

President's Message

Preserving our visual identity


In March 2002 we launched a new IPENZ ENGINEERS NEW ZEALAND visual identity. Since then we have seen many interesting variations on it appear in print.

If the identity is to serve its purpose it must be applied consistently and faithfully. Details of the identity can be found in the Member-only area of the IPENZ website. The information is to be treated as a set of guidelines, not a design manual. It is meant to ensure that the identity is applied consistently, in the manner conceived by the designers and approved by the Board.

The identity has three central components – the IPENZ mark, the IPENZ colour, and the IPENZ typeface. These are sacrosanct, and may not be varied without permission from the Publications Manager. The spiral can be used more flexibly for promotional purposes, but always in a context of careful design.

The minimum size for negative reproduction of the identity is 12mm. Generally it is to be reproduced only on a background colour that is equivalent to or darker than 40% black. It is important that the identity is not reversed out of a conflicting colour or pattern. When printed in negative form, it must always be white. Care must be taken to ensure that the identity will print clearly at the specified size.

The two components of the visual identity – the graphic and the words – may NEVER be split from each other, or appear in any variation other than what has been established. The IPENZ colour is Pantone 662, and no other colour may be used within the graphic.

We can readily supply an electronic version of the visual identity to Members on request. Please contact the Publications Manager at National Office. 



Engineers New Zealand

Branch meeting blues

What's the biggest number of people gathered together that you can imagine? For me it's about a Westpac stadium-full – say 30,000 souls (also coincidentally about the same as the number of my Ngai Tahu tribe who are enrolled).

But the number I can imagine relating to is a lot smaller. Maybe 300 or so (a theatre-full), or at most about 1000 (a school assembly hall-full). So how can I relate to the 8000 of you who are Members, particularly when I'm hopeless at remembering names? Most people solve the problem by reducing the scope of engagement – by relating to IPENZ people at Branch level (1500 or fewer), or, even easier, those who actually come to Branch events (50 or fewer).

I recently had lunch with the Wellington Branch committee of IPENZ. The main topic of conversation was what Branches were supposed to be doing, and how they could do it better. This came out of a feeling on their part that they couldn't be meeting Members' needs if too few Members turned up to meetings. In other words, how to get Members' bums on seats? It's not even a case of getting them back on seats. Often there have been low turnouts for many years, if Wellington is any guide.

That discussion mirrored one I had earlier in the week with other senior office bearers, which began with Ian Parton asking "What is our core business?" Of course we have surveyed Members to try to answer these questions, and we all have our own ideas about how to meet Members' expressed or perceived needs.

I've also just had the privilege of speaking to three very different groups of engineers in one week – Waikato/BOP Branch after their dinner, ESR for a 20th anniversary talk, and SPIES (South Pacific Indigenous Engineering Students) at a 10th anniversary dinner. The common thread of all gatherings was the very evident spirit in each group, be it IPENZ Members, activist members, or students, which drew them together.

What is the spirit that will draw IPENZ Members out once a month or so to meet each other? It used to be hearing our peers talk about their work – engineers sharing their experiences. Now, increasingly, people are too busy to take time out to learn things this way. The tendency is to want more people paraded before us more quickly, or even virtually. We get to pick and choose – surf the channels. But there is still a need for knowledge. For an example of what we are delivering to satisfy this need, check out the new *engineering treNz*, which replaces the former IPENZ Transactions (the first four papers are available at <http://www.ipenz.org.nz/ipenz/publications/treNz.cfm>); but I believe there still needs to be a personal dimension to Branch interactions.

This is particularly so in the age of CPEng. Being a true professional means interacting with the other members of your professional "family" on a regular basis – not metaphorically eating dinner in your room each night alone. Relating to other engineers is an essential part of being professional – having lots of personal "professional conversations" such as the kind we have when we apply for CPEng.

So if you have some ideas about what would attract you out on a cold wet night, or during a busy work-day lunchtime, let me know. I'll pass it on. And I look forward to meeting more of you – and trying to remember your names – during this month's northern swing-around.

Gerry Te Kapa Coates
President



Bringing Students and Employers Together

Looking for engineering or technology students to employ part-time or over the summer vacation? You can now search online, by location and/or desired academic discipline, to find information including availability details and full CVs.

Student members of IPENZ can now upload their CVs for searching by employers. The Student Search facility is at <http://www.ipenz.org.nz/ipenz/employment/search.cfm>

Leader of the Future

IPENZ congratulates Glenn Fawcett MIPENZ on winning the Telstraclear/ACENZ Future Leader Award 2003. The award, sponsored by Telstraclear, is made to an up-and-coming young professional from an ACENZ member firm. The three finalists – Glenn, Annette Sweeney MIPENZ and Teresa Walsh – were invited to attend the annual ACENZ conference with their nominators, and the award was presented at the annual award dinner.

Glenn is a specialist pavement management engineer at the Wellington office of MWH New Zealand Ltd. The judges were impressed with his all-round ability, encompassing superior technical, communication, project management and leadership skills. He has been involved in leading-edge, nationally significant projects in New Zealand and the Asia-Pacific region. He was recently appointed deputy Sector Leader Transportation for MWH. ☺

Prizewinner's JPL visit

In May 2002 we profiled the winners of an essay competition for secondary school students. Sir William Pickering presented the overall winner, Lisa Phillips of Freyburg College, with her winners' prize, and the several category winners with book prizes, after his Newnham Lecture.

Lisa was to meet Sir William again when she took up her winners' prize of an all-expense-paid trip, with a friend, to California which included a tour of Jet Propulsion Lab. Sir William recently visited the site of his research triumphs to play host to Lisa and her friend Melissa. ☺



Lisa (middle) and her guest meet Sir William at JPL

What's happening at

- ran stands and seminars at the Coca Cola Careers Expos in Auckland and Wellington this month. Dunedin will follow in September
- sample careers presentation now online for Members who need a bit of inspiration when asked to speak to students
- contract with Technology Education New Zealand (TENZ) to administer the TENZ/ICTE 2003 conference. See Events Calendar for details
- presentation to NZQA Qualifications Evaluation Service (QES) on the international agreements for benchmarking of engineering education standards
- web-based CPD record system updated to allow Members to align recorded activities with the relevant elements of the Competency Standard for Professional Engineers
- individuals can now join IPENZ as Student Members or as Affiliate Members on line at <http://www.ipenz.org.nz/ipenz/join/ipenz.cfm>
- a modified portfolio of evidence for CPEng assessments approved for previously assessed candidates if they are employed by IPENZ Endorsed Employers
- Standards and Accreditation Board met on 22 August; key outcomes reported on page 03
- Vice President Ian Parton presented GHD Ltd and Connell Wagner Ltd with IPENZ Endorsed Employer certificates
- statistics on registrations at time of printing:

| | |
|------------------|-----|
| CPEng | 366 |
| IPER | 193 |
| Practice College | 975 |
- training for Practice Area Assessors in Auckland, Wellington and Christchurch during September; a two-day programme for assessment training and mentoring, or a one-day programme for assessor training only
- working with IMarEST to conduct joint assessments for membership of both Institutions
- Staff Assessor training session scheduled for 16 September; feedback will be used to consider the need for more assessors
- completing analysis for the Project Management Institute of New Zealand's inaugural remuneration survey (contracted service) ☺


ENSOC Honours Board

The University of Canterbury Engineering Society is researching the names of its past Chairmen, Secretaries, Treasurers, Patrons and Presidents with the aim of erecting an Honours Board in the School of Engineering. Current research has established the bulk of names from 1897 until the 1970s but sizeable blanks remain between 1972 and 1987. A visit to the ENSOC website www.ensoc.canterbury.ac.nz/society/honours.htm will reveal the names gathered so far.

Please contact David djb125@student.canterbury.ac.nz with any relevant information or contacts to follow up. ☺


Standards and Accreditation Board Highlights

IPENZ Standards and Accreditation Board August meeting

- The Board reviewed a draft policy document outlining the principles according to which engineering diploma qualifications will be accredited by IPENZ under the Dublin Accord. This document will be considered for final approval at the Board's November meeting, after consultation with polytechnics and Industry Training Organisations.
- An approval process for an IPENZ Accreditation Manual was agreed to by the Board. The first draft of the Manual should be complete by the end of September.
- The Board approved a policy document, "Graduate Competency Profiles". It will set out IPENZ's accreditation requirements and processes for engineering programmes seeking to be internationally benchmarked under the Washington Accord, Sydney Accord or Dublin Accord.
- It was noted that an IPENZ Consultation Group on the Associate Member (AIPENZ) and Technical Member (TIPENZ) draft Competency Standards held its first meeting on 2 September.
- The Board approved a procedure for adding to and amending the IPENZ Credit Schedule, which lists the registers/professional memberships recognised by IPENZ as evidence of previous assessment as a professional engineer. It was agreed that all signatories to the APEC Engineer and EMF International Professional Engineers Register be included on the credit schedule.
- The Board approved the Bachelor of Engineering (Biochemical) degree offered by the University of Waikato for provisional accreditation and thereby recognition under the Washington Accord.
- Shell Todd Oil Services Ltd (STOS) and Holmes Consulting Group were approved by the Board as IPENZ Endorsed Employers. 

Sponsorship support from OPUS

Gerry Coates (IPENZ President) and Kevin Thompson (FIPENZ (CEO of Opus International Consultants Limited) are pictured at the signing of Sponsorship Agreements for the IPENZ Supreme Technical Awards for Engineering Achievers for both 2004 and 2006.

Opus is an IPENZ Endorsed Employer, and sponsored the IPENZ Technical Awards in 2002. 

Are you excellent at what you do?

Tell us about it...

Members are invited to submit entries and nominations for the IPENZ Awards 2004, which include the IPENZ Annual Awards and the IPENZ Supreme Technical Awards for Engineering Achievers. Awards will be presented at the IPENZ Awards Dinner during the IPENZ Convention in late March 2004.

Entry is open for the following awards:

The IPENZ Communication Award recognises outstanding achievement by an IPENZ Member or group of Members in communicating engineering and the work of engineers to the media and the public.

The IPENZ Entrepreneurial Award, sponsored by ALSTOM New Zealand, recognises an IPENZ Member or team of Members who have created or developed a new business opportunity or a significant new business venture.

The IPENZ Environmental Award recognises engineering work that demonstrates consideration of the environment in its design and the way problems were solved, and makes an overall

contribution to the environment and public enjoyment.

The IPENZ Innovation Award, sponsored by Meridian Energy Limited, recognises an IPENZ Member or team of Members who have demonstrated an ongoing commitment to innovation in engineering practice.

The IPENZ Student Design Award, sponsored by Meridian Energy Limited, recognises engineering excellence at the student level, and rewards innovation and entrepreneurial potential. It is designed to encourage students to combine and stretch their knowledge and skills in innovative and entrepreneurial ways and apply them to their design work in an enterprising context. First prize is \$2000 from a total prize pool of \$3000.

Entries for the Student Design Award close 5pm Monday 20 October 2003.

The IPENZ Young Engineer of the Year Award, sponsored by Works Infrastructure, recognises an IPENZ Member aged 35 years or younger who has made an excellent contribution as an engineer, as a leader, and/or through

community involvement. First prize is \$2000 from a total prize pool of \$3000.

The IPENZ Supreme Technical Awards for Engineering Achievers, sponsored by Opus International Consultants, recognise those who have demonstrated excellence and leadership in engineering practice over their career to the benefit of the Engineering Profession. There are eight categories: Buildings and Structures; Infrastructure; Utilities and Transport; Information and Communication Technology; Manufacturing and Mechanical; Chemical, Bioprocess and Food; Sustainability and Clean Technology; Electrical; and General (including Business, Engineering Heritage, Risk Management, Education and Research).

Entries for the Awards close on 3 November 2003.

Entry forms, including the Conditions of Entry, are available on the IPENZ website www.ipenz.org.nz or for more information contact Claudine Dupuy on (04) 474-8934 or email cdupuy@ipenz.org.nz.

...we're all ears.

Women in Professional Engineering

In a July issue of *engineering direct* IPENZ Members were asked to comment on workplace initiatives aimed at attracting and retaining women in the engineering profession.

Several women gave examples of ways in which their employers had supported part-time employment so that they could combine raising families with their careers as engineers.

The majority of comments, however, raised serious concerns about the way women are typically treated by their managers or supervisors, and the frustration this was causing, particularly amongst the younger women in the profession. Such frustration had led many of their female colleagues to leave the profession and develop careers outside of engineering. One engineer said that at least half the 15 women who graduated in her class of 80 in 1997 had moved on to other career options.

This corresponds with IPENZ statistics indicating that around 16% of IPENZ Graduate Members are women; yet, in 2001 for example, only 11% of applicants for Professional Membership (MIPENZ) and CPEng were women. Only 3% of IPENZ Professional Members are women. Around 18% on average of University BE graduates have been women for almost 10 years. These statistics confirm the perception that women are not staying in the engineering profession, and many are deciding to move on quite early in their working life, often within five years.

One woman reported that within her female engineer network of eight, four were frustrated at the lack of support from their managers and the lack of trust their managers showed in their ability to perform engineering tasks. One woman said, "I don't know how I got into this situation – but the

lack of challenges for me has meant that I have not had the opportunity to show what I am capable of. I know I can be such a good engineer so I am moving on before I start believing I actually am as hopeless as my manager thinks!"

Another woman commented:

"The main problem seems to be that young female engineers are given little or no assistance in a job. They try their hardest and produce, under the circumstances, a good result; but their bosses still lose confidence in them, treat them like rubbish and then reluctantly give them work to do then say it is rubbish without even looking at it. This problem does not seem to flow over to young male engineers who seem to be more readily accepted and entrusted with work."

Female role modelling seems to be a key factor in younger women feeling positive about their career in engineering. One woman said that she manages a team of 22 staff of whom seven are women. She went on to say that she finds that women engineers are extremely hard working and bring an excellent balance into the workplace. "As the Business Manager, I provide the mentoring required to give women engineers the confidence they need to stay in engineering. This, at the start of their career, is all that is required." Another woman commented that "it has a lot to do with having senior women role models, and the ability to see the career path within the profession that is rewarding and fulfilling."

So where to from here? As one woman asked, "is there anything that can be done, or do we (women) just need to 'harden up' and face the fact that this is a male-dominated industry where a woman will always be the underdog who has to work harder than everyone else just to prove she can do her job well?"

First, graduate engineers should be supported by a graduate development programme underpinned by good mentoring from senior engineers. Graduate women engineers should choose a mentor with whom they feel they can develop a good professional relationship, and who can act as an advocate if the graduate's line manager does not engender confidence in their female engineering staff. IPENZ Endorsed Employers have provided evidence to IPENZ that they have systems in place to support graduate engineers, so women should bear this in mind when choosing future employers. It needs to be said, however, that some of the negative comments were received from women working for IPENZ Endorsed Employers; so work needs to be done to enhance mentoring skills within these organisations.

Organisations should ensure that line managers are sensitive to gender issues and have the coaching skills necessary to bring out the best in their whole engineering team. It would be interesting to know what percentage of line managers have undertaken management or coaching training to ensure they have the knowledge and skill base to lead and manage teams. It would also be interesting to find out how many employers use exit questionnaires or interviews, which should identify problems to do with the lack of support for women engineers. It would be even scarier if this issue had been identified in a particular environment, but nothing constructive had been done to remedy the situation!

All IPENZ Members have a responsibility to ensure that competent young engineers are retained in the profession, which means that we must ensure our work practices are sensitive to the needs of women. Clearly there is room for improvement in this area.

IPENZ Members can continue to debate this issue on the Discussion Forum in the Member-only area of the IPENZ website. Alternatively comments can be forwarded Virginia Burton at vburton@ipenz.org.nz 

IPENZ Staff Profile

Sharon Wagg - our new Knowledge Services Manager


Sharon Wagg is the most recent addition to the IPENZ National Office team as Knowledge Services Manager. In this role she will manage the provision of seminars and short courses to meet the CPD needs of Members at all stages of their careers.

For the past two years Sharon has managed a fully commercial unit at Massey University, which designed, developed and delivered tailored short courses for all levels of management. The focus was meeting the needs of an organisation, and lifting their capability and that of their staff. A combination of University and private-sector

providers was used, with emphasis on the application of concepts to the workplace.

Sharon was also involved in recruitment and administration for the Doctor of Business and Administration degree, which is a professional doctorate for people wishing to contribute via research to their profession and the academic community.

Sharon completed an MBA in 1998 while teaching full-time in international education. She has worked with a range of people from the community and various professions for whom English is not their first language.

With a strong background in the arts Sharon is keen on the movies, the theatre, art, music, and reading. A believer in a balanced approach to life, she enjoys spending time with family and friends, and maintaining her fitness by swimming and walking. 

Funding New IPENZ Activities

– the 2003/2004 Budget

At its meeting on 5 August the Board approved the annual budget for the year commencing 1 October 2003. The budget is always cut against the strategic goals of the Institution, and almost all new discretionary spending (i.e. subscription-funded, and not required by previous commitments, contracts, or the CPEng Act) has been allocated to the goal of providing leadership on national and community issues. This signals that the Board has taken on board the desire of the Membership to increase our output in this

area, without sacrificing other programmes.

CPEng is more expensive to administer than the previous less complex registration system; and, since the profession is absorbing the resulting higher costs, the Board also decided there should be no subscription increases for Members in the 2003/2004 year. Inflationary increases are thus being absorbed by cost savings.

The planned expenditure in the area of each goal in the strategic plan is as follows:

| | 2003/2004 Budget | 2002/2003 Budget | Increase in 2003/2004 | |
|--|---------------------|---------------------|--------------------------|--------|
| Support of engineering practice | \$0.290m | \$0.262m | +\$0.028m | |
| Qualification and competence recognition | \$1.068m | \$1.042m | +\$0.026m | Note a |
| Professional development support | \$0.590m | \$0.367m | +\$0.223m | Note b |
| Leadership on issues | \$0.209m | \$0.120m | +\$0.089m | Note c |
| Communications to Members | \$0.703m | \$0.669m | +\$0.034m | |
| Renewal of the profession | \$0.600m | \$0.180m | +\$0.420m | Note d |
| Activities of Branches, TIGs and SIGs | \$0.402m | \$0.262m | +\$0.140m | Note e |
| In-house support systems | \$0.458m | \$0.487m | (-\$0.029m) | |
| Member recruitment/external income | \$0.169m | \$0.135m | +\$0.034m | |
| Strategy and governance | \$0.097m | \$0.100m | (-\$0.003m) | |

NOTES:

- a) New funding from CPEng and other registration fees
- b) New funding from attendance fees for new short courses
- c) New activity that is subscription funded

d) New funding from externally-funded contracts expected to be signed in 09/03

e) Technical adjustment to include the activities of TIGs and SIGs rather than new spending

Expressed in terms of income and expenditure, the overall budget is as follows, with equivalent 2002/2003 figures in brackets:

Income

| | |
|---------------------------------|---------------------|
| Subscriptions/registration fees | \$2.165m (\$2.041m) |
| Course and assessment fees | \$0.799m (\$0.684m) |
| Print advertising | \$0.136m (\$0.101m) |
| Electronic advertising | \$0.152m (\$0.116m) |
| Sponsorship | \$0.088m (\$0.127m) |
| External contracts | \$0.963m (\$0.343m) |

TOTALS \$4.303m (\$3.412m)

Expenditure

| | |
|----------------------|------------------------------|
| Travel and catering | \$0.452m (\$0.349m) |
| Printing & documents | \$0.456m (\$0.290m) |
| Communications | \$0.240m (\$0.231m) |
| General expenses | \$0.536m (\$0.462m) |
| Rentals | \$0.306m (\$0.278m) |
| Consultants | \$0.571m (\$0.194m) |
| Branches | \$0.149m (\$0.142m) |
| Staffing | \$1.718m (\$1.577m) |
| TOTALS | \$4.428m (\$3.523m) |
| DEFICIT | (\$0.125m) (\$0.111m) |

Income from subscription/registration fees is rising as more people register for CPEng, but the CPEng annual fees will still not cover the CPEng operating costs for 2003/2004; the registration system will still "owe" IPENZ Members about \$250,000 in start-up costs at the end of 2004. These costs will eventually be recovered from CPEng fees.

In both years the initial budget has allowed for a

small deficit. There is no need for alarm – the Chief Executive has been instructed to make operational savings to achieve a small surplus. For the 2002/2003 financial year, the 10-month results show a year-to-date income of \$3.079m and an expenditure of \$2.501m. Income at the end of the year is predicted to be close to the \$3.412m forecast, but expenditure will be more like \$3.30m, meaning that a surplus of about \$0.10m is projected. ☺

World Summit in Preparation

A World Summit on the Information Society (WSIS) is to take place in Geneva in December this year. Laurence Zwimpfer MIPENZ has been involved in preparing for the summit, in his role as chair of UNESCO's Communication Sub-Commission. He represents New Zealand on the Intergovernmental Council for UNESCO's Information for ALL programme, designed to reduce the gap between the information-rich and the information-poor.

The challenge, as Laurence explains it, is improving political awareness of ICT, so that governments will establish policy frameworks for reducing the "digital divide". He notes that Australia has been better placed to do this than New Zealand because it has a government agency dedicated to the information economy – a responsibility split among several different agencies in New Zealand.

Laurence has attended an Asia-Pacific Regional Conference in Tokyo aimed at developing a regional vision for the Information Society. A "Tokyo Declaration" adopted at the end of the conference, established priorities – infrastructure development, affordable universal Net access, and promoting local content to preserve cultural diversity. ☺

Reminder

Please return outstanding Benevolent Society Dissolution forms as soon as possible.

Replacement documents can be obtained from Megan Rodden, ph 0-4 473 9444, email mrodden@ipenz.org.nz or download a copy from the IPENZ website www.ipenz.org.nz/dissolution ☺

Practice Fields: CPEng and IPER registrants

At National Office we are often asked for guidance on describing one's personal practice area for assessment purposes, as requested on the application form. This data is used in the selection of assessors, to ensure that the panel has the appropriate expertise to assess the particular candidate.

IPENZ has not attempted to classify the activities conducted by professional engineers into rigid categories. Instead applicants are left to self-certify the main fields of practice within which they conduct their professional activities, and therefore wish to present themselves for competence assessment.

Now that we have processed a sizeable number of applications for the CPEng and IPER registers, Members may be interested to learn of the distribution of registrants within the available fields of practice.


There are currently 366 CPEng registrants, with the majority practising in the traditional Civil (41%) and Structural (17%) fields as illustrated by Figure 1.

There is a similar profile for IPER, where 193 engineers have registered. While those from the

Civil and Structural practice fields again dominate; interesting differences between the two registers appear for the Mechanical, Electrical and Business practice fields.

Some 10% of IPER registrants were assessed within the Business practice fields, but only 7% of CPEng registrants. While it's perhaps too early to draw conclusions, this suggests that an international quality mark has an important benefit for professional engineering business, when New Zealand engineers are looking for business opportunities outside of the country.

When these new registers were introduced, there were 12 practice fields within which applicants could self-declare their competence. Since the International Engineering Meetings in Rotorua last June, a further four practice fields have become available, namely Aerospace, Building Services, Fire and Petroleum. If you applied for assessment before these new fields were introduced, and would have used one of them had they been available, you can write to the Registrar requesting assessment within that field. Such requests will be submitted to the Staff Assessor involved, to ascertain whether a

decision can be made without the candidate having to supply additional evidence. If so, the recommendation will be presented to the Competence Assessment Board for approval. 

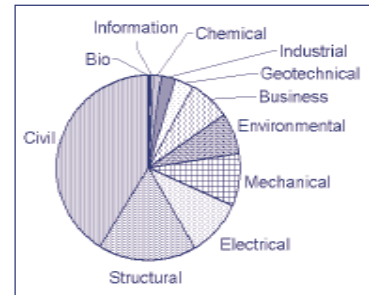


Figure 1: CPEng registrations by Practice Field

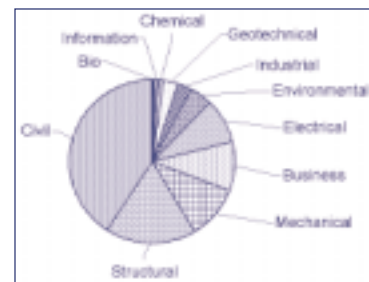


Figure 2: IPER registrations by Practice Field

Obituary

Reginald John (Jack) McCarten MIPENZ 1925-2003

Jack McCarten was born in Auckland, and spent much of his childhood in Kauri, north of Whangarei. He completed his schooling at Seddon Memorial Technical College in Auckland. He subsequently undertook engineering studies at night school and by correspondence, completing AIMechE and City and Guilds (Grade 1 electrical) qualifications.



Jack's career with the New Zealand Railways spanned 40 years, and the transition from steam to diesel and electric locomotives, starting at age 16 as an apprentice fitter in the Otahuhu workshops and moving on to Woburn. His experience ranged widely, from investigating mechanical breakdowns, derailments and signalling faults, to redesigning components, and amending rules, regulations and maintenance codes. He became an Associate Member of the Institute of Mechanical Engineers in 1950.

In 1951 he was appointed Engineer to the District Mechanical Engineer's Office in Auckland. In this year he also married Norma, sacrificing a trip to England which was available to "single-status" staff for professional development. Two years later he moved on to the Design Office in Wellington, and subsequently to the District Mechanical Engineering office there. He became a Registered Engineer in 1956.


In 1964 Jack was appointed Assistant District Mechanical Engineer in Christchurch. In this role he specialised in derailments, which required him to be constantly on call. He returned to Wellington in 1970, and in 1972 was promoted to Engineer Operating, in the Chief Mechanical Engineer's Office, and he completed his career from 1976 as Inspecting Engineer. Four months in South

Korea was a highlight of his later NZR career; he undertook quality control inspections and oversaw a major contract for the supply of bogeys and wagons. Jack retired in 1981, having completed 40 years' service, at the age of only 56.

Jack took a particular interest in operating and safety issues, particularly relating to derailments and other incidents. In 1977 he published a paper in NZ Engineering on "Factors Relating to Railway Derailments".

Jack joined IPENZ in 1967, and served the Institution in various capacities, representing the Government Services Division on the Statistics Committee, and in 1977-78 serving on a Membership sub-committee. He also represented New Zealand Railways on the National Executive of the LPG Association, and on several Standards Association committees. In 1981 along with his wife, Norma, he instituted the Professional Commitment Award for recognising members who make a distinguished continuing contribution to the profession, the Institution and to society. He was a Life Member of IPENZ.

Outside his work, Jack was involved in voluntary work and sport. He and Norma energetically supported various community causes. He represented New Zealand in rowing at the 1950 Empire Games, and was a dedicated member of the Petone Rowing Club for some 50 years, coaching and serving on the Committee, with a term as President. His own rowing exploits were recognised with a Petone "Champion of Champions" Award, marked by a public plaque. The Petone Rugby Club also benefited from his talent and dedication.

Jack was much engaged with his family of four and later his grandchildren, and greatly enjoyed DIY, building toys, dolls' houses and a model railway. He extended the family's first home, and constructed first a beach cottage, then a full house at Te Horo. He also built two passive solar-heated houses in Petone in his retirement, the second being his final home. Other hobbies included fishing and gardening. 

Wellington Watch

As part of our effort to engage Members more in our Public Policy work, this column will report the activities of the policy team, in the hope that Members will invoke themselves in the policy process.

The team has been:

- preparing for oral submissions to the Commerce Select Committee Enquiry into the Electricity Market
- analysing the impact on the engineering profession of the Government's foreshore and seabed proposal
- working with the Ministry of Economic Development on, and preparing for the IPENZ submission on the new Building Bill
- analysing the Resource Management (Climate Change) Amendment Bill 2003
- attending regular meetings with the Ministry for the Environment and the Ministry of Foreign Affairs and Trade
- attending a Commerce Select Committee presentation on the Growth and Innovation Framework Indicators

For further information contact either Claudine Dupuy, Research Officer or John Gardiner, Deputy Chief Executive, or visit the IPENZ website www.ipenz.org.nz



Obituary

Russell Dickson FIPENZ (1934–2003)

In the course of his career Russell Dickson built up a formidable reputation in New Zealand traffic and transportation engineering and planning. Born into an "engineering family" in Auckland, he was educated at Takapuna Grammar and Auckland University, where he completed a BE and a BSc majoring in mathematics.

There followed a spell in London with an international consultancy. On returning to New Zealand Russell joined the Ministry of Works and Development. He worked on the Waikato hydro projects, living in Mangakino with his family.

A move back to Auckland (he lived the rest of his life in Castor Bay) saw Russell involved in design development for the city's motorway system. In his spare time he studied for a Diploma in Town Planning. He was appointed District Highways Engineer, responsible for State Highways in the Auckland area.

Subsequently Russell moved on to set up his own town planning and traffic engineering consultancy, which developed a reputation for excellence and professional integrity. He was noted especially for service station and supermarket developments, and safety audit work for Transit NZ. His election as a Fellow recognised his contribution to IPENZ, the Transportation Group and the profession.

Beyond work, from which never retired, Russell enjoyed gardening, fishing, boating, and breeding budgies, and was involved with community and church in various ways. He is survived by his wife Dulcie, four sons (of whom three are engineers) and eight grandchildren. ☺

Know someone who merits a fellowship?

Nominations for Distinguished Fellow, Honorary Fellow, Fellow

Nominations are called for engineers at the top of the profession to be promoted to the class of Fellow. Fellows are members of IPENZ who have made a substantial contribution to the engineering profession, its practices or IPENZ itself.

Each candidate for Fellowship of IPENZ is expected to have excelled in one of the following areas:

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

and also to have

- contributed to some aspect of the Institution's work, or that of an organisation with similar objectives, for at least one to two years
- 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.

Fellowship nominations should follow the guidelines set out in the Fellow nomination documents, which are available from www.ipenz.org.nz/ipenz/who_we_are/honours/fellows.cfm or by contacting Trish Virtue, tvirtue@ipenz.org.nz

Nominations should be submitted by 30 September

Membership Changes

The following is the full list of additions to and changes in the classes of membership for the period 1 June 2003 - 31 July 2003

Elected to Graduate:

M G Abbott, A Ali, J B Apil, R H Aubrey, J S Bering, J L Blake, A A Brown, D R Bryant, S A Carmichael, GWC Chan, H H Cheung, MRI Choudhury, R Coatsworth, P Coloma, A J Colquhoun, B J Currie, C D Delmarter, A Y Devi, K G Dinsdale, J W Dreaver, L J Drysdale, M B Evans, L N Fischer, N A Fletcher, C D Green, ATM Hasanuzzaman, M F Hawtin, S R Heappey, D G Heaton, T A Hilliker, C-K Ho, M C Hooker, A S-J Hsu, D W Irecki, KDJ Irwin, B Jain, MRC Jordan, M K Kaushal, S L Keenan, T C Kelly, J M Knudsen, P Kumar, S Kumar, D S Lauchlan, K Y Lee, T S Lee, GVM Lees, I G Leung, GAG Mackenzie,

B McCall, JJB Manibo, A K Mansoor, B M Matthews, DAJ Myers, P J Neylon, H C Ok, T R Oughton, H J Peters, RFN Polvere, R J Powles, N Prasad, C Pye, R Rai, J JG Ramsay, C A Rhodes, JJP Robertson, R Salvador, E J Snook, R Solanki, J Y Staddon-Smith, J J Stevenson, S B Stratton, A P Tokelove, A T Van Houtte, H R Walker, M G Walter, B Weng, A R Wightman, D M Wickham, C L Williams, N A Willson, H-Y Yang, R Zaki

Promoted from Graduate Member to Professional Member:

KMAT Al-Sayegh, M J Gatland, G D Hamilton, M J Harris, E W Henderson, J Henderson, G E Offer, S Patel, A J Snyman, S J Woods

Elected to Professional Member:

CMH Chan, I Constable, A van Huyssteen, K C Lim, R

P Millican, P J Paterson, L S Penning, EHL Tan, J M Walsh, RCP Yip

Elected to Technical Member:

N A Beckett, W N Cooper

Elected to Associate Member:

P de Bruin

Promoted from Associate Member to Technical Member:

T B Fraser

Election to Affiliate Member:

DNR Dravitzki, M Martin

Promotion from Affiliate Member to Graduate Member:

A J Clarke, J A Myburgh

Coming Events

Leadership for Women

Essential skills and strategies for today's women in business.

When: 15 & 16 September (Wellington)
18 & 19 September (Auckland)

Where: The Duxton Hotel, Wellington
Heritage Hotel, Auckland

Cost: \$1595 + GST

Contact: register@brightstar.co.nz

Mastering Negotiation Skills

Course designed specifically to help you refine and develop your existing negotiation skills.

When: 22 & 23 September (Wellington)
29 & 30 September (Auckland)

Where: The Duxton Hotel, Wellington
Heritage Hotel, Auckland

Cost: \$1595 + GST

Contact: register@brightstar.co.nz

Construction Contracts

This two-day seminar covers the organisation and administration of contracts. This seminar will provide you with essential training that will significantly improve your knowledge and skills in this critical area.

When: 1 & 2 October

Where: Waipuna Conference Centre, Auckland

Cost: \$1295 incl. GST

Contact: psc@canterbury.ac.nz

The Definitive Guide to Project Management

This seminar has been designed to provide participants with an intensive three-day introduction to project management tools, techniques and methodologies.

When: 1, 2 & 3 October (Auckland)
7, 8 & 9 October (Wellington)

Where: Stamford Plaza, Auckland
Cophthorne Hotel, Wellington

Cost: \$1995 + GST

Contact: register@conferenz.co.nz

TNZ - NZIHT - LGNZ Rooding Symposium

This year Transit NZ, and the NZ Institute of Highway Technology are joined by Local Government New Zealand in preparing an excellent informative programme for the Symposium.

Where: Hotel Intercontinental, Wellington

When: 12 October

Contact: lynette@nziht.co.nz

IPENZ Meetings

The next meeting of the IPENZ Board will be on Tuesday 7 October.

The next meeting of the IPENZ Competence Assessment Board will be on Wednesday 1 October.



Engineers New Zealand

The Institution of Professional Engineers
New Zealand

President

Gerry Coates
president@ipenz.org.nz

Deputy President

Ian Parton
deputy.president@ipenz.org.nz

NATIONAL OFFICE

Third Floor
101 Molesworth St
PO Box 12-241
Wellington
New Zealand

Tel: +64-4-473 9444
Fax: +64-4-474 8933
email: ipenz@ipenz.org.nz

www.ipenz.org.nz

Publications Manager

Lorraine Brown 0-4-474 8943
lbrown@ipenz.org.nz

Desktop Publisher

Susan Levick 0-4-474 8987
slevick@ipenz.org.nz

Subeditor

Janet Hughes 0-4-474 8945
jhughes@ipenz.org.nz

Membership enquiries

Bub Konia 0-4-474 8930
Claire Auger 0-4-474 8948

Chief Executive

Andrew Cleland 0-4-474 8935
acleland@ipenz.org.nz

Deputy Chief Executive

John Gardiner 0-4-474 8932
jgardiner@ipenz.org.nz

Education and Career Development Manager

Virginia Burton 0-4-474 8936
vburton@ipenz.org.nz

Registrar

Jeff Wastney 0-4-474 8983
jwastney@ipenz.org.nz

Engineering Practice Manager

Murray Isdale 0-4-474 8986
misdale@ipenz.org.nz

Knowledge Services Manager

Sharon Wagg 0-4-474 2022
swagg@ipenz.org.nz

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