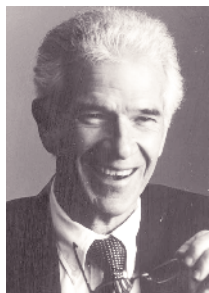


President's Message



National Networking

June has been a busy month communicating with our Members and other stakeholders around the country. In the June issue of *engineering dimension* I touched briefly on the launch of "Growing Smartly: A Review of National Policies for Fostering Research, Development, Innovation and Entrepreneurship in New Zealand". About 30 invited guests attended the breakfast launch, and from their feedback, it appears our proposals for improving the effectiveness of national research and development efforts and outcomes were well received.

I was also invited to attend the Ingenium Annual Conference in Palmerston North and speak on my "Engineers as Leaders" presidential theme. My theme was very much in keeping with the Ingenium Conference theme of "The Next Generation", focusing on sustainability and succession planning. I spoke specifically to issues of succession planning and leadership in local government.

Later in the month, Chief Executive Andrew Cleland and I called on the New Zealand Trade and Enterprise Chief Executive Tim Gibson. NZT&E is funding the Futureintech programme which IPENZ is managing, and this was a courtesy call to brief him on "Engineers as Leaders", and to review the progress of Futureintech.

Andrew Cleland and I also commenced the annual "President's Roadshow" visiting the central north island branches of Taranaki, Wanganui, Manawatu, Hawke's Bay and East Coast. The Branch meetings took the form of breakfast, lunch or evening meetings at which the "Engineers as Leaders" theme was delivered to Members present. Andrew also spoke on CPEng and ethics issues.

Apart from delivering the President's message, these meetings are an opportunity to network with Members, and canvass Members on issues relevant to the profession and their Branch. My impression is that my message is timely, and has been well received. Many Members felt "Engineers as Leaders" is a positive step to raise the profile of the Institution and their own work. Not surprisingly perhaps, the feedback on many issues was common across the Branches. Some of these issues are summarised below:

- Members are generally supportive of IPENZ direction and how their fees are being spent
- while National Office can take the lead on raising the profile of the profession, it is up to Members themselves to show leadership in the business and social community, and to build awareness of the contribution that engineers make
- the Futureintech programme is a necessary initiative to attract the best and brightest students into the profession
- quality marking knowledge, as opposed to provision of knowledge, is becoming increasingly important for Members who can be overwhelmed with information at times
- constraints on fee levels, particularly in the mid-management range, are limiting the ability of employers to increase salaries in the mid-management to senior management levels
- while the "Branch Model" is generally alive and well, most Members felt that they could do with some assistance in organising content for Branch meetings

continued overleaf >>>

The end of an era Moving out of Molesworth House

On Tuesday, 4 October 1966 at 6.00pm, His Excellency the Governor-General, Brigadier Sir Bernard Fergusson, officially opened the new headquarters of IPENZ on the third and fourth floors of Molesworth House. Addressing some 80 Members the Governor-General wished the Institution and profession every success and prosperity in the future.

Recent times have certainly seen his good wishes come to fruition. With ongoing growth and expansion to include such initiatives as Futureintech, the IPENZ National Office staff has now outgrown the premises, requiring a shift from its current home.

The Board of IPENZ therefore authorised the sale of its ownership in Molesworth House, being floors three and four, and the sale is now completed. The agreement will allow IPENZ to lease back the office until March 2005 at the latest, giving IPENZ nine months to find new premises.

Rather than purchase a new building (the Board has reached the conclusion that ownership of office space is not core business), a suitable lease will be sought in a central Wellington location. In moving, IPENZ are seeking any other bodies with synergistic activities who might wish to co-locate to give economies of scale. We will advise Members when new office space is confirmed.

At the same time, IPENZ is closing down the Northern Regional Office. Lesley Cutting will still continue to provide services to the Auckland Branch, but there will not be a formal office and street address. This move reflects changes in technology, and foot traffic of Members to the Institution's office is now very small – the office no longer receives visits in the way it used to. ☺

Poll Popular

IPENZ have been running a weekly poll focusing on a current policy issue. To date we have sought Members' views on the results of the Government Transport Agency review, the Government review of the RMA, who should pay for the reported \$70 million upgrade of the South Island coal route, and whether Members support the use of tolls to fund roads.

If you're not prompted by the weekly *engineering direct*, you can still log into the Member-only area of the IPENZ website, and cast your vote – we'd value your opinion! Please contact Claudine Dupuy policy@ipenz.org.nz for more information, or if you have a hot issue you'd like to see polled. ☺

<<<continued from front page

Between Branch meetings, Andrew and I took the opportunity to make industry visits to Members and employers. In New Plymouth I presented an Endorsed Employer certificate to John Pitman, MIPENZ, Head of Engineering at Shell Todd Oil Services, followed by morning tea with the engineering staff. We also visited Peter White-Robinson, FIPENZ, at Fitzroy Yachts.

Many of you will know Peter White-Robinson from his innovative work at Fitzroy Engineering. About three years ago Peter began a subsidiary venture as Fitzroy Yachts, specialising in building aluminium super yachts. Currently under construction in his shed were three boats, the largest being 40.3m long. He has had to extend the shed to accommodate this boat and hopes the next one will be an even longer, all carbon fibre boat. Fitzroy Yachts is a successful story of innovation and entrepreneurship in New Zealand's engineering sector, and as such, has become one of my exemplar companies.

In Hastings we paid a call on Heinz Wattie, meeting with Anthony Bennet, Engineering Projects Manager. Heinz Wattie has developed in-house capability to

design and build their own food processing and kitchen equipment, having found that proprietary equipment required too much customising and modification. Today, the engineering group at Hastings is regarded by the Heinz group as a centre of knowledge for this equipment, and their advice is sought from other Heinz processing plants.

These industry visits were not only interesting, but really highlighted the fact that New Zealand engineers are innovative, and skilled at technology transfer. While I go to some lengths in the Roadshow presentation to stress this, it is great to see it in action.

July is also a busy month. We have our bi-monthly board meeting in Wellington, and the following day IPENZ is hosting a breakfast with key public and private sector stakeholders to discuss IPENZ's upcoming public policy programme, and how this might be tuned to their needs. The Roadshow presentation will also be given to the Wellington Branch.

Ian Parton
President

IPENZ representatives attend International Mobility Workshops

Andrew Cleland, Virginia Burton and Basil Wakelin recently represented IPENZ at a set of international engineering workshops aimed at progressing policy matters around the various mobility agreements. Held in the UK over five days, the workshops had approximately 25 participants from 10 nations.

As the workshops are not decision-making bodies, the specific recommendations from the workshops will be returned to IPENZ (primarily the Standards and Accreditation Board) between now and the June 2005 International Engineering Meetings in Hong Kong, so

that IPENZ can make final decisions on whether or not to support them. Key workshop outcomes from the IPENZ viewpoint are:

- 1. Competence profiles for professional engineer/engineering technologist/engineering technician** These three profiles would be developed as exemplars of the International Professional Engineer registrant, potential registrants under the Engineering Technologist Mobility Forum agreement, and registrants under any future

engineering technician mobility agreement. The profiles are not to be seen as an "international standard" but as an example of good practice (substantially equivalent to the international standard).

The IPENZ concept of using definitions of complex, broadly defined and well-defined engineering problems to describe the range or level of an activity, and therefore distinguish between the three levels of competence, was accepted. The IPENZ concept of practice area was also accepted. Where the international exemplar profiles have 12 elements, the IPENZ profiles have 11 elements, but 10 of these elements were in common. The additional element listed in the IPENZ CPEng standard is in engineering risk (which for the international exemplar profiles is subsumed in another element), while the two additional elements missing from the IPENZ profiles are in regulatory compliance and evaluation of the impact/benefits of engineering activities.

Although there are slight wording differences to the IPENZ standards, there can be little doubt that the international exemplar and the CPEng standard are substantially equivalent. The international exemplar may be slightly changed prior to the June 2005 meetings, but overall is very acceptable to IPENZ.

- 2. Graduate attributes profile for graduates of 4-year and 3-year degrees, and 2-year diplomas** These profiles would be exemplars of the attributes of Washington Accord, Sydney Accord and Dublin Accord qualifications, to which New Zealand qualifications should ultimately

Wellington Watch

- Policy staff prepared a submission on the Charities Bill for the Social Services Select Committee.
- Policy staff attended a workshop of business leaders and other organisations on the 2004 Resource Management Act Review.
- Policy staff consulted with Members and prepared a submission on the Resource Management Act Review for the Ministry for the Environment.
- IPENZ staff represented IPENZ at the Ministry for the Environment's Professional Associations liaison meeting and discussed issues including the RMA, the Water Programme of Action, proposed Environmental Standards and the HSNO Strategy.
- IPENZ was represented by Claudine Dupuy and John Gardiner at the International Conference on Sustainability Engineering and Science, in Auckland this week. They will report on the conference at a later date.



National Historic Heritage Workshop

“Engineering Heritage” 3 – 5 August 2004

IPENZ is joining with the Department of Conservation and the New Zealand Historic Places Trust to hold a workshop on Engineering Heritage in Wellington.

The annual heritage workshop will have a special focus on Engineering Heritage in New Zealand and Australia this year. It will provide the opportunity for engineers, heritage professionals, and specialists involved with engineering heritage, to come together and broaden their range of skills by learning and networking

about recent projects. For engineers, the workshop will be a valuable networking opportunity to meet with heritage agencies and professionals.

The workshop will cover most aspects of heritage management and will encompass three broad program headings as used by the Historic Places Trust:

- Recognising Heritage
- Preserving Heritage
- Promoting Heritage

Workshop Programme

The Minister of Conservation will officially open the workshop in Wellington on the Tuesday morning. A feature paper will then follow the opening on “Why Engineering Heritage Matters” delivered by Keith Baker, Deputy Chair of the National Committee of Engineering Heritage Australia.

Over thirty papers have been accepted for this year’s Heritage Workshop, and while many papers are of common interest to both engineers and specialist heritage professionals, there are some papers specific to each discipline. Days 1 and 3 will therefore be run jointly, while Day 2 has been split into two parallel streams to cater for these interests. Sessions will run for 20 – 40 minutes.

Papers of general interest for Days 1 and 3 include:

- Historic Building Fire Risk Evaluation
- Earthquake Strengthening
- Stabilisation of Building Materials
- New Interpretation Guideline
- Interpreting Port Craig
- Interpreting Arrowtown Chinese Settlement
- 100 Years of Tourism: Waihohonu Hut
- Ten Years of Volunteers - Molesworth
- Ten Years of Volunteers - Skippers
- Ruapekapeka Pa Development
- Maungauika: the Story of a Mountain
- Archaeological Protection
- Flooding and Marae Consulting
- Totara Estate
- Brunner Bridge

The engineering stream on Day 2 caters for a diverse set of interests ranging from a description of historical engineering materials (including the use of burnt papa at the end of the 19th century for roading aggregate), to a paper on the development of the Wairakei Geothermal Plant.

Other topics in the engineering stream include:

- Engineering Heritage at Risk
- Engineering Heritage in UK & NZ
- IPENZ Heritage Recognition
- History of the National Grid
- Inter-island Transmission Link
- Dawson Falls Power Station
- New Zealand Coastal Defences
- Road Heritage
- Prospects for Rail Heritage

For full workshop details and registration, please see the IPENZ website www.ipenz.org.nz/heritage.

Registrations close
23 July 04.

be substantially equivalent if IPENZ is to remain a member of these important agreements. The three profiles developed by the multi-national workshop are broadly consistent with those IPENZ has previously developed in New Zealand, but are not as directly related to IPENZ internally-developed graduate profiles, as is the case for the competence profiles.

3. Review procedures for Washington Accord signatories

IPENZ representatives succeeded in having two types of procedure included – one suitable for large countries conducting many accreditations, and one suitable for small countries like New Zealand. When approved in June 2005 the procedures will enable IPENZ to progressively build evidence, through the reporting by international panellists on IPENZ accreditation panels, that IPENZ is working to the appropriate standard.

4. Mentoring of provisional signatories

IPENZ representatives made a proposal based on Basil Wakelin’s experiences which was accepted.

5. Applications for membership of agreements

New procedures to clarify entry requirements are being written, and will aid clarity to assist the many nations wanting to join the Accords.

6. Unification of procedures for the three educational Accords

It was agreed in principle, that there should be an education forum prior to any formal meeting of the Accords, at which procedural and policy items would be discussed to try to develop proposals that fitted all three agreements. The jointly agreed (or as closely agreed as possible) proposals would then go to each Accord for separate approval.

7. IntPE post-nominal

Members will recall that IPENZ speculatively made IntPE available to International Registrants in advance of international approval of the

protocols for its use. At the time, IPENZ warned engineers that formal approval had not been given, and that usage was at the risk of the individual.

The final protocols are almost agreed upon and it is now apparent that ‘(NZ)’ will need to be placed after IntPE to indicate the country in which the person has been placed on the IntPE register. This is subject to confirmation from the various jurisdictions in the next month, and if no concerns are raised, the post-nominal usage protocols will also be approved at that time. Thus, those using IntPE on their business cards will need to change it to IntPE(NZ) on their next printing run. Cards showing IntPE without (NZ) should not be used in the USA, in particular, as there may be confusion with the protected PE title there.

8. Offering of credit for IntPE registration vs credit obtained via Mutual Recognition Agreements (MRAs)

There is still too much confusion in this area regarding what credit should be given entirely on the basis of IntPE registration, and what can only be achieved through an MRA between IPENZ and a regulator of the engineering profession in another jurisdiction. A new means for signatories to the Engineers Mobility Forum agreement to report the credit they are actually giving for IntPE registration was developed and will be presented to signatories to complete prior to the Hong Kong meetings. This should aid clarity. IPENZ could then more accurately report to Members on the benefits (other than the brand demonstrating a high level of capability) which IntPE offers to registrants.

Overall, the progress at the workshops was reasonably good – international matters can be slow and are often unpredictable, but good progress was made on these and other more underpinning issues. ☺



IPENZ Professional Development Opportunities July – November

Ethics and Professional Engineers

Location	Date
Christchurch	20-21 July
Dunedin	22-23 July
Auckland	3-4 August
New Plymouth	13-14 September
Napier	30 September – 1 October

The respect which society and business accords the engineering profession is earned as its members demonstrate a strong commitment to ethics. This two-day course introduces participants to the ethical values that underpin their profession and to the obligations that flow from them. We discuss the provisions contained in the IPENZ Code of Ethics and CPEng Rules, as well as numerous legal statutes and IPENZ disciplinary regulations and processes. Participants should come prepared to reflect on their own practice.

This course is strongly recommended for Members at all stages of their careers.

IPENZ Mentoring Foundation Workshop

Location	Date
New Plymouth	11 August
Wellington	14 October
Christchurch	3 November

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.

This is an interactive foundation programme. Participants can directly apply what they learn, and learn from each other in a supportive environment, in individual, paired, group and round-robin exercises and discussions.

Professional Communication for Engineers

Location	Date
Dunedin	5-6 August
Napier	14-15 October

Do you wish to enhance your competitive advantage? This successful two-day course covers Effective Report Writing and Professional Presentations. However people may register for only one of the days.

Comments from previous participants are:

"Really appreciated the opportunity to give two presentations. Before and after clearly illustrated."

"I thought I knew everything there was to know about report writing until I went on this course." (Senior group leader, major engineering consultancy).

Effective Report Writing

By the end of the day techniques will have been given to

- structure documents with a logical flow of information that meets the needs of all readers;
- write concise text with clear main points;
- write well structured and supported Executive Summary, Conclusions and Recommendations sections.

Effective Professional Presentations

By the end of the day participants will have competencies needed for the following situations: presenting proposals to small groups of decision-

makers, both in-house and more widely; presenting the results of completed projects to fellow professionals and to lay audiences; conference presentations; presenting technical information to community groups; informing potential users of products, programmes; explaining techniques, concepts as part of a training programme.

Cost:	Two Days	\$855.00 incl GST IPENZ Members	\$945.00 incl GST Non –Members
	One Day	\$495.00 incl GST IPENZ Members	\$540.00 incl GST Non –Members

Additional cost if assessment option is included: \$54.00 incl GST

Full information on these courses and other courses offered later in the year is available on <http://www.ipenz.org.nz/ipenz/nzecal>

To register, contact CPD@ipenz.org.nz Tel: 04 474 8982 or download a registration form from <http://www.ipenz.org.nz/ipenz/nzecal>

Further courses under development for 2004 are **Finance for Engineers** and **Leadership and Management in the Engineering Profession**.

All courses may be tailored and offered in-house. If you have any comments on the programme or requests for particular courses, please contact Sharon Wagg, Knowledge Services Manager, swagg@ipenz.org.nz

JobHunt

Whether you are looking for employment in an engineering practice area or looking for staff with engineering experience you'll probably find what you are looking for at JobHunt.

The only dedicated engineering employment site in New Zealand, JobHunt offers free browsing to job seekers and levies a small charge on those advertising for staff.

Recruitment consultants and engineering consultancies, from the largest to the smallest, use JobHunt as an important part of their search for the 'right' person.

JobHunt is a formidable weapon in the arsenal of both 'seekers' and 'providers'. It has local and international influence.

JobHunt offers 60 options of job type, nine location descriptions and six levels of experience (and some of these will grow in its imminent redevelopment).

Make JobHunt part of your next career move, or instrumental in expanding your specialist expertise, or an aid in branching out into new practice areas. www.ipenz.org.nz/jobhunt

JobHunt is proudly sponsored by:



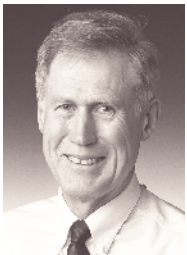


Fiona Cochrane GIPENZ joined Transit New Zealand in November last year, as Project Manager for capital works projects. A University of Canterbury-trained civil engineer, Fiona graduated in 2003, and chose engineering because she wanted a career with a challenging future, the opportunity to work overseas, and to not be confined to a desk-job! During her last year at University, Fiona was Vice-President of the Women in Engineering group. WIE is a group that

is committed to providing support and a social outlet for women in the areas of engineering and science.

Fiona's interest in roading stems from a vacation job with the Dunedin City Council in their Transportation Department. Her major task was to arrange, supervise and analyse the results of a parking survey in the South Dunedin area, sparking her interest in the impact of transportation systems on the way society functions.

As Project Manager at Transit, Fiona is busy managing four projects. Three of these projects are rural realignments; two in North Canterbury and one on the West Coast. The remaining project is a deviation to move a section of SH6, North of Greymouth, away from an eroding coastline. Her role is to co-ordinate the cost and time aspects of the projects. "The learning curve has been very steep, but it is satisfying to be able to look back after only 7 months of work and see the progress I have already made. I am looking forward to a challenging and exciting career."



Gerry Coates FIPENZ, immediate Past-President of IPENZ has set up a new company, Wise Analysis Limited located in Wellington's CBD. Wise Analysis focuses on forensic and high level engineering advice, coupled with governance services. Being a consulting engineer for many years – and also a fire investigator for the last 25 years – is one reason Gerry has decided to concentrate mainly on this aspect in his new company. "It's a fascinating field – a bit like being a detective", he says.

He has also been a strong advocate for more engineers in positions of leadership. So having "talked the talk" he is now "walking the walk" and actively offering himself in appropriate governance roles. After attending a recent CCMAU company directors' governance seminar (with three other engineers), he believes it is encouraging that more engineers are now becoming active in this area.

As Past-President he also has a role in ensuring that his Committee's work on sustainability finds a receptive ear in Government and business circles. He was a keynote speaker at the International Conference on Sustainability Engineering and Science hosted by the NZ Society for Sustainability Engineering and Science in Auckland earlier this month.




John Kirwan MIPENZ joined Transit New Zealand in January this year after spending the previous year working in the very busy contracting industry (land development and infrastructure construction). His previous work at Waimakariri District Council involved project management and recommending engineering conditions for resource consent applications. At Transit he is a member of the Christchurch Regional Office's capital project team. As a project engineer his duties include ensuring capital works are kept on programme. Projects include passing lanes, realignments, safety improvements, guard-railing, stock truck effluent disposal sites and bridge widening.

Transit's business is about being a world leader in roading solutions, which is much more diverse than John had initially envisaged. For example Transit (in conjunction with stakeholders) is creating a network of stock truck effluent disposal sites, placed strategically around the country. This will help greatly to remove stock effluent

CPEng Progress Report

Applications received and processing in progress. The statistics for assessment applications as at 29 June 2004:

	CPEng	IPER	IPENZ Practice College
Total Applications Received	1802	1071	2356
Approved	1583	943	2184
Declined	9	51	8
Withdrawn	51	13	24
Number Currently Registered	1561	897	1823
Abeyance	7	5	0
Resigned	2	29	9
Reinstated	7	4	0
Lapsed	0	0	101
Applications Being Processed	159	64	140
Approved but not yet or yet to be registered	6	8	251

Members were reminded by letter of their being placed in abeyance if fees were not received by 31 May 2004. On that date, 14 registrants were placed in abeyance for non-payment of fees. There have been seven reinstatements to the register following receipt of payment. 

pollution from our roads and roadside environment. Particularly challenging aspects are matters involving consultation, land acquisition and obtaining any required resource consents.

John was attracted to Transit by their leadership in the social and environmental aspects of land transport (and getting to bike to work!). He is looking forward to the contribution he can make to provide engineering solutions to some of the transportation challenges faced today.



Roger Ward MIPENZ. Hamilton City Council has appointed Roger Ward to the position of Roads and Traffic Manager. Works and Services General Manager Sally Davis says, "Roger brings to Hamilton experience developed overseas as a roading engineer, 10 years as Roading Manager for Waitakere City Council, and four years in his current role of roading consultant with SKM in Auckland. Over this time he has gained a broad understanding of the complex transport issues facing a developing city.

"I am delighted to have such an experienced traffic engineer taking over the unit and am confident of Roger's abilities to deal with the challenges of our growing city, including the need to develop an integrated, multi-modal transport system for Hamilton."

Roger will be involved with Council developing strategies for integrated transport in and around the city for the next 10+ years. The strategy, branded Access Hamilton, takes into account the needs of cars as well as measures that will encourage drivers to consider using alternative modes of transport. Council is wanting to get more people to walk, cycle or use a bus or other public transport, to flatten the traffic growth rate. An encouraging trend is that bus patronage is increasing eight percent per year. 




Please welcome **Kavita Kansara**, our new Business Development Co-ordinator.


The latest addition to the IPENZ team Kavita joins us, replacing Callum Dyet who is now somewhere in Europe. She is responsible for various marketing activities, project work, and liaison with our Student Members.

Kavita joins IPENZ after spending four years at Kapiti Cheeses in a sales and marketing role. She says that the world of cheese and ice cream is fascinating and there is always something new to learn, and always something yummy to taste!

Kavita is very excited about her role at IPENZ. She enjoys working in teams to find solutions and thinks everyone always has something valuable to contribute, so feels that she can bring another perspective to the existing team. Kavita's role will give her the opportunity to work with a wide range of people. "I especially look forward to working with IPENZ staff and students", she says.

Away from work, Kavita is passionate about cooking. One day she would like to write a cookbook. She also enjoys reading, going to the movies and travelling. 

What's happening at National Office

- At its AGM on 24 June, IPENZ Deputy Chief Executive John Gardiner was re-elected vice-Chair of the Construction Industry Council. For more information on the CIC visit www.nzcic.co.nz
- Richard Gibbons tendered his resignation from the Engineering Practice Board. We thank Richard for his contribution. Members' initial expressions of interest in the position may be made by email to misdale@ipenz.org.nz
- The July seminar on "Managing Professional Risk" delivered by Don Houchen from AON and Arthur Park from CEAS in Wellington was well attended, and received excellent feedback from participants. If Members would like this seminar held in their region, contact Sharon Wagg, swagg@ipenz.org.nz 

The right engineering professional for the right job


Engineering is a complex and wide-ranging profession. Virtually every field of human endeavour relies to some extent on the work of engineers – the food we eat, the buildings we live in, the tools we use to communicate, the cars we drive, the roads we drive on, our medical resources, facilities and advancements, and the energy we power it all with.

Engineering professionals also work at varying levels of expertise and responsibility – some projects are small and wholly technical, while others are worth hundreds of millions of dollars.

Add to this a range of engineering credentials, and it's not surprising that those outside the engineering profession get a little confused as to who's who and who does what exactly!

To help make things clearer, IPENZ has put together an introductory guide called "*engineering edge* – a guide to the engineering profession". *engineering edge* is a brief introduction to engineering professionals and their credentials, and was put together to help ensure that the right engineer is specified and employed for the job. Hence the guide is particularly aimed at regulators who specify the requirement for engineering expertise, and purchasers and employers of these engineering services.

engineering edge provides detailed descriptions of engineering work types, occupational groups and competence profiles, as well as information on engineering credentials and quality marks.

Written in plain English with practical examples, *engineering edge* would be a useful resource for many applications. To source a free copy of "*engineering edge* – a guide to the engineering profession", please contact IPENZ National Office. 

What is a Mentor?

A mentor is someone who has the experience to offer advice for the problems you may face in your work and career, and who can discuss with you the decisions you have to make. A mentor takes a personal interest in your professional development and can assist in building confidence to achieve your goals.


Benefits of the IPENZ Mentoring Programme

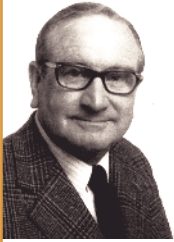
For the Mentor

- The reward of assisting others to be successful and develop their careers
- Developing networks with the next generation of industry leaders
- Building skills in coaching, problem solving, and people development
- Furthering your own self-awareness and professional development
- Earning valuable Continuing Professional Development hours
- Contributing to New Zealand acting as a role model for others to follow

For the Mentee

- A mentor can act as a sounding board for ideas and concerns
- A mentor can help clarify goals and priorities, and identify development needs
- A mentor can help plan strategies to achieve your mutually agreed goals
- A mentor may offer advice on how to expand your network of professional contacts
- A mentor may help identify resources and information needed
- A mentor can help boost confidence by listening, advising, offering support and helping overcome obstacles
- A mentoring relationship can provide a means of transferring professional knowledge, technical expertise, and organisational awareness
- A mentor will help sharpen the learning curve to translate 'theory' into professional practice

IPENZ are always looking for new mentors. For more information on mentoring go to the Member-only area of our website <http://www.ipenz.org.nz/ipenz/members/mentoring/> or contact Trish Virtue at tvirtue@ipenz.org.nz 



Gerald Brett Collie FIEE, FIPENZ

3 February 1922 – 18 April 2004

Gerald Collie was a big man, both physically and in his standing in the electrical industry. His career as a professional engineer spanned 42 years and, like so many of the engineers of his generation, his whole career was with the one organisation. The organisation changed its name and structure many times but at the time of his retirement it was the Electricity Division of the Ministry of Energy.

Born and raised in Christchurch, Gerald left high school to join the department as a draughting cadet in 1940. During the next five years he worked in Christchurch and Palmerston North and for some of that time studied at Canterbury University. He joined the IEE as a student in 1946, and in 1947 took their examinations to qualify as AMIEE. After a further year in Christchurch he was moved to Head Office, applying his skills in draughting and engineering to the detailed design of new hydro power stations. After several years in Wellington he was moved back to Christchurch where he became involved in transmission line construction overseeing the erection of the 70-mile 110kV wood-pole line from Oamaru to Dunedin. He was also involved in the maintenance of substations and transmission lines. He became a Member of IEE in 1952.

In 1957 Gerald was granted leave to take up a Federation of British Industries scholarship and spent nine months studying the British power industry. He moved back to Wellington in 1958, and rose up the ranks in the Transmission Line Section, becoming Assistant Transmission Line Engineer in 1962. At this time there was considerable expansion of the 220 kV system, and the HVDC scheme was in the design and planning stages, and Gerald made a significant contribution.

Gerald was appointed as Assistant District Electrical Engineer in Nelson District in 1964, and was given special responsibility for seeing the completion of the HVDC line and the terminal equipment at Fighting Bay.

A year later he was appointed to the same position in Dunedin District. In Dunedin there were several new power stations to manage and the district was heavily involved in the construction of the 220kV lines from Manapouri to the smelter at Tiwai Point. With the retirement of Allan Lusk and further restructuring, he became District Manager in 1971, his first challenge being to appoint five new senior staff to his team. Gerald also oversaw the design and transition into a new office building. He was District Manager for five years, before transferring to the same position in Christchurch District, where he remained until his retirement in 1982. He thus avoided the trauma of the organisation's transition to a corporation by about three years. In 1974 he became a Fellow of IPENZ, and in 1977, a Fellow of IEE.

Those who worked for Gerald respected his high integrity and trust, and he was recognised as a capable and good manager. He set very high standards for himself and expected the same of others. His training as a draughtsman doubtless made him see the need for attention to detail and this was evident in his strong and lifelong interest in the appearance of equipment as well as ensuring its efficient operation. It could be said that he was a perfectionist to a fault.

Gerald was adept at maintaining good but firm relationships with the various councils, boards, guardians and contractors that the department dealt with. He managed to work harmoniously with these bodies, often capably defending unpopular policies laid down from Head Office or the government of the day.

In retirement Gerald maintained an interest in the electricity industry. He served on a panel looking at dam safety and was also a member of the IPENZ Heritage Committee. Like many of his contemporaries, Gerald found it hard to accept the massive change to the industry that took place in the 1990's, and expressed his opinions forthrightly.

Gerald is survived by his sister, Barbara. 

(Thanks to Derek Olsen and Brian McGlinchy)

Futureintech July update

Ambassadors in the Community

Futureintech Ambassadors have started working with school students, to promote the message that careers in technology, engineering and science can be exciting and rewarding.

In Wellington, they have been talking to students at careers events, sharing the stories of the work they do. An inner-city primary school is already looking at using an Ambassador to help develop their small playground.

VIP Scheme Launched

Futureintech is providing funding for senior professionals from technology, engineering and science-based industries to spend up to three weeks in a tertiary institution. Their role will be teaching, advising on research, or a mixture of both.

The purpose of the VIP Scheme is to encourage ongoing partnerships between industry and education. Having top professionals share their industry expertise with tertiary students and staff

is expected to have many benefits. For academic staff, it's a chance to learn about developments in the private sector – knowledge which could help improve teaching and research programmes. For students, it will mean a sense of what to expect in the workforce once they graduate, and information on what skills employers are looking for. Find out more at <http://www.futureintech.org.nz/VIP.cfm>

Futureintech and the Growth and Innovation Framework (GIF)

As part of the Government's Growth and Innovation Framework (GIF), Futureintech is working with the Ministry of Education to increase support for the technology curriculum in secondary schools.

We are taking part in a reference group looking to increase student participation in technology, improve the quality of courses and teaching, and improve links between industry and education sectors.


The programme includes a focus on innovation and entrepreneurship, and fits in with Futureintech's goal of supporting technology education.

Futureintech Signs ETITO Contract

Another project is the Canterbury ICT Growth pilot aimed at addressing skills shortages. Research is underway to identify what careers in the industry offer, and the kind of skills and personalities people need to do well in this field. Already Futureintech staff are looking at different ways courses and careers in ICT are promoted in order to come up with indicators of effectiveness.

Find Out More

To find out more about Futureintech and/or to have someone visit you to talk about the project, please give us a call on 04-473-2023.

And don't forget to visit our website at www.futureintech.org.nz to check out the profiles of young professionals and the companies they work for, along with information about different career paths and scholarships. 

Membership Changes

The following is the full list of additions to and changes in the classes of membership for the period 1 April 2004 – 30 June 2004

Elected to Professional Member

P Alkema, K G Brian, J A Brierley, P A Campbell, C J Chivers, M E Cobeldick, G Collins, J D Cuthbert, A T Drake, C W du Toit, K J Ellis, S Farjo, V R Furniss, N W Gamage, I D Greenwood, S M James, D L John, A M Lang, J R Leeves, W J MacDonald, B Mannakkara, K L Marlow, M F Ogilvie, P S Perelini, B G Robertson, C G Rodliffe, M C Sweeney, C P Ward, N J Wharmby, K K Yeung

Elected to Graduate Member

P Albrecht, T L Allan, L H Alnashi, D M Arnold, L T Aves, A S Bai, J A Barrott, O Ben-Ezra, J Bhamidipati, G S Bhatthal, L I Billings, A J Blackford, A S Blackler, J J Booth, R Brand, J D Brewerton, C Brodrick, E Brown, G M Bull, N J Cammock, R L Campbell, M W Carey, H F Cartwright, R Castillo, G J Cate, V Chinni, K D Cho, P A Churton, J W Clarke, F K Cochrane,

A W Corbett, D M Crowley, MAR Cruden, R A Cruz, B R Cullen, S R Cutfield, K Daji, D H Dang, W R Dawson, U N Daya, J K Delamore, M S Dhaliwal, D A Donovan, Z Dost, D C Ducharme, E E Duke, M Du Plessis, H R Eaton, R Edens, M F Ellis, J Espinoza, N J Evans, R B Flavall, D Fitzmaurice, S R Gaskin, C G Gibbons-Hurinui, D Goyani, G J Green, R Haddad, J C Hammond, J W Harrison, K K Heinemann, M J Hickson, E Holtrigter, K E Hopkins, D J Hutchinson, D L Jackways, NKR Jayavarapu, HJC Jenkins, S L Kadziolka, S J Kelly, J A Kirk, A J Kolper, J R Kugener, A Kumar, S Lanser, R S Lauren, Y Lin, S Lopati, P A Lord, R A Lucas, A F Luppens, A A McDonald, P J Macey, L P McLellan, G P McNelly, J R McPherson, K R McVicar, R L Maginness, J Moala, M G Moore, C A Morgan, T L Morgan, A D Morris, A G Murahidy, D Nair, H M Nikolajenko, K G Norquay, L Nurhalim, H N O, P M O'Connor, PJW Orr, H M Palliser, J R Papa, V W Parate,

A R Parsons, M J Parsons, A D Patel, A W Pauli, S Perales, K J Pinkerton, S A Power, R J Provan, M Rahman, R J Regan, F G Robertson, C H Saddam, J K Schulz, T D Shand, B M Shea, D B Singh, G J Skepper, J Slovak, R Srivastava, B Stetic, S J Stratton, M L Stuckenberger, D Sutjiadi, C D Tate, HWJ Tatham, H K Taylor, S M Thomassen, I Tuleasca, J A Varcoe, H J Vink, V Vukovic, S J Wall, E Walter, S L Watkins, M C Whitaker, S A Whitehead, W J Wiczorek, P Wijetunge, MJJ Williams, VHC Wong, Y M Wong, J Yee, ALS Yeu, A E Yousef, L Zhang, X Zhu

Elected to Technical Member

E E Schmidt

Elected to Associate Member

B N Roff, K D Moyes

Election to Affiliate Member

A Bhatia, S Cartwright, MKL Chung, J D'Cruz, R Domagas, J A Duane, D W Harris, G Hoascar, B Hyland, G Inglis, K Manoj, P J Mills, N Oledan, M R Pasion, L Simpson

Coming Events

Communication Skills for Difficult Situations

This one-day course is designed to help participants handle the difficult situation conversations that occur frequently as part of a normal, interactive working day.

When: 27 July 2004

Where: Christchurch

Cost: \$433

Contact: psc@canterbury.ac.nz

Alarm Systems Management for Engineers and Technicians

This workshop will give you the necessary information to ensure that your alarm system is well designed and provides

your operators with the best picture of the operations of the plant. The workshop focuses on simple and practical information for personnel ranging from operators all the way up to supervisors, engineers and managers.

When: 28 July 2004

Where: Auckland

Cost: \$1,150 plus GST

Contact: register@idc-online.com

Young Engineers' Wine and Cheese Evening

Young Engineers are invited to a wine and cheese evening, to be followed by an informal panel discussion on CPEng. We will have several people on the panel who have recently

gone through the process and who will be able to provide advice and tips.

When: 29 July 2004

Where: Hamilton

Contact: njackson@hortresearch.co.nz

Natural Hazards Management Conference 2004

Registrations of Interest are being called for this two-day conference.

The theme for the conference is "to provide a forum to discuss the integration of hazard information into effective risk management".

When: 18 August 2004

Where: Tauranga

Contact: d.tilyard@gns.cri.nz



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