

*The President and Officers of CIOB Australasia wish our Members and their families and colleagues a Peaceful and Happy Christmas and end of year celebrations and a prosperous and successful New Year*

## CIOB Governance – Your Vote – Our Future

In March 2008 the CIOB will carry out its first election for Trustees to the new Board of Trustees. The election will be undertaken by post or online. Look out for further information on the CIOB website about the election procedures in the New Year. Every Corporate Member will receive a ballot paper with voting instructions.

**Make your voice heard; your vote is critical.**

**Shape your Institute as a Trustee**

Following Privy Council's decision to approve the necessary changes to the Governance of the CIOB; the Institute will be accepting applications to become a future Trustee from the end of November 2007.

CIOB Corporate Members (FCIOB and MCIOB) will be invited to apply for a Trustee position through a formal application procedure, which can be undertaken online or in hard copy.

To express an interest and to ensure that you receive an application pack and further information as soon as it is available, please email Samantha Hawkes, Deputy Institute Secretary, at [shawkes@ciob.org.uk](mailto:shawkes@ciob.org.uk).

Further information will be available from the CIOB website in late November.

## CIOB Annual Review 2006

**Today's vision. Tomorrow's future.**

The CIOB Annual Review 2006 charts the Institute's activities and achievements over the year, highlighting our responsibility of providing a safe and sustainable built environment for the benefit of all, as dictated by our Royal Charter.

Divided into sections that clearly demonstrate our activities within this public benefit context, this review highlights our vision, policies and initiatives that have allowed us to maintain our status as the most influential global representative body for leaders in the construction industry.

Our increasingly rich diversity of membership, links with a number of influential global partner organisations and initiatives, and dynamic strategy at an operational level show the CIOB as evolving to help tackle the challenges of forming a new and modern environment for future generations.

The online version, ( see [http://www.ciob.org.uk/news/annual\\_review](http://www.ciob.org.uk/news/annual_review) ) of the report is split into two sections:

- 1. President's Foreword**  
**Chief Executives Report (including member profiles)**
- 2. Summary of Accounts**  
**Benevolent Fund Report**  
**The Officers**  
**CIOB World Presence**  
**CIOB Partners**

To obtain hard copies of the report, please contact Tom Hastings, CIOB publications manager, at [thastings@ciob.org.uk](mailto:thastings@ciob.org.uk).

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# CIOB Members Can Equal Green Leaders.

CIOB UK, June 18, 2007

Membership of the Society of the Environment signifies a commitment to environmental best practice and awareness. Stephen Wielebski CIOB fellow, Chartered Environmentalist and CIOB/SocEnv Assessor explains how important membership of the Society is to CIOB members in creating a sustainable future...

The very nature of our professional role as CIOB members brings us into direct contact with the environment. From first concept to the commissioning of a new building or the handover of a new home, respect for and management of the environment and our natural resources permeates every aspect of the decisions that we make, be they corporate, technical or managerial.

Moreover, the diversity associated with the construction process and the wide ranging experience held by a considerable number of the Institute's chartered members places us in a unique position to be a leading voice in terms of tackling the 'climate change agenda'. A number of members will have had the benefit of including the study of materials and environmental science as part of their academic training.

From my own personal experiences this has been an invaluable part of the CIOB's commitment to ensure that our training and approach to CPD is targeted towards the needs of a modern and evolving construction industry. Furthermore, fellows and members should not under-estimate the contribution that they in turn can make in respect of sustainable development/construction.

There are many more reasons why chartered members of the CIOB should seek to become members of the Society for the Environment. They are perhaps too many to record in this short article but one thing is almost certain; respect and care for the environment and the pursuit of sustainable development could conceivably be labelled the next 'mini' industrial revolution.

CIOB members have the necessary credentials to play an active part in shaping the future. The opportunity should be grasped. During the past nine months, several of our members have applied for membership of the Society and have been

## Editorial

This edition of our newsletter coincides with federal elections in Australia, but we are staying well away from politics!

We include a schedule of the officers of the CIOB Australasia Regional Council for members to see where they might take part in our activities after the encouragements of our President, Patrick Weaver. See opposite.

Your comments and suggestions for CIOB Australasia programmes and this newsletter are welcome.

The Editor

**Notice:** Facts and opinions expressed in this publication are those of the authors of the articles. They may not be the official position of CIOB on any given matter.



accepted.

Moreover, it has been a privilege to be one of two CIOB/SocEnv appointed assessors that have recommended a significant number of our fellows and members to become Chartered Environmentalists.

The process is simple, if you are a fellow or a member do apply and if you need any guidance do not hesitate to contact Hilary Brown CIOB head of member and business development at [hbrown@ciob.org.uk](mailto:hbrown@ciob.org.uk).

## Become a Chartered Environmentalist

From 1 October 2006 Members (MCIOB) and Fellows (FCIOB) working in the field of the environment have been able to apply to become Chartered Environmentalists. Applicants should complete a personal statement and email this to [environment@ciob.org.uk](mailto:environment@ciob.org.uk) together with a current

job description, full CV, CPD record for the past 2 years and CPD plan for the next year.

A hard copy of the 'application for registration as a Chartered Environmentalist' together with the assessment fee, SocEnv membership subscription and registration fee should be sent to The Finance Department, CIOB, Englemere, Kings Ride, Ascot, Berkshire, SL5 7TB.

The assessment fee is £50.00 and the current annual SocEnv subscription and registration fee is £50.00.

Your application will be emailed to a CIOB/SocEnv assessor for approval.

Please be aware that the grand-parenting process ends on 30 September 2007. After this date applicants may be required to undertake an interview.

Membership of the Society of the Environment signifies a commitment to environmental best practice and awareness. It establishes proven knowledge, experience and commitment to professional standards, and enhances employability. The Chartered Environmentalist is drawn from no one profession, but across industry, government, education and the public sector.

We congratulate Chris Chainey FCIOB, MAIB, MRICS, CIOB Australasia Regional VicePresident and Queensland Centre Chair, on becoming a Chartered Environmentalist following approval in October 2007 by the assessment panel for the Society of the Environment of his application.

## Ecobuild 2008 — zero carbon in a day

Friday, November 09, 2007

Ecobuild, of which CIOB are a headline supporter, returns to Earls Court next February, double the size with more than twice the number of exhibitors, more free seminars (there were 60 in 2007, there will be over 75 next year) and a whole

you'll get an impressive condensed zero carbon education in a day.

And that's not all, not by a long, long way. If water management is top of your agenda, be sure to visit SoH2O Ecobuild's integrated water management installation. Micro-renewables?



series of impressive attractions linked to the key themes - zero carbon, water management and renewable energy.

With zero carbon legislation looming, Ecobuild's *Road to zero carbon* and *Zero carbon house* attractions will be crowd-pullers and particularly interesting ones too. The *Road to zero carbon* - realised as a series of external wall elevations - shows how different combinations of superstructure, insulation and cladding can contribute to a low carbon outcome.

But it's the Zero carbon house by Zedfactory that will be the star of the show, for the wealth of information that this full-size structure will convey and for its sheer scale and ambition. Ecobuild's organisers will take just three days to build the house before opening it to visitors on 26 February. Team these attractions with the dedicated zero carbon seminar series and

Don't miss Solar city. If you're looking for more sustainable construction methods and materials, head for Natural materials live. What about the up and coming eco-entrepreneurs? See what's going on in Green Shoots. Just like the

*continued on page 4*

## Apology.

In the photograph on page 1 of our August 2007 issue of 'contact' (No12), Mr. Dato' Michael K C Yam, now Immediate Past President of CIOB Malaysia was wrongly named as Mr. Isacc Sunder Rajan, who is the current President.

We apologise for this error.

# President's Column

Another year is fast approaching its end; one wonders where the time has gone! Our industry remains as busy as ever with cost pressures and skills shortages particularly impacting major construction and engineering works and, regardless of who wins the Australian federal election, the likelihood of major investments in infrastructure works from the next government.

With all of this professional activity, I really appreciate the efforts of our Centre Committees and Chairs in creating the capability for CIOB Australasia to be relevant and offer effective programs to its members, spread from Auckland to Perth. The major thrust of my Presidency has been to create a dynamic and effective federal structure focused on the Centres, so that CIOB Australasia can be equally effective for the different construction industries throughout our region.

Grand ideas are fine but they would be impossible to implement without the support of our volunteers at each of the Centres. I would encourage each and every CIOB Australasia member to get in touch with your local Centre and offer them your support and encouragement. Our aim is to customise and deliver locally the type of events appreciated and needed by the membership and colleagues there. To an increasing extent, the type and number of CIOB Australasia events offered in each of the Centres will be influenced by how well they are supported by the local membership.

This focus on the Centres has been supported by a gradual evolution in the structure of our Regional management team. Jodie Richards-McCabe our Branch Administrator, has taken on the role of Events Coordinator, working with each



of the Centre Committees to deliver a steady stream of events (we are targeting 4 per Centre for 2008 with a few extras in locations such as Newcastle and Christchurch, outside the primary locations). This teamwork between Jodie and the Centre Committees is delivering real benefits to members and the industry and is a model we hope to expand.

Subject to final budgetary approvals, we are planning to engage a second Branch Administration Assistant in 2008, to focus exclusively on supporting and processing membership applications. Once this post is filled, we should be able to leverage from the greater interest created by events and the increasing effectiveness of our Centre Committees, to accelerate membership growth through 2008.

One of the business planning requirements that all CIOB Branches and Regions are required to undertake is to define a set of KPIs to measure their 'performance'. Our Regional Manager, Liz Thomas and I believe at this stage of CIOB Australasia's development, that membership growth is the key measure of success and should be the key KPI and focus for 2008.

Having mentioned budgets and planning, we are awaiting approvals from CIOB HQ at Englemere, for our business plan and budget for 2008 together with the final draft of our new constitution. The budgets and business plans will be approved in the next couple of weeks and the new Constitution should be available for consideration by all members early in 2008. One important point to note is that the 2008 budget will still be in deficit and we appreciate the support of CIOB International as we continue to develop our Region. The challenge facing our new president and committees following the 2008 AGM in May 2008, will be to drive CIOB Australasia membership from the benchmark level of 500 towards the 1000 level needed to make us financially self supporting.

In closing, may I firstly acknowledge the support of our professional management team, Regional Council officers and Centre Committees throughout 2007, with a special thank you to our Newsletter Editor, Gerald di Corpo. May I also take this opportunity to wish you, your colleagues and your families a happy peaceful Christmas and every success in 2008.

**Patrick Weaver**  
President, CIOB Australasia

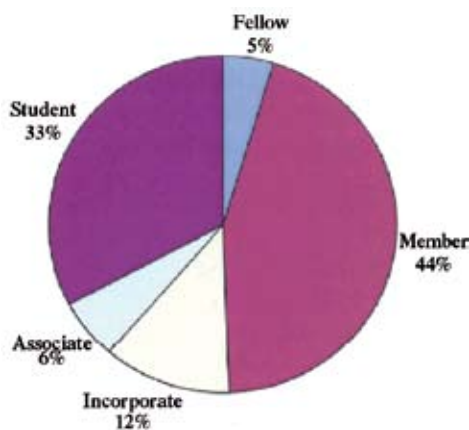
## CIOB Membership Growth in Our Region

Total membership in Australasia, China, Hong Kong, Malaysia and Singapore, has grown by more than eight per cent over the past year and now totals 4,850, as at the beginning of September 2007.

The pie chart shows the proportions of membership, from Fellows, to Students.

The highest annual growth was in Singapore at over seventeen per cent, followed by Malaysia, nearly sixteen percent and Australasia at fourteen per cent.

We look forward to continued growth in this dynamic part of the construction world.



## 1 Equals 2 .... When Nothing Equals Something

At 90 years of age Leonid Hurwicz, together with Eric Maskin and Roger Myerson won this year's Nobel Prize in economics. The Economist magazine describes Mr Hurwicz's theories as having "deployed some very elegant mathematics".

Beginners' algebra some decades ago included:

$$(a + b) \times (a - b) = a^2 + ab - ba - b^2, \text{ which may be written } a^2 + (ab - ab) - b^2, \text{ and so: } (a + b) \times (a - b) = a^2 - b^2.$$

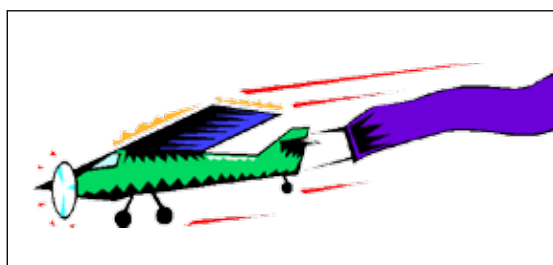
Much school-day pleasure was had in the further development:

If  $a = b$ , then  $a^2 - a^2 = (a + a) \times (a - a)$ . This may be written:  $a \times (a - a) = (a + a) \times (a - a)$ .

If we cancel  $(a - a)$  on both sides of the equation,  $a \times (a - a) = (a + a) \times (a - a)$

Then  $a = (a + a)$  and, if  $a = 1$ , then  $1 = 2$ .

In spite of the very basic algebra in this conundrum, few people are able to explain it quickly when asked. See the sequel to this on page 9, but before doing so give it some serious consideration.



**Advertise in  
contact Australasia.  
Please call the Sydney  
office for rates and  
details**

# CIOB 2007 Research Awards

By Willy Sher FCIQB

This year saw a considerable increase in the number of submissions for CIOB Australasia's annual Research Awards. These awards are intended to:

- develop the research profile of Australasian academics active in the fields of Building and / or Construction Management,
- increase the exposure and profile of the CIOB among Australasian Building / Construction Management academics,
- enhance the interaction, collaboration and support between CIOB Australasia and the universities in this region.

Eleven applications were received, covering a wide range of topics. The adjudicating panel

was pleased to note the rigour adopted by the applicants as well as their novel selection of topics. The panel had a challenging time deciding who should receive the awards. After considerable deliberation, the awards were decided as follows:

- 1 Smart Construction Site: Increasing awareness of construction assets, by Xiangyu Wang, Early Career Researcher, Sydney University.
- 2 Industrial Investigation to Evaluate a Prototype Semantic Blogging System for Construction Organisations, by Cynthia Changxin Wang and Igor Hawryszkiewicz, Research team, University of Technology, Sydney.

Willy Sher is a member of the CIOB Australasia Education Committee.



Research winners (L-R): Igor Hawryszkiewicz and Cynthia Changxin Wang and (Far R) Xiangyu Wang, with Nick Birbara (CIOB NSW Centre Chairman) who presented

## 2008 Queen Elizabeth II Jubilee Fund Scholars Sought.

CIOB Scholarships will be available for students enrolled on a CIOB or AIB accredited construction related course at Bachelors or taught Masters Level at universities or educational establishments. The Fund provides financial support during the final year of a degree or masters programme for students who have shown potential during the early part of their studies. A requirement of each scholarship is that the recipient and the host institution agree to undertake and submit to the CIOB, for possible publication, a major piece of work undertaken as part of the programme of studies, during the final year. The scholarship does not require the recipient to carry out work over and above that required to attain their degree award.

The value of individual scholarships awarded will vary according to the circumstances of each applicant and may be paid in phases. The scholarships will be tenable at any CIOB or AIB accredited university/educational institution for students enrolled on a CIOB or AIB accredited construction related discipline, at Bachelors or taught Masters level, leading to the award of a university degree.

Please download a copy of the Award Conditions and Selection Procedures as well as an Application Form via the CIOB website: <http://www.ciob.org.uk/events/jubileefund>. The closing date for 2008 scholarship applications is 30 March 2008.

For further information regarding scholarships please contact Elizabeth Thomas at our Sydney office or Sue Dennison, Scholarship Secretary directly via e-mail: [sdennison@ciob.org.uk](mailto:sdennison@ciob.org.uk)

Please feel free to inform any construction students that you believe may be interested in applying. Should they need to complete a CIOB student membership application form please have them contact our office or have them download and complete their free student membership application form via our website: <http://www.ciob.org.au/membership>

## Ecobuild 2008 — zero carbon in a day

continued from page 2

zero carbon attractions, they all have dedicated seminars to provide more formal learning alongside the hands-on experience.

All the attractions and seminars take place on the exhibition floor, which makes it convenient to combine seminars and attractions with the relevant products and services from Ecobuild's 500-strong exhibitors. For ease of navigation, the Ecobuild website [www.ecobuild.co.uk](http://www.ecobuild.co.uk) provides DIY 'tours' of the key themes, listing all the exhibitors, seminars, conference sessions,

attractions and special events relevant to that theme.

Look out also for the political keynotes - Yvette Cooper MP, Minister for Housing will be speaking - and the debates and discussions featuring well-known names such as Janet Street-Porter and Wayne Hemingway certain to give a lively and spontaneous edge to your Ecobuild experience.

Ecobuild takes place on 26 - 28 February 2008. Entry to Ecobuild and all its attractions, seminars and keynotes is free.

Register at [www.ecobuild.co.uk](http://www.ecobuild.co.uk)



Discounted rates apply to members of CIOB Australasia  
 1 day course \$620 + GST 2 day course \$1010 + GST  
 Further discounts apply for multiple registrations.  
 Registration conditions apply, visit [www.ccintl.com.au](http://www.ccintl.com.au) for details  
 Two day courses provide 16 hours (8 hours for a one day course) of Continuing Professional Development (CPD) under Engineers Australia's CPD Guidelines  
 All CCI courses can be customised for in-house courses

### CONTRACT CONTROL INTERNATIONAL (CCI) Public Training Program November 2007 — March 2008

NOVEMBER	7 - 8	Brisbane	Contract Supervisor's & Inspector's Course
	13 - 14	Hobart	Contract Administration - Works
	15 - 16	Hobart	Contract Management for Superintendents
	21 - 22	Brisbane	Contract Administration - Works
	23	Brisbane	Preparing Scopes of Work & Specifications
NOVEMBER	27 - 28	Townsville	Contract Management for Superintendents
	29	Townsville	Preparing Scopes of Work & Specifications
DECEMBER	4 - 5	Melbourne	Advanced Contract Management for Superintendents
	6 - 7	Melbourne	Negotiation Skills for Contract Managers Workshop
FEBRUARY	25 - 26	Brisbane	Contract Administration - Works
	27	Brisbane	Preparing Scopes of Work & Specifications
	28 - 29	Brisbane	Tender Administration
MARCH	4 - 5	Sydney	Contract Administration - Works
	6	Sydney	Preparing Scopes of Work & Specifications
	11 - 12	Townsville	Contract Administration - Works
	13	Townsville	Preparing Scopes of Work & Specifications
	13 - 14	Brisbane	Negotiation Skills for Contract Managers Workshop
	18 - 19	Melbourne	Contract Administration - Works
	20	Melbourne	Preparing Scopes of Work & Specifications

P: (07) 3236 1936

[www.ccintl.com.au](http://www.ccintl.com.au)

E: [reception@ccintl.com.au](mailto:reception@ccintl.com.au)

# Construction for Developing Communities

A Report by Dr Grace Ding on the Study Tour by UTS to Fiji in 2007

In Spring 2007, the Bachelor of Construction course at the Faculty of Design, Architecture and Building, University of Technology Sydney, offered a new elective entitled "Construction for Developing Communities". The subject is administered by the School of the Built Environment in the Faculty and is open to all students within the university. It consists of some theory work and hands-on experience working in a developing community and forms one subject in the Project Management sub-major.

This year the opportunity was taken to work with the NGO "Habitat for Humanity" on a project on the outskirts of Suva in Fiji and Dr Kevan Heathcote and Gregory Moor took 28 students there in early October. Those undertaking the course included fifteen Construction students, nine Property Economics students, three Architecture students and one Science student. A third of them were female. The students spent one week working on the construction of a timber framed house and on the construction of a large set of concrete steps leading to a new church. The majority of the students lived with two local families during their stay whilst the remaining students were accommodated in the church.

Hard work by the students and staff saw the house being completed to lock-up stage at the end of five days, despite some problems with



availability of materials. The Construction students led the work but all students participated in one way or another, learning new skills in the process. The concrete steps were not planned as part of the original project but arose out of a request from the local church community, who had been waiting for three years for the steps to be built and who were delighted by the final result.

Although tired from a hard week's work, the feedback from all the students was extremely

positive, and a reunion to relive experiences is already being planned.

The course project next year is being planned for Thailand.



CORRUPTION RUINS LIVES. FIGHT BACK.



All information below is taken, without alteration, from <http://www.transparency.org/>

Transparency International seeks to provide reliable quantitative diagnostic tools regarding levels of transparency and corruption at the global and local levels.

The annual TI [Corruption Perceptions Index \(CPI\)](#), first released in 1995, is the best known of TI's tools. It has been widely credited with putting TI and the issue of corruption on the international policy agenda. The CPI ranks more than 150 countries by their perceived levels of corruption, as determined by expert assessments and opinion surveys.

In recent years, TI has sought to develop other corruption measurement tools to complement the CPI. The [Bribe Payers' Index \(BPI\)](#) assesses the supply side of corruption and ranks corruption by source country and industry sector. The [Global Corruption Barometer \(GCB\)](#) is a public opinion survey that assesses the general public's perception and experience of corruption in more than 60 countries.

In parallel to these global indices and surveys, TI national chapters have engaged in a number of innovative efforts to measure corruption, transparency and governance, often combining objective and subjective data in their analyses. This section of the TI website also provides a platform for these valuable regional, national and local initiatives.

## 2007 Transparency International Corruption Perceptions Index

Transparency International commissioned Prof. Dr J. Graf Lambsdorff of the University of Passau to produce the CPI table. For information on data and methodology, please consult the frequently asked questions and the CPI methodology: [www.transparency.org/surveys/#cpi](http://www.transparency.org/surveys/#cpi) or [www.icgg.org](http://www.icgg.org)

A country or territory's CPI Score indicates the degree of public sector corruption as perceived by business people and country analysts, and ranges 10 (highly clean) and 0 (highly corrupt).

[Note: The following table is an extract only]

### Explanatory notes:

\***Confidence range** provides a range of possible values of the CPI score. This reflects how a country's score may vary, depending on measurement precision. Nominally, with 5 percent probability the score is above this range and with another 5 percent it is below. However, particularly when only few sources are available, an unbiased estimate of the mean coverage probability is lower than the nominal value of 90%.

\*\***Surveys used** refers to the number of surveys that assessed a country's performance. 14 surveys and expert assessments were used and at least 3 were required for a country to be included in the CPI.

Country Rank	Country /Territory	CPI Score 2007	Confidence Intervals*	Surveys Used**
1	New Zealand	9.4	9.2 - 9.6	6
1	Denmark	9.4	9.2 - 9.6	6
1	Finland	9.4	9.2 - 9.6	6
4	Singapore	9.3	9.0 - 9.5	9
4	Sweden	9.3	9.1 - 9.4	6
9	Canada	8.7	8.3 - 9.1	6
11	Australia	8.6	8.1 - 9.0	9
12	United Kingdom	8.4	7.9 - 8.9	6
14	Hong Kong	8.3	7.6 - 8.8	5
17	Japan	7.5	7.1-8.1	8
20	USA	7.2	6.5 - 7.6	8
34	United Arab Emirates	5.7	4.8-6.5	5
41	Italy	5.2	4.7-5.76	6
43	Malaysia	5.1	4.5-5.7	9
72	China	3.5	3.0-4.2	9
72	India	3.5	3.3-3.7	10
123	Timor Leste	2.6	2.5-2.6	3
143	Indonesia	2.3	2.1-2.4	11
162	Papua New Guinea	2.0	1.7-2.3	6
172	Afghanistan	1.8	1.4-2.1	4
178	Iraq	1.5	1.3-1.7	4

# Industrial Disease

By Nick Birbara

A recent article in the Sydney Morning Herald has highlighted the dangers of prolonged exposure to chemicals and other hazardous substances used in various occupations (*"Workplace Cancer a Hidden Toll"*, SMH, 23/10/07, p. 4). For example, workers in plastics manufacture were exposed to benzene which had a long term impact on their health.

If we consider the construction industry, it is always right up there on the list of industries with high injury rates. But is construction work bad for your health? Let's consider the "H" word in OH&S

Most of the obvious risks can be handled using PPE eg. goggles, dust masks, ear plugs - and these have been readily accepted and used by workers doing say, welding or dusty and

noisy jobs. However the same can't be said for protection against UV exposure, a real health risk in our sunburnt country. As most construction work is done outdoors (at least until the roof goes on) the risk of contracting skin cancer from prolonged exposure is high. Workers will usually wear a hat and shirt but on a hot day these may be removed or only short sleeves worn, meaning that sun cream becomes the only line of defence against the sun's rays.

Sun cream can get missed for a whole range of reasons - it usually has to be bought separately from other supplies and is often mislaid or not available in the very area in which work is being done. Behavioural incentives or cues to use sun cream can be effective in improving its usage. For example on a recent visit to the Safety Show at Sydney Olympic Park we saw some washroom

systems which incorporated sun cream into multi-liquid trigger dispensers. As the workers wash or clean up they can access sun cream as well as hand cleaners or soap. Also small wipe-on packs of sun cream are simple and easy to distribute to each worker and can be applied wherever they are working - whether at the top of a crane or down in a basement.

Perhaps these methods will give incentive to workers to look after their skin and to prevent skin cancer becoming the industrial disease of construction.

To quote from the movie Ronin (1998): Spence: "Are you just trying to save your own skin?" Sam: "Yeah - it covers my body".

Nick Birbara is CIOB Australasia NSW Centre Chair.

## Australian experts build world's tallest tower

CONSTRUCTING the world's tallest building has its challenges, not the least of which is the difficulty of getting it up straight. Wind, crane loads and the construction sequence all tend to pull the building off centre. Then there is the added problem that you do not even have a good sighting down to the ground. Australian surveyors employed on the 160-floor-plus Burj Dubai tower being built in the United Arab Emirates have had to discard many of the conventional set-out practices in favour of entirely new techniques based on GPS (Global Positioning System) and precise tilt measurement.

Burj Dubai project surveyor Ian Sparks of Sydney worked with Australians Doug Hayes (chief surveyor) and Hamish Roberts (senior surveyor), in conjunction with Joel Van Cranenbroek of Leica. They devised solutions that did not depend on traditional building survey methods. Sparks is a veteran of Malaysia's Petronas Twin Towers project, which took the world's tallest building title when completed in 1998. The Australians are under contract to Samsung Engineering, which was awarded the construction contract for Tower 2 and the Skybridge on Petronas and is now the major partner in the joint venture that is constructing the Burj Dubai.

Eighteen levels of the Burj Dubai tower had been constructed by December 2005 and the residential, hotel, commercial and retail complex will be completed in 2008. Like all very tall towers, the reinforced concrete Burj Dubai, expected to rise to over 800m, will move as loadings are applied to it. For its height it will nevertheless be a very stiff building. Engineers estimate that in a one-in-50-year storm event, the top of the tower will sway by just over a metre.

This stability is partly due to its "tripod" construction. The building core has three nesting components angled at 120 degrees to each other. The three wings that radiate from this core will be progressively stepped back as the building rises. Using conventional survey techniques, about 200 control points would be required to set up form work at each level - an impractical number. Instead, the surveying team decided to bring control to the top of the building. This brought its own problems. Six stable survey reference points were established around the site as primary benchmarks, but the surveyors realised that these would be of limited use as the building got higher. With haze and dust in the air,

instrument visibility is less than 500m and there is no clear sighting to the base of the tower. And there are no other really tall buildings nearby to use as reference points.

"Because of these difficulties, we decided to establish position using GPS. This has been refined a lot in recent years and now provides very good results at the millimetre level of accuracy," says Sparks. Rather than employ a lone GPS receiver that produces single point positioning, the survey team set up a base station nearby with accurately-known coordinates. The resulting differential positioning allows the GPS receivers at the top of the tower to obtain a much more precise reading. Real Time Kinematics (RTK) are used to obtain a GPS figure that is updated every fraction of a second, to an accuracy level of 10 mm in the horizontal x-y axis for most of the day and 20 mm accuracy in the z vertical axis.

With the building structure moving under crane loads, vibrations and the concrete pour sequence, the position of a single receiver would be far from stable. So four antennae were set up on different corners at the top of the structure, with the total station TPS 1201 located in the centre. "This solution, developed in conjunction with Leica, is giving us a much better result in field tests," explains Sparks.

One question remained - how much does the

tower tilt away from the theoretical control line at the building centre? As well as wind and crane loads, other factors that can cause deviation include settling of the base raft and uneven shrinkage of the "green" concrete as it dries. The survey team decided to use a Nivel tilt meter to give a very precise reading of offset from the design centre. "The meter is extremely sensitive. At the top of an 800m building it will be able to pick up an offset of just two millimetres from the centre," says Sparks. With no mechanical parts, the tilt meter relies on electronic detection of changes in the surface of a liquid. The Walkman-sized instrument will be fixed about 10 levels below the formwork on the rising structure.

"We can never achieve the ideal of the building going up perfectly straight," says Sparks. "The settling of the building raft and piles, uneven concrete shrinkage and creep, and normal construction tolerances all lead to deviation and require correction. The first reaction of the engineers is 'the surveyors must be wrong!', but we're not. We've got good data to support our conclusions." Sparks says the techniques are applicable to Australian buildings. As higher towers are erected here, surveyors and engineers will need to start considering GPS solutions to solve similar kinds of measurement problems.

Source: *Construction Contractor* and *"Infolink.com.au"*

## Code deals Blow to Renewable Energy

From **Construction Manager Magazine (CIOB UK)**, Tuesday, November 06, 2007

**In October, the government's communities department published guidance on the Code for Sustainable Homes.**

And many were shocked to see that to achieve zero carbon status, off-site renewable energy will not be eligible unless it is connected to the home by a private wire arrangement. And it looks like the stamp duty exemption for zero carbon homes will also use this definition.

Sustainability experts say this move will deter volume house-builders from pursuing zero carbon developments.

The CIOB's Fiona Davies said in the longer term the institute believes that account should also be taken of embodied energy of

materials and carbon emissions associated with household behaviour - you could live in a zero carbon home and drive a gas guzzler for an hour to get to your office, for instance - rather than focusing entirely on the fabric of the building. Davies points out that the Code for Sustainable Homes' definition of zero carbon is where 'net carbon dioxide emissions resulting from ALL energy used in the dwelling are zero or better'.

'The real issue is much bigger than the definition of zero carbon homes, which focuses entirely on the fabric of the building,' said Davies. 'The CIOB believes there should be much greater emphasis on the decarbonisation of energy supply. If this can be achieved, decarbonisation of all building stock will follow, as the industry moves to innovate and respond to the changing market.'

## Profile:

# Dr Grace Kam Chun Ding

**Course Director, Bachelor of Construction, School of the Built Environment Faculty of Design, Architecture and Building, University of Technology, Sydney**

Grace began her tertiary technical education in 1984 at the Honk Kong Polytechnic, HK. From there she studied at the University of Ulster, Northern Ireland where she achieved a BSc in Quantity Surveying (with Commendation). This was followed by the University of Salford, outer Manchester, UK. She obtained her MSc by Research there, the research topic being "The Economic Development of the Chinese Construction Industry 1965 – 1990". She then went on to achieve her doctorate in 2004 at the University of Technology, Sydney. The research topic was: "The development of a multi-criteria approach for the measurement of sustainable performance for built projects and facilities". Her PhD thesis involved research on the measurement of environmental values and its incorporation into project appraisal. Through her PhD research she has investigated new techniques in project appraisal which have wide-ranging implications for sustainable construction in the future.

"contact Australasia" asked Dr Ding to reply to a number of questions:

Q: When did you learn to speak English? How did you get on with the strong accents in Ireland and Northern England and finally Australia?

A: I learned to speak and to write English when I was in the primary school in Hong Kong. However, like most of the students in Hong Kong, I really conversed in English only when I was at university in the UK. The strong accent in Ireland was the first hurdle that I had to overcome as an overseas student. Every day after classes I would force myself to listen to the radio to improve my listening ability in English. After about a couple of weeks I had no more trouble with the accent. I did not experience any difficulties with the accent in Australia at all.

Q: Did you have any working periods between the phases of your studies? Has your work always been only in construction related activities?

A: Shortly after I graduated from Ulster University, I went to London and worked for Stanley Griffith & Partners, UK for about a year, then for A. L. Currie & Brown, UK until I migrated to Australia in 1994. This was in parallel with my studies at Salford as a part time student in the masters program. In Sydney I worked for Page Kirkland Partnership for about a year before I took up the position in lecturing at the University of Technology Sydney, at the same time studying for my PhD. My professional activities have always been construction related.

Q: What are the most striking things that remain in your thoughts of these varying cultures and educational environments?

A: It was wonderful experience for me to study overseas, socialising with students from around the world in different environments where I had to learn to look after myself. I had the opportunity to try out different kinds of food and to learn something of other foreign languages after classes. I was once invited to dinner with by group of overseas students on campus. On my arrival, I realised that no cutlery was provided and that everyone was eating with their hands..... it was an Indian cuisine! In my final year in the UK I was married. The wedding was organised with the help of my fellow students and the university



Dr Grace DING. BSc.; MSc.; PhD; MRICS; AAIQS; MCIQB.

academic staff and members of the local church and its community. The local people brought along flowers from their gardens to decorate the church hall and cakes to the wedding reception. It was an amazing wedding. The local newspaper even reported the wedding photographs!

Q: In 2006 you visited China and gave presentations to the staff and post-graduate students of Tianjin University of Technology on "Green buildings and environmental building performance evaluation methods to promote sustainability in the built environment". How did they receive your presentation? Did you feel that your advice would be used directly in their work, or were there any major differences with economic and the cultural environment there that would limit such use?

A: I have long held a passion for sustainability in the construction industry and one of the purposes of my visit to Tianjin was to promote sustainability in the built environment there. My presentation was very well received. Environmental building performance assessment in China is still a relatively new science and the presentation provided them with an insight into the engagement of such activities around the world as well as the benefits of 'green buildings' to the environment. Since my visit I have had further opportunities to work with them on research projects such as life cycle energy analysis and environmental performance of residential developments. I will be going back to Beijing and Tianjin next year to undertake more research activities with them in sustainability. There are no economic and cultural differences that would limit techniques of sustainability. China is the fourth largest country in the world and presently the second largest greenhouse gas emitter. It will probably be the largest emitter within the next couple of decades. The environmental degradation there has placed ecologically sustainable development as one of the highest priorities of the government's agenda.

Q: Do you want to stay in the academic environment for the foreseeable future or do

you have plans to move into the commercial world? Do you expect to continue to move from country to country as you have done during your education and training years?

A: I like working in academia very much and I think I will stay on until I retire. I am not completely separated from the commercial world, however. I have my own private practice in Sydney which provides me with direct connection to industry and commerce. As an academic I believe that it is important to be up-to-date with the technology as well as aware of the changes in the construction industry. I will certainly continue to travel to different countries to present my ideas on sustainability as well as to undertake research projects in collaboration with universities overseas.

Q: A few decades ago construction sites were typically mud and rubbish heaps with scaffolding and 'gear' strewn everywhere. Site workers were expected to be rough and ready. Now sites are often pristine with workers fitted out with clean tunics and highly sophisticated equipment. What major changes do you see occurring in the construction industry over the forthcoming decades?

A: The construction industry will no longer be just undertaking activities in the conventional way but will adopt a more sustainable approach. Construction has been accused of causing environmental problems ranging from excessive consumption of global resources, both in terms of the construction itself and of the operation of the building, to the pollution of the surrounding environment. Sustainable construction design and methods are considered as ways for the construction industry to contribute to the larger effort of achieving sustainable development generally. Building regulations and laws should become tougher to ensure that construction activities do not continue to harm the environment. Green design and construction will increase in importance over the forthcoming decades.

For details of Dr Grace Ding's publications go to:

<http://datasearch.uts.edu.au/dab/staff/built-environment/details.cfm?StaffId=2146>

Finally, we quote Diana, a past student of Dr Grace Ding at UTS:

*"I did learn a lot about sustainability from the Advanced Project Evaluation subject. I have currently started a new role as a Design Manager and my first project is to work on the design of a 5 star rated building where I have to work closely with ABGR and Greenstar requirements. Your class taught me things about sustainability that I was not aware of and the different types of green rating systems in this industry world wide. The importance of sustainability can help the day to day way of life not only in the short term but more importantly in the future. We need to fix things now in order to make the world a better place for our children and grandchildren. It will definitely help me with my new role as I already have a fundamental understanding of the requirements and ratings thanks to your subject."*

We wish Dr Grace Ding every success in her career.

# Olympics deals get closer

From Construction Manager Magazine (CIOB UK), Tuesday, November 06, 2007

Rising costs and contractors with cold feet dominate recent news on the 2012 Olympics programme.

Design alterations have continued to plague the Aquatics Centre as project insiders revealed that the distinctive wave-form roof, designed by architect Zaha Hadid, will probably be built using glulam beams instead of steel to cut costs. Hadid already redesigned the roof in November 2006 due to budget restrictions, reducing its size by almost a third.

The Olympic Delivery Authority's (ODA) problems are compounded by the fact that just one bidder Balfour Beatty now remains after Hochtief and Eiffel pulled out in early October. You can see why steel contractor Eiffel didn't like the timber option. Balfour Beatty was due to put in its price in early November and it's sure to bust the ODA's budget.

Asked whether it was prepared for Balfour Beatty pulling out of the bidding, ODA said it had a plan B. This could mean construction managing the project itself, or Laing O'Rourke, part of the ODA's delivery partner CLM, could step into the brink as a last resort.

Meanwhile, perhaps attempting to dampen concerns over progress, ODA chief David Higgins said work on the main stadium previously slated to begin in the middle of next summer could start up to five months ahead of schedule, in



early March 2008, because faster-than-expected progress had been made finalising the design and clearing the site. Designs for the 80,000-seat venue were due as CM went to press, and a deal with Sir Robert McAlpine was expected to be hammered out by mid-November. The cost of building the stadium has now risen to £496m, compared with the original £216m bid.

According to the ODA, nearly half of the buildings on the main stadium site have now been demolished – see photo insert - with the rest set to come down by the end of the year. Ground across the site is also being levelled to create a

flat construction platform for the stadium.

Contracts for the other two permanent structures the media centre and velodrome are now close. Carillion, Balfour Beatty and Bouygues have put in bids for the 1.3m sq ft media centre site, with a decision expected by mid-November. As the ODA has already said it doesn't want any contractor to have more than one big scheme, Carillion could be a favourite.

Which leaves the velodrome. Alfred McAlpine, Carillion, FCC, ISG, Shepherd and Wates are preparing bids for the 6,000-seat venue. Could this be Shepherd's project?

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# NSW Centre Seminar – Sydney Turns the Corner

Frank Allen, Director of Property Markets, Westpac was NSW Centre's special guest speaker at our recent seminar held at the Observatory Hotel on 16th October. Frank spoke on the topic "Sydney Property Outlook 2007–2009".

The seminar was a joint initiative of CIOB and AIPM (Australia Institute of Project Management) and followed similar presentations held in other states. He discussed the future trends in commercial, retail, industrial and residential property sectors in Sydney until 2009. A major concern was that Sydney is still losing many residents interstate although NSW population growth rate has started to rise again, following the lowest growth in over 20 years in 2004.

With positive signs for growth in different sectors and locations throughout Sydney the opportunities for construction continue. For builders and developers, as always, it's a case of

getting the timing and the mix right.

Frank's views are always eagerly anticipated and as a result the seminar was well attended with over sixty delegates on the night, was followed by an informal drinks and networking session. In addition, Frank has kindly made his presentation available on the net at <http://www.cio.org.au/events/view/122>.

Taking advantage of the gathering of members, scholarships were awarded by CIOB for excellence in construction to Xiangyu Wang and jointly to Cynthia Changxin Wang and Igor Hawryszkiewicz. See article on **CIOB 2007 Research Awards**, page ???

Nick Birbara, CIOB NSW Centre Chairman presented the award cheques. He comments that "the depth and variety of applications of modern technology in construction continues to impress".

## Sequel to "1 Equals 2 .... When Nothing Equals Something"

Is this not the most "elegant mathematics" to demonstrate that when 'nothing', in this case " $(a - a)$ ", is given reality or substance and applied to **something** that does have reality and substance: " $a$ " and " $(a + a)$ " then the result is utter nonsense and totally unreal?

The initial logic may seem to be good, but if basic principles are not properly identified and followed in any aspect of our work (and of our lives), then our illusions and misunderstandings can take on a false reality that we may try hopelessly to defend with disastrous results.

It is also interesting that the mathematical symbol for infinity ( $\infty$ ) is seldom seen and yet, surely, things that are real must always be real.

# Insurance in the Construction Industry.

Report by Mark Colborn on the Seminar, 9 October 2007, in Auckland NZ.

The presentation was given by Stephen Kane & Melanie Gorham of Marsh Limited (New Zealand). The University of Auckland, Faculty of Engineering, kindly provided the venue.

What has life come to when I actually enjoy a presentation about insurance - I really need to get out more! Seriously, having been employed by insurance organisations for about 15 years I was particularly interested to learn of some of the construction related insurance issues in New Zealand.

Some thirty people from a wide range of construction professions attended the seminar, including project managers, engineers, quantity surveyors, commercial managers and solicitors.

The subjects, ably covered by the speakers included:

- Risk identification
- Arranging Appropriate Insurance
- Construction Insurance Trends
- Claims Scenarios

The presentation touched on particular issues, such as "how do the contract clauses fit with the insurance solutions available" and "who in the company or the project staff should be responsible for the project insurances". There were some pertinent questions from the audience referring to actual situations.

For example, in infrastructure procurement by client organisations, there is a need to be aware of the extent of insurance that a contractor must provide in a tender. As part of the contractual process the successful contractor is required to provide a "Certificate of Insurance" for Public Liability to a minimum value, often some \$5M. I learned that even though a contractor might have a current "Certificate of Insurance", one cannot rely that this will ensure that all Public Liability Insurance risks are adequately covered by the policies. For example, there may be a sub-clause in the contractor's insurance that limits the extent

of cover in certain areas. Cover for damage due to undermining may be limited to a relatively small amount, say \$3M. Sub-clauses are not usually noted on the "Certificate of Insurance".

The seminar reinforced the need to be aware of the risks relating to particular projects and to consult insurance specialists for advice when in doubt. Good feedback was received from many

of the audience who completed the event review forms.

Our thanks go to Stephen and Melanie for their much appreciated presentation, which we hope might also be presented in Christchurch and Wellington.

*Mark Colborn is CIOB Australasia: New Zealand Centre Chair.*

## Al Raha Beach Development, Abu Dhabi

By Richard Hyde

Al Raha beach development will be a new city district adjacent to Abu Dhabi International airport. A regional hub Al Raha beach will serve as the **new gateway** to Abu Dhabi city and will be home to 120,000 residents and have a day population at 200,000. Al Raha Beach incorporates an integrated infrastructure plan which includes a light Rail system connecting the whole development to the airport.

The site covers an area of 5.7 million m<sup>2</sup> and a total built up area of 11.7 million and the total construction cost is around c74 billion AED. The project has a completion date of 2019.

Distinctive features of the project include its iconic buildings designed by world renowned architects, such as World Trade Centre by Foster's, and innovative procurement arrangements unique in the middle-east.

See the website: <http://www.aldar.com/html/videos.php?vid=alrahabeach&sz=l> for all information including a video clip.

*Richard Hyde is presently working on this project. He is a past President and the founding instigator of CIOB Australia.*



# CMYA 2007 Overall Winner

## Gold Medal Winner and Construction Manager of the Year 2007

**Category:** Restoration

**Name:** Simon Byford

**Company:** Sir Robert McAlpine

**Project:** HBOS, The Mound, Edinburgh

**Contract:** SBCC with quantities and contractor's design



Unfailingly courteous and instinctively collaborative, Simon Byford also has the courage to stand by his convictions. His resistance to the imposition of the suggested 12-month construction period as unrealistic won this contract for Sir Robert McAlpine in the first place. His scrupulous honesty in the face of some hideous subsequent structural surprises pulled the team together in identifying and implementing solutions.

To restore this 200-year-old building to its former glory, Simon had to remove a floor inserted into the original great hall along with other mezzanine additions. He also took out nine lifts (none of which served all eight floors), replacing them with an all-floors duplex model.

The unexpected is only to be expected in such an environment, but nasty surprises happened on a regular basis on this project. The discovery of asbestos brought the programme to a crashing halt for six weeks. It transpired that the great

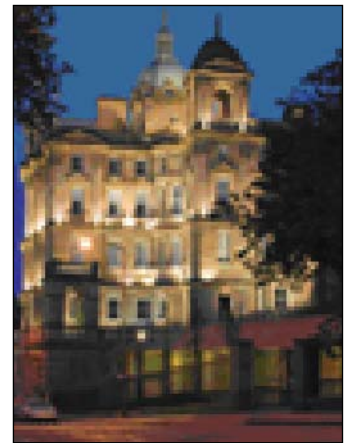
hall's southwest pier was not supported below floor level. Chimney flues were found to riddle vertical masonry elements so extensively that they were effectively hollow. In the face of each horror, -Simon was unfailingly calm and rational, ensuring that the impetus of the project was never threatened.

And it wasn't just Simon's quiet assertiveness and complete control that brought this project through. It was also his innovative approach to technical problems that won the confidence of the client that extra budget and programme were needed to carry out the stunning internal transformation it sought in its iconic building.

It was Simon who proposed building the duplex lift shaft off a transfer structure at ground level while simultaneously commencing work on the

basement level. His solution brought enormous programming and buildability benefits.

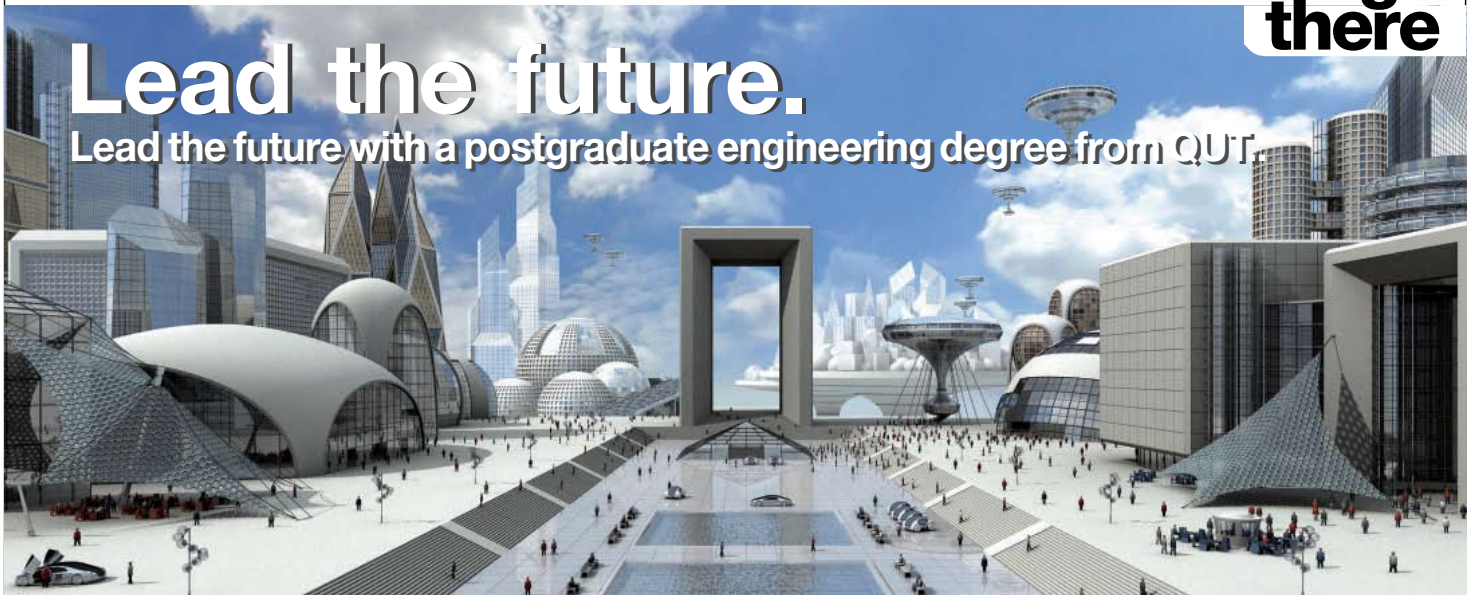
Being over budget and over time (even when it is no fault of the contractor) is enough to damn many a project as a failure. That Simon has concluded this one in triumph, to the praise of client, architect and every other interested party, is a tribute to his construction manager excellence.



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## CIOB Branch Administrators' Training in UK

In October 2007, CIOB's Regional Managers from the CIOB International Branches attended a week of training and update meetings with Head Office staff in the UK at Englemere.

Our Australasian Branch Administrator, Jodie Richards-McCabe, was given the opportunity to meet the Head of CIOB International, Fabio Casula, and new Regional Managers, Ivy Lo, CIOB Hong Kong and Larry Feinberg, CIOB Africa.

*Caption: CIOB International:*

*(left front) Liu Mengjiao (China), Prof. Li Shirong (Vice President CIOB), Larry Feinberg (CIOB Africa), Michael Brown (Director CIOB International), Ivy Lo (Hong Kong), Jodie Richards-McCabe (Australasia), Pauline Koh (Singapore) and Audrey Chen (Malaysia).*



## CMYA Gala Ball

The International Managers attended the annual CMYA Gala Ball, which was a fabulous evening and dined with CIOB International Board IPP, Dr Paul Shepherd.



**CIOB International Regional Managers at CMYA:**  
*(back) Paul Shepherd, Audrey Chen (Malaysia), Liu Mengjiao (China), Fabio Casula (Head of International) and Michael KC Yam (CIOB Malaysia IPP)*  
*(front) Pauline Koh (Singapore), Ivy Lo (Hong Kong) and Jodie Richards-McCabe (Australasia).*

## CIOB Australasia Regional Council:

President	Patrick Weaver		
Vice President	Varoujan Bedrossian	Imm. Past President	Brian Naylor
Vice President	Philip Sanders	Honorary Treasurer	Sam Lehan
Vice President	Chris Chainey	Editor	Gerald di Corpo

## Centre Committees:

### New South Wales, Australia

Centre Chair	Nick Birbara	Committee member	Adam Perigo
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### Victoria, Australia

Centre Chair	Paul Spray	Committee member	Efy Karagiannis
Committee member	Richard Maltby		

### Queensland, Australia

Centre Chair	Chris Chainey	Committee member	Steve Broadbent
Committee member	Rob Diamond	Committee member	Richard Moore

### Western Australia, Australia

Joint Centre Chair	Paul Lewin	Joint Centre Chair	Andrew Scales
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### Auckland, New Zealand

Centre Chair	Mark Colborn	Committee member	John Tookey
Committee member	Robert Jones	Committee member	Lawrence Jones
Committee member	Alex Powell	Committee member	Warren Wilks
Education Panel	Australasia		
Panel Chair	Dr Patrick Zou	Panel Member	Willy Sher
Panel Member	Grace Ding	Panel Member	Peter Ward
Panel Member	John Tookey		

## Bridge Collapse in Dubai, 9 November

"At least seven people were killed, nine seriously injured and five others less seriously hurt," said a police officer speaking under condition of anonymity.

"More than 40 workers were on the bridge at the time," he added.

Witnesses at the scene saw several bodies draped in sheets and at least three injured people lying on the ground.

The bridge was being constructed close to the Palm Jumeirah resort, a showpiece of the emirate's construction boom, which relies largely on a workforce of hundreds of thousands of Asians.

The huge multimillion-dollar palm-shaped artificial island can be seen from space.

Humanitarian organisations have frequently condemned the working conditions of foreign labourers in the emirate.

Thousands of migrant builders have been on strike over working conditions for the past two weeks, including many at the world's tallest tower under construction, the Burj Dubai

From "news.com.au".

## 2007 Dates for Your Diary

Events and activities presented by CIOB Australia and our network of associated organisations.

For further information please contact [events@ciob.org.au](mailto:events@ciob.org.au) or telephone (02) 9638 4977.

Date 2007	Event	Location
5 December	IAMA December Forum. To register, email: <a href="mailto:nsw.chapter@iama.org.au">nsw.chapter@iama.org.au</a>	The Dispute Resolution Centre Level 9, 52 Phillip Street, Sydney 2000
5 December	AIPM NSW Chapter Christmas Event. For details contact Wayne Miller via email on; <a href="mailto:nsw_chapter@aipm.com.au">nsw_chapter@aipm.com.au</a>	Sydney
11 Dec	CIOB & RICS Joint Seminar 'Risk Management', co presented by Gavin Halling, RiskTools and Nick Crennan, CBP Lawyers. To register email: <a href="mailto:events@ciob.org.au">events@ciob.org.au</a>	Theatrette QV.1 Conference Centre, Level 2, 250 St Georges Terrace, Perth

## CIOB Members – Upgraded

Jason Fung	MCIOB
Jeremy Chee Shien Wu	MCIOB
Steven Preedy	MCIOB
Simon Diplock	ICIOB
Alison See-Ah Wong	ICIOB

## New CIOB Members

Jafar Abdi	MCIOB
Brad Deighton	MCIOB
Joseph Griffin	MCIOB
Daniel Kai Lung Kei	MCIOB
Duncan Blackhall	ICIOB
Richard Brisland	ICIOB
Samuel Gillham	ICIOB
Timothy Graham	ICIOB
Jeffrey Thomas	ICIOB
Kevin Guomin Zhang	ICIOB
Brianna Chesworth	Student
Matthew Spooner	Student

## CIOB Australasia CBC Members:



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Director: Stephen Allen.  
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Page Kirkland Group

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Director: Alan Page.  
61 2 9283 7311



Specialist construction consultancy.

Principal: Philip Sanders.  
61 (0) 401 010 202

## CIOB contact details:

### CIOB Australasia

Office Manager: **Elizabeth Thomas**, at GPO Box 5146, Sydney NSW 2001.  
Phone: 02 9638 4977, Fax: 02 9638 4177.

Email: [ciobaustalia@ciob.org.au](mailto:ciobaustalia@ciob.org.au).

Website: <http://www.ciob.org.au>

CIOB Australasia Branch Administrator: **Jodie Richards-McCabe**

Email: [jrichardsmccabe@ciob.org.au](mailto:jrichardsmccabe@ciob.org.au)

### CIOB UK – Head Office:

Email: [reception@ciob.org.uk](mailto:reception@ciob.org.uk),  
Website: <http://www.ciob.org.uk>

Contact Australasia:

<http://www.ciob.org.au/newsletter>

iCON Review:

<http://www.iconreview.org/en/home>

Construction Manager:

<http://www.constructionmanager.co.uk/>

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Working closely with the GM - Project Management and Design, you will be responsible for the delivery of various property developments on budget and within specified timelines and in line with the organisations strict return on capital requirements.

Ideally from a construction, or design background you will be able to demonstrate strong project delivery experience across both major developments and minor refurbishments. You will be able to manage multiple projects simultaneously and effectively, continually maximising return.

You will need first class communication skills and thrive on working in a fast moving and results driven environment paramount.

**Please contact Jayne Lee**  
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## Contracts Administrator \$35M Project CBD

This mid-tier building contractor has a name that is synonymous with construction. It continues to push the boundaries and is recognised for its inventive projects, excellent working conditions and year on year growth. Its operational structure covers all sectors coupled with an up and coming environmental group.

You will have existing contracts administration experience and be capable of letting, payments and variations. The project is site based which will see that you interact with a variety of individuals each day, including subcontractors, management and the client. You will therefore have excellent communication skills including confidence with negotiation and problem solving.

Career progression is guaranteed within this evolving business that boasts a dynamic, innovative culture. It encourages a hard working and enjoyable environment and is committed to maintaining this atmosphere through its people. Therefore you will have an upbeat, enthusiastic personality with genuine aspirations to secure your long-term career in construction.

If you have solid experience working as a CA within the building industry you will be considered. Pay will be generous and reflect your work history.

**Please contact Liz Solanki**  
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## Project Engineer Large-scale \$100M CBD Project

A rare opportunity has arisen for an established Project Engineer to join one of the strongest developer/builders across Australia. It is soon to announce a recent acquisition, which will commence construction in early 2008 and be considered one of the most high profile projects in recent years.

The rewards are enormous and you will be earmarked and hopefully fast-tracked into project management. This role is definitely one step from a PM promotion and is yours for the taking.

A solid background in construction is ideal with experience on projects above \$20M with a well-known builder. You have a good grasp of contracts admin, scheduling, programming, planning and your safety awareness is outstanding. You also operate with a minimum fuss and are able to throw your weight around when needed.

A current position as a Site Engineer, Project Engineer or Contracts Administrator will give you an advantage and you are likely to be feeling a bit unappreciated and lacking a challenge.

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