

Heritage Plaque Marks Iconic *Hikitia*

On Tuesday 7 December, a new heritage plaque was unveiled on the *Hikitia* floating crane at the Taranaki Street Wharf in Wellington. **Rob Wilkinson DistFIPENZ** and **Malcolm McGregor** presented the plaque on behalf of the IPENZ Engineering Heritage Board and the Maritime Heritage Trust. About 40 people attended the ceremony, including Wellington Deputy Mayor **Ian McKinnon**.

The plaque “recognises the uniqueness of the *Hikitia*”, Mr Wilkinson said at the presentation. “It represents outstanding engineering heritage achievement, due to its economic and social impact and specialist use.”

Mr McGregor called the *Hikitia* an “ark of knowledge”, due to the specialist skills that were employed and retained on-board the vessel. He also acknowledged the volunteers, many of whom were “wharf wanderers” who grew interested in the vessel, Maritime New Zealand, and in particular, **William Pitt FIPENZ**, who has been involved in *Hikitia*’s refurbishment since it began in 2006.

The *Hikitia* is believed to be the oldest ship of its type still operating in the world. It arrived in Wellington Harbour on 21 December 1926 after a voyage of 84 days. It has been generally accepted that *Hikitia*’s delivery voyage represents a record distance sailed by a vessel of this type with its jib up.

The vessel carries a 380-tonne crane on a revolving base. The crane stands 35 metres above the rollers, countered by a 97-tonne weight.

It began work almost immediately after its arrival, and for 63 years was used in construction work, helping with the demolition of the *Wahine* and much more.

In 1990, *Hikitia* was purchased for preservation by two couples. Much hard work followed and they were rewarded in July 1992 when the ship was approved to lift 80 tonnes after succeeding in an 88-tonne lift. The *Hikitia* recently completed a 100-tonne test lift to maintain its licence – proving it is still as capable as it was when it first arrived in Wellington.

Since then, the *Hikitia* has performed some 300 lifts – including linkspans for roll-on/roll-off ships and three separate fleets of BT Challenge yachts. *Hikitia* has lifted harbour ferries, acted as a breakwater, salvaged sunken boats, been a platform for firework displays and recently relocated a seven-tonne anchor for eventual conservation.

The log of the *Hikitia*’s delivery voyage has been preserved in the archives of the Wellington Maritime Museum on Queen’s Wharf. *Hikitia* is currently being refurbished, thanks to the help of volunteers and the Maritime Heritage Trust. //





President's Message

In keeping with the Annual Review highlights coverage in this month's issue, the President's message from the *Annual Review 2010* has been abridged. President **Garry Macdonald FIPENZ** shares his highlights of the 2009/10 year.

The past year has been an extraordinarily busy one, but it has also been extremely rewarding, exciting and – in the end – more financially successful than the governing Board and National Office had planned. On top of all the normal activities, we took some key initiatives and experienced some unexpected events – I wish to touch on a few of these highlights for the 2009/10 year.

The strategic direction for the Institution set by the previous Board was reviewed early in the year and was virtually untouched as we felt that it represented the right mix of strategically important objectives. The 2009/10 Board decided to focus on a couple of key areas – the industry had indicated concern about the number of engineers coming through, and remaining within, the New Zealand engineering system and the lack of technical leadership from engineers in New Zealand society and business. Facing a still uncertain New Zealand economy

at the end of 2009, the Board was also focused on identifying new – as well as expanding existing – revenue sources; without imposing extra costs on Members.

The supply chain of professional engineers and technicians starts right back in our schools. It then expands to our Student and Graduate Members, who become young professionals, then chartered professionals (or equivalents for engineering technicians and technologists) and finally “mature” professionals. Every link in this chain is critical to a strong and fully bonded profession – one which is sustainable in the faces of any challenges. The two task forces set up this year – Women in Engineering and Young Professionals – looked into several of these intermediate linkages where it appeared we had some weaknesses. Their early work and reports are promising and the Board has budgeted funds to support their final recommendations which are due in early 2011.

A third task force was set up under the auspices of the Engineering Practice Board and will report back to the governing Board with recommendations for a new IPENZ Sustainability Plan of Action. Engineers have a prime role in

delivering a sustainable society through many different avenues. We need to enshrine the right approach through crisp and clear policies to which all our Members can relate, in the expectation they will then show leadership in their respective communities and roles.

As part of our professional leadership mission, we developed three major policy papers. One report, *Assessing the State of Infrastructure: Is what you see what you get?*, was released by **The Hon. Dr Nick Smith FIPENZ** at the Grand Hall in Parliament during a welcome reception for our counterparts from the American Society of Civil Engineers, who undertake similar studies.

Unexpected events in the year under review gave our profession a good “shake”. The Darfield earthquake demonstrated to Canterbury residents, the New Zealand public, politicians, and worldwide engineering audiences how robust our New Zealand structural and seismic design standards really are. In the face of this massive quake, no lives were lost, even though many buildings and services were badly damaged. IPENZ is working with other bodies to ensure the learning from this event is absorbed and reflected into improved practices, standards and perhaps regulation. //

Realise the Dream



Shahn Taylor working on his micro wind turbine.

Realise the Dream is organised by the Royal Society of New Zealand and celebrates top school students who have carried out an excellent piece of research or technological development.

Shahn Taylor completed his final year on a high after being awarded *Dux* at Taikura Rudolf Steiner School, Hastings, as well as attending Realise the Dream. Mr Taylor won the Institution of Professional Engineers New Zealand Award with his project “Wind Power”.

Mr Taylor worked on a year-long project building a micro wind turbine. He is fascinated with mechanics, mathematics, engineering, aerodynamics and electricity, and a wind turbine combines these technologies to produce electricity.

Mr Taylor investigated and documented the history and current state of wind technology, as well as his own experience and learning in the design, construction and testing process. His generator, a washing machine motor, needed to be completely rewired, and converted to direct current (DC) from alternating current (AC). Mr Taylor built his own three-phase AC to DC converter.

Mr Taylor studied the dynamics of wind turbine blades, their shape, the material they were made from and how this affected their performance. The decision to make his own blades helped him gain a great sense of achievement and knowledge of blade design. He found some New Zealand-made, 100 per cent recycled plastic pipe, an added bonus because he wanted to have minimal environmental impact. He designed the turbine with three blades to give better starting torque along with a lower top speed, perfect for how he wired the generator.

Mr Taylor designed the swivel, the part of the wind turbine that enables the power cables to get from the turbine down the tower without twisting and has the job of carrying the whole turbine, which is mostly made from recycled aluminium. The steel and bearings used to create the swivel were all second-hand parts and materials which Mr Taylor modified himself. The power from the turbine passes through the swivel into the cables and down the tower. The main mast of the tower is a little over 4.7 metres and pivots on two shorter supporting poles which go down around 2.6 metres to the bottom of the reinforced concrete foundation.

“The truth about this project is that I would have never have even started if I had understood the full extent of the difficulties I would come up against. What I managed to do, design and construct an operational prototype wind turbine, incorporating recycled materials as much as possible, surpassed all expectations,” Mr Taylor says.

Mr Taylor’s success in the IPENZ Award grants him an all expenses paid trip to the 2011 Taiwan International Science Fair. //

Fellow Receives New Year’s Honour

William Gallagher FIPENZ

was recognised in the 2011 New Year’s Honours as a Knight Companion of the Order of New Zealand (KNZM) for services to business. The newly knighted Sir William is the founder and Chief Executive Officer of Gallagher Group, based in Hamilton.

It is the third honour to be bestowed on the businessman with a reputation as a hands-on manager at family-owned Gallagher Group. He was made a Member of the Order of the British Empire (MBE) in 1987 and a member of the New Zealand Order of Merit (MNZM) in 1998.

Sir William’s father founded the firm famous for developing electric fences. It was about a 10-person business when Sir William joined and took electric fences to the world.

The company now employs more than 1,000 people and is recognised as a global leader in agricultural electric fencing, security electric fencing and retail petrol pumps in New Zealand, Australia and the Pacific. //

Annual Review 2010 Highlights

The information provided below is a summary report of the *Annual Review 2010*. A full version of the Annual Review will be available on the IPENZ website. Members may request a printed copy by contacting the Boards' Secretary on boards-sec@ipenz.org.nz

OVERARCHING PROGRESS INDICATORS

- IPENZ is recognised as the national voice of the engineering profession; our views are widely sought and listened to by key decision makers, other external stakeholders and the general public.
- Each of the key Membership classes of IPENZ, and the number of current competence registrants, experiences annual net growth in relation to the total engineering population in New Zealand.
- The Membership age distribution ensures the future viability of the Institution, and general satisfaction is indicated in surveys of Member views and reasons for Membership termination.
- There is increased use of and demonstrated confidence in our qualification and competence quality marks, including the associated disciplinary and educational procedures for ensuring professional standards of ethics and competence by our Members and registrants.
- Sufficient income from a range of sources provides reserves and income to fulfil and maintain work programmes without subscriptions rising at a rate above inflation.
- Sufficient staff capacity and capability are maintained and an effective organisational structure achieves the goals of the organisation.

ACTUAL PERFORMANCE

- Through three major reports and 17 submissions, IPENZ succeeded in gaining national respect on a number of policy issues, especially in relation to infrastructure and innovation.
- Net growth of subscription-paying Members was just under two per cent.
- Growth in competence-graded Membership and registration continued and Student Membership grew by over 10 per cent to 2,519.
- Growth was dominated by young people in the Student and Graduate Member classes, ensuring the ongoing viability of IPENZ.
- There was increased use (and more consistency of use) of our quality marks by regulators in the building and occupational safety regulatory systems. There was a high degree of confidence by regulators that the competence assessment process is identifying competent engineers.
- Subscription and contract for service income met or exceeded budget. Advertising income was lower than expected – however, sufficient resources were procured to ensure no work programmes were curtailed.

- Staff capacity and capability was high, with no issues in attracting replacement staff of sufficient calibre. Reasons for staff leaving were rarely associated with dissatisfaction with IPENZ as an employer.

ACHIEVEMENTS

Recognition of contribution

- Thirty-five Fellows, three Distinguished Fellows and three Honorary Fellows were elected, and six technical awards were adjudicated according to the guidelines.
- The 2010 Fellows' and Achievers' Dinner held in Auckland attracted 390 guests.
- Four Members received recognition in the Queen's Birthday Honours.
- Several IPENZ Members were appointed by the government to boards, advisory panels and task groups.

Public policy

- Three reports were launched and promulgated: *Closing the Productivity Gap*, *Electricity Generation – Achieving New Zealand's Objectives*, and *Assessing the State of Infrastructure: Is what you see what you get?*
- Seventeen submissions on government policies were completed by the required deadlines.
- Working protocols for policy submissions by the Engineering Leadership Forum were developed. Four submissions were completed with Ingenium and two with other members of the Engineering Leadership Forum.
- Informal feedback from senior government officials indicated that IPENZ views are well respected.

International agreements secretariat

- The International Engineering Alliance (IEA) mid-term meetings in Ottawa ran successfully. At the meeting, the IEA Governing Group agreed to exercise the provision in the Multi Party Agreement to extend the services contract with IPENZ for a further two years from June 2011 without calling for competitive tenders.
- IPENZ's proposal for an increased secretariat services fee was subsequently agreed in principle. This proposal, which will be ratified at the IEA meeting in June 2011, takes account of increases in workload and costs. It also includes a change to invoicing in New Zealand Dollars, which will provide greater certainty of revenue for IPENZ.
- Following the success of the Ottawa meeting, the IEA Governing Group agreed IPENZ should continue to provide full event management services for future meetings and recoup reasonable costs by way of the delegate fee.
- Enquiries received and handled by the secretariat increased by 10 per cent to 3,245 in the last 12 months.

Engineering Practice Support

- The Engineering Practice Board (EPB) met on five occasions in addition to its Engineering Practice Forum in March 2010.
- The EPB, through the Chair's Report, expressed satisfaction with the number and quality of engineering submissions.
- The Chairs of Disciplinary Committees expressed satisfaction with the progress of complaints. This was confirmed in an independent report commissioned by the Chartered Professional Engineers Council.
- The Royal Melbourne Institute of Technology Publishing formed a partnership with IPENZ to develop its Engineering Knowledge Portal and had some significant interest in the IPENZ collection. There are around 2,500 New Zealand Engineering items on the database available through the portal.
- A Sustainability Plan of Action was developed by the Sustainability Task Force, ready for consultation in 2010/11.
- Practice support included work on seismic resistance of pressure vessels and pipelines (with a view to amending a potentially dangerous interpretation of a Department of Labour Code of Practice).
- Initial development of the Compendium of Codified Knowledge was completed and promulgated.
- *Practice Note 18 HSNO Compliant Buildings and Structures for Flammable Substances* was published in March 2010. *Asset Management* went through the Membership review process and a practice note to provide guidance in fire design documentation was drafted in partnership with the Society of Fire Protection Engineers and the Department of Building and Housing.
- Guidance was provided on the certification required to show how an electrical design complies with the revised Electricity Safety Regulations.
- The governing Board agreed to enhance the status of *IPENZ Transactions* (formerly *engineering treNz*). Plans to establish an editorial panel, to solicit papers more widely, and to regularly publish schedules and contents pages were developed.

Engineering heritage

- Eight major recognition projects (four oral histories and four plaques) were completed.
- Twenty-four new heritage database entries were recorded and 24 existing entries were substantially upgraded.
- Publicity was arranged for the sign boarding on industrial refrigeration in Otago, and for plaquing the North Head Coastal Defences in Auckland.

- The Engineering Heritage Strategy was further developed by the Engineering Heritage Board and underpinning systems were upgraded.
- The IPENZ Engineering Heritage Otago/Southland Chapter hosted the Third Australasian Engineering Heritage Conference in November with the support of the Otago Branch.

Future supply of engineers

- A nationally agreed engineering career model was developed and made available for consistent adoption by the engineering profession and engineering educators.
- A nationally agreed statement of the demand for graduates at the professional engineer, engineering technologist and engineering technician levels was researched, consulted and approved by the governing group of the project.
- The qualification structure work progressed in three sub-streams.
 - The sub-stream on Washington Accord qualifications progressed to a point where the necessary extra tertiary education to continue to meet the changing exemplar graduate profile will be progressively evaluated under the auspices of the Standards and Accreditation Board.
 - The sub-stream on the Sydney Accord qualification led to a nationally consistent Bachelor of Engineering Technology (BEngTech) degree delivered by the metropolitan Institutes of Technology and Polytechnics. In addition, cross-crediting arrangements between all four national offerings of the BEngTech were developed.
 - The sub-stream on Dublin Accord qualifications reached agreement on a national diploma structure which was submitted for approval during 2010 to commence operation in 2011. The New Zealand Diploma of Engineering (240 credits) may be followed by a New Zealand Diploma of Engineering Practice (120 credits).
- Nationally consistent study pathways were defined through Years 11–13 study at secondary school for progression to engineering, technology or applied science study. This included agreement of a satisfactory set of four “subjects” in the technology learning area with the Ministry of Education.
- Research on effectiveness of programmes for support of under-represented groups has shown that women, Māori, and Pasifika students will choose and succeed in engineering provided their needs are recognised and suitable support mechanisms are put in place. The support needed is specific to each group. //

Private Bridge Inspection



From answers to a question asked in *Engineering Direct* on 25 November, it appears that there is no specific legislative requirement for periodic inspections of most private bridges. As with any other building, a private bridge falls within the scope of the Building Act which has provisions for expected performance requirements for new structures, but generally nothing for maintenance. Maintenance aspects appear to be tacitly covered under clause B2 – Durability of the *Building Code*. With bridges, one would assume that most of their main structural elements are reasonably accessible and easy to visually inspect.

A fall-back position lies in sections 121–130 of the Building Act 2004, which relate to dangerous buildings. Territorial authorities (TAs) are able to take action to deal with a dangerous building, which in one Member's view would extend to private bridges.

The Health and Safety in Employment (HSE) Act appears to be relevant in some cases. A Member believed that in the case quoted in the article, the investigation found that the HSE Act was not applicable, because it did not involve an employment arrangement.

Another Member's employer owned a road bridge that carried all heavy traffic in and out of a large landfill. The designer did not provide any inspection schedule. The PS4 writer did not indicate any inspection schedule. The Building Consent and local council did not indicate any subsequent inspection schedule. Their only driver for periodic or random bridge inspections was the HSE Act.

"If public bridges require the inspections, HSE would deem that the private sector should not provide a lesser standard," was one opinion.

Another Member agreed that the HSE Act invoked one imperative but thought the Occupiers' Liability Act 1962 would place more pointed obligations onto the property owner.

A Member reported giving evidence to a coroner's court. This showed that there is no requirement at present for private bridges to have inspections or signage as to their load limitations. The coroner recommended to the Department of Labour that a system be introduced.

The same Member reported that Fonterra requires all private bridges that it uses be certified by an engineer.

He also reported experience from a previous job where a TA asked for checks on every bridge visible from the TA roads, as there had been some concern about who owned them. At least 10 of the 100 checked were of no structural use at all.

Another Member raised the question of stock underpasses and bridges used by dairy tankers on private roads. One issue is that the user of the underpass may not be the owner, or even the owner of the land the structure sits on. Furthermore, one party might be the owner but another is responsible for maintenance. Who then should pay for the regular inspections by a structural engineer?

A Member reported that the Department of Conservation has its structures inspected every two years by trained staff and tested every five years by an independent consultant. This inspection and testing arose as a result of the inquest into the failure of the viewing platform at Cave Creek. He noted that these are public structures on public property, and so are not directly relevant to the private bridge discussion. He understood that the testing comprises the addition of weights and measurement of deflection. SNZ HB 8630:2004 *Tracks and Outdoor Visitor Structures* states in 3.16.3 Inspection and maintenance that a structure is inspected every two years by a competent person and every six years by a structural engineer. "We use this for private and public structures and I believe this has been adopted by forestry companies."

A Transpower engineer reported that the issue of liability was complex. A number of legal cases pointed to the "owner" of the access being responsible for its assessment and controlled use. In Transpower's case, a number of these accesses were constructed by Transpower's predecessors and as such are seen by landowners as the "owner". However, Transpower may not "own" the access but acknowledges a duty of care as the "maintainers and inspectors" of the access. Therefore inspections and maintenance were conducted in accordance with industry best practice. //

Notice of Annual General Meeting

Institution of Professional Engineers New Zealand Incorporated

The 97th Annual General Meeting of the Institution of Professional Engineers New Zealand Incorporated will be held at the Duxton Hotel, 170 Wakefield Street, Wellington, on Friday 18 March 2011 at 4.30pm.

Agenda

1. Notice of the meeting – confirmation
2. Apologies for absence
3. Visitors
4. Obituaries
5. Honours lists
6. Confirmation of minutes of the 96th Annual General Meeting held on 19 March 2010
7. Matters arising
8. Announcement of the Board election results
9. Vote of thanks to scrutineers
10. Vote of thanks to the retiring Board members
11. Approval of the 2009/10 *Annual Review* and Statement of Accounts
12. Motions on which prior notice has been given
13. Appointment of Auditor
14. Vote of thanks
15. General business

16. Adjournment to Fellows' and Achievers' Dinner
17. Announcement of Honorary and Distinguished Fellowship awards

Annual General Meeting of the Institution of Professional Engineers New Zealand Practice College

The eighth Annual General Meeting of the Institution of Professional Engineers New Zealand Practice College will be held at the Duxton Hotel, 170 Wakefield Street, Wellington, on Friday 18 March 2011 – immediately following the adjournment of the Annual General Meeting.

1. Agenda
2. Notice of the meeting – confirmation
3. Apologies for absence
4. Confirmation of the minutes of the seventh Annual General Meeting held on 19 March 2010
5. Presentation of the Annual Report
6. General business

Dr Andrew Cleland Chief Executive

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NATIONAL OFFICE STAFF UPDATE

IPENZ has increased the human resource for its events management service by recruiting a fulltime Conference and Events Manager, along with the current Events Administrator role. **Tonya Jones** was appointed to the Conference and Events Manager role in December 2010 and started at IPENZ in January 2011. Tonya has been working at New Zealand Post as the Events Manager, and prior to that at the Porirua City Council as Events Co-ordinator. She has grown the events management activities in both these organisations, which IPENZ aims to do with the new team in place.

Dannielle Heath, who has been the face and voice of IPENZ National Office as the Office Administrator/Receptionist for two and a half years, moved into the role of Events Administrator in November 2010.

Margaret Dawson joined IPENZ in January, taking over the role of Professional Development Manager. Margaret came to IPENZ from the School of Government at Victoria University of Wellington, where she worked as School Manager.

Other changes at National Office saw **Kristal Kitto** join the team in reception in November. Kristal recently moved to Wellington from Ashburton and will be working at the front desk at National Office.

In October, **Jenna Panchal** moved within the Learning and Assessment team to the position of Learning and Assessment Co-ordinator. Jenna assists the "Learning" side of the



Margaret Dawson and Tonya Jones.

team; co-ordinating and promoting continuing professional development courses and the Professional Development Partner programme.

Dee Verhaart started at IPENZ in October, filling Jenna's previous position in the Assessment team as Competence Assessment Administrator. Dee assists with the competence assessment process, managing and processing competence reports for Membership and registration.

Renee Fauvel joined the Operations team in October as the Accounts Payable Administrator. Renee administers the accounts payable process for IPENZ, Branches and subsidiary groups, and assists with the financials for subsidiary group conferences and short courses. //

Neville Beach DistFIPENZ 1931–2010

Civil engineer and community ambassador, **Neville Beach DistFIPENZ**, passed away on 30 November 2010.

Neville graduated as a civil engineer from the University of Canterbury in 1954 and his initial position was with a consulting engineer in Wellington. He then spent a year in Holland with Shell before moving to the United Kingdom. With Freeman Fox & Partners, consulting engineers, he worked on power stations, notably at High Marnham and various industrial projects for 10 years, culminating in a stint in Malaysia.

Returning to New Zealand, he worked for two major contractors before returning to Freeman Fox, as Deputy Resident Engineer on the Auckland Harbour Bridge “clip-on” project. Back in Wellington, he joined Truebridge Callender Beach (TCB), becoming a partner and director. One of Neville’s major projects with TCB was the Porirua Basin Wastewater Treatment Plant, completed in 1989, for which he was project leader. He was also in charge of engineering design for what was then the largest overseas project undertaken by New Zealand engineers, a 16,000-person city at Lambak Kanan, Brunei. Neville also chaired the Board of the Engineering Export Association of New Zealand in the mid-1970s.

Neville and a group of farmers formed Windcorp in 2002 to encourage



energy companies to put turbines on their land. They struck a deal with Meridian Energy, which early in 2008 confirmed plans for a 31-turbine wind farm in Wellington’s Ohariu Valley. The proposed Mill Creek turbines will be 111 metres high and are projected to generate 71 megawatts of power – enough for 35,000 homes. At the time of Neville’s death the outcome of the appeal against the scheme had not been decided.

Neville’s contribution to the community has been vast, including his election as a member of the Makara/Ohariu Community Board for 20 years, and was its chair in 2010. Neville was also Vice President of the New Zealand Institute of International Affairs, and chaired the Wellington Civic Trust. He and his wife Ruth Mary were also founding supporters of the New Zealand String Quartet.

Neville became a Fellow of IPENZ in 1978 and served the Institution in many roles, including Council member from 1979–1982, Executive Vice President in 1983, and Honorary Secretary/Treasurer. He has also chaired the Examinations and Ethics Committees and was responsible as Chair of the Ethics Committee for the ground-breaking Code of Ethics he and **Gerry Coates FIPENZ** introduced in 1996. He also chaired many IPENZ Investigating Committees.

Neville received the President’s Award in 2004 for long and distinguished service to civil engineering in the service of others, and to the engineering profession. He was presented with his Distinguished Fellowship at the Fellows’ and Achievers’ Dinner in Auckland in March 2005. //



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