

International Update

July 2010
Issue 27



In this issue

- Chairman and Director General reports
- New ICE Representatives
- Middle East, Africa and Americas news
- Asia Pacific news
- Europe news
- General news

Chairman's welcome



David Balmforth
Vice President International

Since our last newsletter I have been overseas on business visiting Australia (briefly), New Zealand and Hong Kong. Whilst on work travels, I took the opportunity to meet with local representatives and members. In New Zealand I was fortunate to meet up with and give a presentation to members of ICE in Auckland. Over 40 members turned up for a presentation on Urban Wastewater, Climate Change and the Carbon Agenda. It was great to learn about their day to day lives in New Zealand, and understand what they gain from the support and professional services ICE delivers to them. Listening to them first hand helped me to better understand the Institution from their perspective, representing a genuinely international body whose reputation was valued across their industry. In particular they highlighted the importance of knowledge sharing activities that were undertaken locally, so it was a great privilege for me to be able to take part in this. One gap we identified was the difficulty of benefiting from the growing number of prestige events that ICE organises in the UK, and we need to think of how we can better engage with overseas members in this important part of our work although more and more of our events are available online both in real time and play back on demand. I was also surprised to find how many people I knew personally from my earlier career, former students and work colleagues from the UK who have since emigrated or were temporarily working there. It was good to catch up with them.

Just one week later, I interrupted my journey back to the UK to join the President in his visit to Hong Kong. Although this was spread over two days only, it enabled me to make many new friends and again understand how the Institution

is seen in another part of the world. One cannot visit Hong Kong without understanding the part played by infrastructure in the success of this amazing place. Equally impressive are the many engineers, both local and visiting from the UK, who have contributed to its development. I was proud to meet them and join in their Annual Dinner. We talked in particular about the growth in China, how this was helping to shape the future of Hong Kong, and what the future role of the ICE in this part of the world might be. When in the UK it is perhaps understandable that we are somewhat reticent about how we might influence such development. Of course we need to be very sensitive about how we engage with engineers in other countries, but I was encouraged by the enthusiasm from many of those whom I met for engaging more proactively with the profession in China.

Back in the International Policy Committee we are re-visiting our international strategy. We have made the point of doing this from an evolutionary rather than a revolutionary perspective, and I hope we can build some of the lessons from my visits into that. We have a very active team in the members of the Committee with plenty of enthusiasm and experience amongst them. I know they will use their judgement to help take us forward in the right way. I am confident that we will be able to strengthen the support we give to our members overseas and extend our international influence, and I look forward to helping to steer that.

Director General's welcome



Tom Foulkes
Director General

Dear Colleagues

We are now halfway through 2010 and already our President, Paul Jowitt, has covered much international ground, having visited Africa, France, Canada and Hong Kong, and will visit the Middle East in September. Paul, his wife Jane and other senior members of the Institution have greatly appreciated the opportunities to meet ICE members from those international areas and look forward to meeting more of you later in the year. Paul will continue to focus on the three key themes in his Presidential year, around critical infrastructure, international development and supporting young engineers. On some of his visits he has been accompanied by one or more of his twelve young apprentices who have been gaining invaluable experience in the role of civil engineers in international development.

In January, I had the pleasure of accompanying Paul and Jane on the Presidential visit to Africa, including the second Middle East and Africa Convention in Capetown, South Africa. The Convention, with the theme 'Accelerating Infrastructure Delivery – Improving the Quality of Life', presented the new thinking evolving internationally on the delivery of infrastructure. The President then travelled to Durban to join his 12 Apprentices who were in South Africa for the 2nd of their workshops, discussing the Millennium Development Goals and infrastructure delivery for capital projects with local industry specialists and a number of site visits.

The Presidential Visit to France, together with the 2010 ELAC conference, took place on 13 – 18 - May this year in Paris. As always, this was a lively occasion, combining technical sessions with a number of social gatherings for ELAC members and partners. Thank you to William Powles and the Organising Committee, for their hard work in ensuring another successful event. In the same month, the Institution was pleased to host the 51st General Assembly of the European Council of Civil Engineers (ECCE), to celebrate its 25th Anniversary. A gathering of 76 ECCE members from 24 countries were present to enjoy a lively and stimulating occasion.

This year's successful Americas Convention took place in Vancouver, on the theme 'Engineers at the Heart of Society: Collaborating and Innovating for Our Common Future'. The convention focused on issues around climate change and the protocol for engineering a sustainable future for the planet.

My thanks go to all our members who looked after us so well in the countries that we visited, particularly Mike Lomas and his team in South Africa and Wilma Leung in Canada, ably assisted by our International team here in London.

There have been several events here at the Institution which will be of interest to our international members. I am delighted to be able to report the successful launch of the ICE's new website on 23 June. With a host of new features, including specialist community areas, it will provide a much improved service to our members around the world. (See page 28 for more information).

As you may know, on occasion the ICE Council elects distinguished people to Honorary Fellowship of the Institution. I am pleased to tell you that, at its meeting on 25 May, the Council elected as Honorary Fellow Dr Anna Tibajuka, United Nations Under Secretary General, for her work as the Executive Director of UN-HABITAT, the UN agency for the built environment and urban development. Dr Tibajuka's activities have been instrumental in promoting the importance of water, sanitation and slum upgrade locally. Arrangements are being made for Dr Tibajuka's Honorary Fellowship to be conferred upon her later this year.

As ever, the Institution very much appreciates the sterling efforts of all our representatives and our volunteers overseas. Thank you for everything you do for our Institution and my best wishes to you and your families.

ICE International Representatives - New appointments (more on the way)

EGYPT



Finlo Paish

Finlo Paish graduated from Birmingham University in the UK with a BSc in Civil engineering in 1975 and has 38 years general civil engineering contracting experience.

Having joined Taylor Woodrow International and being posted to Africa and the Middle East, he was admitted as a Member of the Institution in 1981.

Following posts in the Far East, the Caribbean and Africa as Project Manager, Finlo became a Fellow of the Institution in 1998.

He has worked mainly as Project Director on substantial projects. Good all round civil engineering experience including Dry Dock, Airports, LNG tanks, water and waste water treatment, Infrastructure dams and roads. Contracts have included work in West and North Africa, the Far East, Indian Ocean, Middle East and Latin America.

Finlo is currently working for al Futtaim Carillion as the Project Director for Infrastructure on Cairo Festival City, Egypt.

ITALY



Antonella Grassano

Antonella Grassano is a civil engineer who has specialized in Wind Engineering with experience first in Italy and then the UK. She completed a Masters in Wind Engineering at the Politecnico di Milano (Milan Technical University) in 2004. In her masters thesis she explored the use of Computational Fluid Dynamics for Fluid-Structure Interaction problems and then took a position as a researcher at the Politecnico di Milano to work further on the topic. She joined the ICE through the European Diplomate Route in 2008.

From 2006 she moved to England where she worked for several years at RWDI, first as a Project Engineer and then as Team Leader of the engineering team in England, also coordinating the activities of the team in RWDI's India Office. In addition to wind engineering (structural desk studies for skyscrapers etc. and pedestrian level wind comfort studies), she has developed skills in sustainable engineering (natural ventilation, thermal comfort, wind site studies, etc.).

In 2009 she moved to Italy for family reasons and she is now working as an independent consultant, offering specialist wind engineering services and continuing to expand her capabilities in sustainable engineering.

JAPAN



Dr Toshihiko Omoto

Dr Omoto is a First Class Civil Engineer in Japan, holding Master's and Doctor's Degrees in Civil Engineering awarded by Kyoto University, Japan, and Master's Degree in Construction Law and Arbitration awarded by King's College, University of London. He joined the ICE in 1992 and became a Fellow in 2001.

He has over 35 years experience in the construction industry, including 30 years experience in the international projects. He worked for a major Japanese contractor for 25 years for such projects as construction of dams, tunnels, bridges, roads, process plants. For 20 years of 30 years international experience, he was involved in resolution of engineering and construction disputes, both by amicable settlement negotiations and by arbitration. In year 2000, he began his independent consultancy, specializing in dispute resolution. He has worked in 25 countries, representing and/or advising financing agencies, owners, contractors, consultants and insurers.

He is a Fellow of the Chartered Institute of Arbitrators, UK (FCIArb), and a FIDIC President's Approved Adjudicator. His experiences include a Dispute Board Member in China, Madagascar and Japan, an arbitrator in Nepal and a mediator in Japan. He is serving as an Assessment Panel for Adjudicators of FIDIC (APA).

He is a former Professor and currently a Visiting Professor at Kyoto University teaching two subjects, (1) construction contracts and dispute resolution and (2) the international commercial arbitration.

JORDAN



Hani Abunameh

Hani Abunameh graduated from Aston University with a BSc(Hons) in Civil Engineering in 1969. He went on to obtain an MSc in Highways and Transportation from Salford University in 1971. He joined the ICE as a graduate member in 1973 and achieved chartered status in 1984.

He is Managing Director of Abunameh Trading as well as Vice Chairman of General Engineering Industries in Jordan. He initially worked in the UK for A Monk & Co before returning to Jordan, in 1975 where he has spent his career.

In addition to his ICE membership, he is also a member of the Institution of Highways and Transportation.

MALTA



Mike Brewer

After graduating in 1979 from Leeds University Mike Brewer joined John Mowlem and spent 5 years on various construction projects in England before moving to Cyprus and working for Shephard Hill on the construction of Evretou Dam.

He became a member of the Institution in 1984 and after completion of the dam continued his career with Shephard Hill on a harbour project in Jersey followed by various flood protection, sewerage & bridge construction projects in South Wales.

In 1991 he returned to Cyprus to work on the construction of a 5-star hotel and also set up his own retail business for 4 years until moving on again to Malta where he worked as a Project Manager on the construction of the Freeport 2 container terminal.

By the time that this project was finished in 1999 he had married Therese, settled down and joined the Vassallo Builders Group of Companies for which he is now Operations Manager and has worked on various building, restoration, refurbishment and waste control projects.

In Malta there is a joint group of Civil, Mechanical & Engineering and Technology Engineers called the Malta Group of Professional Engineering Institutions which he joined early during his time in Malta & soon became a member of the committee.

He has been very active in the Group & served as Treasurer for a few years before becoming Chairman for the next 4, Vice-Chairman for the next 2 and again now as Treasurer.

In 2007 the Committee hosted ELAC so with his new position as ICE Representative he is looking forward to a new challenge.

TANZANIA



Dr Kumbwaeli Salewi

Dr Salewi has over 30 years of post graduation engineering experience covering: design, supervision and commissioning of Civil Engineering Structures/Projects for both public and private clients, procurement of consulting and construction contract services, Project Management and Training in continuing education programmes including in academia, contracts, administration, adjudication and arbitration.

Over the last 15 years he has worked on participatory promotion and management of United Nations and Donors/Government development projects and programmes in infrastructure and service delivery and capacity building extending to the informal sector, small and medium sized enterprises with consideration of appropriate technologies application for policy advice and development to alleviate poverty.

He has also participated in various national, regional and international conferences and seminars as a paper presenter as well as a facilitator in some. His public service experience includes being a Board Member in a number of Public Institutions. He is currently the Programme Manager ILO Office Dar es Salaam overseeing interagency projects implementation under the UN Reforms targeting wealth creation,

employment creation and economic empowerment.

Dr Salewi joined the ICE as a Chartered Member in 2002 and became a Fellow in 2006. He is also a Fellow of the Institution of Engineers, Tanzania and the American Society of Civil Engineers and a past President of the Institution of Engineers Tanzania.

UNITED ARAB EMIRATES



Mark Jamieson

Mark Jamieson is a highly innovative and motivated Professional Chartered Civil Engineer (CEng. MICE), a senior Project Manager with 18 years experience in delivering multi-disciplinary projects in Civil, Building, Infrastructure, Nuclear, Rail and Petrochemical environments. He joined the ICE as a student member in 1989 and achieved chartered status in 1998.

Mark is currently part of Turner's core team working for Aldar Real Estate in Abu Dhabi, heading up their site wide Logistics team. Previously, Mark was Snr. Construction Manager as part of a Core Team serving several Sorouh Real Estate Projects in Abu Dhabi worth over \$2bn and as Turner's Project Manager for the Burj Dubai Development Infrastructure, Mark was responsible for delivery of all the amenities, infrastructure and transportation systems valued at \$1.2Bn. When at Carillion PLC, Mark championed partnering contracts, Health, Safety & Welfare as well as Corporate Social Responsibility. He has shown professional dedication, determination and sensitivity in promoting best practice & business improvement processes with lessons learnt seminars.

Having started as a sponsored graduate, Mark undertook various roles at Carillion, Arup & Tarmac and his experience encompasses project management, contract & tender programme development, procurement, survey and quality auditing.

Mark enjoys a balanced lifestyle that has allowed him to travel and to compete in several sports. In his spare time he is Vice Chairman of Darjeeling Cricket Club, Dubai.

BRUNEL INTERNATIONAL LECTURE

8th Brunel International Lecture



Keith Clarke, Chief Executive, Atkins delivered the inaugural Lecture at Great George Street on Tuesday 25 May 2010 on 'The Delivery of a Low Carbon Society – Beyond Rhetoric' to an audience of over 200. The lecture will now be delivered overseas at venues to be organised. To keep up to date with locations as they are confirmed or watch the London Lecture online: www.ice-brunel.com

OVERSEAS NEWS

Africa and Middle East News

Kuwait

Kuwait Airspace System Plan

The Kuwait Airspace System Plan (KASP) is a group of projects initiated by the Directorate General of Civil Aviation (DGCA) of the State of Kuwait to improve and upgrade the existing air traffic control and management system, related communication system, data interchange network and infrastructure at Kuwait International Airport (KIA).



The key component sub projects of KASP are as follows;

- Air Traffic Management (ATM) System will provide significant infrastructure improvement that will allow capacity and safety improvements, with integrated modern, proven automation systems.
- Communication System (COMS) will replace and enhance the existing communication system of the airport and will be a vital component of the Air Traffic Services System.
- The Communication System sub - project's main objective is to provide voice communication based on ground/ground and air/ground functions as defined in ICAO Future Air Navigation Systems (FANS) concept of Communication, Navigation, and

Surveillance / Air Traffic Management (CNS/ATM) for the Kuwait Airspace and Airport System.

- Electrical Infrastructure and South Power Building (SPB) sub-project will expand and upgrade the existing power distribution and substations at the "Kuwait International Airport" and in order to meet the future demand, anticipated with implementation of the "Kuwait International Airport Master Plan (KIAMP)".
- Kuwait Airport Data Interchange Network (KADIN) will replace the existing discrete proprietary optical fiber link communication system, support all existing and future data communication, and will enable the aviation applications to provide non - interruptible services at KIA. The network will connect the Air Traffic Control and other airport systems including communication, navigation and surveillance systems.
- A new Control and Meteorological Center (KCMC) building with its auxiliary buildings and required infrastructure will be constructed within the existing Kuwait International Airport complex, an area covering 112,500 m².

A new Long Range Radar building (LLR) will be constructed to house the Primary Surveillance Radar (PSR) and Monopulse Secondary Surveillance Radar (MSSR) equipment as well as a tower for antenna and rotation gear. The new LRR will be used as the main radar for the en-route surveillance and also as the backup system for the existing approach radar.

- A surface movement radar (SMR) will enhance the safety and operation of the airport and cater for projected future capacity growth and will provide a clear picture of all airport surface movements (aircraft and vehicles). This is a key operational tool for controlling airport surface movements during periods of low visibility and also for covering areas on the airport which are not in direct line of sight from the Control Tower.

- Although completion was scheduled within five years, a delay of three years to see the project through may take place. At first instance the delay is attributed to legislative processes of the State, as well as to the pending award of KIA Master Plan, which is an independent project.

All these delays will result to substantial costs escalation for KASP, for DGCA does not appear to lose any sleep, for unknown reasons.

Michael Shaylos CEng FICE MCI Arb

Mauritius

Agreement of Cooperation between ICE and the Institution of Engineers (Mauritius)

ICE and the Institution of Engineers (Mauritius) have signed an Agreement of Cooperation in order to promote joint working and increased collaboration between the institutions. The formal ceremony took place on 22 January 2010, during an evening reception held at the British Council in Mauritius. The event provided a good opportunity for networking and enabled the more senior local members of ICE to get to know the latest student and graduate members.



The event was attended not only by ICE members, but also by representatives from both the Institution of Engineers (Mauritius) and the British Council. Ruth Dennett, ICE's Senior Manager International, also attended this function while she was in Mauritius on a personal visit. Ruth had been to Durban in South Africa working on the Presidential Apprenticeship Scheme a few days earlier joining ICE's President and Director General, namely Paul Jowitt and Tom Foulkes respectively, who were already in South Africa on a Presidential Visit.

Ruth thus arranged for them to sign the Agreement of Cooperation document on behalf of ICE, and then brought it to Mauritius for signature by the President and Secretary of IEM.



During the reception Ram Bahadour, ICE's Representative for Mauritius, made a presentation on ICE. He also briefed those present on issues discussed at the Middle East and Africa Convention in Cape Town, which he had attended during the previous week. There was a round of speeches too, from Ruth Dennett (who also read a personal message from the ICE President to members in Mauritius), Dawn Long (Director of the British Council for Mauritius), and Jagadish Soobarah (IEM President).

The Agreement of Cooperation, which was subsequently approved by IEM's Council on 17 February 2010, became effective on 25 May 2010 when it was approved by ICE's Council as well. Now that this Agreement is in place, joint events will be organised regularly for the benefit of both IEM and ICE members. Other avenues of cooperation between ICE and IEM will be explored, with a view to serving better the interests of members and of the engineering profession. There is a growing interest in ICE in Mauritius, as evidenced by the significant increase in the number of students and graduates who have joined the Institution lately and the number of members who joined us at

this event, which was kindly hosted by the British Council.

Ram Bahadoor, ICE Representative, Mauritius

Thanks to Messrs KEO and Halcrow for arranging the Presentation and for organising the visit.

Qatar

ICE Qatar has been active this quarter.

A Study Group has continued to meet for more mature candidates for the Technical Report Route led by Nadeem Shameem supported by Werner Redtenbacher.

Several well attended Evening Meeting talks and Site Visits have taken place reflecting that Qatar is in an active phase of its development.

Site visit to the Qatar National Convention Centre site on 6 February 2010

Consultant KEO conducted a site visit with a fascinating tour of the structural complexities of the facilities, starting with a presentation.

The Main Convention Centre building houses 10 halls with capacity of 7000 people along with 700 staff. The main hall is a 2,500 seat auditorium with full theatre facilities. Other halls offer flexible accommodation to suit a large range of events. Curtain walls consist of glass glazing and GRC panels, blockwork walls of concrete masonry units, totalling about 80,000 sq.m.

The main building façade comprises a steel 'Sidra Tree' support column structure of 6,500 tons of steel supporting glazed façade and concrete roof. Tree columns up to 5 metres wide have a double curvature steel stressed skin.

Also on the site are the Convention Centre Extension of 40,000 sq.m for up to 10,000 guests and the Main Car Park for 3,000 cars.

The site visit was attended by 10 Engineers from 9 different Organisations.



Convention Centre Site visit

Site Visit to Doha North Sewerage Pumping Station PS70 for Public Works Authority (Ashghal) on Sat 20th February 2010

The Project comprises the construction of two sewage pumping stations on a single site.

An impressive 40m deep 40m dia Lift Pumping Station and a high level Forwarding Pumping Station each to be equipped with 8 No pumps rated at 1316 l/s and delivering via triple 1600mm dia DI rising mains to the under-construction Doha North Sewage Treatment Works approximately 27km distant.

Works are in progress on a tight site with very tidy excavation for the deep pumping station and an associated 40m deep screen chamber complete and construction of the high level forwarding pumping station structure in progress. The deep pumping station structure is provided with substantial reinforced toe sockets at the

base to resist uplift. The works will finally include HV and Standby Generator building and Administration, Workshop/Store buildings plus Odour Control facility.

The visit was well attended by 26 Engineers from 13 different Organizations. Thanks to Ashour and Hyder for organising the visit.



Pumping Station Site Visit

Evening Talk was given on Contract by Eversheds at GHD offices on 2 March 2010

Richard Birks, Partner and Jennifer Westall, Senior Associate, with the international law firm Eversheds gave a presentation on the FIDIC forms of construction contract and their interaction with Qatari law. For projects in Qatar it is essential to understand the intricacies of Qatari law and how those relate to the various forms of FIDIC contracts. To put this in context, the Civil Code provides for decennial liability which is not necessarily in line with the provisions of the various FIDIC forms of contracts because these were not drafted with any particular legal system in mind.

It was followed by a question and answer session, revealing that although FIDIC was used for one of the current major developments (infrastructure for a 35sq km development), local

contracts prevailed. Qatar is an individual market, with very specific concerns on both the Employer and Contractor side. After an interesting debate with the ICE members, it will be interesting to see how the market in Qatar moves towards standard forms.

The meeting was very well attended by 42 people from 16 different organisations.

Thanks were given to Eversheds and GHD.

Reception for Director General Tom Foulkes on 7 April at Halcrow Offices

A reception was held in Halcrow's offices on 7th April on the occasion of the visit by the Director General Tom Foulkes to Qatar. A slide presentation was made showing the major projects underway including the Towers Zone, Qatar Foundation, Qatar-Bahrain Causeway, Lusail City Development, and other major infrastructure projects including Highways and Sewage Treatment Works.

The meeting was well attended by 26 people from 14 different organisations.

Thanks to Halcrow for the venue and providing the refreshments.



Tom Foulkes, Jon Holland (ICE Rep)

Evening Talk by GHD's Global Leader for Water Warren Traves on 'The Rise of Potable Reuse in Water Supplies' on 11 April

A comprehensive topical presentation was given on 11 April by GHD's Global Leader for Water Warren Traves on 'The Rise of Potable Reuse in Water Supplies' – detailing the treatment options when the potable water source is from a reuse source of water. Water is an undervalued scarce resource being shared by an increasing population. The subject was especially relevant to the Gulf, where nearly all potable water is from desalination, and natural groundwater is being rapidly depleted. The meeting was well attended by 26 people from 11 different organisations.

Jon Holland (ICE Representative, Qatar)

Americas

Canada



Vancouver hosts 2nd ICE Americas Convention

Wilma Leung, ICE Representative for Canada Western, hosted the Second ICE Americas Convention between 3rd and 6th June 2010. Held in Vancouver, British Columbia, the Convention included a technical conference under the theme *Engineers @ the Heart of Society: collaborating + innovating for Our Common Future*, an ICE Business Day attended by Representatives from across the Americas and a site visit to the Richmond Olympic Oval building.

The Convention was a great success and followed-on from the first Americas Convention in Las Vegas in 2008, with the Vancouver

conference day attracting approximately 80 delegates from a wide range of engineering disciplines and including an excellent set of thought-provoking speakers, including Keith Clarke who presented the 8th Brunel International Lecture at the event. Video recordings of the presentations from the conference will shortly be made available on the ICE website in order to disseminate the presentations to a wider audience. The conference also allowed for wider engagement by ICE with the engineering community in Canada, with representatives from the Canadian Society for Civil Engineering and Engineers without Borders Canada in attendance.

As well as raising the profile of ICE within Western Canada, the convention also provided valuable input into ICE strategy for the region. With 11 representatives in attendance at the convention and the ICE Business Day, from Canada, the US, the Caribbean, Panama and Brazil, discussions included a focus upon initiatives to develop and strengthen ICE's profile across the Americas and to further develop engagement with sister institutions, as well as considering issues of mutual recognition between the UK and North America and further engagement with Brazil as a means of expanding within Latin America. These discussions will now be developed further via the Americas Subcommittee in order to be incorporated into ICE strategy for the region.

Many thanks go to Wilma Leung for all her hard work in organising the Convention and for making it such a great success. Thanks go also to David Caiden for arranging Arup sponsorship and the strong engagement of the ICE New York committee with the event.

Neil Bailey, ICE Area Manager, Middle East, Americas and Africa

Thanks also to Neil Bailey for his sterling effort in coordinating this event from London.

USA

Graduate and Student Papers Competition comes to the USA



Left to right – Peter Ayres (Arup Finalist-2nd Place), Gillian Blake (Arup Judge), Colin Lawrence (Hatch Mott MacDonald judge), Andrew Ardrey (Halcrow judge), Rebecca Gianotti (MIT Finalist –1st place), Ravi Mullapudi (University of Houston, Finalist – 3rd Place), David Caiden (Americas ICE Board Representative, Martin Ellwood (PB judge).

April 20th 2010 marked the first final to be held for the Graduate and Student Paper Competition in the USA. Marketed to Schools, Institutions and Professionals across the States, the New York Local Association of the ICE established the competition supported by the ICE Representatives for the USA and our four key sponsors Arup, Halcrow, Hatch Mott MacDonald and Parsons Brinkerhoff. The support of the sponsors enabled a winning prize of \$1000 and expenses for all the finalists to attend the final presentation to an audience in New York, some travelling from as far as Texas.

Over 20 abstracts were received from a mix of students and professionals from California to Virginia to Massachusetts and covering a wide range of topics. This diversity is one of the aims of the competition to engage the civil engineering field as a whole and give a forum to share ideas, innovations and new ideas. The open structure of the competition allows many young people to express their enthusiasm for their subject and get a start in technical writing and improve presentation and debating skills without many of the entry restrictions of technical conferences.

One important theme of the competition has been to provide feedback to all our entrants at each stage and we also hope to capture key lessons and display these on our website for the

benefit of future candidates or those wishing to start writing and presenting their work for the first time. The competition has been judged by four highly experienced professionals and each judge represents one of the four sponsors.

Following a very tight group of submitted papers on topics covering BIM modelling techniques, non-navigational benefits of lock and dam systems in U.S. waterways, pore water pressures in the Upper San Fernando Dam to Behaviour of Resedimented Clay, the judges commented 'it has been genuinely difficult at each stage to pick from such a group of worthy entries'.

Three finalists were selected to compete in a presentation and debate in New York and the breadth of their topics reflects the aims of the competition to be all inclusive. After a fantastic evening of presentations Rebecca Gianotti of MIT was selected as the winner for 2010 for her paper 'The potential for environmental management to contribute to malaria vector control in western Niger'. Rebecca was commended for her ability to engage the audience and communicate the technical content of her paper clearly and supplement this during debate.

Peter Ayres, Tunnel Engineer at Arup New York was a close 2nd with his paper 'Analysis and control of blast vibrations during the excavation of the 34th Street Cavern, No. 7 Line Subway Extension, New York City.' Ravi Mullapudi of the University of Houston, Texas was commended in 3rd place his research paper 'Static and Seismic Evaluation of Shear Critical Concrete Structures with Combined Loadings'.

All those who entered were commended for their entries. At the final David Caiden, ICE Council Member for the Americas noted 'In their own right each of the finalists had excelled in their own field, if this is to set the standard of the first competition then we are excited for things to come'. It has been a challenge and a pleasure to set up the competition across the USA, we hope the success of this year will encourage support and participation in future years and establish the competition in the US. A number of the entrants at different stages have taken the time to thank the ICE for the opportunity to participate in this competition and this helps demonstrate

the importance of supporting and listening to young people through competitions such as GSPC. www.iceusa.org

Alison Littlejohn, Member of the ICE New York Committee

- **Drop in Session** for ICE Members by Mr. Mike Rogers and Ms. Patricia Fort on 15th April, 2010.
- Ms. Patricia Fort presented a lecture on **Development Objectives and Continues Professional Development** on 16th April, 2010 at L&T-ECC, HQ.



Presentation on 13 January 2010 at Hyderabad

Asia Pacific News

India, Chennai

- Dr. B. Sivarama Sarma presented lectures on the **Graduate and Student membership of ICE, UK** to the young civil engineering students in Anna University and “Advanced products for durable, flexible pavements and speedy construction” on 13th January, 2010 at Taj Deccan, Hyderabad.
- A Workshop on **Supervising Civil Engineers** was held at L&T-ECC, HQ on 12th April, 2010. Mr. Mike Rogers, CEng CEnv FICE from ICE-UK made a presentation to the ICE members/Engineers.
- Technical Seminars on **High Rise Construction of Steel Buildings** by Mr. Richard Webb, CEng FICE, **Construction Claims (What you should know)** by Dr. Mervyn Gunasekera, CEng FICE, **Harbour Siltation** by Dr. Steven Mitchell, CEng MICE and **Euro Codes** by Mr. Richard Webb, CEng FICE on 13th & 15th April, 2010. Experienced and fresh engineers attended the seminars and received exceptional feedback from Participants.
- **Route to ICE Membership** lecture by Mr. Mike Rogers and Ms. Patricia Fort on 15th April, 2010 at L&T-ECC, HQ.



Technical Seminars during ICE week at Larsen & Toubro, Chennai



Malaysia

Formation of the University of Nottingham, Malaysia Campus (UNMC) ICE Student Chapter

The UNMC ICE Student Chapter was founded in September 2009, by two enthusiastic students, Mr. Chai Chuan Jooi and Mr. Cho Chun Fai. The formation of the ICE Student Chapter in UNMC is seen as a major step to give an insight into the industry and to make a more informed career choice as well as to offer guidance advice and information on becoming a professionally qualified civil engineer. The UNMC ICE Student Chapter carries the same aim as its pioneer, ICE which is to 'foster and promote the art and science of civil engineering'.

The UNMC ICE Student Chapter has held several beneficial activities ranging from site visits and talks by professional engineers as well as seminars as part of the efforts in achieving the main aim throughout the whole academic year. First of all an election was held to recruit the board of committees on October 2009 and Mr. Chai Chuan Jooi held the President post. On November 2009, the ICE Malaysia Representative, Dr. Ooi Teik Aun, who is also the honorary advisor of the student chapter, was invited to launch the student chapter officially and to give a lecture to the students of UNMC.

The formation of the ICE Student Chapter in UNMC is seen as a fresh beginning to the civil engineering course in the university. Being the members of an internationally acclaimed Institution, students will be able to get in touch and engage with the international civil engineering community.



The University of Nottingham Malaysia Campus ICE Student Chapter Official Opening 2009



UNMC ICE Student Chapter AGM 2010

The Annual General Meeting 2010 was held on 19th of April 2010 to signify the end of the academic year. New committee Board Members were elected to manage the student chapter. Mr. Cho Chun Fai was elected as the new President of the ICE Student Chapter for the academic year 2010/11 who carries the aim to bring the Student

Chapter to a higher level. The ICE Malaysia Representative, Dr. Ooi Teik Aun was one of the witnesses to testimony the Annual General Meeting 2010.



The Members of Committee Board of UNMC ICE Student Chapter 2010/11

New Zealand and Trans Tasman

ICE Trans Tasman mini summit in Canberra January 22nd and 23rd 2010

Following the successful ICE Asia Pacific Sub Committee Convention in Auckland 2007, a decision was made to establish an ICE Trans Tasman strategy. The Trans Tasman strategy aims to provide strong and mutually cooperative ICE working practices and links across the Trans Tasman between Australia and New Zealand. Since its establishment a number of positive changes have been made, with the aim of providing a better service to ICE members in the region. A part time Trans Tasman administrator has been employed to provide support to the ICE representatives in both Australia and New Zealand; a Trans Tasman newsletter was launched in June 2008 and is produced biannually; and Chartered Professional Reviews are now held annually in both Sydney and Auckland to name a few examples.



ICE delegates outside Engineers Australia headquarters in Canberra

During the Mini Conference in Canberra in January 2010, the ICE delegation also met with the National President, Doug Hargreaves, and the Chief Executive Officer, Peter Taylor of Engineers Australia at the Engineers Australia headquarters, where the two organizations discussed further opportunities for collaborative working.

Debbie would like to give a special thanks to Mike Polin for Chairing the sessions on both

days, and helping to make the event such a success.

Debbie Kan, ICE Area Manager, Asia Pacific

ICE in New Zealand and TransTasman– Review

Here in New Zealand the year's opening has seen a few firsts - the first Budget from the new Government, the first whiff of PPP's and the very first signs of lift in the economy – although the Western Isle seems to have made a first real step forward. We have also found our first long term sponsor in recruitment consultant Randstad, being the next step of a long relationship. We also said a sad goodbye to Caroline – our TransTasman and New Zealand Administrator – who has been snapped up for a full time post elsewhere. But we have warmly welcomed Jo Conway - as our new Administrator who will also cover both roles - to what is becoming a busy and productive second half of the year.

For the ICE in New Zealand we had a successful AGM where we were able to report steady Membership growth with an excellent presentation from URS's Evan Giles and a few changes too - Vic McNally stepped down from the Committee after a sterling run of over 5 years and Opus's Matt Thomson has joined us. The ICE's Vice President, International, David Balmforth pulled in a big group for an excellent presentation on urban flooding – very appropriate for New Zealand as we go into winter.

Work in progress is keeping us busy too - this includes the launch of a:

- Sharpened up member services strategy, focused on three areas - high quality Learned Society functions, CPR and company based Champions for our Members.
- Meeting on PPPs – we expect 120 to attend in Auckland on 15th June.

Looking forward there are two world class events coming to New Zealand:

- Hopkins Lecture – University of Canterbury Prof. Paul Jowitt – ICE President and previous Brunel lecturer - will present this

- prestigious lecture in Christchurch – 31st August 2010.
- Rankine Lecture – Prof. Tom O'Rourke will present his 2009 lecture:
 - 10th Oct. 2010 – Auckland
 - 11th Oct. 2010 – Christchurchbefore going as an ICE supported tour to Australia.

We also are working on a couple of other "specials" from overseas for later in the year – this will keep the Committee busy as well.

For TransTasman there has been continued work to support all the ICE Representatives, especially those new to the post and this has speeded up their ability to engage with local Members. The out workings from the Mini Conference in Canberra are coming through now and a new strategy document has been released from London for consultation. The main areas of focus are:

- TransTasman Essay Group initiative located here and in Sydney.
- Updated web pages for the new ICE web site.
- Group of Supervising Civil Engineers (SCEs) for companies across the region.
- On line access to lectures and resources for local Members.

Tim Warren, ICE Representative, New Zealand

Sri Lanka



Dr Dharmasiri de Alwis and Prof. Dayantha Wijeyesekera, ICE Representative signing the Agreement of Cooperation between the

Institution of Civil Engineers and Institution of Engineers, Sri Lanka (IESL)

Europe News

ICE urges European Council of Civil Engineers (ECCE) to focus on EU



Mr Vassilis Economopoulos, President of ECCE with Professor Paul Jowitt, ICE President

ICE has called for the European Council of Civil Engineers (ECCE) to focus more on influencing EU legislation, which can have significant impact on key infrastructure projects across the Continent and in the UK.

The case was made by Director General, Tom Foulkes at the 25th anniversary meeting of the Council, hosted at ICE headquarters in Westminster.

In his address Tom Foulkes said ECCE was strongly placed to ensure that the voice of civil engineering within the EU was articulate and well informed. "The legislative power of the EU institutions has a significant impact on civil engineering projects – and in some sectors accounts for more regulation than national parliaments," he said.

"Civil engineers must therefore engage in this legislative process, because the competitiveness of European economies - as well as our quality of life - is increasingly dependent on an integrated approach to the development of our transport network, energy grid and other low-carbon infrastructure needs of the 21st century."

He used the public engagement work of ICE over the past years as an example, highlighting successes such as the appointment of a Chief Construction Advisor, the wide-spread political support for ICE's proposition for a national investment bank for infrastructure and the creation of a strategic body, Infrastructure-UK.

David Howell, Chairman of ICE European sub-committee and the UK's national delegate for ECCE, said ICE is working with the other members of ECCE to review the current strategy and focus resources. "It is crucial that ECCE has a strong voice within the EU, to advise and influence key decision-makers and ultimately policy. This is not something ICE can tackle alone, and we are very keen to use our combined weight to ensure civil engineers are heard throughout the legislative process of the EU."

The calls have been well received, and the outcomes of an ICE-led strategic working group session at the meeting will feed into developing a new EU-focussed strategy.

As well as discussing new strategic direction for ECCE a lot of other business was covered including the presentation of an award to ICE – accepted on its behalf by President Professor Paul Jowitt - for its contribution to ECCE over the years.

ECCE is the representative body for civil engineers in and across Europe, with 22 member countries For more info go to www.ecceengineers.eu

ELAC Conference brings together ICE Local Associations



Fourteen ICE Representatives and over 100 delegates and partners came together for the 2010 European Local Associations Conference (ELAC) in Paris last month, to discuss ICE's activities in each country and its strategy in Europe.

ELAC, now in its 15th year, began as an informal meeting set up by ICE members based in Europe and has grown into an event that encompasses virtually every country in the European community. It is hosted by a different nation every year and combines technical presentations and site visits as well as Institution affairs.

ICE President Professor Paul Jowitt and Vice President Richard Coackley attended the conference, with Chair of the European Sub-Committee, David Howell, chairing the ICE business session which saw presentations from representatives on each country's activities. The theme for the technical conference session on Friday was "Engineering in France - past, present & future" and a range of technical

papers were presented. The Conference was opened by the British permanent delegate to UNESCO, Matthew Sudders, and closed by UNESCO's Tony Marjoram, Head of Engineering Sciences.

As well as the usual country presentations, there was also a presentation and discussion about the new ICE website and the results of the membership satisfaction survey, a strategic review session to discuss ICE's strategy in Europe and a paper on European engineering qualifications delivered by the President of the Conseil National des Ingénieurs et Scientifiques de France (CNISF) at the ICE Business Session.

The site visits on Monday in the La Défense business district, included presentations on the Grand Paris development project and the Ile de France urban rail network. In the afternoon there were two optional site visits to the Société Générale "Basalte" office building under construction and the "Tour First" high rise office building renovation.

On Tuesday evening there was a reception hosted by the British Ambassador, Sir Peter Westmacott, at his official Residence. The 70 guests included the President's 12 Apprentices at the end of their 2 day workshop at UNESCO.

Organiser of this year's ELAC, Chairman of ICE France, William Powles, said: "The French Local Association was very pleased to be able to host ELAC in Paris and demonstrate typical French hospitality. ELAC has developed into almost a large family reunion, delegate ages ranged this year from 2 to 85 with several students, graduates and members attending for the first time, including Paul Jowitt's 12 Apprentices.

It is to be hoped the enthusiasm of the group rubbed off on the attendees such that they will also want to come back for future events to sustain the good health of the event and continue the important sharing of key news, knowledge and information".

ELAC 2011 will be held in Warsaw, Poland, from 12th - 16th May 2011. For more information see: http://www.ice.org.uk/about_ice/icenearyou_edu.asp

Melissa Zanocco, ICE Area Manager, Europe

Czech Republic

PBA leads technical design of prestigious Laser Centre



Peter Brett Associates (PBA) team in the Czech Republic, based in Prague, is leading the technical consulting firm's contribution to the design of a prestigious Extreme Light Infrastructure (ELI) Laser Centre, which will house the most powerful laser in the world.

The facility will contain highly sensitive technical equipment, and will require strict limits on own frequency to prevent any vibrations transferring onto the equipment. Working with London-based Bogle Flanagan Lawrence Silver (BFLS) architects, Peter Brett Associates is providing the design of all mechanical and electrical systems, and is advising on structural engineering and transport infrastructure to meet the project's high and precise quality standards.

The laser building will have a completely controlled internal environment, with maximum attention given to the air-conditioning systems. These will not only provide stable temperature, humidity and fresh air, but also ensure the premises remain clean and pristine.

In addition to the main building, the project includes a number of research rooms, labs and conference facilities which have a combination of mechanical and natural ventilation.

Construction of the unique research facility will begin in 2011 and is expected to be completed by 2015. The new laser will be 100x more powerful than current models.

Peter Brett Associates has previously worked with BFLS architects on the large Zizkov Cargo Station Redevelopment project in Prague and a number of successful projects in the UK.

Dr Martin Duris, ICE Representative Czech Republic

Greece



Greece Local Association

In March 2010 the ICE Local Association for Greece organized a site visit to Artemida, a village in Southern Greece which was destroyed by forest fires in 2007 and is being reconstructed with financial assistance from the Republic of Cyprus. The budget for this "design and build" project is over 9 million Euros and during our visit we had the opportunity to find out first hand the details of the project, the difficulties encountered and the impact of natural disasters on our society. The photo below show the type

of house that was reconstructed as well as the general view of the village, with the signs of the devastation still evident in the background.



This visit was the second Chartered Professional Development event organized by our Local Association, the first being a lecture on thermogeology by Nick Barounis in December 2009.

Michael Hadjihambis, Hon. Sec. ICE LA for Greece

Construction of a Continuous Three Span Composite Bridge of Egnatia Odos

The Egnatia Motorway is the most important modern infrastructure project concerning the development and communication of Greece with Europe, Balkans and Asia Minor. With a length of 670km it multiplies investment in transport, industry and tourism.

The design and construction of the G4 Bridge located near the village of Krystalopigi in Epirus as part of the Egnatia Motorway project currently constructed in Northern Greece. This bridge crosses a 180m wide, 70m deep valley. A three span bridge scheme was assessed to provide a practical, cost effective, and speedy solution with minimal disturbance to the local environment. The 187.75m long bridge with spans of 54.75m + 65.00m + 68.00m consists of two independent and identical decks, 12,76m wide each.

Each deck is composed of four No 3m deep steel plate girders supported via bearings over the pier-heads and abutments, and topped up with precast slabs and an insitu reinforced concrete slab.

Due to the fact that the bridge is located in the vicinity of a tectonic active fault it has been designed for horizontal seismic acceleration of $\alpha=0,24g.1,3.1,25=0,39g$, requiring the provision of dampers and energy dissipating elastomeric bearings with central lead pins. The plate girders are placed into position by the method of incremental launching. The launching method started from the West abutments with a rise slope of 6%.

Spyridon Konstantopoulos CEng MSc

Luxembourg



View of the bridge



Luxembourg Local Association



View of the steel nose of the steel beams



Visit to the Courts of Justice of the European Community

Members of the Local Association made a technical visit to the recently extended buildings of the Courts of Justice of the EC on Friday 23rd April 2010.

The Courts of Justice, which interpret the EU treaties as well as secondary issues, comprise three main courts. It is continually being expanded as one might expect with the new countries joining and with the added importance of the laws in number and impact. A major expansion and rebuilding has just taken place and the association visited the site two years ago and so was particularly interested to see the result in operation.

The design has had to meet two conflicting requirements – to have an open transparent court system where citizens can see justice taking place and also provide the necessary privacy and security to the judges and the personnel. The new concept has succeeded in providing for both these requirements with large open spaces with a clear separation between public and private. Granite and other dark stones are much in evidence in the finishing providing a sombre but practical impression.

A technical complication was that the original court (Le Palais) built in the early 1970s with Cortan steel (which rusted more than expected) was required to be preserved by the Luxembourg authorities. This meant total dismantling followed by steel cleaning and re-treatment before re-erection. The central court is not however visible from outside as an annular surround has been added to provide extra working space.

The new design included not only this restructuring of the court itself but also other facilities for the staff, mainly in two tower blocks on the edge of the existing site. The manner in which the various components are linked together by a central corridor is well done. We understand a further extension with a third tower block is currently being planned.

The new extension provided an extra 120 000 m² of floor space and was relatively expensive due to the special conditions at about 350 M Euro. The current complex caters for about 2200 staff, about 50% being translators or interpreters.

This was a most interesting visit mainly due to our guide, who was very knowledgeable being responsible for the development as well as the future expansion.

Peter Bond, ICE Representative, Luxembourg

Portugal

On the 28th April, ICE Portugal organized a site visit to the North of Portugal, to see the 'Estadio do Dragão' or 'Dragon Stadium' in Porto. Despite last minute transport problems (volcanic ash, followed by national train strikes), a dedicated core of ICE members attended the visit, and benefited from the informative guided tours provided by the stadium maintenance teams. The 'Estadio do Dragão' officially opened on the 15th November 2003, offering the city a new improved facility with a capacity of 50,399. The construction cost was Euros 98 million, of which almost 20% was provided by the state. At the time of opening, this was the first European stadium to obtain the 'Greenlight' certification, in recognition of its energy efficiency and lighting design.





Barry Wainwright
ICE Representative, Portugal

During discussion after the visit, the general consensus from visitors was that after seven years the stadium is in remarkably good condition, often appearing as brand new, a testament to apparent good design, construction and maintenance of such a complex facility.

On the 19th May, the 'Joint Institution Event' took place at the British Ambassador's residence in Lisbon, organized by ICE (Portugal), in conjunction with the Chartered Institute of Building (CIOB), the Royal Institution of Chartered Surveyors (RICS) and members of the British-Portuguese Chamber of Commerce (BPCC). As guest speaker, the audience was fortunate enough to benefit from the presence of Antonio Mendonça, 'Portuguese Minister for Transport and Public Works', who took the opportunity to re-confirm the government's commitment to maintain Portugal's plans for road and rail transport projects, stating that such infrastructure investment was vital for Portugal's modernization, productivity and competitiveness in the medium to long term.

The Minister went on to refer specifically to the need for new industrial freight ports and passenger and cruise ship terminals, high-speed rail projects and the related 'third crossing' of the river Tagus, linking the TGV with a proposed new airport to the South-East of Lisbon.



Spain



Alfonso Perez 2009 Young Engineer and CICCIP President, Edelmiro Rua

2009 Young Engineer Award by the Spanish Institution goes to ICE Member Alfonso Perez.

The Spanish civil engineering institution, Colegio de Ingenieros de Caminos, set up the Young Engineer Award several years ago. It covers the whole Spanish territory and is intended to encourage, foster and reward the professional careers of Ingenieros de Caminos under 35.

The prize takes into account the innovative and technical contribution of young civil engineers, their projects, their initiatives and any of their activities that stand out for their integration in the environment and their value to society.

Alfonso Perez Estebanez is a member of the ICE as well as the Spanish Colegio. He graduated at the Madrid Polytechnic School as Ingeniero de Caminos, with a remarkably active

contribution to the student community. He then moved to the UK where for four years he worked in the water engineering field with HR Wallingford and Wessex Water. He joined the ICE during that period, became chartered in 2006 and has remained a member since. Alfonso has worked in development projects in Guatemala and El Salvador as a volunteer. He is currently working with Spanish contractor Dragados as part of the hydraulic structures team, and has recently joined the Spanish National Committee on Large Dams as a full member. He has an active participation in ICE-Spain matters.

Sr Jose Cordovilla, ICE Representative Spain General News

1. Membership update

1. International Reviews

The 2010 round of Reviews began in January with the application deadline for our Indian and Trans Tasman candidates (as the Trans Tasman session moved from Autumn to Spring for the first time).



The **India Reviews** were held in Chennai in April, with a record number of 51 candidates, from 3 companies, including 2 individuals who applied via the Technical Report route, resulting in a pass rate of 71%. The session was ably conducted by a great team of Reviewers from across the UK, Sri Lanka, Malaysia, Bangladesh and India.

Besides the Reviews themselves, a busy week of meetings with local companies and briefings for future candidates was conducted by ICE

Professional Development Manager, Mike Rogers, and two evening seminars on areas of expertise were delivered by the Reviewers to around 100 engineers, excellently coordinated and hosted by Larsen and Toubro and the ICE Chennai Chapter.

The majority of our UK Reviewers also found themselves staying in Chennai longer than they had anticipated when the volcanic ash cloud caused flight cancellations across Europe. Our Admissions and Transfers Manager, Sheila Billett, worked around the clock to arrange their alternative flights and successfully returned them all home safely by the end of the following week!

The first **Trans Tasman** Spring Reviews took place in Sydney and Auckland. A total of 8 Reviews were held over April and May. An ad hoc Review session was also arranged in March in **Brunei** for 6 candidates, which was conducted by our Hong Kong Regional Manager and Singapore Representative - both fully trained Reviewers.

A one day Review session was arranged in London for 3 **Greece** candidates in May. All three candidates passed successfully, and their enthusiasm to encourage and support other Greece Graduate members to qualify is expected to lead to further Greece applications in 2011.

The 2010 deadline for all other international applications closed in the first week of June, and about 270 applications have been received. The vast majority of these will be invited to the **Hong Kong** Reviews session in September, with 9 candidates for **Shanghai** and 3 for **Dubai**.

2. Updates to the 3000 series – Revision A

The electronic versions of the **3000 series** have been updated. These are all downloadable from the website, and existing printed copies should no longer be used. Changes have been made to improve some references and to remove minor inconsistencies. There have been no changes to ICE's educational, training and Review standards (See enclosed document – Appendix A)

Revisions have also been made to the **Membership Guidance Notes** (MGNs) to take account of the updates within the ICE 3000 series. All MGNs are listed in **MGN 0**.

All **ICE forms** are regularly updated to reflect lessons learnt and improvements to ICE procedures. All ICE forms are listed in **MGN 2**. Please use and remind anyone who contacts you to download the current form from ICE's website. This will ensure that ICE obtains, in the first application, all the information it requires, and will speed up their application process.

3. Launch of new website – Membership section

ICE Membership is eagerly anticipating the launch of the new ICE website! The whole division has been working hard over the last few months to prepare the 140 or so pages that comprise the new Membership section.

Much of the information has been restructured and rewritten. In particular, there is a new Routes to Membership page which members and aspirant members should find helpful. ICE Representatives can also refer to this to respond to initial enquiries.

Your feedback and comments on the content and usefulness of these pages will assist us to continuously improve the advice and guidance we give to our members and aspirant members. Please encourage all enquirers to make use of this facility, and do send any feedback from yourself or others to ben.edwards@ice.org.uk

4. Academic Assessments online

Following the success of our online application processes for Student members, Graduate members and Fellows, ICE will be launching the online applications for academic assessment applications in September. This is an exciting development in particular for applicants from outside the UK, as the online process will reduce postage time and costs, and will ensure that all the required information is submitted first time (as missing information in the posted applications often causes delays).

5. Engineering Council Exams – Important news

The Engineering Council is withdrawing its Engineering Council examinations from 2011. For many years ICE has recommended the use of these exams as a means of fully or partially bridging the academic gap for candidates without the full academic benchmark

qualifications at either IEng or CEng level – particularly for applicants from outside the UK.

UK applicants will be advised to complete up to three final year (level 3) modules from a CEng level accredited BEng degree programme. The implications for non UK applicants for academic assessment are being considered by the Academic Qualifications Panel, and advice will be given to each applicant depending on their individual circumstances.

6. Fraudulent Qualifications

ICE's Education team have noticed that there has been a worrying rise in the number of candidates applying for academic assessment and career appraisal with fake qualifications.

One particular case has been referred by ICE to the UK police. The applicant, a member of another professional engineering institution, was found to have forged bachelors and masters degrees and a doctorate from a fake university. They had been working in the industry for a substantial number of years. Other cases have involved candidates with genuine qualifications at Bachelors level presenting a forged MSc in order to avoid the further learning requirement for CEng.

Using fake qualifications in this way can be defined in the UK as a crime of "fraud by false representation", whereby a person has committed an offence if they dishonestly make a false representation and intend, by making the representation to make a gain for himself or another, or cause loss to another or to expose another to risk of loss. Clearly gaining membership of ICE is likely to lead to a gain for an individual, and may well cause serious loss to any company employing an unqualified civil engineer. ICE will therefore refer fraudulent cases to the police, and is currently revising its policies and procedures for dealing with fake qualifications, with the intention of sharing this practice with other institutions.

As a Member, the most important thing you can do to help ICE is to make sure that you check the original degree certificates, when you are asked to confirm that the qualifications submitted to ICE are 'a true copy of this applicant's qualification'. While you may not know what a degree certificate from a given university looks

like, the genuine articles will have security features such as seals, holograms, watermarks etc.

However, it is important to note that the applicant may not always be acting dishonestly. The more sophisticated fake universities and degree mills will often mark students' work, assess dissertations and even recruit genuine academics. Rather than merely purchasing a degree, which does happen in many cases, some students may have acted in good faith but received a worthless degree.

If you have any concerns about qualifications you are asked to confirm you should contact aqp@ice.org.uk for advice.

7. Membership Seminars

Directly following the India Reviews in April, Mike Rogers was able to stop over in the **UAE** to meet with ICE's committee and deliver seminars for the local SCEs and Graduate members, ably arranged by Mark Jamieson. Mike will also be working with the UAE's new membership support coordinator in terms of the training and guidance she will provide for the region.

In February and March, Mike delivered two seminars via interwise/AT&T software in which all ICE Representatives were invited to participate.

The SCE seminar is downloadable via this link: <http://scenta.interwise.com/etechb/OnDemand/I3062/>

The Career Appraisal seminar is downloadable via this link: <http://scenta.interwise.com/etechb/OnDemand/XL3335/>

A pre-recorded Career Appraisal seminar will be published over the summer for use by Representatives and applicants. All ICE Representatives will be invited to future web-based briefing sessions and your participation will be welcomed.

8. Training Schemes and Training Agreements

ICE is seeing an increase in interest from international companies to establish ICE Approved Training Schemes. All Schemes must go through a formal approval process and

register qualified SCEs. This process is managed by ICE Professional Development Manager Mike Rogers.

Companies which already have a registered ICE Approved Training Scheme can sign up Graduate members to new Training Agreements or transfer them between offices - wherever they are in the world – provided the appropriate SCE support is put in place by the company. If you have any enquiries regarding Training Schemes and Training Agreements operating outside the UK please contact Mike Rogers - mike.rogers@ice.org.uk

9. Career Appraisals

Many civil engineers working outside the UK will not have the opportunity to register on a Training Agreement, or will already have gained sufficient professional experience.

The relevant guidance note on this is MGN 11. Recent updates to MGN 11 introduce a weight limit of 1kg for the Career Appraisal submission. Candidates are also now advised that the submission will not be returned to them after assessment. Candidates should therefore be reminded not to include original documents in their submission.

10. Continuing Professional Development (CPD)

All Members of ICE must complete regular CPD, and the monitoring of CPD records of professionally qualified Members will be introduced in 2011 through a random sampling process.

Templates for the Development Action Plan and Personal Development Record (DAP/PDR) are now contained in ICE 3190 which replaces MGN 39, and MyICE also has a facility for you to plan and record your CPD online.

ICE has recently changed the recording of CPD from days to effective learning hours – with guidance that six effective learning hours equates to one previous "CPD day". Please refer to ICE 3006A for more information.

If you have any questions or would like more information on any of the items above, please contact rebecca.webster@ice.org.uk

Rebecca Webster

International Membership Senior Executive

2. International Development

1. The Africa-UK Engineering for Development Partnership

The Africa-UK Engineering for Development Partnership brings together a consortium of public and private sector organisations from the UK, led by The Royal Academy of Engineering, the ICE and Engineers Against Poverty, with the African Engineers Forum. The South African Institution of Civil Engineering provides secretarial support to the AEF. The purpose of the Partnership is to strengthen networks of engineers across Africa, build the capacity of the African engineering profession and promote mutually beneficial links between engineers in the UK and Africa.

The Partnership was formally launched this year both in Africa at the March SAICE Indaba in Pretoria and in the UK in May, in the presence of the Rt. Hon Raila A Odinga, Prime Minister of Kenya. Following the Pretoria launch a workshop was held with representatives from AEF member institutions and UK partners, to discuss the issues affecting African engineering institutions and the development of engineering capacity.

Thanks to the support of the Anglo-American Group Foundation, the David and Elaine Potter Foundation and Schlumberger, the Partnership has begun a first phase of activities, planning for:

- A capacity building needs assessment survey, aimed at engineers, policy makers and community leaders. Results will help inform the workshop planning. The questionnaires will be going out shortly to a wide audience in Africa.
- 4 thematic workshops bringing together engineers and policy makers from across the continent – focusing on key topics including engineering curriculum and rural access.

The Partnership plans to expand on this initial phase with a larger, longer term capacity building programme.

We would much appreciate if ICE Representatives in Africa were to participate in this survey and assist us in disseminating the questionnaire to engineers, policy makers and community leaders within their contacts. Please contact Daphne Guthrie daphne.guthrie@ice.org.uk if you are interested in participating.

2. President's Apprentice Scheme 2009-2010

After attending Paul Jowitt's presidential address the Apprentices successfully completed the first workshop in London, during which industry specialists delivered intensive training on subjects including climate change, urbanisation, water & sanitation, sustainability, development financing and procurement.

In January the apprentices reconvened in Durban, South Africa for a second training session. Following on from the first workshop in London, the first three days in Durban were spent with local industry specialists to discuss topics such as the Millennium Development Goals and infrastructure delivery for capital projects.

The Apprentices also visited the recently completed Moses Mabhida 2010 World Cup Stadium to understand the participation of black owned businesses on a mega project. To observe how labour intensive delivery of expanded public works programme can contribute to local social and economic development, the group was taken onsite by the eThekweni (greater Durban) Metropolitan Council to secondary water mains replacement project - delivered through employment intensive works, using as many previously unemployed people as possible and supporting the development of small scale contractors. Finally the Apprentices visited the Zibambele programme, an initiative designed to create work opportunities for destitute citizens in rural areas by providing them with maintenance contracts on local roads.

A third workshop was held in May at the UNESCO headquarters in Paris. Professor Tony Marjoram, Head of Engineering Sciences at UNESCO, spoke to the Apprentices about the importance of making the case for engineering in international development at UN level.

The Apprentices have since been finalising method cards based on the workshop tutorials, under the supervision of Charles Ainger and Ron Watermeyer, technical editors of the scheme. These method cards will form an online toolkit '*An engineering project delivery plan for international development and the UN MDGs*' to be launched at the ICE on 19th October 2010. We would appreciate if you could help us disseminate this online resource by encouraging your contacts with an interest in international development - be it young engineers, academics, NGOs, etc - to trial and feedback on the toolkit.

For more information on the scheme or the toolkit, contact Daphne Guthrie
daphne.guthrie@ice.org.uk



Presidential Apprentices during a break at their workshop at the UNESCO Headquarters in Paris, together with President Paul Jowitt, Head Tutor Charles Ainger and UNESCO's Head of Engineering Sciences (far left)



The Apprentices during the site visit to eThekweni secondary water mains replacement project, observing how labour intensive delivery of public works supports the development of small scale contractors.

Daphne Guthrie, Manager, International Development

3. Website

ICE launches new website

Last month, ICE launched its eagerly anticipated [new website](#) that features a suite of enhanced features for members and a fresh new look.

Key features of the new website include:

- Clear navigation – helps you to find the information you need quickly and easily
- Vastly improved search engine – uses Google technology
- [Personalised content](#) – based on your location and professional interests
- [Events finder](#) – helps you to find events near home or work and gives you directions to venues
- [Online communities](#) – so you can share your experience and knowledge with colleagues around the world. We have already created specific geographic communities for Americas, Asia Pacific, Europe, Middle East and Africa
- [New ICE region and areas sections](#) – with filtered news and events listings
- Range of updated content – including new case studies, educational resources, and career development guidance

Personalise your content

To access information based on your personal preferences and interests, log in to MyICE using your existing pin as your new password. You can then update your contact details and personalise your experience across the entire ICE website.

If you haven't already registered with MyICE, [register now](#).

Let us know what you think

If you have any questions, feedback or suggestions about the new site, we'd love to hear from you at web.feedback@ice.org.uk

Mark Pesavento, Web Editor

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We very much look forward to hearing from you if you have any questions or comments.

We also welcome articles for the December 2010 edition of the newsletter.

Allyson Lewis July 2010