ICEC Roundup

March 2016

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International Cost Engineering Council

Level 3, 70 Pitt Street, Sydney NSW 2000 Australia

Tel: +61 2 8234 4000 secretariat@icoste.org
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Welcome, new members!!

What’s up for the next quarter? After taking a few months off from travel, and writing my first book (with coauthor Anthony Mills), I am now really looking forward to hopping on a plane again for Cost Engineering Day in Rio on 9-10 May, where Peter Smith and I will see the preparations for our 2016 World Congress.

I will present a paper at the PAQS conference in Christchurch and attend both the PAQS and ICEC Region 4 board meetings, followed by a side trip to Melbourne to do a roundtable for Human Systems International. I am also excited to give a presentation at the AACE International Annual Meeting in Toronto, on Recommended Practice 77R-15 (Risk QA/QC), which I authored this year with John Hollmann & David Brady.

The calendar for ICEC regional meetings is as follows: Region 1 will be held at the World Congress in Rio in October, the Region 2 meeting is being held in Como, Italy on 7 May, Region 3 is anticipating a meeting in Tanzania in August, and Region 4 will be held at the PAQS conference in Christchurch in May.

On the 2014-2016 action plan, I am happy to see a convergence of enthusiasm regarding social media. We have an ICEC page on LinkedIn, created by Gianluca di Castri – come join the discussions!! In addition, several of our board and committee members are working together to look at opportunities to improve the website, twitter communication, and other social media to increase ICEC’s visibility and attract both new member institutions and young professionals.

The baseline Body of Knowledge is nearly completed, and we have begun mapping our BoK to that of IPMA, which we hope will create new opportunities for the two associations to serve the profession.

Only seven months until our conference in Rio!! Don’t forget to get a visa, if you need one to travel to Brazil.

Registration is now open, please visit the website at www.icec2016.com.
Region Directors
Region 1 – Angelo do Valle (Brazil)
Region 2 – Gianluca di Castri (Italy)
Region 3 – Robert Pearl (South Africa)
Region 4 – Teo Wooi Sin (Singapore)

Region Deputy Directors
External Relations
Region 1 - Mandhu Pillai (Saudi Arabia)
Region 2 – Alec Ray (United Kingdom)
Region 3 – Femi Onashile (Nigeria)
Region 4 – HH Kwan (Malaysia)

Marketing
Region 1 - Julie Owen (USA)
Region 2 – Peter Schwanental (UK)
Region 3 - K. Obeng Ayirebi (Ghana)
Region 4 – Eugene Seah (Singapore)

Standards/Professional Development
Region 1 - Aldo Mattos (Brazil)
Region 2 – TBC
Region 3 - Dr Charles Mbelede (Nigeria)
Region 4 – Andrew Harfield (Australia)

Academic Forums/Research
Region 1 - Matthew J. Nicholas (Canada)
Region 2 – Janne Skovgaard (Denmark)
Region 3 - Njeri Wachira Towey (Kenya)
Region 4 – Dr. Paul Ho (Hong Kong)

Region Assistant Secretaries
Region 1 – Madhu Pillai (USA)
Region 2 – Martine Miny (France)
Region 3 – Egon Wortman (South Africa)
Region 4 – HH Kwan (Malaysia)

Advisory Board & Ambassadors
Roger Batten – Chair (United Kingdom)
Murtala Oladapo (Nigeria)
Peter Cox (Australia)
Basie Verster (South Africa)
Dennis Lenard (Australia)
Allen Hamilton (United States)
Christopher Walker (United States)
Ong See Lian (Malaysia)
Adesh Jain (India)
Carsten Wredstrom (Denmark)
Ginette Basak (Canada)
Welcome to the March 2016 ICEC International Roundup Newsletter. This newsletter is published twice a year (usually in March and October). I would like to encourage all member associations and their individual members to contribute articles and other relevant information for each newsletter. It provides a good opportunity to promote congresses, seminars, forums, projects and other activities of your association.

ICEC Secretariat News

ICEC has a new ICEC Administrative Manager – Sally Osborne.

The Australian Institute of Quantity Surveyors (AIQS) has hosted the general ICEC Secretariat since 2004. Sally is an employee of the AIQS and is based in the AIQS headquarters in Sydney. There has been a number of changes to the administration manager position in the past year but we are confident that Sally will carry out her role very well. She has taken on the role with great enthusiasm and a very proactive approach which is pleasing to see. Sally will be using the same email address (secretariat@icoste.org).

New ICEC Members from Honduras & The Philippines

By Dr. Peter Smith

We are pleased to announce that ICEC recently accepted two new members (effective as at 15 February 2016).

They are the Honduran Civil Engineers Association (CICH) and the Philippine Institute of Certified Quantity Surveyors (PICQS). The PICQS also recently had their certification program accredited by the ICEC Accreditation Committee. We welcome both associations to the ICEC membership and look forward to long term collaboration.

10th ICEC World Congress 2016 – Rio De Janeiro, Brazil

The Brazilian Institute of Cost Engineering (IBEC) continue their excellent preparations for the 10th ICEC World Congress in 2016. The event will be held from 8-12 October 2016 at the Windsor Hotel in Copacabana, Rio de Janeiro.

The deadline for paper abstract submissions has been extended to 25 April 2016. We encourage you all to consider submitting a paper for the congress. Further details can be found on the congress website at: www.icec2016.com

On behalf of IBEC and ICEC I would like to encourage you all to attend this global congress. It would be greatly appreciated if you could also forward details of the Congress (including the Congress website) to all of the individual members of your association and any other colleagues, associations or other parties that may be interested in the event.
National Brazil Cost Engineering Day & Meetings: 9–10 May 2016 – Rio De Janeiro, Brazil

The National Brazil Cost Engineering Day & Meetings being held on 9-10 May in Rio de Janeiro Brazil will be an important part of the build up to the World Congress in October.

IBEC was instrumental in having the annual national Cost Engineer Day formally recognised and approved by the Brazilian Government through legislation (State Law No. 4.905 established in November 9, 2006). The day has been celebrated since May 2007, the first national Cost Engineer Day. This Law aims to reward the highlights of the cost engineering profession and professionals that have contributed to the development of the profession both through the Americas and worldwide.

This year, the Cost Engineer Day will be held on 10 May 2016 at the Clube de Engenharia (Av. Rio Branco, 124, Rio de Janeiro), beginning at 7 pm.

IBEC will also be hosting the ICEC Region 1 Meeting and an International Meeting, that will be held on 9 May 2016 at the IBEC head office. This international meeting will comprise cost engineering professionals from around the Americas and beyond to discuss the development of the profession both in the region and worldwide.

IBEC and ICEC would like to invite all ICEC member associations and their members as well as any other interested parties to the 2 day event. If you are interested in attending please contact Andala Iara at IBEC (email: imprensa@ibec.org.br)

2016 ICEC Council Meeting – Rio De Janeiro, Brazil: 8–9 October 2016

The 2016 ICEC Council Meeting will precede the 10th ICEC World Congress on Saturday 8 and Sunday 9 October at the Congress venue in Rio de Janeiro, Brazil.

The time frame for this 2 day meeting is currently scheduled for 9am-5pm (Saturday) and 9am-1pm (Sunday). The meeting on the Sunday can be extended through the afternoon if needed. There will also be a range of other meetings held during the Congress with various smaller groups meeting to discuss specific items. Further information will be provided closer to the Congress.

It is very important that all ICEC members be represented at the ICEC Council meeting. The full Council meets only once every two years and it is at this meeting that major decisions are made for the next two year period and beyond. Requests for items to be included in the Meeting Agenda should be emailed to the ICEC secretariat and myself (secretariat@icoste.org & peter.smith@uts.edu.au) by 1 August 2016.

The agenda for the meeting will include written reports from member associations. It would be greatly appreciated if member associations could email their reports to the ICEC Secretariat and me by 1 September 2014 so that they can be included in the formal Agenda Book.

2016 Ken Humphreys Young Student/Practitioner Paper Award

Submissions for the 2016 Kenneth K. Humphreys Young Student/Practitioner Paper Award competition are now open. The winners will be announced at the ICEC World Congress in Rio de Janeiro, Brazil. Details about the award can be found on the the ICEC website at: www.icoste.org/category/awards/

The award was established in 2006 in recognition of Dr. Humphreys’ service as ICEC Secretary-General from 1976 until 2006. The award is open to students or young practitioners under 36 years of age and involves the submission of papers through ICEC member associations. The award program is held every 2 years in conjunction with the biennial ICEC World
Congress and the awards are presented at these Congresses. The first awards were made at the 2008 ICEC World Congress in Toronto, Canada. The paper awards are available in each of the three professional categories which make up the membership of the International Cost Engineering Council (Cost Engineering, Quantity Surveying and Project Management). Therefore up to 3 awards are available (one for each of these categories).

Papers must be submitted to the relevant ICEC member association for review in the first instance. ICEC member associations may alternatively select papers they consider worthy of nomination for the award. The ICEC member association will then determine whether the paper/s submitted are suitable for submission for the award. The paper/s must then be submitted to the ICEC Secretariat by the ICEC member association. Please note that individuals cannot submit papers directly to the ICEC Secretariat – all papers must be submitted to the relevant member association in the first instance. Please note that the papers can either be new papers or papers that have been previously published in industry/academic journals or other publications (with appropriate approval from the relevant publisher).

The following dates/deadlines apply for the 2016 award program.

1 April 2016 – Opening date for submission of entries to each member association
1 August 2016 – Closing date for submission of entries to each member association
1 September 2016 – Closing date for member associations to submit their selected paper/s to the ICEC Secretariat

2016 ICEC Distinguished International Fellow (DIF) Awards

Nominations for the 2016 award of Distinguished International Fellow (DIF) are also now open. The DIF awards are conferred at each biennial ICEC World Congress so the 2016 awards will be conferred at this year's event in Rio de Janeiro, Brazil. Further details about the award including past award recipients can be found at: www.icoste.org/category/awards/.

The award recognizes individuals who have made significant contributions to ICEC and to the association or institute of which they are a member for a period of years. The recipients must be nominated to receive the award by an ICEC member association or institute. They must:

- Have held a significant volunteer position in both ICEC and a member association or institute;
- Have had significant involvement over a period of several years in both ICEC and a member association or institute; and
- Must have made a significant contribution to the development of the cost management profession.

The deadline for the nominations for the 2016 DIF Award is 1 September 2016.

2016 ICEC Region Meetings

ICEC holds annual regional meetings in each of the four ICEC regions. The ICEC region meetings scheduled to be held during 2016 are as follows:

Region 1 – North & South America
The Region 1 meeting will be held on 9 May 2016 in conjunction with the Brazil National Cost Engineering Day events in Rio de Janeiro, Brazil being held from 9-10 May 2016.

Region 2 – Europe & Near East
The Region 2 meeting will be held in Milan, Italy on 6-7 May 2016. It will hosted by the Italian Association for Total Cost Management (AICE). The actual Region 2 meeting will be held on Saturday 7 May 2016 at Como, Università dell’Insubria, Law Dept., Via S. Abbondio, 12 - 22100 Como. This will be preceded by a special seminar on Friday 6 May being held by the AICE.

Region 3 – Africa
The Region 3 meeting will be held in conjunction with the AAQS council meeting and associated congress hosted by the Tanzania Institute of Quantity Surveyors in Tanzania in August 2016 (actual dates to be confirmed).

Region 4 – Asia Pacific
The Region 4 meeting will be held on 21 May 2016 in conjunction with the 20th Pacific Association of Quantity Surveyors (PAQS) Congress and PAQS Annual Board Meeting being held from 20-24 May 2016 in Christchurch, New Zealand.
International Construction Measurement Standards (ICMS)

ICEC continues to support a range of global initiatives being undertaken to help develop the project cost management profession on a global scale. The main current initiative is the development of an International Construction Measurement Standard (ICMS). There has been a Community website set up for the ICMS. This can be accessed at:

https://communities.rics.org/connect.ti/icmscoalition/view?objectId=14279365

38 associations have now joined the ICMS coalition and voting recently took place to select the ICMS Trustees and the ICMS Standards Setting Committee

ICEC Accreditation of Member Certification & Continuing Professional Development (CPD) Programs

ICEC recently accredited the Certification Program developed by the Philippine Institute of Certified Quantity Surveyors (PICQS).

ICEC would like to encourage member associations to consider applying for ICEC accreditation of their certification and/ or continuing professional development programs (CPD). ICEC Accreditation provides international recognition for the qualification and professionals qualified under these accredited programs are entitled to use the ICEC name and logo and the post-nominals ICECA to designate their achievement.

Further details can be found on the ICEC website at: http://www.icoste.org/accred.htm
By Paulo Dias, Region 1 Director

As the ICEC Region 1 Director, I am extremely exultant with the recent approval of the Honduran Civil Engineers Association (CICH) as a full member of ICEC. It represents an important triumph of our efforts in favor of the dissemination of the science of costs throughout Americas. Since 2013, when the IBEC held an event in Honduras, we have been promoting the Cost Engineering and the ICEC around Americas. Also, we are investing in a website that contains legislation, basic data, historic and other important documents about Cost Engineering in Portuguese and Spanish.

Argentina signed a cooperation agreement with IBEC. Besides, during the International Congress of Civil Engineering held in Madrid (Spain), on March 2016, IBEC signed agreement with the Order of Engineers of Cape Verde. Very soon we will present the ICEC membership of these countries.

Nevertheless, we do not stop there. In April, as part of our efforts to promote the 10th ICEC World Congress 2016, we will hold a seminar in Bolivia, Colombia, and a conference at the XI Scientific and Technical Conference of Construction in Havana (Cuba). Thereby, we hope to reach more professionals interested in participate in the ICEC World Congress.

In addition to that, I want to invite you to the Cost Engineer Day 2016 and 38 years of IBEC. An event that brings together representatives from several countries and that will count on the illustrious presence of the ICEC Chairwoman, Alexia Nalewaik, of the ICEC Tech Vice Chair, Angelo Valle, and of the ICEC Secretary-General, Peter Smith.

This year, the Cost Engineer Day will be held announcing the 10th ICEC World Congress that will take place at the Windsor Hotel Barra in Rio de Janeiro (Brazil), from 09 to 12 October 2016. The ceremony and cocktail will be on the evening of May 10 and, as part of the celebration, the IBEC will hold the International Meeting on the afternoon of May 09. This meeting is a gathering of professionals from the country and abroad to discuss the scenario of the worldwide Cost Engineering. We wait your notorious presence.

Also, I want to remind you that we are receiving abstracts of the professionals who want to present a paper during the Congress. Besides, the Registration to the event is already open.

Please, access the website www.icec2016.com and learn more about the 10th ICEC World Congress 2016!

We are looking forward to meet you in Rio de Janeiro!
10th ICEC 2016
Cost Engineering, Quantity Surveying & Project Management
World Congress

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Royal Institution of Chartered Surveyors

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CALL FOR PAPERS
Send your Abstract
REGISTRATION OPEN!
October 09-12, 2016
Rio de Janeiro - Brazil
IBEC - BRAZILIAN COST ENGINEERING INSTITUTE

invites

FOR COST ENGINEER DAY 2016
AND 38-YEAR ANNIVERSARY

DATE: MAY 10
TIME: 7 P.M.
PLACE: CLUBE DE ENGENHARIA

Address: Av Rio Branco, 124, 25th floor.
Centro - Rio de Janeiro - RJ

Please confirm your attendance until April 25
through the email
ibec2016@ibec.org.br

RSVP

THE INTERNATIONAL MEETING WILL BE HELD
ON MAY 9,
1 P.M. - 6 P.M.

For more information and to confirm attendance, please send
email to
imprensa@ibec.org.br

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ICEC
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10º ICEC 2016
Cost Engineering, Quantity Surveying & Project Management World Congress
Rio de Janeiro
9 – 12 October
www.icec2016.com

Certificador
Delivering Smart Cities

Key insights and resources recorded at a Project Controls Network seminar in January 2016.

From its position on the Victoria Embankment, the IET’s newly refurbished Savoy Place looks out across the Thames skyline with its landmark buildings and buzzing river, road and rail networks. How apt that one of the first Technical and Professional Network events to take place inside the state-of-the-art venue should explore the subject of ‘Delivering Smart Cities’.

“The rapid growth of urbanisation continues to make this a hot topic for engineers,” said Chairperson Mikele Brack, Founder and CEO of City Impact Challenge, opening the panel discussion in front of more than 76 IET delegates. “Already more than half the global population lives in cities. By 2050, that will be 70%”. (Unicef)

Brack outlined the increasingly urgent demand for expanding cities to adopt innovative transport, energy and building technologies, not only to accommodate higher urban populations but also to make cities more enjoyable and manage resources sustainably.

Panellist Dan Byles, Chairman of Smarter UK followed up with equally stark statistics: “We’re actually at crisis point. By 2025 we'll have laid down new urban floor space equivalent to the size of Australia. In London alone, the population is growing by one full tube train every three days.”

Disruptive technologies
In his presentation, Byles spoke of the need for disruptive technologies to drive smart city development. Transport for London’s new contactless payment technology recently ‘disrupted’ its own Oyster Card system, which had been in place for only a few years.

Citing another example of disruption in the field of transport – Uber – he predicted the end of private vehicle ownership in London by 2050 and looked ahead to the positive impact on congestion, freeing up a huge proportion of the city's floor space currently dedicated to parking.

“Smart cities will be those that can break out of process thinking and consider outcomes instead,” said Byles. “For example, we commuters will buy a ‘journey’ not a train ticket. A smart city transport system will decide how we can best make that journey, by bus, boat, train or taxi, depending on efficiency, availability, air quality and a whole host of other factors.”
**Systems thinking**
Echoing the need for outcome-driven design, Helen Pineo, Associate Director at BRE, urged building designers and engineers to adopt ‘whole system’ thinking that understands human behaviour.

“People living in smart homes should not have to understand how the heating, cooling and ventilation systems around them work. We need technologies that respond to our behaviour rather than a system that requires us to understand the most efficient way to keep our home comfortable.”

So-called ‘smart’ energy meters in our homes are in fact not quite smart enough: “Smart energy meters alone have not had the desired impact of reducing our energy consumption and behaviours on a large scale,” says Pineo. “They give us fairly limited feedback on our home energy usage. We need to consider what other meaningful interventions we can make in this system – including behaviour change or new technologies – to achieve the outcomes we actually want in the smart home in the smart city.”

**Collaboration and connectedness**
For cities to function well and provide the positive experience that attracts people to them, tech innovation needs to be embedded early – at the planning or ‘place-making’ stage. Victoria Hills presented Old Oak & Park Royal Development, London’s largest regeneration project.

The northwest London brownfield site is set to become the UK’s most connected business and transport ‘superhub’ including 25,000 new homes within 10 years. “We’re embedding smart from the start with Old Oak,” says CEO, Hills, alluding to greater collaboration between government and private sector firms and consortia such as HyperCat.

Complex multi-stakeholder urban development projects, like Old Oak, like the Olympic Village, can only become smart if traditionally separate silos to take a more collaborative approach and budget lines are viewed from above. Investment in one area such as emissions reduction will show its return in health and wellbeing. “To truly deliver smart cities, planning leadership needs to sit above those separate budget lines,” concluded Dan Byles.

**Further resources on Smart Cities**
If you are interested in learning more about smart and future cities, please try these IET presentations, insights and case studies online:

- Digital Technology Adoption in the Smart Built Environment - [www.theiet.org/dig-tech](http://www.theiet.org/dig-tech)
- Future intelligent cities - [www.theiet.org/fic](http://www.theiet.org/fic)
- Autonomous vehicles - [www.theiet.org/AV](http://www.theiet.org/AV)

If you are interested in getting involved in the IET’s thought leadership work on Future Cities, please contact [thought-leadership@theiet.org](mailto:thought-leadership@theiet.org)
The New Zealand Institute of Quantity Surveyors (NZIQS) is looking forward to welcoming their international colleagues to New Zealand for the upcoming PAQS 2016 Congress in Christchurch in May 2016.

A challenging line up of speakers and conference topics are planned as well as a variety of fun social events, including golf at the spectacular Clearwater Golf Club.

For more information and to register go to www.paqs2016.com.

**Programme of Events**

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<thead>
<tr>
<th>Date</th>
<th>Events</th>
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<td>– PAQS Committee meetings at Novotel Christchurch Hotel</td>
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<td></td>
<td>– Young QS programme</td>
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<tr>
<td>21 May 2016</td>
<td>– PAQS Board meeting at Novotel Christchurch Hotel</td>
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<tr>
<td></td>
<td>– Young QS programme</td>
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<tr>
<td>22 May 2016</td>
<td>– Golf at Clearwater Golf Club</td>
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<td></td>
<td>– Pre conference tour &quot;Discover Christchurch&quot;</td>
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<tr>
<td></td>
<td>– Welcome function at Hagley Cricket Oval</td>
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<tr>
<td>23 May 2016</td>
<td>– Congress day one at Air Force Museum of New Zealand</td>
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<td></td>
<td>– Technical tour</td>
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<tr>
<td>24 May 2016</td>
<td>– Congress day two at Air Force Museum of New Zealand</td>
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<tr>
<td></td>
<td>– Technical tour</td>
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<td></td>
<td>– Gala dinner at Aircraft Hall, Air Force Museum of New Zealand</td>
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Our partner programme includes optional shopping opportunities and a visit to the beautiful harbour settlement of Akaroa. Partners can attend the Welcome function and Gala dinner as part of their registration.

**Congress Theme - ‘Building for the Future a Global Dilemma’**

Events like the Christchurch Earthquake in 2011 and the increase in extreme global weather events, is driving the construction industry to rethink the way buildings are constructed as well as the need to reduce the cost escalations and construction timeframes. This conference will explore new and innovative building construction structures and techniques being used not only in Christchurch, but worldwide.
The 21st annual PAQS Congress will be hosted by the Canadian Institute of Quantity Surveyors (CIQS).

Philippine Institute of Certified Quantity Surveyors (PICQS), Inc. is an all-Filipino organization with a vision not only to promote Quantity Surveying as a profession in the Philippines but also to empower Filipino Quantity Surveyors across the globe. It started from the heart of the Founder, Julie Christie M. de la Cruz, to help QS-trained Filipinos achieve a chartered status with internationally recognized QS professional organizations. Currently with 1,125 Members across Chapters in the Philippines, Singapore, North America, KSA, Bahrain, Qatar, UAE, Oman, Australia, New Zealand, and UK, the organization continues to expand in quantity and in quality. PICQS is an organization with strong relations with other international Quantity Surveying organizations like the PAQS, ICMS, ICEC, RICS, AIQS and NZIQS. PICQS is also in collaboration with a private Institute to launch the first Quantity Surveying school in the Philippines. For more information, visit picqs.org

The Honduras Civil Engineers Association (CICH) started as a Honduran Society of Civil Engineers that agreed with the Honduran Society of Architects to form the first Congress of Architects and Engineers of Honduras in August 1951. There, they agreed to organize local societies of engineers and architects in places that gather these essential professionals and request the Executive Power to emanate the necessary studies and rulebooks to create the Engineers and Architects Association. The Honduran Society of Civil Engineers committed to develop the first laws and regulations for the Professional Association to be evaluated by the next Congress of Engineers and Architects. In 1962 the Honduran National Congress issued Decree No. 73 that created the “PROFESSIONAL MANDATORY LICENSING LAW”. Law from which all existing professional associations originate. On August 16, 1964 the Civil Engineers Association of Honduras (CICH) was founded, standing out as a non-profit organization responsible for regulating and protecting the practice of Engineering in Honduras. The Association’s first president was Jose Dalmiro Caballero.

The Association of Cost Engineers Honduras (AICH) is a trade engineers group that belongs to CICH, commencing in July 2013. The AICH was established during a visit from Mr. Paulo Vilela Diaz, Mr. José Chacon and others representatives from the Brazilian Institute of Cost Engineering (IBEC), who presented at the Tegucigalpa and San Pedro Sula Expo Construction 2013.

In April 2015, the CICH requested membership to the International Cost Engineering Council (ICEC). We also commit to contribute with other Central American Area Engineers so they can participate and enjoy the professional benefits that will be offered at the 10th World Congress ICEC in Rio de Janeiro, Brazil 2016.

Visit our web site: http://cichorg.org

Welcome to our newest members

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Visit our web site: http://cichorg.org

Welcome to our newest members

Philippine Institute of Certified Quantity Surveyors (PICQS), Inc. is an all-Filipino organization with a vision not only to promote Quantity Surveying as a profession in the Philippines but also to empower Filipino Quantity Surveyors across the globe. It started from the heart of the Founder, Julie Christie M. de la Cruz, to help QS-trained Filipinos achieve a chartered status with internationally recognized QS professional organizations. Currently with 1,125 Members across Chapters in the Philippines, Singapore, North America, KSA, Bahrain, Qatar, UAE, Oman, Australia, New Zealand, and UK, the organization continues to expand in quantity and in quality. PICQS is an organization with strong relations with other international Quantity Surveying organizations like the PAQS, ICMS, ICEC, RICS, AIQS and NZIQS. PICQS is also in collaboration with a private Institute to launch the first Quantity Surveying school in the Philippines. For more information, visit picqs.org

The Honduras Civil Engineers Association (CICH) started as a Honduran Society of Civil Engineers that agreed with the Honduran Society of Architects to form the first Congress of Architects and Engineers of Honduras in August 1951. There, they agreed to organize local societies of engineers and architects in places that gather these essential professionals and request the Executive Power to emanate the necessary studies and rulebooks to create the Engineers and Architects Association. The Honduran Society of Civil Engineers committed to develop the first laws and regulations for the Professional Association to be evaluated by the next Congress of Engineers and Architects. In 1962 the Honduran National Congress issued Decree No. 73 that created the “PROFESSIONAL MANDATORY LICENSING LAW”. Law from which all existing professional associations originate. On August 16, 1964 the Civil Engineers Association of Honduras (CICH) was founded, standing out as a non-profit organization responsible for regulating and protecting the practice of Engineering in Honduras. The Association’s first president was Jose Dalmiro Caballero.

The Association of Cost Engineers Honduras (AICH) is a trade engineers group that belongs to CICH, commencing in July 2013. The AICH was established during a visit from Mr. Paulo Vilela Diaz, Mr. José Chacon and others representatives from the Brazilian Institute of Cost Engineering (IBEC), who presented at the Tegucigalpa and San Pedro Sula Expo Construction 2013.

In April 2015, the CICH requested membership to the International Cost Engineering Council (ICEC). We also commit to contribute with other Central American Area Engineers so they can participate and enjoy the professional benefits that will be offered at the 10th World Congress ICEC in Rio de Janeiro, Brazil 2016.

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SAVE THE DATE:

PMA FOCUS
OCTOBER 6TH, 2016 IN VIENNA, AUSTRIA

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Total Cost Management (TCM), is the framework for whole of life project and asset cost control from inception to disposal and remediation. This TCM framework is a development, of the prolific AACE international over the last four years, and encompasses the many practice guides and practical knowledge developed and enhanced by its now 9000 members worldwide over the last 60 years of specialised cost engineering practice, including certification of cost engineers since the 1970’s.

Over 2016, the technical program of the Australian Cost Engineering Society (ACES) and AACE International in Australia is focused on leveraging and uncovering this massive opportunity that the TCM framework represents. For ongoing events see the Engineers Australia web site under technical societies, Australian Cost Engineering Society (ACES), ACES events 2016.

The ACES program began in February with a visit to Australia by the current AACEI President, Julie Owen and seminars in Brisbane, Sydney, Melbourne and Perth presented by international speaker and cost engineer, Martin van Vliet from the Netherlands based, ‘Cost Engineering Consultancy’. The AACE Australian section was first established in 1974. It is the second largest AACE International section outside the USA. It holds meetings in Sydney, Melbourne, Brisbane and Perth.

Our first event for 2016 was held in February at Engineers Australia’s office in Sydney and was attended by 77 professionals from client, contractor and education organisations including Liang O-Rourke, John Holland Group, Transport for New South Wales, City of Sydney and the University of Technology Sydney. Following a few cocktails and networking the meeting proceeded with Laurie Bowman CCP PSP EVP DRMP, chair for the Sydney Division of the Australian Cost Engineering Society, welcoming the attendees, thanking them for their support and providing an overview of the Australian section’s strategy and program of events for 2016. The theme for 2016 events in Australia will be Total Cost Management and will include a suite of seminars, networking events and opportunities for certification preparation training throughout the year. Early plans are also underway for a project controls conference in Sydney in March 2017 similar to the annual Project Controls Expo in London – details to be confirmed in the near future.

Julie Owen CCP PSP AACE President then took the stage and provided an overview of AACE International’s current focus including:

• Maintaining a clear vision, mission and strategy for organisation
• Continuing the high growth levels already being achieved outside the US
• Enhancing the member experience by improving access to online technical content for its members.
• Modularisation of learning modules for certification preparation courses
• Engaging with the next generation of young professionals.
• Improving marketing
• Supporting some of the big corporations who are adapting AACE International’s TCM as part of their organisation’s Cost Management policies and processes.
Julie then delivered a terrific presentation on Implementing a PMO for LA Metro (USD$36B) that was full of great tips for anyone interested in delivering complex public infrastructure program successfully. Her presentation was very timely for the Sydney cost engineering community as Sydney is currently experiencing a large surge in road and rail infrastructure projects. Road and rail projects are expected to grow in 2016 and beyond as a result of Federal and State Government plans to commence a number of major transport projects as shown in figure 1.

The growth in major public infrastructure projects is particularly concentrated in Sydney and, as a result, Sydney has an enthusiastic and growing cost engineering community. Julie’s presentation drew the largest audience we have seen at an AACE International meeting in Sydney for over 10 years. Following the presentation Julie spent time mingling and dining with attendees and members. It was a great night for all involved.

The next day, AACE President Julie Owen, CCP PSP visited the Perth office of Engineers Australia (a comparable distance LA to NY). Julie’s presentation was well received in Perth as well and helped re-invigorate interest in professional cost engineering certifications. Julie also took time out to visit the local Public Transport Authority.

Figure 1 – Forecast growth in Australian Transport Infrastructure Projects over AUD$1B

Figure 2 - Julie Owen, CCP PSP with Laurie Bowman, CCP PSP EVP DRMP and AACE members in Sydney

Figure 3 - Julie Owen, CCP, PSP AACE President presenting to Perth AACE/ACES members and guests
The following day Julie attended a breakfast and half day workshop delivered by Martin Van Vliet from Cost Engineering titled: “Introduction to AACE International’s Total Cost Management and Comprehensive Tooling”.

These introductory workshops are the first phase of our 2016 TCM program and are a key element of our strategy to increase the recognition of AACE International in Australia and create a pathway for development of professional competencies for cost engineers. The February introductory sessions have also been held in Melbourne, Sydney and Brisbane.

The AACE Australian section greatly appreciates the time, effort and support of Martin Van Vliet from Cost Engineering and Julie Owen, CCP PSP AACE President for the AACE Australian section.

For more information about the Australian section, kindly visit www.costengineer.org.au or email abowden@alphalink.com.au
This 31st edition of the DACE Price Booklet offers invaluable guidance while preparing and comparing cost estimates. The booklet and website provide (online) cost information for almost any part of industrial process facilities. Specific and detailed information is available for various disciplines, such as process, piping, mechanical, electrical, instrumentation, structural and civil engineering. Composite unit rates are given for surface area of production, warehouse, office and laboratory facilities.

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About DACE
DACE is a network of Dutch Cost and Value Engineers. You can now benefit from their expert knowledge. We will share with you independent normalized cost data to be used as guidance for reliable cost estimates that will help you to evaluate projects and enables you to consider alternatives.
The EduTech Training Centre was officially opened on October 1 at its operational base, the ASAQS head offices in Thornhill Office Park in Midrand.

Speaking at the function, Larry Feinberg, ASAQS Executive Director, who spearheaded the drive for the establishment of the new facility, said the opening of the training centre would play a vital role in boosting education within the QS profession. “ASAQS is passionate about education and is striving to ensure that all the educational needs of the profession are being met - from enrolment at university, through the candidacy phase of their careers, to meeting the educational needs of our professionally registered quantity surveyors. The new EduTech Training Centre will, under one roof, cater for all these needs.”

Feinberg said finding suitable venues for QS training had in the past proved increasingly difficult. “ASAQS’ educational arm, Edutech, had to resort to using boardrooms for smaller groups, or hiring larger outside venues when necessary. The new EduTech Training Centre will be able to accommodate 30 students per course - double our previous capacity - in fully-equipped bespoke facilities. We also intend establishing a special Information Resource Centre at the Training Centre, with reference material and publications to further help both established and future Quantity Surveyors with studies or research work.”

Bert van den Heever, president of ASAQS, said the opening of the new EduTech Training Centre was a milestone in the history of ASAQS - and the entire Quantity Surveying profession in South Africa.

“EduTech plays a vital role in establishing and maintaining professionalism in the industry. As a business unit within ASAQS, EduTech not only develops essential intellectual property for its members but also provides a platform to disseminate this intellectual wealth and provide technical support to ASAQS members. All Quantity Surveyors in South Africa should acknowledge the efforts of Larry Feinberg, ASAQS executive director, for recognising the opportunity to establish our own Training Centre; and to Karl Trusler, and his EduTech team, who will no doubt expand and refine the EduTech services even further now equipped with a dedicated Training Centre,” van den Heever stated.

Karl Trusler, Director of EduTech, which provides both educational and technical support to ASAQS members, says one of the major priorities of EduTech is to provide training to existing ASAQS members to enable them to earn mandatory Continuing Professional Development (CPD) points laid down by the SA Council for the Quantity Surveying Profession (SACQSP), which has for many years used ASAQS as its agent to train QS professionals to earn these essential CPD points.
A total of 125 CPD training hours has to be earned over a period of five years, as prescribed by SACQSP, to enable quantity surveyors - who may practice for about 40 years in a fast changing environment - keep abreast of modern QS practice and technology," Trusler commented.

"Secondly, QS students after graduation are obliged to work as candidates under a mentor for three or four years, depending on the degrees they hold, in terms of the SACQSP Assessment of Professional Competence (APC) programme. This assessment system, in addition to workplace training, also calls for extensive after-hours training via on-line supplementary skills education modules. The APC training incorporates up to 18 Skills Education Modules, as well as numerous examinations, which EduTech will present on behalf of the SACQSP in the Training Centre," he explained.

As there was mounting concern about the varying standards of QS-relevant training provided by other training providers - and no controlling body to monitor standards - EduTech would introduce 'training-for-trainers' courses, and also supply tuition on mentoring for companies or QS professionals employing students as part of the Assessment of Professional Competence programme.

The EduTech Training Centre would serve mainly Gauteng students and EduTech would continue to provide training in selected venues in other centres of South Africa as in the past when required.
The Association of South African Quantity Surveyors (ASAQS) has launched the seventh edition of its Standard System of Measuring Building Work, an invaluable source of reference - particularly for tender documents - for both the Quantity Surveying as well as building professions.

The latest edition of what many in the construction sector call 'The QS Bible', was launched at a special function at the ASAQS head office in Midrand by Dr Corné de Leeuw, former president of ASAQS, and for decades the driving force in the delivery of standardised ASAQS documentation.

The Standard System contains rules about how the labour and materials required to erect a structure should be reflected and clearly defined in Bills of Quantities. Contractors base their tenders and quotations on such Bills of Quantities, so the Standard System is regarded as an indispensable tool in the industry - and has been for many years.

Dr de Leeuw told the guests that the launch of the latest Standard System was a milestone event for the entire African continent as it would soon be followed by the publication of the "Standard Method of Measuring Building Work in Africa" - a very similar source of reference but to be published and distributed by the Africa Association of Quantity Surveyors (AAQS).

"Although many countries in Africa have their own standard systems, they will now, when using ASAQS' latest Standard System, for the first time be able to employ Model Bill of Quantities with items aligned to their own standard systems. This standardisation will make it easier for quantity surveyors to relocate and work within various countries in Africa, and will also simplify the operations of SA-based international contractors when working in other parts of Africa," Dr de Leeuw explained.

The move towards tabulation and a more simplified and user-friendly format initiated in the last revision of the sixth edition of the Standard System - which is also widely used at universities and technikons - was continued in the latest edition which is now also more suitable for IT applications.

In August 2013, ASAQS appointed a committee consisting of Prof Thys Siglè (chairman), and ASAQS members, Elmarie Edwardes and Rufus de Villiers, to produce a seventh Standard System of Measuring Building Work, incorporating updated and additional information as well as revisions where these were required. In association with Master Builders South Africa (MBSA),
A draft was prepared and comments and input were invited from various Quantity Surveying practices and associations prior to the publication of the seventh edition.

The first edition of the Standard System of Measuring Building Work in South Africa was published by the Transvaal Society of Quantity Surveyors in 1906. Thereafter, further editions were published at irregular intervals on a national level. The sixth edition was published in 1991 with first and second revisions published in 1999 and in 2013, respectively.

Bert van den Heever, president of ASAQS, paid tribute to the "visionary leadership" of Dr de Leeuw who was the driving force behind the delivery of the new Standard System and worked closely with the committee who handled the publication of the latest edition. "Corne has provided immeasurable service to ASAQS for many decades. He was president of ASAQS back in 1985 and now, 30 years later, has again been prepared to 'project manage' the latest revision which was completed in just two years compared to the nine years it took to produce the previous Standard System," he stated.

Dr Corne de Leeuw, former ASAQS president and for decades the driving force behind the delivery of the ASAQS Standard System of Measuring Building Work, received special framed recognition of his "visionary leadership" from ASAQS president, Bert van den Heever (left), at the launch of the seventh edition of probably the building sector's most important source of reference. On right is Larry Feinberg, executive director of ASAQS.
During the 1980s a conservation program was established with a view to stabilising the structure. This structure, although progressive for its time, was recognised by 2010 as being inadequate in its structural support. Reports identified that the extant walls were at risk of collapse and required further stabilisation.

The Port Arthur Historic Site is Australia’s most intact 19th century convict settlement. Located in south eastern Tasmania in Australia, the Penitentiary is the largest structure on the site and was originally constructed as a granary mill between 1842 and 1845.

During the 1980s a conservation program was established with a view to stabilising the structure. This structure, although progressive for its time, was recognised by 2010 as being inadequate in its structural support. Reports identified that the extant walls were at risk of collapse and required further stabilisation.

Several options delivered the structural response, whilst totally obscuring the form and materiality of the existing building. It was therefore essential to develop a set of clear design objectives that could guide the project team, in pursuit of an appropriately sensitive design solution.

Three aspects are highlighted as demonstrating innovation:

- Response to a significant threat, which found design capacity to be 30% of requirement
- A structural solution which combined five essentially simple ingredients into a cohesive, unobtrusive whole
- Reasoned response to a latent condition, which maintained the original design intent.^

As far as possible, engineering solutions had to be invisible. The design concept is a balancing act between the new structure and invisibility. A set of structural elements or tools was conceived - each to be tailored to the location and fragile nature of the building. Each tool was developed individually for customised application. These tools were then used in multiple forms and variance to test for a solution.

The concept was that; with appropriate use of modelling, a combination of elements (tools) could be found that would provide an acceptable level of structural sufficiency and adherence to the design parameters, particularly the limitation on external intrusion of new structure on existing conditions.

When combined, these structural elements acting together under load conditions, provided the structural solution to capacity and restraint, whilst providing appropriate marriage to the design parameters.
DELIVERY INNOVATION

The unique scope of work drew a great level of interest, engagement and ownership to the process and product by each of the project team members; from the consultant team to the onsite construction team. A strong relationship was fostered, allowing a reliable regime of process and trust to drive a collaborative approach within the group to achieve a common goal.

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Programming

A higher than expected level of planning and programming throughout the duration of the project was required due to the latent conditions found in the ground and in the existing wall structure. Procurement of specialist resources both in personnel (travelling from the UK and various locations within Australia) and materials (sourced predominantly from the United Kingdom, USA and South Korea) and day to day monitoring was required, in order to maintain continuity on site and the project budget.

To maintain the focus on the intended handover date and taking into account the knowledge of progressive delays (latent site conditions), the Project / Construction Manager and Site Manager conducted weekly high level program analysis with the specialist sub-contractors.

The collaborative and non-adversarial forum allowed analysis to be provided in the management and rescheduling of non-specialist trades and materials.

The Application of New Technology

BIM 360 has been used extensively throughout this project; to create progressive dilapidation records and has been embraced by each of the sub-trades on site. As the project is the largest heritage scope of works to have been undertaken within the Port Arthur Penitentiary and Bakehouse ruin, PAHSMA welcomed the automatic and progressive stream of photo progress dilapidation, progress and status updates to collate into their archaeological files.

The new structure helps to reveal the qualities of the place, including historical, architectural, cultural and social significance. It is consistent with the principal that ‘Conservation is based on a respect for the existing fabric, use, associations and meanings. It requires a cautious approach of changing as much as necessary, but as little as possible.’ The design demonstrates a clear understanding of the building’s design history and early use.

A contemporary design palette allows visitors to distinguish significant fabric from that of the structural design. This simplistic approach highlights small but precious remnants of original glazing, plaster finishes and the building simplistic but comprehensive ventilation system.

The structural design solution provides a canvas for a future program of interpretation works which will further communicate the story of the buildings design and operation and be enhanced by personal stories of convicts and civil officers who lived and worked within the building.

Part of this interpretation program will also communicate the story of the buildings conservation and interpretation. Models, samples, video footage and photographic records will be collated into a permanent exhibition showcasing the structural feats which may not be apparent to the visiting public.

Nomination Contact:

Peter O’Donoghue
Exsto Management
53 Salamanca Place
Hobart TAS 7000
peter.odonoghue@exstomanagement.com.au
ph: +61 3 6234 8788
The AIQS Academy

The AIQS Academy is an on demand, online training portal available for all Quantity Surveying professionals. This platform will provide further CPD options to AIQS Members or Non-Members and can be accessed from your home, office or other location of your choice. Each topic takes approximately two hours, but completion can be at your own pace and work around your busy schedule. During the course of 2016, the AIQS Academy will roll out up to 100 topics.

The topics available have been individually reviewed and assessed at the highest standard expected by the AIQS for continuing professional development. The AIQS Education Committee will regularly review and update the offerings of the Academy, to ensure a wide ranging and relevant topics. The Academy can be used for your organisational training, enhancing the professional skills of your Quantity Surveyors.

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