

August 2006 • Issue 51

## President's Message



### Solving the problem of perception

One of our great strengths as engineers is that we know how to approach complex problems. Indeed, as those of you who have attended my Branch addresses will know, I think this is one of the things that distinguishes us from other professions – while others chip away at the edges, we know how to pull problems apart until the bits are familiar or manageable, and then put a solution

together. As someone great once said, "engineers solve problems that are too complex to solve" (actually it was someone at a Branch meeting – well put!).

Perhaps as a consequence of this fearless approach to problems, we tend to think that other parts of our business, like finance, marketing, HR and public relations, are equally amenable to the same kind of problem solving. Therefore, once we understand the basics, we have no real need to take expert advice in these areas – after all, airport bookshops are full of this kind of information, so how hard can it be? (And where are all the books on the technical stuff like roads and robotics anyway?)

But, our failure to communicate at other than a very technical level is indisputable, and perhaps we must concede that there is more to this marketing and PR stuff than meets the eye. So, if you've noted our new IPENZ visual identity in this issue, maybe you can see where this column is going.

It is fair to say that our governing Board was reluctant to consider any changes to our image. I, for one, remembered the controversy over the last round of rebranding, and had also grown to be quite comfortable with our quirky name and its koru-like "e". However, our marketing and publications staff were far from happy with our visual image and its associated public perceptions, so the Board asked them to present some new options before deciding what to do. On seeing the outcome, I quickly realised that we did indeed need to rethink our visual identity and, after expressing a very wide range of personal preferences, the majority of the Board agreed.

Our expert team argued thus: "The success of any logo is that it holds meaning within the context of the organisation. In the past we have not been able to defend the meaning of our logo within any real engineering context. The new visual identity has strong engineering elements which are easily recognisable and defensible. It also maintains elements from the previous logo, providing a degree of consistency". They also presented the current and desired perceptions of IPENZ from the points of view of the general public, policy makers, users of engineering services and engineers themselves, and in that context came up with a range of options. The Board considered all of these options and approved the final design which you see herein.

If you like the outcome, you will probably also agree with our design team, who thinks that it is "fresh, forward thinking and modern". But I appreciate that not all of you will like the outcome; some of you may also argue that this is a significant change for the organisation which should not have been made without

widespread consultation. In that case, a) consider that the key point about our branding and visual image is actually the messages they send to others, and b) please go back to the beginning of this column and read it again.

**Peter Jackson**

President

## Getting it Right First Time

### Structural Engineering – A Programme of Action

The IPENZ governing Board has recently been looking at concerns expressed about standards of structural engineering design, detailing and construction. These concerns are not new and in 2003 the Structural Engineering Taskforce reported on ways in which the profession should respond to them. Many of the actions it recommended are underway, but it is clear that problems remain and some are saying that they have worsened. Well-respected engineers in consulting practices, construction companies and territorial councils are all saying that standards of training, design, detailing and construction supervision are still too low.

Rather than blaming the legislation, building consent processes or even clients, the profession itself needs to take action. These actions should focus on reinforcing the self-regulation of the profession. This means setting and implementing our own standards and addressing complaints or problems with clear and transparent processes. Our standards and processes need to be clearly understood by all members of the profession and also apparent to the community in which we work.

The objective is to ensure that buildings involving structural engineering are safe and fit for purpose, and that councils (as building consent authorities) and the Department of Building and Housing can be confident that our self-regulation is reliable. The alternative, as expressed by President Peter Jackson in the June issue of *engineering dimension*, is the very real danger that others will regulate our activities in ways that downgrade us from a professional to a purely technical role.

There are four areas of action that IPENZ will co-ordinate, working with other organisations as appropriate (see diagram on page 2). Each area involves deciding what the best practice should be, ensuring that structural engineers are fully aware of the expectations of them, and then providing information to public bodies and the community on what they should expect from us.

It is intended that the information will be codified, referring to existing codes and guidelines as appropriate but expanding on them as a stretch from present practice. It will include such matters as:

- ensuring effective verification and checking of designs
- improving mentoring of junior staff
- better systems to ensure that the latest research results are incorporated into design methods
- ensuring that designers have a role in the construction phase to make certain that the final product is safe and fit for purpose

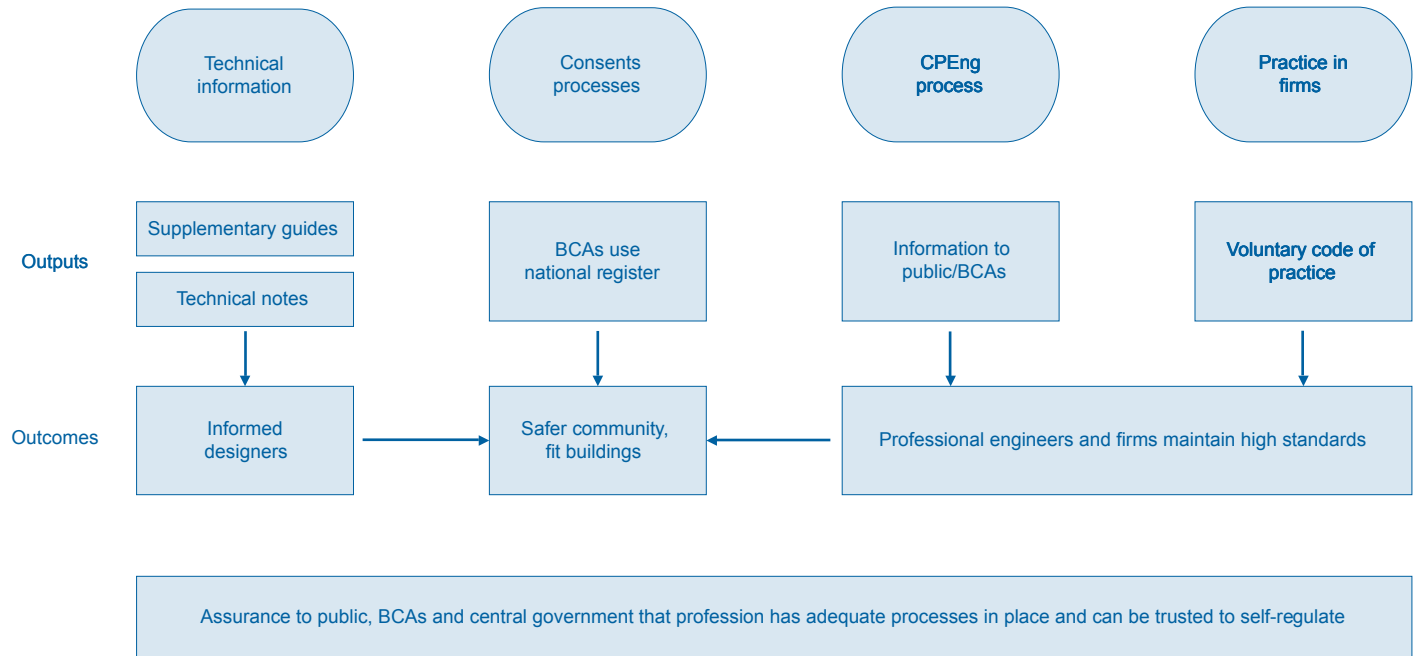
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The Board has decided that these tasks do not require a new taskforce. Instead, this series of discrete work areas will be action-oriented and involve collaborative work in small teams. These teams may include expert personnel from organisations such as universities, industry organisations, local and central

government bodies, Technical Interest Groups and Collaborating Technical Societies, as well as individual professional structural engineers. Other tasks will be carried out at IPENZ's National Office and substantial progress in all areas is expected by the end of the year.

### Getting it Right First Time



### Improvements to Fellowship Elections for 2006/2007

The governing Board recently approved changes to the way that nominations and applications for Fellowship are evaluated, following feedback on the outcome of the last election process. In 2005/2006 there were 50 nominations but only 33 succeeded. This is in contrast to previous years in which there were 30 or fewer nominations and only one or two were unsuccessful.

None of the basic criteria for demonstrating a significant contribution have been changed, but one specific qualifying requirement has been added: "It must be demonstrated that, throughout their career, candidates have been regarded by their professional engineering peers as being practitioners of high competence."

In terms of the evaluation process, the following changes have been made:

- In addition to a supporting statement in relation to the Fellowship criteria, nominators must now provide an opinion on the competence of the candidate they are nominating.
- Referees will be asked to comment on not only how the candidate meets the Fellowship criteria (existing requirement), but also his or her engineering competence (new requirement).
- When it evaluates each candidate, the Fellowship Panel must make one of three recommendations: to elect the candidate as a Fellow, decline the candidate, or hold over the candidate for further consideration in subsequent years (a new option). In general, candidates who are not recommended for election to Fellowship, but are seen as potentially able to demonstrate achievement of the criteria, will be held over for a maximum of five years from the date of the initial application or nomination. If the candidate has not been elected a Fellow by the end of the five years, the nomination or application will lapse. Candidates who are considered to be unlikely to meet the criteria within a five-year period, even with feedback to improve the

application, will be declined immediately.

- The Fellowship Panel must state reasons for each candidate it recommends to be declined, and provide feedback to the nominators or applicant in the case of each candidate it recommends to be held over (new requirement).
- For any candidate held over, in each successive year (to a maximum of four years) the nominators or applicant will be invited to update their nomination or application in the light of the feedback given the previous year.

The net effect of these changes will be the creation of a queue which ensures that only the most deserving cases are elected each year, but allows others to be held over for future consideration. Overall, these changes should ensure that Fellowship is awarded to the most deserving nominations over a period of time.

All unsuccessful candidates from 2005/2006 have been automatically moved to "held over" status. The 2006/2007 Fellowship Panel will consider these again as "new" applications. Depending on how well nominators respond to the feedback given by the 2005/2006 Panel, it would be expected that a reasonable number of these will succeed, some will be held over again, and some may be declined because they are unlikely to succeed within a further four years even if held over.

Nominators of candidates who were declined in the last three or four years are also welcome to consider renominating the candidates concerned if they consider that they can address the feedback given when the nomination was declined.

The application form for 2006/2007 will be updated to reflect these changes and will be available from the IPENZ website [www.ipenz.org.nz/ipenz/forms/pdfs/](http://www.ipenz.org.nz/ipenz/forms/pdfs/)

Nominations and applications must be submitted by mid-October.

## A New Look for IPENZ

The unveiling of the new IPENZ brand is the culmination of months of hard work and consultation. In this issue of *engineering dimension*, we introduce IPENZ's updated visual identity.

Most people know their organisation's values and brand message, but often they fail to make sure that everyone else knows them too. The result? A weakened brand that conveys different messages inside the organisation and out in the marketplace. The "brand team" set out to strengthen the way in which IPENZ presents itself to the outside world.

Graphic designers and engineers have one key thing in common. They are both trained to look at the structure of things: How is this made? What makes it work? The team knew that our brand wasn't working as well as it could, however they had to clarify why it wasn't working and how they could fix it.

When they deconstructed the old IPENZ brand, they found its elements were not clear or concise. The spiral "e" in the old logo was not clearly understood, and the mixed letters, styles and weights also made the word "IPENZ" unclear. The meaning of our logo did not stand strongly within an engineering context, and had become outdated.

The challenge was to create a contemporary brand that was still able to carry the accumulated equity of IPENZ – that is, the set of unique qualities and associations that have been ascribed to it over time. In order to retain this asset, the

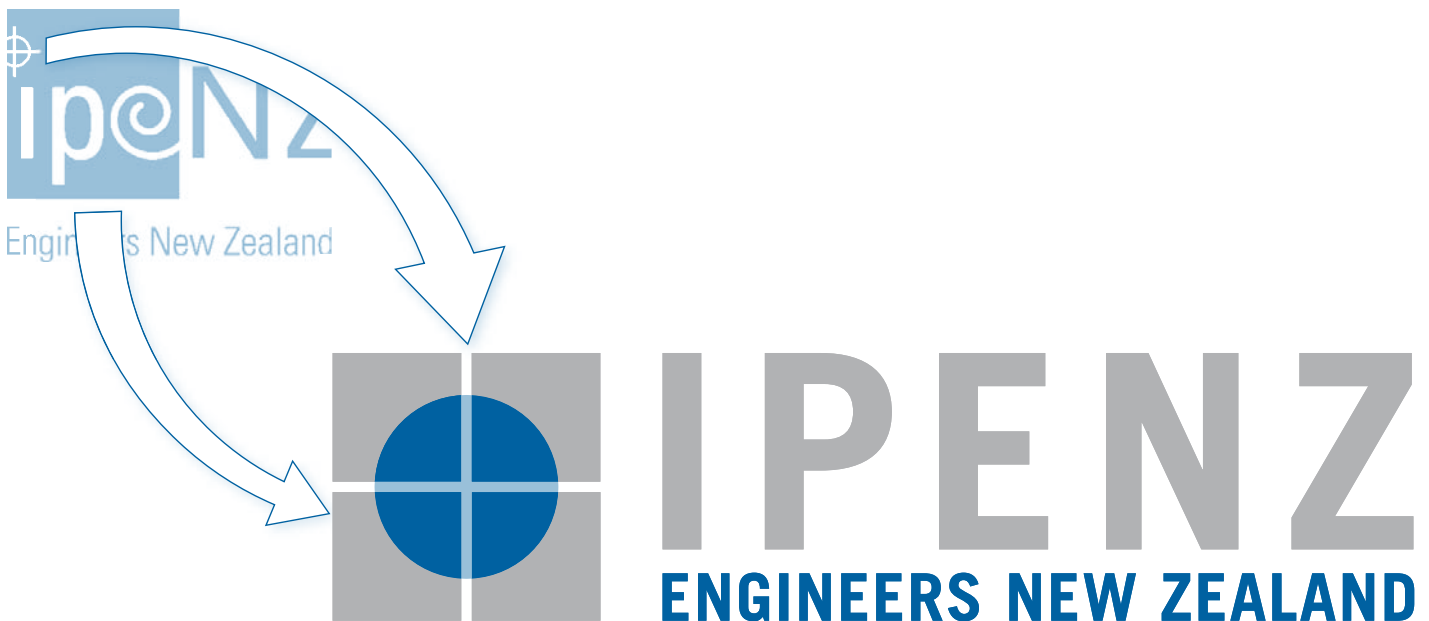
meaningful and understood elements of the brand had to be clearly agreed upon and brought forward into the new design.

The team therefore created a fresh new look for IPENZ which updates our brand whilst retaining the successful elements of the old look. The engineer in the brand team was able to provide an insight into what the dimensioning circle symbol means to an engineer. The new logo includes the dimensioning circle situated in the top left of our old logo, but creates a clearer engineering context by giving it much more emphasis.

Whereas the word "IPENZ" was unclear in the previous logo, the new logo clearly highlights our name and strongly echoes our Members' postnominals: FIPENZ, MIPENZ, TIPENZ, AIPENZ, GIPENZ.

Another important consideration in establishing a strong brand identity is the psychology of colour. In branding terms, blue suggests leadership, justice, stability, loyalty and reassurance. The brighter blue of the new brand is also the colour for "freshness". In some contexts, a silver metallic ink will be used where grey appears in the logo, which will add prestige. In addition, retaining a refined form of the IPENZ crest in the organisation's official documents will also help to reinforce this quality.

In essence, the product the team has created is fresh, clean, modern, versatile, precise and clearly grounded in an engineering context.



Entries for the 2006 New Zealand Engineering Excellence Awards are now closed and the judges have already started the judging process. That means it's time for you to spruce up your glad rags and get ready for the most prestigious black tie event on this year's engineering calendar.

Planning is now underway for the gala dinner and awards presentation to be held in Wellington on Wednesday 22 November at TE PAPA.

Tickets for the event are on sale NOW. Mark the date in your diary and visit

[www.nzeeawards.org.nz/2006forms/nzee-a-dinner-registration-06.pdf](http://www.nzeeawards.org.nz/2006forms/nzee-a-dinner-registration-06.pdf) to purchase a ticket!

Proud sponsors of the event include Works Infrastructure, Transfield Services, Department of Building and Housing, New Zealand Utilities Advisory Group, Land Transport New Zealand, Road Controlling Authorities Forum, New Zealand Steel, ONTRACK, Energy Efficiency and Conservation Authority, Industrial Research Limited, Broadcast Communications Limited, The Open Polytechnic of New Zealand, Career Engineer and the IPENZ Foundation.

# The Institution of Professional Engineers New Zealand Incorporated

## Notice of Special General Meeting

When: 5.30pm, Tuesday 3 October 2006

Where: Holiday Inn, City Centre, Corner Cashel and High Streets, Christchurch

## Agenda

1. Confirmation of Notice of Meeting
2. Apologies
3. Changes to the Rules of the Institution: Notice of Motion

The President shall move and the Deputy President shall second the motion that:

Rule 14 of the Institution be repealed and replaced by the following Rule:

### **RULE 14 Composition, Office Tenure and Elections of the Board**

- 14.1 The affairs of the Institution shall be governed by a Board, which shall consist of:
- a. The President, the Deputy President, and the Vice-President each elected for a term of one year.
  - b. Six Board Members each elected for a term of two years.
  - c. No more than two Board Members each appointed by the Board for a term of one or two years.
  - d. The most recent Past President who is willing and able to serve, ex-officio for a term of one year.
- 14.2 The President, Deputy President, Vice-President and Past President shall be collectively known as the senior office holders of the Institution.
- 14.3 Three of the six elected Board Members shall complete their two-year terms of office at alternate Annual General Meetings.
- 14.4
- a. Only Fellows shall hold the office of President, Deputy President or Vice-President and no such Fellow shall hold the same office for two consecutive years unless he or she is elected to that office for a second time by the process set out in these Rules.
  - b. No Member who on completion of his or her term of office has served for six or more consecutive years on the Board shall again serve on the Board until six months have elapsed except that the President, the Deputy President, the Vice-President and immediate Past President shall not be excluded from such offices by reason of previous service on the Board and a Member who has served for five consecutive years on the Board shall not be excluded from serving a full term of two years.
- 14.5 The term of office of each Member of the Board shall begin at the conclusion of the Annual General Meeting immediately following election or appointment and shall end at the conclusion of the first or second Annual General Meeting thereafter as the case may be.
- 14.6
- a. The Board may fill a casual vacancy among its elected or appointed Members.
  - b. The election to the office of President, Deputy President, or Vice-President of an elected or appointed Member of the Board before the expiry of the term of office for which the Member was elected or appointed shall be deemed to create a casual vacancy.
  - c. Each Member appointed to fill such vacancy shall hold office for the remainder of the term of the Member of the Board replaced. For the purposes of Rule 14.3 the service of a Member so appointed for a partial term shall be disregarded.
  - d. Each vacancy not filled at an election of Members of the Board shall be deemed a casual vacancy. For the purposes of Rule 14.3 each Member appointed to fill such a vacancy shall be deemed to take office as if duly elected.
- 14.7
- a. Any Financial Member may nominate any other Financial Member for one of the positions as elected Board Member.
  - b. Any Financial Member may nominate for the office of President, Deputy

President or Vice-President any Fellow who is a Financial Member, provided that the nominee for President if and when elected shall within the previous five years have served for not less than two years as a Member of the Board.

- c. Each nomination shall be in writing on the prescribed form and shall bear the consent in writing of the Member nominated.
  - d. Each candidate shall be invited to submit with the nomination paper the following information:
    - i. name, photograph and personal information
    - ii. Membership history including dates of election to or transfer between Membership classes
    - iii. present position or occupation and brief work history
    - iv. offices (present or former) held in the Institution or its Branches, Practice Colleges, Technical Interest Groups, Special Interest Groups or Chapters
    - v. a brief supporting statement
  - e. Nominations shall be received by the Chief Executive and shall close on a date set by the Board, which date shall be no later than 42 days before the Annual General Meeting.
- 14.8
- a. The names of Members nominated for each office shall be printed on ballot papers one of which together with a summary of the information referred to in Rule 14.6(e) shall be posted not less than 28 days before the Annual General Meeting to each Voting Member entitled to vote thereon.
  - b. Each Member voting shall mark the ballot paper in accordance with the instructions thereon and shall return such ballot paper to reach the Chief Executive before a closing date set by the Board and not later than 14 days before the Annual General Meeting.
  - c. Upon resolution of the Board, the processes described in a. and b. may be undertaken using electronic means to distribute the ballot papers, facilitate the voting process and submit votes to the Chief Executive
  - d. The Board shall appoint two or more scrutineers being neither Members of the Board nor candidates in the election.
  - e. Such scrutineers shall count the votes and report thereon to the Board not later than seven days before the Annual General Meeting.
  - f. The Board shall report to the Annual General Meeting the names of the candidates elected.
  - g. On application to the Chief Executive, each candidate shall be given confidential particulars of the votes cast in respect of the office for which the candidate was nominated.
  - h. Where there are more than two candidates for the position of President, Deputy President, or Vice President, the voting system used shall be a preferential voting system.
- 14.9
- a. If practicable, the Board shall select any appointed Board Member at a meeting of the Board immediately preceding the Annual General Meeting.
  - b. Such appointment shall if practicable be reported to the Annual General Meeting, and failing that as soon as possible in the official journal of the Institution.

### **Rationale for changes**

The Board has called a Special General Meeting to make changes to Rule 14, the Rule under which the governing Board is established.

The proposal results from a review of the present governing structure, which has been in place for just over 10 years. The Board consulted a number of Past Presidents and reached the consensus that, whilst the present governance arrangements have been successful, a little more flexibility would be helpful.

The proposed changes to Rule 14 are intended to create that flexibility. There are three facets to the changes:

- The present Board has a fixed size of 12, of whom 10 are elected and two

are appointed. The proposed changes make the addition of the two appointed Members optional. Ten Members is seen as sufficient; having the option to add one or two Members with particular skills is seen as useful, but should not be obligatory.

- It is proposed that the ongoing custom of referring to the President, Deputy President, Vice-President and Past President as the "senior office holders" be formally recognised.
- It is proposed that the present Rule which prohibits a person serving as President in two successive years be relaxed. There may be particular circumstances where it would be advantageous for a serving President to continue, but this must be supported by the Membership through the election process in order for it to occur.

The Special General Meeting will be held immediately after a governing Board meeting in Christchurch, and has been scheduled to coincide with the start of a Canterbury Branch meeting so that the quorum of 30 should be comfortably reached with the support of Canterbury Branch Members. If the proposal is passed, the election of the 2006/2007 governing Board will be held according to the revised Rule.

## Movers and Shakers



**Brian Rhoades FIPENZ** has been appointed as the new Chairman of Industrial Research Limited and as a Tertiary Education Commissioner.

Brian holds BE (Hons) and PhD degrees in mechanical engineering from the University of Canterbury. He spent the first nine years of his career as a lecturer in production management and materials science at the University of Canterbury. Brian then progressed through management positions within the AHI/Carter Holt Harvey Group, and was Chief Executive of Sealord Products Ltd from 1985 to 1994.

Since 1994 he has focused on strategy development and commercial projects which call on both his technical and business background. Brian has a wide range of industry experience as director or chairman of a number of organisations, including current chairmanship of the Council of Nelson Marlborough Institute of Technology and Nelson Electricity Ltd.



**Doug Heffernan FIPENZ** has been appointed to the government's sustainable water panel, which will advise the government on improvements to freshwater management in New Zealand. The aim of the group is to underpin the government's Sustainable Water Programme of Action, by providing leadership and expertise in water management, as well as access to broad local government, industry, Maori, environmental and community networks.

Doug completed a PhD in engineering at the University of Canterbury and gained professional engineering experience both in New Zealand and in Switzerland.

Early in his career Doug quickly became one of New Zealand's experts on electricity transmission. From 1987 to 1991 he worked in various roles at the Electricity Corporation of New Zealand. Doug was then Chief Executive of Power New Zealand from 1991 to 1997, and has been Chief Executive of Mighty River Power for the last eight years.



**Professor Bob Hodgson FIPENZ**, Director of the Massey University School of Engineering and Technology, has been confirmed for an additional term as the Chairman of the New Zealand Council of Engineering Deans. The Council acts as a consultative and advisory body on behalf of the professional engineering education sector. Bob is also a member of the Performance-Based Research Fund Peer Review Panel for engineering, technology and architecture.

Bob recently represented IPENZ and chaired a panel of representatives from other Washington Accord signatories (Canada, Ireland, Hong Kong, Japan and South Africa) advising South Korea on the accreditation of engineering degrees.

He was also recently re-appointed to the IPENZ Standards and Accreditation Board. This Board approves education and competence standards and policies, and is responsible to the IPENZ governing Board for the accreditation of engineering degrees under the Washington and Sydney Accords.

## Member Services

### Engineering Practice Support

IPENZ encourages Members to follow recognised professional practices in their day-to-day engineering activities. To assist Members in doing so IPENZ has developed a series of *Practice Notes* as a source of endorsed advice to engineers on practice-related issues.

Note 1 – Producer Statements

Note 2 – Peer Review

Note 3 – Media Tips

Note 4 – Safety and Engineers

Note 5 – Sustainability and Engineers

Note 6 – Developing and Maintaining Client Relationships

To discuss the use of these documents contact our Engineering Practice Manager Andrew Clark on 04 474 8986 or email [practicemanager@ipenz.org.nz](mailto:practicemanager@ipenz.org.nz)

### Energy Library

Members can access specialist technical material at the Energy Library.

The Energy Library is the main access point for technical and scientific information in the New Zealand energy sector and related industries.

There is also considerable overlap with more general information needs, for example, IPENZ contributes a range of technical and heritage publications to the collections.

IPENZ has negotiated a membership deal with the Energy Library which gives Members:

a reduced individual membership fee (\$85 instead of the standard \$120)

access to the Energy Library database of resources

borrowing and usage rights for a substantial collection of books, standards and journals

research services

a monthly email alert service for newly acquired and free information resources.

For further information about the Energy Library visit [www.energylibrary.org.nz](http://www.energylibrary.org.nz)

### Informatory Notes

IPENZ seeks to contribute on matters of national interest. One method of doing so is via *Informatory Notes* which give a learned view on important issues independently of any commercial interest. Such notes are not consensus papers of the Institution's Membership but rather an exploration of the issues and possible outcomes. There are 12 *Informatory Notes* currently available from [www.ipenz.org.nz/ipenz/media\\_comm/informnotes.cfm](http://www.ipenz.org.nz/ipenz/media_comm/informnotes.cfm)

## IPENZ Pickering Lecture Series – 4 to 14 September 2006

Nanoscale technology is very small – about one thousandth of a millimetre – but it is also very big. It is the revolutionary technology of the 21st century and it has the capacity to change the way we live our lives.

With nanotechnology we can manufacture self-cleaning windows, synthetic bone and concrete that heals its own cracks. We can produce goods that are stronger, smaller, lighter and more energy efficient. We can also conserve natural resources. There are, however, risks that must be managed.

IPENZ is fortunate to have engaged three excellent nanotechnology speakers for this year's Pickering Lecture Series: Mike Treder, Professor David Officer and Associate Professor Richard Blaikie.

IPENZ Branches will be hosting these free public lectures. Don't miss them!

### Itinerary

Monday 4 September	Otago
Tuesday 5 September	South Canterbury (lunchtime) and Canterbury (evening)
Wednesday 6 September	Nelson-Marlborough
Thursday 7 September	Wellington
Monday 11 September	Taranaki
Tuesday 12 September	Wanganui
Wednesday 13 September	Manawatu
Thursday 14 September	Auckland

Venues and times will be announced once they are confirmed. For further information contact Kathryn McGavin, Branch Facilitator, on 04 474 8989 or [kmcgavin@ipenz.org.nz](mailto:kmcgavin@ipenz.org.nz)



### Mike Treder

Executive Director, Centre for Responsible Nanotechnology, New York



### Professor David Officer

Director, Nanomaterials Research Centre, Massey University



### Associate Professor Richard Blaikie

Electrical and Computer Engineering, University of Canterbury, and Deputy Director, MacDiarmid Institute

## IPENZ Endorsed Employers

Generation Y graduate engineers seek employers who provide professional development and solid work training opportunities. Endorsed Employer status is keenly sought by a variety of companies as it is seen to be an important mechanism to attract these recent graduates into employment.

The IPENZ Standards and Accreditation Board has recently approved the addition of the following firms to the growing list of IPENZ Endorsed Employers:

- Davis Olgivie & Partners Ltd
- Alan Reay Consultants Ltd
- Higgins Group Holdings Ltd
- AC Consulting Group

These firms have provided evidence that they are committed to investing in the professional development of their engineering graduates, and using the IPENZ competence development programmes and web-based services for graduates.

Graduate engineers in these firms can be assured that they will be mentored and given the opportunity to develop the competencies expected of engineering practitioners, through experiential learning and participation in professional development activities.

All endorsements are subject to three-yearly review. Harrison Grierson Consultants Ltd, Lewis and Barrow Ltd, and Fulton Hogan Ltd have recently undergone a review and we are very pleased to advise that the Standards and Accreditation Board has approved the continuance of their IPENZ Endorsed Employer status. Congratulations.

Feedback from a number of participating companies has prompted a review of the current Endorsed Employer policy. A draft revised policy had been developed to broaden the approach so that all employees are included in professional development. It also requires that the programme for graduates is implemented and documented more rigorously. The draft policy is currently out for consultation and should be ready for implementation before the end of the year. From that time, all new applications will be benchmarked against the new policy and all existing Endorsed Employer companies will be reviewed against the new criteria over the next two years.

For further information regarding the IPENZ Endorsed Employer programme contact Jeanette van Barneveld, Competence Development Manager, at [jvanbarneveld@ipenz.org.nz](mailto:jvanbarneveld@ipenz.org.nz) or visit the IPENZ website [http://www.ipenz.org.nz/ipenz/Education\\_Career/EndorsedEmployers/Employers.cfm](http://www.ipenz.org.nz/ipenz/Education_Career/EndorsedEmployers/Employers.cfm)

## Update – Professional Engineers and Emergency Management

Thank you to those Members who put their names forward for the IPENZ list of professional engineers available for emergency management issues. Recent events around the world have reinforced the importance of every nation having a well-organised infrastructure of professional engineers capable of responding when required.

The steering committee has been quiet but not inactive. It has spent considerable resources working through a number of issues relating to liability, both real and perceived, that can arise from the involvement of professional engineers in

emergency situations. Hopefully this work is nearing completion. Shortly IPENZ hopes to release a *Practice Note* on the subject of professional engineers and emergency management, which will address some of the liability issues.

The infrastructure in the IPENZ database for recording volunteers and their training is now complete, as is the web interface to allow emergency management professionals to identify Members on the list. We will contact Members on the list shortly. In the meantime, email [peem@ipenz.org.nz](mailto:peem@ipenz.org.nz) if you have any questions.

## Schools Update

As mentioned in the June issue of *engineering dimension*, recent achievements by both Futureintech and Techlink have resulted in the expansion of both of these initiatives. To facilitate this growth IPENZ has created the new "Schools" team.

### Futureintech



Futureintech has just signed on a new Facilitator to work in the Auckland region. Up until the end of last term Rod Hare was teaching science at Orewa College. Rod's experience in both primary and secondary teaching and his background in science will be a valuable asset to Futureintech. Rod started at the beginning of August and will work closely with Auckland-based Facilitators Angela Hart and Gay Watson to meet the increasing demand for Futureintech Ambassadors in Auckland schools.

### Techlink



*"IPENZ brings a wealth of knowledge and experience in professional technology to the partnership and the Ministry's input ensures a quality collection of resources for technology education is available for New Zealand teachers. The Techlink site now represents the best from IPENZ's long-term commitment to technology education and all the new developments and resources for technology educators."*

Niall Dinning, Project Manager – GIF Technology Education

Techlink ([www.techlink.org.nz](http://www.techlink.org.nz)) is an internet resource that provides teachers and students with information about developments in technology and technology education in New Zealand. The online resource material supports teachers in planning and implementing programmes, and provides case studies of classroom practice. The website was established in 2003 with support from New Zealand Trade and Enterprise.

Techlink's team comprises Project Co-ordinator Glynn McGregor, Writers Alistair Mackenzie and Megan Rodden, and Communications Officer Nick Maitland.

Techlink offers readers a wealth of information on New Zealand technology, with case studies of technological practice being one of Techlink's more unique features. Case studies tell the story of a technological project, including its set backs and discoveries. The studies provide teachers and students with an insight into real-life technological practice from start to finish, complete with background technological knowledge, career profiles and a glossary.

Techlink encourages industry professionals to contribute to the site; if you have a story you would like to share please contact Techlink at [enquiries@techlink.org.nz](mailto:enquiries@techlink.org.nz)

### TENZ



Technology Education New Zealand (TENZ) is IPENZ's newest Technical Interest Group. TENZ is a professional network established to promote and support technology education in New Zealand. TENZ works to:

- foster the development of technology in the New Zealand curriculum
- develop and maintain national and international links between those working in technology education and the wider technological community
- support professional, curriculum and resource development in technology education
- encourage research in technology education
- organise a national technology education conference every two years

The TENZ council manages activities, including a biennial conference and a regular electronic newsletter, for over 500 members. TENZ has a broad membership, including members outside of the teaching profession. IPENZ Members interested in this curriculum area are encouraged to find out more by visiting [www.tenz.org.nz/](http://www.tenz.org.nz/)

## Member Services

### IPENZ Professional Development Short Courses

Our Professional Development Programme is specifically designed to contribute to developing and maintaining Members' competencies as professional engineers, engineering technologists and engineering technicians.

Course content is engineering-orientated and learning outcomes are linked to relevant elements of the Competence Standard for assessment. Short Courses are run in smaller centres which helps minimise travel and accommodation costs and IPENZ Members receive a discount. 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 by phoning Josie Nolan on 04 474 8982.

### Graduate Mentoring Service

Having a mentor has huge benefits for graduates as it helps them develop professional judgement under guidance.

IPENZ Endorsed Employers organise the mentoring process for their own graduates, but Members not employed by an Endorsed Employer can also participate. Members interested in becoming mentors or wishing to be mentored can contact Competence Development Manager Jeanette van Barneveld to register their interest. IPENZ will then match graduates with a mentor. A mentor will have completed their own professional competence and have up-to-date knowledge of requirements and the assessment process.

IPENZ is also investigating extending the mentoring service to cater for more experienced engineers.

For further information or to register please contact Competence Development Manager, Jeanette van Barneveld, by emailing [jvanbarneveld@ipenz.org.nz](mailto:jvanbarneveld@ipenz.org.nz) or phoning 04 474 8984.

### IPENZ Technical Interest Groups

IPENZ Technical Interest Groups inform Members of national and international developments and issues, contribute to knowledge development, support the identification of good engineering practice, prepare informed comment on public policy issues and create a national network amongst Members with similar technical interests by regular communication. For more information visit [www.ipenz.org.nz/ipenz/who\\_we\\_are/organisation/technical\\_groups.cfm](http://www.ipenz.org.nz/ipenz/who_we_are/organisation/technical_groups.cfm) or phone Saltanat Cole on 04 474 8937.



The IPENZ Professional Development Programme is designed specifically to contribute to developing and maintaining Members' competencies as professional engineers, engineering technologists and engineering technicians. Register early for our popular short courses!

### Finance for Engineers and Technical Professionals

Every businessperson needs to understand the financial implications of their decision-making. This two-day course will assist you to know your numbers which will give you a competitive advantage regardless of your engineering discipline.

Albany 22–23 August

### Risk Management Techniques

This one-day workshop is specifically designed for engineers and business managers to cover the fundamentals of risk management in an engineering setting. Participants will learn tools and techniques of risk management and be shown how to apply these tools in their own business.

Wellington 29 August  
Tauranga 5 September

### IPENZ Mentoring Foundation Workshop

This one-day workshop is designed to develop mentoring and coaching skills and make mentors more effective in their interactions with mentees, team and project members, and clients.

Auckland 6 September

### The Resource Management Act and the Professional Engineer

This one-day course has been designed to give you a practical understanding of how this legislation works in practice, provide you with some insights and tools for dealing with the RMA in your day-to-day work, and update you on the 2005 amendments to the Act and recent important case law.

## IPENZ Professional Development Short Courses August – September 2006

Wellington 6 September  
Christchurch 7 September  
Nelson 8 September  
Albany 12 September  
Auckland 13 September

### Effective Report Writing

Learn techniques for writing documents that clearly convey information to both engineering and non-engineering readers.

Albany 8 September

### Negotiation Skills for Technical Professionals

This interactive, practical one-day workshop enables participants to identify their current strengths and build skills to improve their ability to negotiate successfully. These skills are applicable to technical, contract and conflict negotiations that many engineers are involved in.

Albany 19 September

One day \$495 incl GST – IPENZ Members  
\$540 incl GST – non-members  
Two days \$945 incl GST – IPENZ Members  
\$1,035 incl GST – non-members

### Technology T.O.Y.S NEW

This two-hour course will help you make better use of the computing power you have, allow you to learn about the trends in the technology industry, and enable you to have a better understanding of "new things" that are about to happen. It will benefit anyone operating a small to medium business interested in keeping up to date with computing and technology trends.

Dunedin 23 August  
Christchurch 24 August

\$180 incl GST – IPENZ Members  
\$225 incl GST – non-members

### The Role of the Expert Witness

This four-hour seminar is designed to equip

professional engineers with the knowledge and skills to perform the role of "expert witness" in a confident and competent manner, understanding the legal and ethical requirements of the role.

Christchurch 23 August  
Nelson 24 August  
Wellington 30 August  
Taupo 31 August  
Tauranga 13 September  
Hamilton 14 September  
Albany 20 September  
Auckland 21 September

\$315 incl GST – IPENZ Members  
\$360 incl GST – non-members

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) or by emailing [CPD@ipenz.org.nz](mailto:CPD@ipenz.org.nz) or telephoning Josie Nolan on 04 474 8982.

### Short Courses in Project Management

IPENZ is collaborating with ProjectPlus to offer a range of one- and two-day short courses for IPENZ Members which are suitable for experienced project managers and engineers new to project management. Go to [www.ipenz.org.nz/ipenz/nzecal/ks.cfm](http://www.ipenz.org.nz/ipenz/nzecal/ks.cfm) for further information.

### Project Management Distance Learning Course

IPENZ and PPM Ltd are offering a distance learning course in project management, consisting of 125 hours of course study and assignment work. Full information is available at [www.ipenz.org.nz/ipenz/nzecal/distance-learning.cfm](http://www.ipenz.org.nz/ipenz/nzecal/distance-learning.cfm)

### Engineering Education Australia (EEA)

If you are planning to visit Australia, EEA – a business unit of Engineers Australia – offers a wide range of one- and two-day short courses for engineers. Go to [www.eeast.com.au](http://www.eeast.com.au) for more information.



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