

## International Engineering Meetings 2007

IPENZ representatives attended the 2007 International Engineering Meetings (IEM) that took place in Washington DC last month.

The IEM is a meeting of six international agreements governing the mutual recognition of engineering education and the mobility of professional engineers. Member countries for each agreement meet every year to review policies and procedures, judge participating organisations' performance and consider applications for membership.

This year IPENZ passed its six-year Washington Accord review, indicating that the team that established our accreditation systems and accredited degrees match the international benchmark.

Comprehensive rules and procedures developed by IPENZ were also adopted, providing full operating procedures for the first time for the Washington, Dublin and Sydney Accords.

Chinese Taipei and Korea gained Washington Accord signatory status, bringing the total number of signatories to 12, while India, Russia and Sri Lanka gained provisional status indicating that they have developed potentially sound accreditation systems.

IPENZ also passed its first review under the Engineers Mobility Forum agreement, giving us a clear six-year period ahead. This is very good news for the International Professional Engineer (IntPE) standard and by implication the CPEng standard. The Engineering Technologist Mobility Forum agreed to open national sections of the IntET register from 1 July 2007.

### **New Zealander elected Deputy Chair**

The Engineers Mobility Forum elected **BASIL WAKELIN DistFIPENZ** Deputy Chair at its meeting held on 21 June 2007. This recognises his outstanding knowledge of national and international activities in relation to registration of engineers, but also exemplifies the regard within which he is held by our international colleagues amongst the 12 members of the agreement. Basil is the first IPENZ representative to hold such a role. Congratulations Basil!

### **Secretariat appointment**

IPENZ was also appointed to provide secretariat services to all six agreements at the IEM.



We will fully recover the costs from fees paid by signatories and other agreement members, but we will continue to pay a share ourselves.

This is a new role that IPENZ won competitively for an initial contract of four years. As IPENZ's newly appointed Professional Development Manager, Paul Gardner will head the secretariat as part of his duties.

Overall the 2007 IEM outcomes are an excellent result for IPENZ. Next year's IEM will take place in Kyoto, Japan during June, where IPENZ will provide the support for these events.



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# Opening the Glass Door



Early in June, after attending the Ingenium conference in Invercargill (a well-organised and well-attended affair), I addressed Branch meetings in Southland, Otago, South Canterbury and Canterbury. These meetings were also well-attended and the discussion after my presentation was well worthwhile.

My address to Members continues to deal with the supply and demand of engineers in New Zealand and the impact that the profile of our profession has on this issue. One aspect that strongly influences the supply and demand of engineers is overwhelming obvious at Branch meetings when I see the very small number of women in attendance, no doubt mirroring the equally small number of women in our profession.

If, as I am advised, more than half the population of our universities is female, why is it that only 10–15 per cent of engineering graduates are women? I would like to think that as with other professions, for example law, we were only faced with the problem of removing glass ceilings that exist in some organisations employing our women engineers, thus hampering their upward mobility. Instead, it appears to me that there is a “glass door” between secondary and tertiary education, which while not locked, presents a substantial obstacle to young women. I believe we must address this critical professional recruitment issue if we are to attract students and supply New Zealand’s long-term demand for educated engineers.

Another way to make the engineering profession attractive to young people is to increase the value and portability of engineering qualifications.

Shortly after I returned from the Deep South, our Chief Executive left for Washington DC to represent IPENZ at the International Engineering Meetings. Each year the meetings review how IPENZ and our kindred organisations regulate engineering education and training standards. One key outcome was Distinguished Fellow Basil Wakelin’s election as Deputy Chair of the Engineers Mobility Forum (see page one for details). Our own review under the Washington Accord (for four-year degree courses) confirmed that New Zealand’s accreditation systems and degrees are also up to the mark. The overwhelming conclusion was that IPENZ, its Members and New Zealand engineering qualifications have an excellent reputation amongst the international engineering community.

So what should we do about our profile and the supply and demand of engineers in New Zealand? What is our target market? What are our desired end results?

My message to those who attended the Branch meetings at which I have spoken is to individually and collectively address the matter and let me or National Office know of any suggestions you may have.

**Jeff Jones**  
President

# New Competence-based Registers Open

Three new competence-based registers officially open from the beginning of July 2007. With the new registers comes a streamlined assessment process and upgraded documentation.

IPENZ has recently introduced three more competence-based registers – the Engineering Technology Practitioner register (ETPract), the International Engineering Technologist register (IntET(NZ)) and the Certified Engineering Technician register (CertETn). The ETPract and CertETn registers are current-competence registers for engineering technologists and engineering technicians respectively that parallel the CPEng register for professional engineers. Each requires ongoing assessments for continued registration. The other new register IntET(NZ) is the engineering technologists' equivalent to the IntPE(NZ) register for professional engineers and is intended to

appeals) were published in the June issue of *engineering dimension*.

The regulations allow assessment panels to consider not only the registers that the applicant has applied for but other registers that the assessment panel considers more appropriate, given the level of competence demonstrated by the applicant's portfolio of evidence. Thus an applicant for ETPract may have provided sufficient evidence for the assessment panel to recommend him or her for CPEng (if the level was considered to be "complex engineering") or CertETn (if the level of engineering was assessed as "well defined").

- c) To clarify what is required for assessment when preparing their portfolios of evidence.
- d) To help candidates provide better quality evidence for assessment.
- e) To improve the quality and consistency of input from referees by providing them with better information and guidance.

The new application forms are now available on the IPENZ website. Anyone who has started their application can continue using the old forms as long as they lodge their application with IPENZ before 1 October 2007. After that date, all applications must be made using the new forms.

Applicants are reminded that they are responsible for presenting their best evidence for assessment. The new forms include clearer instructions to applicants on the evidence required for assessment, making it easier for them to identify important material to include in their applications. While assessment panels have the power to request more information or additional referees, the assessment process will operate more smoothly if applicants are able to provide all the critical information when they lodge their application. All existing assessors will receive training on assessments for the new registers and use of the new documentation during July, and training sessions for new Practice Area Assessors are scheduled for August.

All application documents are available from [www.ipenz.org.nz/ipenz/join](http://www.ipenz.org.nz/ipenz/join)

The regulations allow assessment panels to consider not only the registers that an applicant applies for, but those that the assessment panel considers more appropriate.

facilitate cross-border mobility of engineering technologists among signatory partners. It also requires ongoing assessments for continued registration.

Assessments for these new registers will follow the same assessment process used for CPEng and MIPENZ assessments, and will involve a panel of two assessors, at least one of whom will have experience and knowledge in the same area of engineering as the applicant. Full details on the regulations governing the operation of these registers (including assessments and

## Revised forms and guidelines

The introduction of the new registers provided an opportunity to review and upgrade all application documentation. The goals of this review were:

- a) To unify assessment application documents into just one set of forms to be used for all assessment applications – IPENZ Membership (MIPENZ, TIPENZ or AIPENZ) or any of the competence-based registers (CPEng, IntPE(NZ), ETPract, IntET(NZ), CertETn).
- b) To simplify the process to make an application for assessment.

## IPENZ Initiatives to Begin Immediately

Following May's Board retreat the Chief Executive proposed that changes recommended by the Board for the 2007–08 year commence immediately. The President agreed.

IPENZ will proceed immediately to increase our commitment to Member ethics, blameless reporting of near-failures in engineering practice, and marketing our new quality marks for engineering technologists and engineering technicians. IPENZ will further enhance *engineering dimension* and create a web-based engineering knowledge portal for Members.

Members will see a change to discipline-based newsletters. These newsletters will become the responsibility of the publications team, allowing Andrew Clark time to address the much wider role of Manager – Ethics and Discipline.

Over the next few weeks, the Manager – Ethics and Discipline will develop a proposal to introduce confidential reporting. In initial discussions, we have already received supportive feedback from

ACENZ and SESOC. As the project progresses we will provide further information in *engineering dimension*.

In addition to taking over the newsletters and launching a larger and more informative *engineering dimension*, the publications team will also develop a virtual library of New Zealand engineering knowledge. The virtual library will provide intelligent listings and ready access to material, and will hold some material in its own right, although the focus will remain on New Zealand engineering.

The virtual library will not attempt to digitise the full hard-copy collection of material – this would be expensive, time consuming and have a small return. As Members request hard copies, we will scan the document and file it electronically for future reference, making it readily available through a search. IPENZ already provides some of these services through the Energy Library, and we will seek feedback on the use of *Engineering Update* as we start to investigate the best method to provide this virtual library.

# Futureintech Funding Confirmed

## Four more years of Futureintech

Futureintech is delighted to announce that New Zealand Trade and Enterprise funding has been confirmed for the next four years, enabling the initiative to continue until 2011.

The initial four-year contract, begun in 2003, has been extended in recognition of the valuable contribution Futureintech makes to the promotion of careers in technology, engineering and science.

Over the past four years Futureintech has expanded across New Zealand, and contact has been established with 978 schools. This year Napier became the latest area to be covered by a Facilitator, and recruitment in the South Island is set to bring the number of Facilitators up to nine. More than 200 young professionals currently volunteer as Futureintech Ambassadors and over 340 visits to schools have been made by Ambassadors in 2007, with over 100 in our most active regions.

The Futureintech team is grateful for all the support shown by IPENZ staff and Members over the past four years, and we look forward to continuing progress in the future.

## Farewell Neil

After three and a half years as Futureintech Facilitator in Christchurch, Neil Potter is returning to the classroom as Deputy Principal of Twizel Area School, where his wife has just been appointed Assistant Principal.

Neil has been largely responsible for raising Futureintech's profile in the South Island, where he has enthusiastically and effectively established connections between schools and industries.

"It has been a wonderful experience for me to work with the Futureintech team. I have met fascinating people in both industry and education. New Zealand Trade and Enterprise's funding of this unique IPENZ programme should have far reaching effects on the number of students entering technological careers in the future."



Neil Potter – Outgoing Facilitator

## Volunteer Profile – IPENZ Branches

In this issue of *engineering dimension* we take a look at IPENZ's Branches and the valuable contribution that a host of Branch volunteers make to IPENZ and the engineering profession.

There are 17 IPENZ Branches, 16 in New Zealand and one in the United Kingdom. They vary in size from Auckland with 3,500 Members to East Coast with 19 Members. All Branches are run by local volunteers for the benefit of IPENZ Members.

Branches send regular newsletters and reminders to all Branch Members to engage them in professional activities, provide full programmes of varied activities throughout the year, provide engineering input to local and national issues, and interact with other local organisations.

### A modest lot

Branch volunteers are a modest lot but it is good to single them out as a group from time to time and applaud their efforts.

These busy engineers are prepared to give a few hours every month to attend monthly committee meetings, plan and oversee activities, attend Branch events, and generally assist Members with enquiries.

Branch Committees derive great benefit from the mix of knowledge, experience and enthusiasm of their volunteers. Volunteers get a high degree of satisfaction from creating opportunities for engineers to meet

and mix together, and see and hear matters of engineering interest. There is added satisfaction when volunteers can raise the profile of local engineering with their efforts.

### Programmes to suit

IPENZ Branches serve engineering communities of different sizes and interests and they tailor their programmes to suit. This year the Taranaki Branch ran a wine tasting, had a number of site visits, took a look at the history of Taranaki oil fields, and held a discussion on quantum computing.

Some neighbouring Branches have linked up for visits, dinners or luncheons. Otago and Southland Branches went to White Hill Wind Farm, Wanganui and Manawatu Branches visited the International Malting Company and Hawkes Bay and East Coast Branches looked around Pultron Composites.

The Branches give widespread support to *generate* and school initiatives, with some Branches recently donating money for student scholarships.

If you would like to help out or join your local committee, contact your local Branch by visiting [www.ipenz.org.nz/ipenz/who\\_we\\_are/organisation/Our\\_Branches.cfm](http://www.ipenz.org.nz/ipenz/who_we_are/organisation/Our_Branches.cfm)



# Scholarships Fund Postgrad Engineering Research

Engineering students have done well from the latest round of scholarship funding, with earthquake engineering, green technology and image processing all represented.



Auckland engineering student **AARON WILSON** has received a prestigious government scholarship to study how early brick buildings will behave in an earthquake.

Aaron was awarded a Top Achiever Doctoral Scholarship from the Tertiary Education Commission towards his postgraduate research. Aaron, from the Department of Civil and Environmental Engineering at the University of Auckland, will investigate clay brick buildings built before 1925 in the Auckland suburbs of Ponsonby, Grey Lynn, Newmarket and Parnell.

These buildings are unlikely to perform well in an earthquake and there is little information available on how to protect them or how much damage is likely to occur. Aaron says that New Zealand could lose many heritage buildings and suffer millions of dollars in damage and reconstruction costs if a major earthquake hit.

New Zealand adopted unreinforced masonry construction techniques in the early 20th century because materials were readily available. But after the Napier earthquake in 1931, their popularity declined until they were prohibited by law in 1965. However, Aaron says that some Auckland buildings have never been seismically retrofitted to bring them up to standard.

He plans to use the Faculty of Engineering's new Mobile Field Laboratory to simulate an earthquake on parts of buildings before moving on to full-scale tests of actual unreinforced masonry structures.



University of Auckland engineering student **EMILY VOYDE** has been awarded a \$25,000 Top Achiever Doctoral Scholarship to fund her study into green roofing materials.

Emily is the Faculty of Engineering's only PhD student assigned to conduct research on Engineering building's green roof, which was built in September 2006 with funding from the Auckland Regional Council.

She says the main purpose of a green roof is to reduce the volume of stormwater that ends up in our waterways, but it also benefits air quality, provides insulation and attracts biodiversity.

She explains her goal is to find the most effective combination of plants and substrates that can be retrofitted onto existing commercial buildings so that they release the maximum amount of water back into the atmosphere.

The materials must be low-cost, low-maintenance and very lightweight. Emily will concentrate on native plants and locally sourced substrates, such as pumice and zeolites, but she has ruled out soils because they are too heavy for most buildings.

Emily's results will allow her to model the environmental effects of green roofs and will help produce retrofit design guidelines for the Auckland Regional Council.



IPENZ Student Member **RICHARD CONROY** has been awarded a Fulbright-Ministry of Research, Science and Technology Graduate Award to continue his postgraduate work into 3-D image sensor technology.

Richard will continue his research into the design and manufacture of image sensor integrated electronic circuits at Noble Peak Vision Corporation in Boston. The award will fund this work for nine months while he works towards a PhD from Waikato University's Department of Engineering.

The Fulbright-Ministry of Research, Science and Technology Graduate Awards are for promising New Zealand graduate students to undertake postgraduate study or research at United States institutions in areas targeted to support growth and innovation in New Zealand. Approximately 11 awards valued at up to US\$25,000 plus travel expenses and insurance are offered each year.

# IPENZ Policy on Intellectual Property

After consultation at the 2007 Branch and Technical Group Forum, the IPENZ governing Board approved a new policy that clarifies who owns IPENZ intellectual property (IP) and how it should be used.

The policy aims to make IPENZ-owned IP widely available to Members, and allow Members to benefit from any fees charged to non-IPENZ IP users. The key points are summarised below.

## Who owns IPENZ IP?

IP created during IPENZ activities by Members, subsidiary organisations (Boards, Branches, Technical and Special Interest Groups, panels and working groups), employees and contractors belongs to the IPENZ legal entity.

Authors and creators have the moral right to be recognised as the creators of the IP, but may be required to sign an agreement acknowledging the transfer of any rights in IPENZ IP (including rights to revenue) to the IPENZ legal entity. Authors and creators must ensure that they properly acknowledge major sources for their contributions and seek permission to use IP from third parties if necessary.

Where a subsidiary organisation and National Office collaborate to create IP, the IP will belong to the IPENZ legal entity, but the contributions of the subsidiary organisation will be recognised fully, and the benefits of any revenue will be shared.

Where a subsidiary organisation is the sole creator of IP, it may exercise ownership rights on the use of that IP on behalf of the IPENZ legal entity.

IP created jointly by the IPENZ legal entity and other legal entities (such as Collaborating Technical Societies) will have shared ownership (either a proportional or equal share).

Where a person contributes a paper, presentation or report to an event or activity of any part of the IPENZ legal entity which is either published or made available electronically, this implies that the legal entity has been granted the ongoing right to use the copyright in perpetuity unless otherwise agreed. However, the author retains the right to reuse the material personally as often and as completely as he or she wishes.

## How should IPENZ IP be used?

IPENZ Members may copy IPENZ IP that is not a trademark or patent that is regarded as a "Member benefit" for their individual and



personal private or business use. However, Members may save or print copies of the material on the IPENZ website for personal use only, and the contents of *e.nz magazine* cannot be copied without permission until at least six months after publication.

Members are required to pay a reasonable fee to use IPENZ IP that is not regarded as a "Member benefit", but the fee will be lower than that charged to a non-member.

Where a Member's employer wishes to access IPENZ IP, the Member must decide whether the employer should be supplied with a copy free of charge, in recognition of the support by that employer for IPENZ, or whether the employer should be asked to pay the non-member fee.

IPENZ National Office and subsidiary organisation activities may use IPENZ IP that is not a trademark or patent during IPENZ activities without charge, provided that IPENZ and its Members are acknowledged.

Trademarks registered and owned by the IPENZ legal entity may not be used without prior written permission.

Where IPENZ IP is jointly owned with another legal entity the organiser of the IPENZ activity wishing to use the IP must obtain the permission of the other party and if necessary pay any fees.

Non-members need IPENZ permission to use IPENZ IP in the form of copyright. This includes all publications.

## Need more information?

- View the full policy on the IPENZ website [www.ipenz.org.nz](http://www.ipenz.org.nz) and in the Branch, Technical and Special Interest Group, and Collaborating Technical Society manuals.
- Contact Chief Executive Andrew Cleland at [CE@ipenz.org.nz](mailto:CE@ipenz.org.nz) or Managing Editor Charlotte Stapleton at [editor@ipenz.org.nz](mailto:editor@ipenz.org.nz)

# Queen Honours IPENZ Members

Many IPENZ Members make outstanding contributions in their work and community lives, but each year the New Zealand Royal Honours recognises the most distinguished. IPENZ would like to congratulate four Members who were recognised in the 2007 Queen's Birthday Honours List.

## HENRY WILLIAM VAN DER HEYDEN

**HonFIPENZ** became a Distinguished Companion of the New Zealand Order of Merit for services to agriculture. Henry has been involved in farming for over 20 years. He operates three dairy farms and a dry stock holding and has contributed to industry governance for over 15 years. He joined the New Zealand Dairy Group in 1992 and was made Deputy Chairman and later Chairman. He is also a former Director of the New Zealand Dairy Board. He is a founding Director and the current Chairman of the Fonterra Co-operative Group. As both a Director and Chairman, he has been instrumental in the industry rationalisation that has led to Fonterra's establishment and has pioneered the establishment of stronger shareholder representation which led to the creation of Fonterra's Shareholders Council. He serves on the University of Waikato's School of Management Advisory Board, and is a trustee of Asia New Zealand.

## MITA ROBERT HOTUROA (BOB) HENARE

**DistFIPENZ** was made a Companion of the New Zealand Order of Merit for services to the public health sector. Bob has been involved in the public health sector for many years. He recently resigned as chair of the Capital and Coast District Health Board after 17 years' service. He became a member of the Wellington Area Health Board in 1989 and later Deputy Chair. During his time with the organisation, he was involved in the Regional Hospital Project, the establishment of Primary Health Organisations, the joint hydrotherapy project with Wellington City Council, and forging a partnership between

hospitals and the community. He was instrumental in establishing the Māori Partnership Board and has been an active advocate for the engagement of community representatives on the advisory committees that support the Board. Bob has been a director of many companies, including the Prudential Insurance Company of Greymouth, the Airways Corporation of New Zealand and is currently director of Te Roopu Huihuinga Hauora.

**NEIL KEVIN MANDER FIPENZ** became a Member of the New Zealand Order of Merit for services to engineering and the community. Neil has contributed to the engineering profession and the community for many years. He established the Register of Engineers for Disaster Relief New Zealand and has been a member of the Sustainable Energy Forum for over 10 years. He was also the editor of the Engineers for Social Responsibility newsletter for 13 years and served as a lay preacher and organist with the St Giles Presbyterian Church in Mt Roskill. Neil was involved in the New Zealand Campaign Against Landmines, becoming the National Co-ordinator of the campaign involved with the Ottawa signing and the Maputo Conference as part of the New Zealand Government delegation.

## WILLIAM HENRY (BILL) ROBINSON

**DistFIPENZ** was made a Companion of the Queen's Service Order for services to engineering. Bill's career in mechanical engineering, specialising in seismic isolation, spans 40 years. He was the founder, Director, and former Chairman of Robinson



Badge for Members of the New Zealand Order of Merit

Seismic Limited and was instrumental in the development of the lead rubber bearing in 1976, used in the base isolation of buildings. The device has since been used for notable buildings, such as Parliament Buildings, Te Papa, and the new Wellington Hospital. There are also over 1,000 buildings worldwide that use the system. He has also invented two vibration dampers and a new seismic isolation system, and written more than 60 papers, including the book *An Introduction to Base Isolation*. He has been made a Fellow of the Royal Society of New Zealand, and was awarded the Society's Rutherford Medal for Technology in 1999. Bill was awarded an Honorary Doctorate from Victoria University of Wellington.

# Latest on Producer Statements

IPENZ, ACENZ and the Institute of Architects (NZIA) have collaborated to revise the format of the producer statements PS1 Design, PS2 Design Review and PS4 Construction Review. These may be downloaded from the IPENZ website at [www.ipenz.org.nz](http://www.ipenz.org.nz)

In its recent discussion document citing AS/NZS 1170 as the loading standard for the Building Code, the Department of Building and Housing (DBH) did not stipulate the use of these producer statements to

certify compliance, but IPENZ and ACENZ recommended their use in a joint submission to the DBH.

Since then, the DBH has publicised the producer statements and encouraged their use in its publication *Codewords*.

An upcoming *Practice Note* will offer information and references, and will be reviewed to ensure it complies with the emerging LBP regime.



# Hydro Expertise Hard to Replace

**DON PRESTON FIPENZ**, renowned hydroelectric engineer and Director of engineering consultancy MWH, died on 27 April 2007 aged 67.

After graduating from the University of Canterbury with a BE (civil) in 1961, Don worked for the Christchurch City Council, Proctor and Redfern in Toronto and Oscar Faber in London. His engineering career with Royds Sutherland Evans & McLeay began in 1969. During his many years with the firm, he played a pivotal role developing the company in New Zealand. As a member of the Royds Board of Directors he steered the firm through a major merger with Garden & Partners in 1985 and he played an instrumental role in the merger of Royds Consulting with Montgomery Watson in 1995.

Don had a very successful career as a civil

engineering technical specialist, manager and director. He had a passion for small-scale hydroelectric engineering and he made a significant contribution to small hydropower schemes in New Zealand and a number of other countries. His expertise was highly sought after and nationally recognised, and he was known for his commitment to mentoring young engineers.

Many of Don's solutions were highly innovative but always based on sound engineering principles. He worked on the Haast Hydro Project and moved to Greymouth in 1974 to establish a new Royds office. He played a major role in many other New Zealand hydroelectric schemes such as Dillman's, Branch River and Wahapo.

Don semi-retired at age 65, but continued working part-time on hydro and irrigation



Don (right) shows Minister of Energy Bill Birch the Dillman's hydro scheme on the South Island's West Coast (circa 1970).

projects. MWH engineers frequently called on him for specialist advice – expertise that will be difficult to replace.



## IPENZ Professional Development Short Courses

### The Building Act 2004: Demonstrating Compliance

Christchurch	25 July
Dunedin	26 July
Taupo	31 July
North Shore	2 August
Auckland	3 August

### Bulk Storage of Hazardous Substances

Wellington	1 August
Auckland	9 August
Christchurch	14 August
Tauranga	22 August
New Plymouth	30 August

### Leadership and Management Essentials

Wellington	6 August
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### Moving from Technical Expert to Management

Wellington	7 August
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### Contract Management

Christchurch	13 August
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### Specification Practice

Wellington	17 August
Christchurch	24 August

### Effective Report Writing for Engineers

Auckland	24 August
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### Cost:

Half day	\$315.00 incl GST – IPENZ Members
	\$360.00 incl GST – non-members

### One day

	\$495.00 incl GST – IPENZ Members
	\$540.00 incl GST – non-members

Participants may choose to do a work-based project after some short courses and submit it to the facilitator for feedback. If this assessment option is chosen, the additional

cost is \$54.00 including GST. All short courses may be tailored to suit the needs of organisations.

Registrations close one week before the start of the course or seminar in each location. Full details are available at [www.ipenz.org.nz/ipenz/nzecal/ks.cfm](http://www.ipenz.org.nz/ipenz/nzecal/ks.cfm), by emailing [CPD@ipenz.org.nz](mailto:CPD@ipenz.org.nz) or telephoning Josie Butler on 04 474 8982.

### Other Courses:

#### Project Management Distance Learning Course

Full information is available at [www.ipenz.org.nz/ipenz/nzecal/distance-learning.cfm](http://www.ipenz.org.nz/ipenz/nzecal/distance-learning.cfm)

#### Short Courses in Project Management

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