

JULY 2014

## From the Chair

Greetings to all IPENZ UK Members and friends. I hope you are enjoying the summer and will take the opportunity to have a good break away from the daily hustle and bustle.

We've had a busy spring and early summer – with Technical Talk on the “Walkie Talkie Tower”, a graduate development evening, and a professional practice assessment for one of our members based in the UK. Of course, I cannot forget to mention the fantastic IPENZ Centenary celebration held at NZ House, showcasing two great New Zealanders: Bruce McLaren and Ernest Rutherford. Our thanks go to the keynote speakers from McLaren and The Royal Society for helping make this such a wonderful success. Thank you also for the positive feedback received, which has been shared with the organising committee who helped make the event possible.



**Looking forward**, we have a number of exciting events lined up including the IPENZ AGM – with combined technical talk, the annual Henley Summer BBQ, and the Christmas Soiree being hosted at Australia House this year. See more details in this newsletter.

We are always please to receive feedback or idea on events, technical talks site visits and other opportunities. Please contact me direct with any feedback or suggestions at [chair@ipenz.org](mailto:chair@ipenz.org)

Andrew Delugar  
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## Welcome to New Members

A warm welcome to the following IPENZ Members who have recently moved to the UK:  
Steve Browning (Affiliate), Tom Glenn (Graduate), and Richard Watson(Professional).



<http://www.linkedin.com/groups/IPENZ-UK-Branch-2232787>

It's open to non-members too...

**Join our IPENZ UK LinkedIn group.** It is an open group, so encourage your non-member colleagues to join as well. You can connect with other IPENZ members, learn of job opportunities, as well as keep up to date with Branch news and activities.

## Upcoming Events

### EA Technical Talk – Project Floyd

**Wednesday 13 August, 6pm for a 6.30pm start**  
*Arup Consulting Engineers, 13 Fitzroy St, W1T 4BQ*

Based in Geneva for many years, JTI (Japan Tobacco International) decided to centralise it's expanding group into a new HQ building in the Secheron district of Geneva, on a site near the lake and adjacent to the UN and several other internationally recognised World bodies.

**Stuart Marsh, of Skidmore, Owings & Merrill** will be presenting on the many challenges that have gone into creating this iconic 10 storey building. With its dramatic 60m cantilever and 70m bridge span, it is architecture and engineering in equal measure.

This project embodies the spirit and legacy of SOM - a global A/E practice with over 10,000 completed projects spanning almost 80 years - which has made its reputation designing high quality structures and many of the world's tallest buildings.

Register at: <http://www.eventbrite.co.uk/o/engineers-australia-uk-chapter-2923493197>

## Summer Family Barbecue

**Sunday 31 August, commencing at 12pm**

Henley Rowing Club, Henley on Thames, Wargrave Rd,  
Henley-On-Thames, Oxfordshire RG9 3JD

The Henley Rowing Club is the location for the IPENZ UK Branch Summer Family Barbecue. The spot has been a branch favourite for many years and is a must see for members both old and new.



**Barbecue lunch and non-alcoholic drinks are provided. We invite attendees to bring a salad or a dessert to share and ask that you indicate what you will bring when you register.**

Henley-on-Thames in South Oxfordshire was first settled in 1179. The town has a population of ~10,000 people and is the home of the Henley Royal Regatta. The historic event became *Royal* in 1851 when Prince Albert became patron of the regatta. The town is noted for its historic five arched bridge crossing the river, constructed in 1786, which you will walk across if you come by rail.

**Cost:** £8/adult (Members and partners)  
£12/adult (Non members)  
Free for children under 12 years old

**BYO:** Attendees are welcome to bring alcoholic beverages (Non-alcoholic beverages provided)

**Bring:** Members are asked to bring a salad or dessert to share, and also to bring outdoor tables and chairs.

**Getting there:** Train from Paddington Station to Henley-on-Thames Station (1 hr 6 minutes). Henley Rowing Club is a 10-minute stroll from the Railway Station.

**RSVP:** By 22<sup>nd</sup> August

**Register:** [www.ipenz.org.uk](http://www.ipenz.org.uk)

**Payment:** Reference: Your Name  
Sort Code: 40-07-13  
Account No: 90829870  
or send a cheque and the postal reply form found at the end of this newsletter.



## Engineers Australia National President and CEO Reception

**Thursday 4 September, 6pm for a 6.30pm start**  
*Arup Consulting Engineers, 13 Fitzroy St, W1T 4BQ*

Don't miss the opportunity to network with the Engineers Australia National President, Prof Alex Baitch, and Engineers Australia CEO, Stephen Durkin. We promise an evening of wine & cheese, good hospitality, interspersed with talks from both learned engineers on current happenings within Engineers Australia and the engineering industry in general in Australia.

Prof Alex Baitch is an electrical engineer and principal of his own consulting practice in electrical distribution, utilisation and energy management and is an Honorary Professorial Fellow at the University of Wollongong. He has served Engineers Australia in many roles over nearly 35 years, including Chairman of the Electrical College, director of Engineering Education Australia, an inaugural director of RedR Australia and its company

secretary/treasurer in its early years of operation and being a member of the Board of Management of Engineers Australia.

Register at: <http://www.eventbrite.co.uk/o/engineers-australia-uk-chapter-2923493197>

## EA Technical Talk – Singapore Sports Hub

**Thursday 18 September, 6pm for a 6.30 start**

*Arup Consulting Engineers, 13 Fitzroy St, W1T 4BQ*

Arup was enlisted to lead the architectural and engineering design of the Singapore Sports Hub, conceived as part of the greater Marina Bay Master plan to reposition Singapore as a great place to work, live and play.

**Matthew Walden**, structural engineer with the Advanced Technology + Research Team at Arup, will give a presentation on the Singapore Sports Hub Project, addressing the issue of spectator comfort in the tropics and accommodating versatility in use through a movable tier design, palletised turf modules and fully closing roof.

When completed in 2014, the Sports Hub will reinforce Singapore's position as a major international sports destination.

Register at: <http://www.eventbrite.co.uk/o/engineers-australia-uk-chapter-2923493197>

## AGM and Technical Talk

**September / October TBC**

The Annual General Meeting will be tied in with a technical talk. Further information on this event will be available once it has been organised.

## Christmas Soiree

**Friday 28 November**

This year Engineers Australia will host the Soirée at Australia House. This is always a fantastic evening with good banter, great food, and some delicious wines and beers to lubricate the rest of the evening. Put the date in your diaries now!

## Future Technical Talks

Other technical talks will be arranged during the year as suitable speakers and venues become available. If you would like to suggest a topic or project - email Andrew at [chair@ipenz.org.uk](mailto:chair@ipenz.org.uk) and we'll make the arrangements.

Look out for details on the website from December, and we will also send out a Linked in notification for those registered with IPENZ UK group.

For future technical talks we are going to make all events joint with Engineers Australia UK Chapter. They will offer the same courtesy to IPENZ UK, and this increases the opportunity to provide a range of interesting topics.

## Recent Events

### IPENZ Centenary Evening - 2 July

On a bright summer's evening in London the IPENZ's centenary celebrations took place in the penthouse of New Zealand House on Haymarket.

The theme of the evening was to mark the lives and works of two famous pioneers of New Zealand engineering: Ernest Rutherford and Bruce McLaren.





Keith Moore, Head of Collections at The Royal Society, gave the first presentation on Ernest Rutherford. This was a fascinating insight into a man who is renowned mainly due to his work in nuclear physics, specifically splitting the atom. Moore presented Rutherford's timeline, beginning with his early life in New Zealand, and carried on to discuss his research at the Cavendish Laboratory at Trinity College, Cambridge, his time as Langworthy Professor of Physics at the University of Manchester and as Cavendish Professor of Physics at Cambridge. It was interesting to learn he was also a past president of the Royal Society and helped many learned Jews escape Nazi Germany during the Second World War.



Peter Stayner, McLaren Ambassador, and Keith Holland, McLaren Automotive Motorsport and Heritage Manager, then gave a presentation about Bruce McLaren, legendary motor racing driver, engineer and designer. Patty McLaren, McLaren's widow, Ray Rowe, McLaren's longest-serving employee, and Gordon Coppuck, former Chief Designer at McLaren, also spoke during the presentation. McLaren brought along the new 650S road car for guests to get a sit in and admire. The presentation by five people, three of whom knew Bruce intimately, was brilliant and enlightening.



The night was complimented by a great selection of New Zealand wine and beer as well as an array of finger food which catered for all the guests. Almost 100 people attended this momentous evening. The committee received excellent feedback from the attendees, saying they had a thoroughly enjoyable time celebrating New Zealand engineering pioneers in the United Kingdom to mark the centenary year.

Look out for the full article on the Centenary evening in the next issue of IPENZ Engineering Insight magazine. Thank you to all those who attended and the IPENZ UK Branch committee for their time and effort in making this remarkable event memorable.



## Graduate Evening – 21 May

The Graduates' Evening was held at CNM Offices in Hammersmith on Wednesday 21st May. The evening had a good turnout, with 8 graduate attendees in total. Many thanks to John Matthews who organised and ran the evening, and to Liam Duff who came along to offer his wisdom and advice to those graduates looking to become Professional members.

If you have any questions regarding becoming a Professional member please refer to: <http://www.ipenz.org.nz/ipenz/join> or contact John Matthews on [dfwmimp@hotmail.com](mailto:dfwmimp@hotmail.com)

## Walkie Talkie Building – 30 April

Paul Walters, Director of Facilities and Urban Environment for Europe at CH2M HILL (formerly Halcrow Yolles), provided us with an excellent presentation about the structural engineering and other design challenges associated with the "Walkie Talkie" Building currently nearing completion at 20 Fenchurch Street, London.

The venue for the talk, which was well-attended, was kindly made available by Price & Myers at their office in Newman Street (off Oxford Street). Refreshments were also provided.



Paul commenced by outlining the history of the project, which is a joint development between Land Securities and the Canary Wharf Group. The project architect is Rafael Vinoly and CH2M HILL provided structural and geotechnical engineering services. He highlighted the unusual nature of the structure that had previously occupied the site and the consequences of this in terms of demolition procedures. The presence of the demolished structure's basement and redundant foundation piles had an impact on the design and construction of the new structure.

Paul then described the development of the structural design for this uniquely shaped building and outlined the design and fabrication techniques used to configure the steelwork required for columns and floor slabs at each of the 34 storeys and for the roof structure over the three-storey-high Sky Garden. With a reinforced-concrete core, the shape of the structure enables the floor area of 1360 square meters at the third floor to be increased to just over 2700 square metres at the thirty-third floor. The structure is 160m high and the total floor area is 62,100 square metres.

The presentation was followed by a wide-ranging question-and-answer session.

### **ANZAC Day Ten Pin Bowling with EA – 25 April**

In what has become tradition over the last couple of years, the ANZAC Day Ten Pin Bowling Challenge between IPENZ and Engineers Australia was once again held at Rowan's in Finsbury Park. With Anzac Day falling on a Friday this year, Rowan's was packed and it looked like our bowling challenge would also have to compete with a rowdy children's party. However, there was plenty of room for everyone, with extra bowling lanes upstairs. We took up three lanes, and there were plenty of spares and strikes, and only a few gutter balls.



It was a fun evening, which concluded with pizza, refreshments and a few games of pool, continuing on the rivalry and friendship between the two southern hemisphere countries.

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### **IPENZ UK Branch Officers:**

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