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

Annual General Meeting

The Annual General Meeting for the Year 2010 was held on the 14th December 2010 at the Royal Ceylon Golf Club, Colombo 8. The AGM was well attended and the highlights of the meeting were :

- The launch of the ACESL Website, designed by Bluerock
- A presentation by Eng. K.Suntheralingam on 'Impact of Climate variations & Challenges for Consulting Engineers'
- The Keynote Address by Prof. Niranjana Gunawardena on Project Management

The Council elected for the year 2011 comprises:

President : Eng. Malith Mendis
Vice President : Eng. J Karunaratne
Hony. Secretary : Eng. S.T. Devarajan
Hony. Treasurer : Eng. R M Ananda Senarath
Hony. Editor : Eng. Russel De Zilwa
Council Member : Eng. Dr. P Mervyn Gunasekera
Council Member : Eng. D.P.T. Munasinghe
Council Member : Eng. H.P.R. Gunawardena
Council Member : Eng. S.A.U.D.C. Siriwardena
Council Member : Eng. Upali Delpachitra
Council Member : Eng. Nandana Abeysuriya

Council Meetings and Activities

The main items agreed on and discussed at the Council Meetings were the items of the Proposed Activity Programme for the year 2011. The highlights of this programme are:

- ACESL Website
- Membership Drive
- Newsletter
- A Journal for year 2011
- Annual Technical Sessions
- Arbitration/Adjudication/Mediation Processes
- Seminars & Public Lectures
- Corporate Plan (3/5 Years)
- Liaison with Professional and Government Organisations
- TDCPAP International Conference.

President's Message

With the advent of 2011 we have exciting times ahead for ACESL.

We have signed a MoU with the Consulting Engineers' Association of Thailand (CEAT) to cooperate with them on projects in either country. With Sri Lanka being included in the Neighbouring Countries Economic Development Aid (NEDA) programme of Thailand, we look forward to cooperation with CEAT. A delegation of ACESL made a Technical Visit to Thailand on CEAT's invitation and ACESL had the opportunity to meet delegates from Indonesia, Myanmar and Vietnam and also highlight investment and project opportunities in post-conflict Sri Lanka.

We are in the process of implementing the Corporate Plan as approved by the membership at the last AGM. As a first step we are in the process of researching the structure of Consulting Associations of other countries before we embark on reforms to ACESL that will enable ACESL to achieve its true influence and potential.

ACESL delegates will attend the TDCPAP 2011 conference in Kuala Lumpur in April and we hope to make two presentations at the conference. The TDCPAP 2012 conference will be hosted in Sri Lanka by ACESL and we hope to make the formal announcement at this year's conference. Your President will make the Country Presentation and Vice President Eng. J Karunaratne will make a presentation on Green Buildings in Sri Lanka at the Conference.

We look forward to the contribution and participation of all members in ACESL activities and goals.

Eng. Malith Mendis
President ACESL

ACESL host 2011 TDCPAP Conference

The ACESL in association with the with Technical Consultancy Development Programme for Asia & Pacific (TDCPAP) and FIDIC will host the 2012 International Conference from the 2nd to 4th March 2012 at the Cinnamon Grand Hotel, Colombo. The theme of the

conference is “Results Based Framework for Technology, Knowledge Transfer & Collaboration among Consultants”

It is a great honour for Sri Lanka to be selected as the host nation and there is a lot of work that has to be done to make this Conference a success. A special Committee, chaired by President Eng. Malith Mendis is in place to make all necessary arrangements.

The Chairman looks forward to the unstinted support of all ACESL members in making TDCPAP 2012 a memorable event.

Technical Visit to Thailand

On the invitation of the Consulting Engineer Association of Thailand (CEAT), an ACESL delegation comprising Eng. Malith Mendis, Eng. J Karunaratne, Eng. S.T. Devarajan, Eng. R M Ananda Senarath, Eng. H.P.R. Gunawardena and Eng. Russel De Zilwa participated in the Technical Visit and Engineering Business Matching programme organized by the Dept. of Export Promotion (DEP), Ministry of Commerce and CEAT. The programme was from the 2nd to 4th March 2011 and was in Bangkok.

The programme consisted of visits to six major projects which showcase the technical capabilities of the Thai engineering industry. The sites visited were:

- Site A – Bhumibol Bridges 1 & 2 and Khlong Lat Pho Diversion Channel
- Site B – Suvarnabhumi Airport
- Site C – Airport Rail Link
- Site D – Mass Rapid Transit Project
- Site E – Bang Sue Environmental Education and Conservation Centre Project
- Site F – PTT Group Energy Complex

Site A - Bhumibol Bridges 1 & 2

The Bhumibol Bridges cross the Chao Phraya River at two locations on the Industrial Ring Road. One of the main objectives for constructing these two bridges were to enhance the logistics and transportation of goods from Bangkok Port to the Industrial Zone, and complete the continuity of the outer ring road network around Bangkok. The two cable stayed bridges cost US\$ 291M and were opened for traffic in September 2006.

Bhumibol Bridge	No.1 (North)	No.2 (South)
Height of main pylons	158 m	168 m
Mid-river span	326 m	398 m
Length of restrained section	128 m	152 m
Number of cables	96	120
Length of longest cable	179 m	212 m
Height of middle of bridge from	53 m	58 m
Traffic lanes (3.6m per lane)	7	7



Site B – Suvarnabhumi Airport

Also known as the New Bangkok International Airport, the Suvarnabhumi Airport was commissioned in 2006. It handles both domestic and international flights and is the fifth busiest airport in Asia, having handled 40.5



million passengers in 2009. It has the world's tallest Control Tower (132 m) and the

world's third largest single-building airport terminal (563,000 m²). The airport is situated on a 32 km² (8,000 acre) plot and the construction was funded by the Govt. of Thailand (50%) and JBIC (50%). The airport has two parallel 60 m wide runways, 4,000m and 3,700 m long respectively. It has a total of 120 parking bays (51 with contact gates and 69 with remote gates), of which 5 can accommodate the Airbus 380. Suvarnabhumi Airport has the capacity to handle 76 flights hourly, and while both domestic and international flights will use the same terminal, they are assigned to different parts of the concourse.

Site C - Suvarnabhumi Airport Rail Link

The Suvarnabhumi Airport Rail Link is constructed from Suvarnabhumi International Airport to the City Air Terminal in Makkasan area of Bangkok. Construction of the line started in 2005 and the line was built by a consortium of B Grimm, STECON and Siemens, and is owned and operated by State Railway of Thailand (SRT). The cost of the project was 29 billion baht.



The Airport Link line will be 28.6 km long and elevated for most of its length. Both the non-stop Express services (known informally as the Blue Line) and Commuter

services (the Red Line) will be operated. Siemens Desiro trainsets, capable of speeds of up to 160 km/h, will be used, with the 25 km Express journey taking 15 minutes and 28 km Commuter trips not more than 30 mt. The City Air Terminal has facilities for passengers to check-in luggage and finalise flight arrangements before travelling to the airport.

Site D – Mass Rapid Transit Project

The Bangkok Mass Rapid Transit is Bangkok’s underground metro system and is constructed under a concession concept. The Mass Rapid Transit Authority of Thailand provided most of the civil infrastructure, which was then handed to the Bangkok Metro Company Ltd (BMCL), the private sector company successful in securing the 25 year concession agreement to operate the metro. The metro opened in July 2004 and as at date has a fleet of 19 three car trains, which were supplied and are maintained by Seimens, who are the M&E system supplier. The 21 km 18 station Blue Line has a carrying capacity of 40,000 people per hour in each direction. Bangkok also has an elevated rail system known as the Skytrain, with convenient interchanges to transfer from the Metro to the Skytrain. A further MRT line, the Purple Line serving 16 stations, is under construction and will be completed by 2019.

Site E – The Bang Sue Environmental Education and Conservation Centre Project

The project was initiated to prevent the discharge of untreated wastewater directly into adjacent water bodies, including the Chao Phraya River. The project consists of a central wastewater treatment plant and a collection system covering a 20.7 km² section of Bangkok and an effluent outfall. The population in the project area is projected at 251,000 in 2034 with the wastewater forecast being 114,342 m³/day, and hence the plant’s design capacity is 120,000 m³/day dry weather flow and 300,000 m³/day wet weather flow . The network of waste-water collection pipes is 33 km long with pipes diameters varying from 300mm to 1,800



mm. There are 214 combined sewer overflows and no lift station is required.

Wastewater Treatment process –

the organic substances in the wastewater contain BOD, nitrogen and phosphorous compounds. A Biological Nutrient Removal Process is used to allow nitrification to alternate with de-nitrification, followed by coagulation with ferric chloride to remove phosphorous compounds .Effluent Discharge System – comprises and effluent

ump station, a receiving pipe system and an effluent outfall, which discharges into a canal in the city.

Site F – PTT Group Energy Complex (EnCo)

The PTT Energy Complex was completed in late 2009 and was the 1st building in Thailand and SE Asia to receive the LEEDS Platinum Certification in the category Core & Shell Development version 2.0 from the U.S. Green Building Council. The aim was to emphasize the integration of service areas with energy saving, water efficiency and no adverse impacts on the environment.



The total constructed area is 300,000 m² and the building can support 8,000 people. Specific features are:

- Sustainable Site
 - Sustainable Site Development
 - Storm & Rainwater Management System
 - Alternative transportation facilities
 - Reduced Night Light pollution
 - Urban Heat Island Effect reduction
- Water Efficiency
 - Grey Water recovery, treatment and reuse
 - Rainwater Harvesting and recycling
- Energy and Atmosphere
 - Balanced use of Natural Lighting and Energy Saving approaches
- Materials & Resources
 - On-site waste recycling facility
 - Construction Waste management
 - Recyclable content of Construction Materials
- Indoor Environmental Air Quality
 - Indoor Air Monitoring
 - Minimum IAQ performances
 - Fresh Air delivery to occupied areas.

Business Matching Meetings –the first was held on the evening of the 2nd March where the Chief Guest was H.E. Kiat Sittheeamorn, President, Thailand Trade Representative. The event was well attended by members from CEAT and the Thai engineering industry. Brief presentations were made by the visiting associations, with Eng. Malith Mendis, President the ACESL presenting the Sri Lankan scenario, highlighting the scope for consultancy services in the country. The President of the Thai Government’s Neighbouring Countries Economic Development Cooperation Agency (NEDA) mentioned that Sri Lanka too will soon be included in the list of countries approved for funding by the Thai Government. This is very encouraging as with

this, the Thai Government will become a donor for development projects in Sri Lanka. This will open the doors for Thai consulting firms to enter the Sri Lankan arena, and in turn create opportunities for Sri Lankan consultancy firms to be joint venture partners or associates with their Thai counterparts. The formal session was followed by an excellent dinner, which also provided an opportunity for one-to-one meetings between the visitors and the local consultants and industrialist. The Closing Ceremony on 4th March was followed by another Business Meeting, where manufactures/ suppliers for the construction industry displayed their products, which were of high quality, and created an awareness of the range of materials and products available from Thailand.



TCDPAP Conference 2011

Following members will attend TCDPAP 2011 Conference held in Kuala Lumpur, Malaysia.

- Eng. Malith Mendis
- Eng. J Karunaratne
- Eng. S T Devarajan
- Eng. Dr. Mervyn Gunasekera

Eng. Malith Mendis- President presented the Country paper & Eng. J Karunaratne –Vice President presented a Paper on the theme “The Role of the Consultant & Investors in Promotion of Green Energy Generation & Green Building Construction in Sri Lanka”



The President had been successful on securing the TCDPAP 2012 Conference for Sri Lanka, though FIDIC had wanted to postpone the event.

ACESL Web Site

The long awaited ACESL Web Site was finally launched in June. The Web Site had been designed by the Ogives Group and members are requested to visit the Web Site www.acesl.org and send in their comments to the Secretary, Eng S.T. Devarajan, who can be contacted on stdevarajan@gmail.com

Corporate Plan

A committee comprising the following, was appointed to implement corporate plan.

- Eng. Tudor Munasinghe - Chairman
- Eng. Malith Mendis- Secretary
- Eng. Mervyn Gunasekera
- Eng. Russell de Zilwa.

The committee studied the rules of other FIDIC member associations such as

- Australia & new Zealand
- United Kingdom
- Malaysia & Singapore
- Thailand & India
- Bangladesh & Philippines

The study of the constitutions of Consulting Engineer associations was with special emphasis to:

- Associate membership for partially qualified engineers
- Admission of non engineers.