

September 2006 • Issue 52

## President's Message



### Weighing up our quality of life

When I moved to Christchurch a few years ago, I was lucky enough to find I was able to walk to work. I was also pleasantly surprised to discover that it doesn't rain too often in these parts (usually), and there are only a few days each year when I wish I'd bought a bigger umbrella.

The reason for our dryish climate is the mountains, which cause the prevailing westerly to dump more water on the West Coast, and leave this side dryer and warmer than is normal at this latitude. It's good for me, but not for the farmers who must make a living off the wide Canterbury plains.

These conditions were cleverly countered by our forebears, who built irrigation schemes that take water from the big rivers near the mountains and channel it for vast distances across the plains. (No wonder that surveying in New Zealand started in these parts.) In the past, these schemes have provided farmers with a reliable water supply, enabling them to transform the dry plains into more lucrative pastures. However, demand has mushroomed and the existing schemes are no longer sufficient; conversion to dairying is proceeding as fast as consents for new wells can be obtained. Now plans are afoot to build a much larger scheme which will store water in an artificial lake in the wet season, and release it in the dry. This scheme is currently in the middle of the resource consent process.

The scheme started me thinking about how to weigh up the pros and cons of such developments, which I guess is what the Resource Management Act is about. Of course we engineers like to do this by using some kind of common gauge so we can simply measure, or at least estimate, the advantages and disadvantages and see which way the balance falls.

But what is the common measure? Farming families and partnerships want to maximise the return from their land assets, and they argue that this also makes best use of New Zealand's resources and so improves the standard of living for all of us. On the other hand, increased effluent and fertiliser finds its way to the water table and therefore to water supplies (all of Christchurch's water comes from aquifers), which has consequential costs. While we can measure these costs and benefits in monetary terms, the interests of groups like kayakers and fishermen can't be measured in cold hard cash.

I cheerfully admit to being one of the aforesaid fishermen. The Waimakariri is the most utilised river for recreation in all of New Zealand, mostly by salmon fishers in spite of the fact that the median number of fish caught in a season is zero! Near the coast our groundwater comes back to the surface in numerous rivers and streams – being "spring-fed" they normally run clear regardless of the weather and so are great for spotting trout. On the last sunny weekend I put my dog and rod in the car and headed off to my secret spot, only to find that the stream was brown – rain had washed the effluent to where it shouldn't be – and so home again we went. Occurrences like these have reduced the run of fish by factors of up to 100 in a couple of generations. And yes, I know they're not natives (nor are cows), but imagine what kind of tourist industry it might have supported.

All of which has led me to conclude that the fundamental problem in considering a new venture with conflicting consequences is that on one hand the proponents argue in terms of dollars, and on the other hand the opponents argue in terms of quality of life. In actual fact, dollar benefits go primarily to the proponents and not to the common good. And then, why do they want more dollars? To improve their quality of life, of course. So the common measure in weighing up the pros and cons cannot be economic benefit – this is just one of the components of quality of life. Similarly, opponents of new schemes often argue on the basis of quality of environment, but this too is a component of quality of life.

Our common measure in weighing up new schemes must be something which we all seek in various measures and in different ways: quality of life. What has this to do with engineering? Maybe not much, maybe a lot – after all, what does sustainability mean if not this?

**Peter Jackson**  
 President

## IPENZ Health Check

Anyone who has visited IPENZ National Office over the last five years or so, or who has compared our annual reports over the years, will realise that our organisation has grown. Not only are we now bigger than ever before, there are also clear indicators that IPENZ is in very good health, both financially and organisationally.

Board Members Steve Abley and Ross Major have looked at the actual figures for 2001/2002 and the recently-approved budget for 2006/2007 – a time span of five years – to highlight where the growth has occurred and what activities are currently being promoted by the organisation.

The good news is that income has risen from under \$3.3 million to \$7.2 million and, with the increase in outside contracts (such as Futureintech), we are now less dependent on Members' subscriptions. National Office reserves have been increased to allow for the potential loss of future contract income and, as the organisation has made a surplus every year in the last five, the Board can now consider allowing small losses beyond 2007. Even though staff numbers have inevitably grown with the increase in activities, we are more efficient – the rate of staff growth is significantly less than the growth in income.

While there has been a small and steady increase in Membership, we need to encourage more people to join IPENZ to secure its long-term viability. Increasing the Membership is now a priority and there is an active recruiting programme in place; it is already showing very encouraging results, particularly with Graduate Members. It is worth noting, however, that with the small, steady increase in numbers over the last five years IPENZ has been achieving a better result than other professional bodies.

### Where the money goes

From time to time you have no doubt been asked, or even asked yourself, what are the benefits of IPENZ Membership? The first and simplest answer is to look at where the organisation spends its money.

**Continued overleaf >>**

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The graphs below show IPENZ's income and expenditure against its five strategic goals (graphs are proportionally accurate). Overall, income is now larger and more diverse than in 2001/2002. Income from Members used to be almost three-quarters of total income, but now it's less than half.

IPENZ is also making a greater impact against all its key objectives. Now that CPEng is up and running, less organisation-wide effort is required in the area of "competence and qualification recognition" and expenditure has therefore decreased since 2002. The increase in income has allowed expenditure to be increased against the other four strategic goals. Clearly, the largest growth has occurred in "renewal of the profession", as a result of the large volume of contract work we undertake for programmes such as Futureintech. These programmes raise the awareness of young people and parents about career opportunities in technology, engineering and science.

The additional expenditure has resulted in progress towards other strategic goals as well. Work under "leadership on national and community issues" includes the publication of our economic development discussion document *Prosperity through Productivity* and our national energy policy *Engineering a National Energy Strategy*. A range of Continuing Professional Development courses is available, supporting the "professional development support" strategic goal, and significant work is currently underway in the "engineering practice support" field.

To capture the full range of outputs, Steve and Ross went through an exercise to list all the specific and general benefits provided to Members by IPENZ.

Development and maintenance of standards of engineering education:

- international benchmarking of qualifications – four-year engineering degrees via the Washington Accord and technician/technologist qualifications via the Sydney and Dublin Accords
- accreditation of engineering courses within New Zealand
- easy international recognition of New Zealand engineering degrees

Assistance with career development:

- Endorsed Employer programme to ensure qualifying employers provide the training and support needed by engineers
- monitored graduate development programme
- electronic recordkeeping for CPD
- web-based discussion forum
- employment listings on the JobHunt website
- one hour's employment advice from an experienced employment advisor
- ongoing CPD courses, with discounts available to Members
- networking through Branches and Special/Technical Interest Groups

- professional recognition and associated postnominal on gaining competency mark(s)
- international recognition of competency mark(s)
- possible recognition at the annual Fellows' and Achievers' Dinner

Publications:

- bimonthly *e.nz magazine* providing magazine articles covering technical or social issues that effect engineers or New Zealand as a whole
- monthly newsletter *engineering dimension* providing Membership-based information and issues
- weekly email newsletter *engineering direct* containing topical issues, Member polls, calendar of events, CPD opportunities, and job advertisements

Development of engineering practice:

- *Practice Notes* on specific subjects
- *engineering TreNz* for publication of technical papers
- disciplinary processes to ensure standards of practice and behaviour are maintained

Leadership on national and community issues:

- public policy development to ensure the voice of the engineering community is heard by legislators and the wider community
- submissions on a wide range of potential legislation and regulation
- opportunity to participate in the submission and/or review process

Promotion and renewal of the profession:

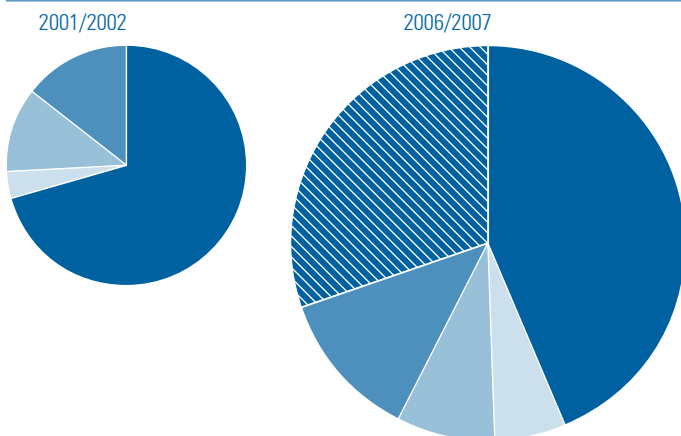
- annual New Zealand Engineering Excellence Awards to publicise and celebrate engineering
- Pickering Lecture series
- Neighbourhood Engineers working with schools and young people, and encouraging participation in technology projects

And more:

- access to group purchase discounts on benefits like health insurance and credit cards
- benevolent funds in the case of hardship, via the IPENZ Foundation

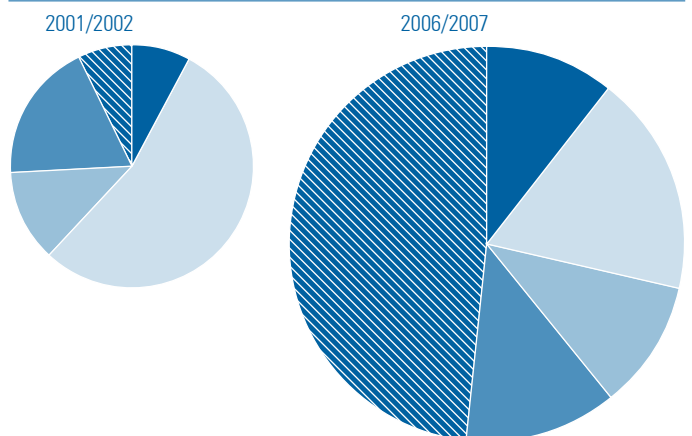
The Board is always keen to get feedback from Members about IPENZ and its activities. If you have any comments either on this article or the activities undertaken by IPENZ, email Board Members Steve Abley on [steve@abley.com](mailto:steve@abley.com) or Ross Major on [rkarv@xtra.co.nz](mailto:rkarv@xtra.co.nz)

**IPENZ Income**



- Subscriptions/registrations/assessments
- Convention and short courses
- Advertising and sponsors
- Other income
- Futureintech and major contracts

**IPENZ Expenditure**



- Leadership on national and community issues
- Competence and qualification recognition
- Professional development support
- Engineering practice support
- Renewal of the profession

## Schools Update

### Ministers see Futureintech in action

Next month IPENZ will submit a proposal to New Zealand Trade and Enterprise for continued funding of Futureintech. To promote its work, Futureintech invited the Hon Trevor Mallard, Minister of Economic Development, to visit Tawa School to see firsthand how the project works and to gauge the effectiveness of this type of careers promotion. Ambassadors Megan Angell of Traffic Design Group and Henry Tatham of Beca demonstrated the kind of work Ambassadors undertake in schools. Also in attendance was the local electorate MP and Associate Minister for Economic Development, Winnie Laban.

Mr Mallard was able to discuss the project with senior teachers and Futureintech staff. Feedback from Deputy Principal Neil Sargisson was particularly positive. Neil noted that he had received nothing but compliments from his colleagues about Futureintech and the Ambassadors. He praised the programme for giving students a valuable chance to link what they are learning in the classroom to the real world.

Futureintech looks forward to continuing to promote careers in technology, engineering and science.

### New publications

Futureintech's *A career in technology, engineering and science* is now available in Te Reo Maori and Samoan. The brochure is an overview of careers in engineering, technology and science, and provides examples of the variety of roles that are available in industry. The brochures are available at no cost and can be ordered



Ministers Trevor Mallard and Winnie Laban at Tawa School

from the Futureintech website [www.futureintech.co.nz/guide.cfm](http://www.futureintech.co.nz/guide.cfm)

Techlink, IPENZ's online resource for technology teachers, is soon to release *An Introduction to Technology Education*. The booklet informs parents about this essential learning area. New Zealand's technology industry is expanding at a rapid rate and demand for skilled technologists has never been higher. The booklet offers parents the resources to help their children take advantage of the opportunities technology offers. For more details visit [www.techlink.org.nz](http://www.techlink.org.nz)

## Recognising our Leaders and Heroes

Applications and nominations for Distinguished Fellowship, Honorary Fellowship and Fellowship are now being accepted.

Fellows are Members of IPENZ who have made a substantial contribution to the engineering profession, its practices or the Institution itself. Each candidate for Fellowship of IPENZ is expected to have excelled in one of a number of areas:

- advancement of engineering knowledge or practice
- application of engineering or technology in the community
- advancement of technological education
- innovation in the creation of engineering works or technological products
- leadership in the profession of engineering
- development of the Institution

Additionally candidates will have:

- contributed to some aspect of the Institution's work, or that of an organisation with similar objectives, for at least one year
- a stable work history including roles with significant responsibility, and

- projects with a significant impact on stakeholders
- been a Member of IPENZ for at least three years

Those who are already Fellows and have achieved a degree of eminence may be nominated for elevation to Distinguished Fellow status.

Honorary Fellowship is available to individuals who are not engineers but are professionally engaged with engineers and have made an outstanding contribution relevant to engineering.

Individuals can also be nominated for the position of Companion – a Member who has not had an engineering or technology education, but who has attained a position of responsibility related to engineering or technology.

Fellowship nominations should follow the guidelines set out in the nomination documents, FE100 and FE104, which are available from <http://www.ipenz.org.nz/ipenz/forms/pdfs/> or by contacting Josie Nolan at [jnolan@ipenz.org.nz](mailto:jnolan@ipenz.org.nz). Nominations should be submitted by 20 October 2006.

## August Board Highlights

The Board met on 1 August 2006 with the following activities and outcomes:

- The staff involved in the development and launch of the visual identity were congratulated and thanked.
- A year-to-date increase of about 350 subscription-paying Members was noted, as was the likelihood of about four per cent growth in Membership in the present financial year. This would take us to about 8,000 non-Student Members, an increase of 1,000 in total over the last five years.
- A proposal to develop a project aiming to better meet the needs of young engineers was approved in concept. The project will roll out in 2007/2008, and a budget of \$200,000 was allocated for the 2006/2007 financial year.
- The Institution's budget for the year commencing on 1 October 2006 was approved – the expectation is an income of \$7.2 million and marginally lower expenditure to give an outcome slightly better than breakeven.

- Subscriptions for 2006/2007 were approved; the only change is a rise of \$8.00 plus GST in the service centre component to bring this to full cost recovery. The expected subscription income is about \$2.5 million, which is only about one-third of IPENZ's total income.
- A proposal to hold a Special General Meeting to make small adjustments to the Rules defining the Board's composition was approved.
- It was agreed to boost the staffing capacity in the engineering practice area by creating another professional engineering staff role. A boost in resources in this area was seen as critical to effective self-regulation of the profession.
- Progress on two ongoing issues was noted – clarification of intellectual property policy and revision of Student Membership packages.

# 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.

## Obituary

### Stanley Owen (Stan) Hughes MIPENZ

2 February 1909 – 2 March 2006

Stan Hughes, one of the first Members of the IPENZ Otago Branch, died on 2 March 2006 aged 97.

Stan left King Edward Technical College at the age of 15 to join the University of Otago's physics department. He began his career under the leadership of the formidable Professor Robert Jack, an early pioneer of New Zealand radio broadcasting. Although he undertook some part-time teaching, Stan was generally content to remain largely a back-room senior technical officer. He became a problem-solving "jack of all trades", using a wide and multidisciplinary range of scientific and technical skills.

Stan gained electrical engineering qualifications progressively by part-time study and became a valued and active member of many professional institutions. Although he remained at the University of Otago he also undertook a number of "outside" jobs during his career, including secret research on radar anti-jamming for three years in Wellington during World War II.

Stan retired from the University of Otago in 1977 but continued to make thoughtful contributions to many scientific and community bodies including IPENZ.

Friends and colleagues will miss his shy, wry, sometimes softly sly, humorous comments.

Thanks to Ron Brooks and *The Otago Daily Times*

## Wellington Branch Supports New Massey Facilities



Andrew Clark (L) and Dr Wyatt Page (R)

Massey University's School of Engineering and Technology opened new facilities at its Wellington campus on 7 August.

During the opening IPENZ Wellington Branch Chairman Andrew Clark presented Dr Wyatt Page, Head of School, with a Tektronix Logic Analyser. The analyser was donated by the Branch using accumulated Branch funds and was made to support the arrival of the Bachelor of Engineering programme in Wellington at Massey University.

The analyser will be used on a regular basis by both Bachelor of Engineering Technology and Bachelor of Engineering students as part of their standard laboratory work and for digital design in their project work.

## Member Services

### Public Policy

IPENZ contributes to the public good by providing an engineering perspective on matters of national importance. This includes researching key issues, publishing papers and *Informatory Notes*, making submissions and generating public debate.

We provide up-to-date policy information to keep our Members informed and encourage their participation in the public policy process. To find out more about policy issues affecting the profession and our current public policy activities visit [www.ipenz.org.nz/IPENZ/Media\\_Comm/PP\\_Intro.cfm](http://www.ipenz.org.nz/IPENZ/Media_Comm/PP_Intro.cfm)

### 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, together with ACENZ, has developed some standard contractual documents for use in selling consulting services. Documents include: short and long form contractual agreements, guidelines for consulting engineers and clients, PS1, PS2 and PS4 forms. These are available for free download from [www.ipenz.org.nz/ipenz/practicesupport/EndorsedInfo/](http://www.ipenz.org.nz/ipenz/practicesupport/EndorsedInfo/) or in hardcopy for a small fee.

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)

### engineering treNz

IPENZ publishes peer reviewed technical papers in an online series called *engineering treNz* (Transactions of Engineers New Zealand). Publishing good quality, peer reviewed technical papers creates a valuable resource for the engineering community and reflects well on individuals, their employers and the profession as a whole.

Papers published in *engineering treNz* are freely available on the IPENZ website [www.ipenz.org.nz/ipenz/publications/treNz.cfm](http://www.ipenz.org.nz/ipenz/publications/treNz.cfm) and the keyword search can be used to search for papers from both *engineering treNz* and its predecessor *Transactions*.

For further information or to discuss or submit a paper, please contact the Editor of *engineering treNz* Lindsay Robertson at [lindsay@tech-vantage.com](mailto:lindsay@tech-vantage.com) or by phoning 021 240 6863.

## Movers and Shakers



**Dr Kathy Garden FIPENZ** was appointed to the board of directors of Crown Research Institute Scion in July.

After winning a prestigious Harkness Fellowship and pursuing her research in cardiac imaging in the United States, Kathy entered the world of public policy development. She contributed in this role for five years, before turning her attention to sustainable development. In this area her expertise and leadership were soon recognised by

her appointment as Executive Director of the New Zealand Business Council for Sustainable Development. She then joined Manukau City Council where she led the Council's strategy development.

Kathy is currently Pro Vice-Chancellor and Dean of the Faculty of Design and Creative Technologies at Auckland University of Technology.



**Andrew Read MIPENZ**, CPEng was elected as President of the Association of Consulting Engineers New Zealand (ACENZ) at the Association's conference held in August.

Andrew's election means that ACENZ has its first president from the South Island for over 10 years. He is also believed to be the first electrical engineer to hold the position.

Andrew is a Director of Pedersen Read, a small electrical engineering consultancy in Christchurch.

## Policy Update – Telecommunications Amendment Act

In mid-August IPENZ and the New Zealand Computer Society (NZCS) made a joint submission to the Finance and Expenditure Committee on the Telecommunications Amendment Bill.

The submission strongly supported the Government's intention to assist the New Zealand telecommunications sector to catch up with leading OECD countries, but voiced concern that the proposed measures did not go far enough.

The submission recommended taking further action in relation to two main issues considered critical to the future of ICT development in New Zealand:

- ensuring adequate and timely investment in fibre in the local loop
- ensuring that there is a strongly competitive content market

The submission encouraged the Government to think carefully about new ways for New Zealanders to access the most popular types of content – sport and movies. Currently, distribution rights are concentrated in the hands of three or four players. Most of this content is in a form which cannot easily be made highly interactive and, because most of these players use a broadcast media for distribution, they want to hold on to the content in this highly restrictive format. While content is tied up in this manner, highly functional broadband will have a

limited take up in New Zealand.

The other critical element is to ensure that all New Zealanders have a good understanding of how broadband services can benefit them. We suggested a television campaign that shows New Zealanders from all walks of life using broadband in practical ways.

Members can read the submission in the Member Area of the IPENZ website <http://www.ipenz.org.nz/ipenz/members/Discussion/documents/TelecomsSub110806.pdf>

IPENZ endeavors to work with other institutions where appropriate in order to put forward a stronger voice on issues. This submission was developed with the NZCS which is the body for ICT professionals in New Zealand. It has approximately 1,700 members and a corporate partners group.

IPENZ would like to take this opportunity to thank all those involved in developing this submission, particularly Murray Milner FIPENZ, Lawrence Zwimpfer MIPENZ and Doug White from the NZCS.

## Hume Fellowship 2007

Applications are invited for the 2007 Hume Fellowship award. The Trust provides for Fellowships of up to a value of \$30,000 to be awarded when funds are available, or as the Trustees decide.

Applicants should be New Zealand citizens, preferably between the ages of 25 and 35, who have a degree in civil engineering. The applicant should have demonstrated his or her ability in their specialist field.

The subject, period and location of study should be detailed by the applicant. The Fellowship is awarded on the basis of the programme of study submitted at the time of application.

Applications will close on Friday 16 February 2007, and can be submitted by email to [dirops@ipenz.org.nz](mailto:dirops@ipenz.org.nz) or by post to Hume Fellowship, IPENZ Engineers New Zealand, PO Box 12 241, Wellington 6144. For further details please visit <http://www.humefellowship.org.nz>



Be sure to secure your ticket for the 2006 New Zealand Engineering Excellence Awards gala dinner. This year's winners will be announced during the dinner on Wednesday 22 November at TE PAPA in Wellington. Tickets for this premier event are on sale now so visit [www.nzeeawards.org.nz](http://www.nzeeawards.org.nz) today!

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.

## Entries Open for IPENZ Supreme Technical Awards

Entries for the IPENZ Supreme Technical Awards for Engineering Achievers 2007, sponsored by Opus International Consultants, are now open.

The categories for 2007 are:

- **Freyssinet Award** – Building, Construction and Amenities
- **Angus Award** – Utilities and Networks
- **Skellerup Award** – Food, Bioprocess and Chemical
- **The Evan Parry Award** – Electrical and Systems

Entries/nominations must demonstrate how the work of the entrant has advanced engineering knowledge and practice, either through one or more particular breakthroughs or a series of continuing improvements.

Judges will place particular emphasis on innovation and its application. Preference will be given to candidates whose contribution has been recent, and who are actively involved in, and are demonstrating, technical leadership in advancing engineering practice.

Indications of interest should be received by 5.00pm on Monday 2 October; entry forms and award criteria are available at [www.ipenz.org.nz/ipenz/who\\_we\\_are/Awards\\_Events/SupremeAchieve.cfm](http://www.ipenz.org.nz/ipenz/who_we_are/Awards_Events/SupremeAchieve.cfm)

Supporting documentation for the awards must be received by 5.00pm on Monday 6 November 2006.

## IPENZ Staff



IPENZ welcomes **Alistair Mackenzie** to the role of Writer with the Techlink team. Alistair will be developing resource material to support the planning and implementation of programmes in technology education.

Alistair completed a degree in genetics some time ago, which he says was precious little use in the following years, which he spent tuna fishing and working onboard Russian, Korean and Japanese factory trawlers around New Zealand and the southern ocean. He claims to be one of the few people ever to have been deported from Antarctica.

Alistair is married and has two young daughters. When he is not working or trying to tame his family, Alistair enjoys skiing and a rich life of the imagination.

**Harley Peddie** joins the IPENZ publications team as our new Graphic Designer. He is working on the production of *engineering direct*, *engineering dimension*, *e.nz magazine*, and assisting with the roll out of the IPENZ rebranding project.

Harley graduated with a Bachelor of Fine Arts from the University of Canterbury's School of Fine Arts in 2004. Since then he has worked in a variety of places, including Christchurch's fantastic new art gallery and the University of Canterbury's Human Interface Technology (HIT) Lab as a software developer.

In his spare time and holidays, Harley sings bass in the TOWER New Zealand Youth Choir, which has taken him all over New Zealand and saw him touring Eastern Europe in 2004.

And welcome to **Barbara Jones**, IPENZ's new Receptionist/Office Administrator.

Barbara brings to IPENZ her background in customer service, and she's enjoying learning about Members' areas of expertise and activity.

Born and raised in the Wellington region, Barbara is married with three adult children, all of whom have experienced disability. She has spent a lot of time working in the community and advocating for the rights of those with disabilities to access good education and work opportunities.

Now that she has a bit more spare time Barbara has resumed her education by attending classes in film, literature, languages, other cultures, and history. She also has a keen interest in the arts, and is a great frequenter of all the cafes Wellington has to offer.



## Member Services

### IPENZ Branches

On joining IPENZ, Members automatically become affiliated to their local IPENZ Branch. By attending Branch meetings you will have a unique opportunity to network, share information, and learn from your peers. Meetings are also a conduit for career development and engineering practice support, and provide opportunities for getting involved in your local community. Branch meetings generally involve a guest speaker or visit, followed by an informal gathering for networking and discussion.

IPENZ has Branches in the following regions: Northland, Auckland, Waikato, Tauranga, Taranaki, East Coast, Wanganui, Manawatu, Hawkes Bay, Wellington, Nelson/Marlborough, West Coast, Canterbury, South Canterbury, Otago and Southland.

Contact information for your local Branch is available at [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) or by phoning Branch Facilitator Kathryn McGavin on 04 474 8989.

### Employment Issues

IPENZ, through an experienced employment advisor, provides advice to Members on employment-related issues including contracts, dismissal and redundancy. The general guideline is that IPENZ pays for up to one hour's professional advice though Members may choose to purchase additional hours. Contact Michele Boniface for details on 04 474 8948 or email [employment@ipenz.org.nz](mailto:employment@ipenz.org.nz)

### Other Membership Benefits

As a fully financial Member you receive:  
special Membership rates for IPENZ Short Courses and Convention

reduced rates for American Express credit cards and income protection insurance

*e.nz magazine* – our flagship publication promoting New Zealand's engineering innovation, technology and achievements (past issues can be searched at <http://e.nz-magazine.co.nz/main.htm>)

*engineering dimension* – our monthly newsletter covering Institutional activities and information

*engineering direct* – our weekly electronic newsletter providing up-to-the-minute news across the range of Membership services



## IPENZ Professional Development Short Courses September – October 2006

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!

### 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 <http://www.ipenz.org.nz/ipenz/nzecal/distance-learning.cfm>

### 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.

Albany 20 September  
Auckland 21 September

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

### 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.

Albany 3 October

### 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  
Taupo 11 October

### Business Development and Professional Engineers

This one-day course outlines practical strategies for the complete cycle of effective business development – finding and keeping the right clients. It is based on the *IPENZ Practice Note 06* "Developing and Maintaining Client Relationships".

Auckland 10 October 2006

### Avoiding Ethical Dilemmas

IPENZ and the Royal Society are jointly offering this one-day course to the engineering and science professions to familiarise participants with the ethical values that underpin their professions and the obligations that flow from them.

Auckland 16 October  
Wellington 25 October

### Land Transport Management Act Series

This seminar series is brought to you by IPENZ and the Transportation Group. Participants will gain an in-depth understanding of the government departments, agencies and legislative framework controlling land transport planning and delivery, as well as relevant practices and procedures.

Wellington 17 October  
Taupo 18 October  
Queenstown 25 October  
Christchurch 26 October  
Takapuna 31 October  
Auckland 1 November

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

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 incl GST. All short courses may be tailored to suit the needs of organisations.

### Mechanically-stabilised Earth Structures Using Concrete Segmental Retaining Wall Blocks – A Guide to Design and Construction

Since the early 1990s segmental retaining walls (SRWs) using individual concrete blocks combined with high strength geosynthetics to create mechanically-stabilised earth structures have grown in popularity. This complimentary two-hour seminar sponsored by Firth will review practical case studies illustrating how SRWs have been used to increase value and provide more usable space.

Auckland 10 October  
Hamilton 11 October  
Wellington 12 October  
Christchurch 13 October

### 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 both new and experienced project managers.

### Portfolio and Programme Management

Auckland 20 September  
Wellington 13 September

### Project Support Office

Auckland 21 September  
Wellington 14 September

### Essential Skills for Managing Projects

Wellington 10–11 October  
Auckland 16–17 October

One day \$618.75 incl GST – IPENZ Members  
Two days \$1,237.50 incl GST – IPENZ Members  
Non-members must register directly with ProjectPlus.

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.



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