division
Department of Civil Engineering,
University of Moratuwa, Moratuwa.

Further information:
Phone: 0112650567 (Ext. 2023)

Contd. on page 11...
The Annual General Meeting of Sabaragamuwa Provincial Chapter was held on 28th of November 2016 at Samudra Reception Hall, New Town, Rathnapura from 5pm onwards. More than 80 Engineers participated from the Sabaragamuwa Province from diversified areas. Eng. Jayavilal Meegoda, President of the Institution of Engineers Sri Lanka was the Chief Guest of the event, and Prof. Mrs. N. Ratnayake was the Guest of Honour. Prof. Eng. J M S J Bandara educated the house as the Key Note Speaker at the event.

The neighboring Chapter Chairmen and Secretaries, and District Centre Secretaries were present to congratulate the outgoing Executive Committee as well as to welcome the incoming committee. Their immense support throughout the year should also be appreciated.

After completing a successful year full of events, the committee of session 2015/2016 handed over the committee of session 2016 to the outgoing President of the Chapter, Eng. Ajith Panagoda. The committee of session 2015/2016 was thanked for their hard work and sacrifice throughout the year. The new committee had been elected for the new session 2016/2017. The outgoing President of the Chapter, Eng. Ajith Panagoda congratulated all the officers on their good work. He further appreciated the hard work put in by the members of the committee and thanked them for their support.

A field visit was organized to Alumex Factory at Sapugaskanda on 22nd July 2016.

A field visit to Moragahakanda - Kalu River Development Project was organized. The visit was on 22nd September 2016. There were around 30 participants for the field visit from the Chapter.

The Provincial Competition of the Junior Inventor of the Year (JIY) Competition which is held annually for the school children was conducted on 13th August 2016 at AGA Auditorium Rathnapura. There were 13 students for the competition and the judges selected four projects out of them for the final JIY Competition. The President of the IESL Eng. Jayavilal Meegoda, President of Sabaragamuwa Provincial Chapter Eng. Ajith Panagoda, and many other

Engineers participated to encourage the new inventors. Eng. HD B Perera and Eng. Vindya Wickramaarachchi who participated from the Head office of IESL gave the fullest support to conduct the competition in a more transparent manner.

The workshop on Use of Aluminium in the Construction Industry was organized. The program was held on 10th June 2016 at Samudi Reception Hall at Rathnapura. The morning session was conducted by Mr. Aruna Manchanaysaka, Training and Customer Care Manager, Alumex PLC. The evening session was consisted of two parts, first was a brief introduction on “How the Power System in Sri Lanka Operates” and the other part was devoted to a guest lecture on “The Power System in Sri Lanka”. The lecture was conducted by Mr. Aruna Manchanaysaka, Training and Customer Care Manager, Alumex PLC.
Green Sri Lanka through Energy Conservation: Commercial Building As A Case Study

by Dr. Muzathik A.M.
Department of Mechanical Engineering, Faculty of Engineering,
South Eastern University of Sri Lanka, Oluvil-Email: muzathik64@yahoo.com

The current energy system leads to the possibility of ending up in energy disaster. It is suggested by many researchers that societal changes from the current demand to new demand which depends on two primary principles, efficiency and re-energization to be necessary in order to avoid energy disaster [1-2].

Many of the advances in energy sector have been driven by the need to cut down cost and new requirements, such as environment, efficiency, etc. The availability of adequate and reliable energy supplies to maintain economic growth and to improve living standards. Associated with energy consumption, there are environmental and health impacts which have been discussed and analyzed only during current years. In particular, burning fossil fuels have increased significantly the levels of carbon emissions. The carbon emissions are believed to have a major impact on changing global climate by increasing the temperatures. The global temperatures could affect agricultural production, and sea level heights. Moreover, the emissions from coal-fired power plants have caused significant impact in the form of acid rain over trees, crops, and animals [3-4].

Environmental impacts are not limited to fossil fuels but include other energy sources. During the past few decades, plants have altered major rivers and harmed fish and wildlife. Storage of nuclear waste from nuclear power plants can be a cause in the future and affect the health of present and future generations. Unfortunately, the damages are not localized to areas where energy is produced or used but are rather global. The emission of hydrocarbon, sulfur oxides and nitrogen oxides are causing severe health problems throughout the world [3-4].

To maintain economic growth and reduce the staggering environmental impacts of conventional energy sources, energy conservation and energy efficiency has to be considered as a clean source of energy. Instead of improvements in energy efficiency can avoid the need to build new power plants that use conventional resources to generate little costs and with no adverse environmental impacts. Moreover energy efficiency and energy conservation have other benefits such as: reducing pollution levels, including the economic competitiveness: invest-

tment in energy conservation provide a better return than investment in energy supply, stretch the availability of the limited non-renewable energy supplies, and give reasonable possibility of renewable and reliable energy resources such as solar energy and decrease air and water pollution and thus improve health condition.

In the world there is a vast potential for energy efficiency that has to be tapped in only few countries. This potential exists for all energy end use sectors including buildings, industries and transportation. One of the main challenges in this new millennium is to reduce cost and lower the environmental impacts. Therefore energy efficiency can benefit on the economic competitiveness of the environment and the health [3-4].

The energy sources primarily used in Sri Lanka include biomass, hydroelectric power and Petroleum. Biomass used mostly for household cooking accounts for more than 52.9% of the primary energy supplied in Sri Lanka during 2000. More than 70% of the total electrical power used in Sri Lanka is generated from hydroelectric power plants in 2000 and 50% in 2010 [5].

Sri Lanka imports most of its energy in the form of petroleum products. Therefore, energy conservation means less reliance on energy imports and, thus, less greenhouse emissions. Over the last 20 years total energy consumption has increased by about 40%, while the population increased at a steady rate of above 2% per year, the per capita used remained almost constant [5].

Electrical energy use can be divided into three end use categories: Residential, Commercial & Industrial sectors in Sri Lanka. The industrial sector contributes about 30% of the total electrical energy consumption of the country. Meanwhile the residential & commercial buildings used respectively 37% and 21% of the total electrically consumed energy in Sri Lanka [5]. Therefore it is prime important to carry out some energy consumption investigations for buildings & industries in order to reduce the demands of electrical energy consumption in Sri Lanka. Residential and commercial buildings account for almost 60% of total energy and the environmental impact of the buildings envelope, may not be cost effective especially for high-rise buildings. However, improvements to buildings envelope can be achieved if the building or industrial facility was built without any concern for energy efficiency such as the case with structure constructed with no insulation provided in the walls or roofs.

Moreover, the building envelope retrofit should be performed after careful assessment of the building thermal loads. For instance in low-rise buildings such as residential and small commercial buildings or warehouse, the envelope transmission losses and infiltration loads are dominant and the internal loads are relatively small, thus these facilities typically low.

Hotels use significant amounts of energy for daily operations and recreational activities. A review of the literature can be seen in building climate control and general energy use in the sector. This paper is composed of passive cooling, energy management and control strategies (EMCS), central cooling system, ice storage, desiccant dehumidification, in addition to laundry and kitchen equipments. In many facilities, energy costs are the second-highest operational costs after labor. Such considerable cost of energy is due to using technology and different sources of energy to provide comfort and convenience to hotels’ guests. Growing concern has been addressed regarding the high amount of energy that hotels consume for their operational purposes. Moreover, numerous studies lead in studying energy use and hotels energy and environmental performance [6-8]. Such studies have been able to enhance hotels’ performance by standardizing energy-efficiency tools and practices in these hotels.

Case Study

Economic potential of energy consumption in a leading five star hotel in Colombo was established. The research found that energy efficiency and the thermal demand of the hotel were to be improved through the use of high energy efficiency components of buildings envelopes. For the economic analysis, it is helpful to determine if the building was constructed or modified to meet the current energy-efficiency standards. If it is the case, retrofiting of the building envelope, and thus improve health condition. Energy disaster. It is suggested by many researchers that societal changes from the current demand to new demand which depends on two primary principles, efficiency and re-energization to be necessary in order to avoid energy disaster [1-2].

Many of the advances in energy sector have been driven by the need to cut down cost and new requirements, such as environment, efficiency, etc. The availability of adequate and reliable energy supplies to maintain economic growth and to improve living standards. Associated with energy consumption, there are environmental and health impacts which have been discussed and analyzed only during current years. In particular, burning fossil fuels have increased significantly the levels of carbon emissions. The carbon emissions are believed to have a major impact on changing global climate by increasing the temperatures. The global temperatures could affect agricultural production, and sea level heights. Moreover, the emissions from coal-fired power plants have caused significant impact in the form of acid rain over trees, crops, and animals [3-4].

Environmental impacts are not limited to fossil fuels but include other energy sources. During the past few decades, plants have altered major rivers and harmed fish and wildlife. Storage of nuclear waste from nuclear power plants can be a cause in the future and affect the health of present and future generations. Unfortunately, the damages are not localized to areas where energy is produced or used but are rather global. The emission of hydrocarbon, sulfur oxides and nitrogen oxides are causing severe health problems throughout the world [3-4].

To maintain economic growth and reduce the staggering environmental impacts of conventional energy sources, energy conservation and energy efficiency has to be considered as a clean source of energy. Instead of improvements in energy efficiency can avoid the need to build new power plants that use conventional resources to generate little costs and with no adverse environmental impacts. Moreover energy efficiency and energy conservation have other benefits such as: reducing pollution levels, including the economic competitiveness: invest-

tment in energy conservation provide a better return than investment in energy supply, stretch the availability of the limited non-renewable energy supplies, and give reasonable possibility of renewable and reliable energy resources such as solar energy and decrease air and water pollution and thus improve health condition.

In the world there is a vast potential for energy efficiency that has to be tapped in only few countries. This potential exists for all energy end use sectors including buildings, industries and transportation. One of the main challenges in this new millennium is to reduce cost and lower the environmental impacts. Therefore energy efficiency can benefit on the economic competitiveness of the environment and the health [3-4].

The energy sources primarily used in Sri Lanka include biomass, hydroelectric power and Petroleum. Biomass used mostly for household cooking accounts for more than 52.9% of the primary energy supplied in Sri Lanka during 2000. More than 70% of the total electrical power used in Sri Lanka is generated from hydroelectric power plants in 2000 and 50% in 2010 [5].

Sri Lanka imports most of its energy in the form of petroleum products. Therefore, energy conservation means less reliance on energy imports and, thus, less greenhouse emissions. Over the last 20 years total energy consumption has increased by about 40%, while the population increased at a steady rate of above 2% per year, the per capita used remained almost constant [5].

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IESL NEWS

Contd. from page 9. General Annual Meeting...

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At the AGM Eng. Jayavil Meegoda, pointed out the importance of popularizing IESL image in the society and the actions that should be taken by provincial chapters for the same. Further he mentioned about various innovative steps taken by IESL for the betterment of its members and the society.

With the active participation of the Engineers the office bearers for the chapter were selected for the session 2016/2017. The AGM ended with a raffle draw, dinner and fellowship. I congratulate all the new office bearers for a successful year ahead.

Contd. from page 6... IESL Qatar Chapter.....

The evening discussion session held on 4th September 2016, chaired by President Elect, EISL, was an inspirational and motivational evening for the members of IESLQ who are willing to acquire professional qualifications and to work more for the development of Engineering profession.

Eng. Jayavil Meegoda addressing the session, invited IESLQ members to work more closely with IESL by every means such as writing articles to SLEN, participation in IESL events and supporting the fellow Engineers to become Associate and Corporate Members of IESL.

At the discussion session a number of Engineer’s requested IESL to introduce professional development paths and procedures to become Corporate Members of IESL, for Sri Lankan Engineers working in Qatar. It was also suggested to have sections in IESL to group the emerging engineering disciplines such as Planning, Contract administration, QA/QC and project controlling.

President, advised IESL Qatar members to submit a comprehensive proposal to IESL parent body in this connection.

IESL Qatar admired the great support extended to SLSEQ and IESLQ, by late Eng. M.Chandrasekara and Eng. IESL Qatar Chapter.

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IESL Qatar Chapter....

The story of establishing the IESL Qatar chapter and conducting the B Paper examination in Doha has inspired all the Sri Lankan Engineers working in the Gulf Region. Several Engineers working in neighboring countries such as Bahrain, Oman and UAE have informed their interest to select Qatar as their B Paper examination center in year 2017. One Engineer from Oman traveled to Qatar to sit the September 2016 examination. The B paper examination was conducted in the time slot parallel to the same examination held in Sri Lanka.

Contd. from page 8.. Port City Visit....

Engineering project in Sri Lanka. This was combined with the Colombo Port Visit. The Chinese Harbor Engineering Corporation (CHEC) confirmed that this was the first official visit to the Port City Project and thanked the Women Engineers Forum for the initiative. The visit was hailed as a great experience by the participants for the on-the-ground insight it provided to them of one of the most talked about mega projects in the country. The Chair Person WEF Eng. Mangala Wickramanayake, to whom much of the credit for successfully organizing the visit belongs said that there will be another visit in May 2016 to the Port City due to the high demand.

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INAUGURAL MEETING OF THE YOUNG MEMBERS SECTION (YMS) 2016 / 2017 – A BOOMING START TO YMS ACTIVITIES

The inaugural Meeting of Young Members’ Section was held at ‘Wimalasurendra Auditorium’ – IESL on 27th November 2016 at 9.30 AM under the chairmanship of Eng. Dayan Herath. Eng. Jayavilal Meegoda, President of IESL, also graced the occasion as the advisor for YMS & he made a presentation on the topic “Engineer in the Society & IESL”.

The intent of the meeting was to improve the bond among the young members of IESL where around 80 members of different member categories such as Corporate, Associate and Student Membership took part in the event.

The function commenced with lighting of the oil lamp by the President – IESL, Chairman YMS, representatives from corporate member category, Student member category and two of the university academic staff members who were present. Then a presentation was conducted by Eng. Nishantha Kamaladasa on “Communication for Young Engineers”.

The inaugural meeting was continued after the lunch where the Chairman – YMS presented his plans for the session and the new office bearers for the session 2016/2017 were appointed. Student members presented their projects and requirements for YMS 2016/2017 session.

Meeting was concluded and finally a presentation on “Engineer in the Society & IESL” was conducted by the President – IESL to conclude the session.

JUNIOR INVENTOR OF THE YEAR (JIY) 2017 COMPETITION

CALL FOR APPLICATIONS

Pioneered by the Institution of Engineers, Sri Lanka in 1985, the Junior Inventor of the Year (JIY) competition promotes creativity and ingenuity among school children.

Children in the age group 12 to 19 years from schools all over Sri Lanka participate, initially in preliminary competitions held at the provincial level, and proceed to the final JIY competition held at the IESL Headquarters in Colombo.

The top ten inventions at this competition together with the ten finalists of the Science Research Project Competition of the NSF then compete at the Sri Lanka Science and Engineering Fair (SLSEF), held under the auspices of the Ministry of Education, and Sri Lanka branch of the Intel Corporation, USA.

Winners at the SLSEF have the opportunity to be selected to proceed to the Intel International Science and Engineering Fair (Intel ISEF) held in US in May of each year.

For Applications and Regulations visit our website on www.iesl.lk

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On Friday, 30 December 2016, the IESL Qatar Chapter successfully hosted its Annual Bowling Event at Qatar Bowling Centre, the first family event for year 2016/2017. A large number of Sri Lankan Engineers working in Qatar, Dubai and Oman along with their families took part in this event. The event commenced around 1700 hours Doha time with the adult and youth game and culminated with the giving away of awards to the best bowler, best team, youth players and kids. The key highlights of the event were some fantastic eight lane bowling game on display. The event was officially closed off with the Dinner.