

President's Message



Sometimes you have to slow down to get ahead.....

How do you get ahead on the motorway? The rules on overtaking a slower vehicle are clear; first you should slow down, check the rear vision mirror, check the way ahead then initiate your passing manoeuvre.

At our annual planning session over May 29–30 the Board did just that.

While we spent time on the Vision and Mission of the Institution, the Board also placed a high priority on resolving some longer-standing issues – issues that needed to be addressed with a Vision and Mission firmly in mind.

One of the issues addressed was the composition of our Membership. Our retrospective “check of the rear vision mirror” involved a review of the *Pathways* document issued to Members in 1993. The purpose of *Pathways* was to consult Members about broadening our Membership base; seen at the time as the way forward for the Institution and later adopted as policy. A comparison shows our profession has since broadened both horizontally, in terms of the diverse range of work engineers are involved in, and vertically, with the introduction of a variety of degrees and diplomas. There is now a wide range of tertiary providers offering technical qualifications and the New Zealand trend of 2-year, 3-year and 4-year qualifications is here to stay – consistent with international trends over the last five years.

The Board confirmed its commitment to a broad-based Membership; to be the “premier voice” of the engineering profession IPENZ must represent all relevant members of the engineering occupational group. The key to achieving this goal is the prioritisation and provision of brand-related services to each of our Membership groups. For the TIPENZ and AIPENZ groups this must also include industry partnerships.

The Board also confirmed its commitment to retaining IPENZ character and independence by maintaining our prime income (subs and registration fees) about or above 50% of our total income. IPENZ has recently been very successful in winning government contracts that support our vision, in particular Futureintech and the Growth and Innovation Pilot Initiative, but our future should not rely on the continuing support of these projects.

The four-stage competency engineering career path was revisited with a continuing professional development framework set out for these stages. In general the Board supported a strong role for IPENZ in the early stages through to professional competence with a lessening role in higher level skill development towards governance or international recognition of expertise.

The Board is also keen to strengthen the Branch role in the student and undergraduate areas and is preparing a consultation paper for discussion. In doing so we are particularly aware that the profession is busy and likely to be so

for the next five years. This always impacts on volunteerism.

No planning meeting is complete without long discussions on identity, communication and Convention. Fortunately by this stage most of those taking part in the retreat were engineers and had used up their daily allocation of words. The result was short discussions, early consensus and a return to our day jobs with a feeling of having overtaken the vehicle in front with a clear road ahead ... but what is round the bend?

Roly Frost

President

Member found in Breach of Institution Rules

In May this year an IPENZ Disciplinary Committee found Professional Member Kevin Grant Burrows in breach of obligations under the Institution Rules.

Mr Burrows MIPENZ was subject to a complaint regarding a Producer Statement Construction Review (PS4). The complaint alleged he issued a PS4 relating to compaction and foundation bridging for a dwelling without adequate verification of the works.

The relevant matters

Mr Burrows was responsible for the design of various elements for a proposed earth-walled building which included bridging piles to protect council sewers. A building consent was issued for an earth brick design (Design A). Under the consent Mr Burrows was required to observe the construction of the bridging piles and earth building works during construction and issue a relevant PS4 upon successful completion.

However Design A was later abandoned and plans for a more conventional, non-earth brick design (Design B) were submitted to Council, including a certificate from Mr Burrows regarding aspects of the structure.

In January 2002 Council issued a variation to the original building consent to provide for Design B. The variation still required Mr Burrows to inspect earth building work and bridging piles – even though the former was no longer relevant due to the design change.

As part of its final building inspection (Design B) in December 2002, Council stated that a compaction certificate for fill beneath the floor slabs was missing which was required prior to issuing a Code Compliance Certificate. (This requirement arose because Council Officers discovered the fill beneath the concrete slab was over 600mm deep, therefore requiring certification from a Registered Engineer).

At the request of the building owners Mr Burrows issued a PS4 in February 2003. The PS4 stated the purpose being “To provide: site observation confirming bridging piles and foundation excavations” and “compaction”. The PS4 further stated that the design was in accordance with Design A and that “periodic reviews of the work” had been carried out. Mr Burrows later admitted he “had no

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memory" of a compaction inspection nor of a foundation inspection and had relied on the word of the building owner. His records were sparse.

Based on Mr Burrows' PS4, a Code Compliance certificate was subsequently issued by Council in March 2003.

A month later Council received a letter from the foundation contractor who had built the foundations to Design B, stating that neither Mr Burrows or his staff had been to site during the foundation construction, and that there were no bridging piles in the foundation. The Council decided Mr Burrows' PS4 could not be relied upon.

Disciplinary Committee findings

The Disciplinary Committee found Mr Burrows to be in breach of the Rules of the Institution, namely Rule 4 which sets out that Professional Members must comply with the IPENZ Code of Ethics (Rule 4.1), and carry out their engineering activities in a competent and careful manner (Rule 4.3).

The Committee was particularly concerned that the PS4 issued by Mr Burrows was for a building of Design A which has never been built. While the Committee

acknowledged the confusion over the revised building design, that is Council issuing a Consent variation for Design B while still requiring an inspection of earth building works according to Design A, they maintained that a Professional Member of the Institution must be able to successfully deal with such issues in the course of their engineering activities.

They also stated concern about the inadequacy of Mr Burrows' records and his lack of thoroughness in accessing and cross-checking inspection dates, design requirements and the Consent variations. Although trying to be helpful, he failed to exercise sufficient care.

Overall, the Committee was of the view that Mr Burrows showed poor judgement, relied too much on memory (at times at odds with his own inadequate records), and on the assurance of non-professionals who had vested interests. He thus failed to retain objectivity.

The Disciplinary Committee ordered that Mr Burrows should be reprimanded by the Institution, fined a total of \$800, and contribute \$1500 to costs incurred in hearing the complaint.

Concern over Fire Engineering Leads to Standards Review

Concern over the standard of fire engineering in New Zealand has led to the formation of a task force to review practice standards for fire engineering design.

The recent introduction of International Fire Engineering Guidelines is an additional impetus for review given that it may help highlight areas of New Zealand practice that require attention.

The task force will be comprised of representatives from the Department of Building and Housing, New Zealand Fire Service, Society of Fire Protection Engineers New Zealand, and IPENZ Members as representatives of practitioners from different sectors.

The scope of the review will be limited to aspects of fire engineering design including specification of the fire safety solution, construction monitoring, and commissioning. However at a recent Department of Building and Housing workshop it was highlighted that there are some serious issues that need to be addressed in regards to integration with other building services.

It is envisaged that the task force will identify emerging design processes and methodologies, and propose mechanisms for their adoption for best practice through training and education. Subsequent task force groups formed to cover other building activities will be able to build upon the knowledge gained from the review.

The review process will involve a preliminary review of the issues and an invitation for submissions from other interested stakeholders. After consideration of the submissions a report will be produced outlining recommendations and guidelines. It is envisaged that the adoption of these guidelines by practitioners will lead to a consistent quality of documentation of engineering judgement in the design process – giving confidence in the design solutions presented.

Members of the task force will be announced shortly and submissions will be invited in due course. It is envisaged that the preliminary review will be completed by October 2005 and a draft of the report produced in February 2006.

Distinguished Fellow Chair of New Building Practitioners Board



Alan Bickers, Distinguished Fellow, has recently been appointed as Chairperson of the first Building Practitioners Board.

Set up to assist the development of a licensing system for building practitioners, the Board will play a key role in the refinement of the proposed licence classes and approve licence standards and assessment processes.

The licensing system will provide a national framework for building practitioners and aims to lift the quality of building work undertaken throughout New Zealand.

The final eight Board members were appointed by the Governor-General on the recommendation of the Minister for Building Issues. The other Board members are Deputy Chairperson Paul Blackler, Patrick Lawrence, IPENZ Member Jane

Cuming, Graham Moor, Colin Orchiston, David Clark and David O'Connell.

By legislation, the Board is required to have a mix of skills including industry expertise in design construction and inspection services, legal, dispute resolution and mediation skills, and an understanding of education and training issues.

Virginia Burton, the Department of Building and Housing's Manager of Occupational Licensing, says the Board's combined knowledge of the sector and experience working within it will be invaluable as the licensing system develops.

Once the system is in place the Board will hear appeals against licensing decisions and licensed building practitioners. Consumers will also be able to make complaints to the Building Practitioners Board about licensed building practitioners if they believe building work is substandard.

The Board meets for the first time in August 2005.

IPENZ Members Honoured in Queen's Birthday List

Three highly respected Members of IPENZ were recognised in the 2005 Queen's Birthday Honours list announced in June.



Distinguished Fellow Dr Alexander Sutherland was made an Officer of the New Zealand Order of Merit (ONZM) for services to tertiary education and engineering. Dr Sutherland was appointed Dean of Engineering at the University of Canterbury in 1987, and served continuously in that position until his retirement in 2005.

He has served on or chaired numerous committees concerned with tertiary education in New Zealand.

At Canterbury University he has been a member of the Professorial Board, the Equal Opportunities Working Group and the University Council. At national level he has chaired audits of Otago and Auckland Universities, served on the NZQA National Academic Qualifications Standing Committee and others.

Dr Sutherland has also served as a Commissioner to the Environment Court presiding over approximately 20 resource consent hearings.



Fellow Robert Armstrong JP was made a Member of the New Zealand Order of Merit (MNZM) for services to the community. Mr Armstrong has shown considerable commitment to the cultural, community and sporting life of Hamilton.

He has been a member and office holder of the Hamilton Civic Choir since 1974, a trustee of the Braemar Hospital Charitable Trust for 20 years and

Treasurer of the Modern American Garden Trust since its inception. Mr Armstrong has also been a key figure in the motor industry for almost 50 years during which he was a member of the Northern Motor Vehicle Disputes Tribunal. He has held several positions in the Justices of the Peace Association at local and national level and has been a very active Justice of the Peace since 1986 representing his region on the Executive of the Royal Federation of Justices.



Distinguished Fellow Clifford Barnett was made a Member of the New Zealand Order of Merit (MNZM) for services to fire safety engineering. Mr Barnett has played a leading role in the worldwide development of fire safety engineering over the past 35 years. In his research, he has applied engineering principles to international fire safety studies to create fire engineering design guidelines.

These guidelines, which have been tested and applied extensively, mitigate the loss of life and property damage caused by fires in buildings. He is variously described as the "recognised authority" and "grandfather" of fire engineering in New Zealand. Mr Barnett was a key contributor to fire safety aspects of the National Building Code, has been the fire safety engineering advisor to BRANZ, and is an active member of the Society of Fire Protection Engineers.

The staff and Board of IPENZ congratulate these engineers on their outstanding achievement.

Keeping a Professional Engineering Journal

In May this year an IPENZ Disciplinary Committee found a Professional Member in breach of obligations under the Institution Rules. A contributing factor appears to be inadequate record keeping (see page 1 "Member found in breach of Institution Rules"). All engineers get busy but the case in point highlights the need for keeping thorough and precise records.

Record keeping can also help save time and solve problems. In all of our careers there are problems that must be dealt with on a daily basis. Most of these problems are handled with little fanfare even if dealing with them took considerable effort. And with the onset of the next day's problems, the ones that we've already solved are quickly forgotten. Rather than wrestle with it one more time, wouldn't life be easier if you could refer back to how you solved the problem last time? By keeping a Professional Engineering Journal you create your own "knowledge base" of problems and solutions.

The focus of a Professional Engineering Journal is tracking what you are working on. A Professional Engineering Journal can:

- include your "thought processes" as you handle each day's tasks
- record your ideas, decisions and all communications as they occur during the course of your working day
- assist you to learn from your own mistakes and successes
- make it easy to "remember" what you have accomplished – a valuable tool when applying for a new job or asking for a promotion
- overcome the limitations of your memory and often, the memories of those you work with
- assist you when providing evidence at an inquiry or Environment Court hearing

Course

Interested? IPENZ is running a one-day course on keeping a Professional

Engineering Journal. The course examines the real benefits of New Zealand engineers keeping a journal and provides a simple journal method that all engineers can implement easily.

Course outcomes are linked to IPENZ Competence Standards for Professional Engineers, Technologists and Technicians: Elements 10 and 11.

Facilitator: Dr Ron McDowall PhD, MPhil, BBS/BSc, CPEng, IntPE, FIPENZ, FNZIM, MRSNZ.

Ron is a Fellow of IPENZ and a Chartered Professional Engineer. His professional activities involve research and teaching in sustainability engineering, environmental engineering, environmental law, and hazardous and toxic waste engineering at Auckland University. Ron also has more than 30 years' international industrial consulting experience in a wide range of industry sectors.

Ron is also the director of the International Centre for Sustainability Engineering and Research (ICSER) and is an adjunct scientist with the Auckland University of Technology. An expert in his field, Ron is often called upon as an expert witness and has been keeping a Professional Engineering Journal for more than 35 years. Ron will share examples and the numerous benefits he's experienced from keeping a journal.

The Professional Engineering Journal course will be held in Wellington on 29 July from 8.30am to 5.00pm. Places are limited to 20 so please register early to avoid disappointment.

Cost: \$495.00 incl GST IPENZ Members
 \$540.00 incl GST Non-Members

Download a registration form from www.ipenz.org.nz/ipenz/nzecal/ks.cfm or contact CPD@ipenz.org.nz or phone 04 474 8982.

IPENZ Attends International Engineering Meetings

In June a delegation of IPENZ staff and volunteers attended the International Engineering Meetings held in Hong Kong. IPENZ is required to attend these forums in order to meet our obligations under the international education and mobility agreements to which we are a signatory.

The meetings showed an unprecedented level of interest in the agreements with over 140 delegates from 25 countries attending. IPENZ representatives found the meetings very productive with IPENZ establishing and strengthening relationships with other signatories.

Education Agreements: Washington Accord

Washington Accord membership is showing significant potential growth over the next few years. At the Hong Kong meetings Japan was admitted as a full signatory bringing the total number of full signatories to nine. Taiwan (Chinese Taipei) and Korea were admitted as provisional signatories, and reports from existing provisional signatories, Malaysia and Germany, indicated good progress towards full signatory status. Observers from India, Russia and mainland China all provided progress reports indicating an intention to apply for provisional status in 2007.

If Germany, China and India achieve full signatory status then over 50% of the world's population and economic activity will be covered by the Washington Accord. However a parallel development in Europe (the Eur-ACE project) is well-resourced and making rapid progress. It remains to be seen whether the outcomes of this project, that is qualifications in Europe, continue to be reconcilable with the Washington Accord – perhaps presenting an issue for the Accord in the future.

Each signatory to the Washington Accord must undertake six-yearly monitoring/review to maintain full signatory status. IPENZ completed an "interim" review in 2004. The outcome was presented at the meetings and was positive – continued signatory status until 2007 when we will participate in a "full" review.

Mobility Agreements: Engineers Mobility Forum (EMF), APEC Engineer and Engineering Technologists Mobility Agreement (ETMF)

Interest in membership of the mobility agreements is also strong. Sri Lanka

and Singapore were admitted as provisional members of the EMF, bringing the total number of provisional members to four. Full membership remains steady at eleven (UK, Ireland, South Africa, USA, Canada, Japan, Hong Kong, Korea, Malaysia, Australia and New Zealand). There are a further four APEC economies yet to apply for EMF membership so full membership may be as high as 19 by the 2007 meetings.

Singapore and Chinese Taipei were admitted as members of the APEC Engineer Agreement bringing the total membership to 13.

There was general agreement on the desirability of merging the EMF and APEC Engineer agreements with a taskforce established to investigate the issues associated with a merger.

Another development from the mobility meetings was agreement on statements of benefit for engineering registrants from all economies. These will be posted on the IE agreements website that is hosted by IPENZ (www.ieagreements.com). The statements will aid transparency and enable registrants to see what credit they are likely to receive when entering different jurisdictions. The answer in the USA and Canada is very little without bi-lateral agreements, but there are direct benefits in Ireland, UK, Australia and South Africa.

It was also agreed that updated statements of benefit from each jurisdiction are to be included in individual country reports for future meetings. These will aid in holding signatories to account for not "streamlining" admission procedures in their own economies, and therefore not observing the spirit of the mobility agreements.

IPENZ volunteered to be the first economy to be formally reviewed under the EMF. We have just completed a practice review under the APEC agreement and thus are well prepared for a review, which will take place in the 2005/06 financial year.

The next round of formal meetings will be held in Washington in 2007 while an interim workshop to progress a range of matters will be held in Dublin in June next year.

Hume Fellowship Facilitates Geotechnics Study Abroad



Graduate Member Merrick Taylor has been awarded the 2005 Hume Fellowship to study geotechnical engineering at the prestigious Imperial College in the UK.

The Hume Fellowship, established in 1988 by Henrietta Hume and her late husband Harry Lancelot Hume FIPENZ, aims to provide "international opportunities for education and travel to young men and women of character and ability" to forward international understanding. The Fellowship is worth \$30,000.

Merrick will study towards an MSc in Soil Mechanics and Engineering Seismology.

He aims to develop an in-depth knowledge of geotechnics, and the MSc course at Imperial College is recognised as a sound base to provide the toolbox of skills necessary to practice as a specialist in this complex field. "In the past this master's course was regularly attended by New Zealanders, and many of the graduates now hold senior positions in the industry here. However, there has been a reduction of engineers sponsored to study there, so this Hume Award is a wonderful opportunity," says Merrick.

The engineering seismology emphasis is of personal interest, and is of particular relevance to New Zealand's precarious position – located on the boundary of two colliding tectonic plates. "The big question for me," says Merrick, "is in the structure-soil interaction in any problem, these tend to be the most fascinating, and the most difficult."

Evaluating seismic risk and providing design solutions to mitigate that risk is a New Zealand speciality in civil engineering. It is a skill set that is of great long-term benefit for not only New Zealand, but also the developing world where New Zealand companies are continuing to win work. Merrick aims to develop an in-depth knowledge of this complex field to the benefit of all New Zealanders. "Geotechnical engineering is a relatively small profession in New Zealand, but it is crucial we have specialists here in this field."

Merrick begins his 12-month course in October this year.

Futureintech Update



Ambassador Wendy Robinson at Buckland's Beach Intermediate.

Futureintech Ambassadors in action

Successful training days have been held around the country for new Futureintech Ambassadors – young engineers, technologists and scientists with a passion for what they do who work with students in the classroom to help inspire technology learning.

A whole range of school projects is lined up for the Ambassadors, particularly in the Auckland region. For example students at Buckland's Beach Intermediate have been studying "innovation and inventors" with the help of Ambassador Wendy Robinson. A Food Technologist at Tip Top Ice Cream Company Limited, Wendy helps the company come up with new ice-cream products. As an Ambassador she's been teaching students about product development using examples from her work.

Technology Education Grows Innovators and Entrepreneurs

It's widely accepted that New Zealand needs more wealth creators if we want to have a higher standard of living. What isn't always recognised is the crucial role of technology education in achieving this: technology education is needed to grow and nourish these entrepreneurs and innovators.

This is why Futureintech in collaboration with GIF – Technology Education has released a briefing paper entitled *Technology Education... the key to New Zealand's future*. The paper takes a look at the challenges and opportunities facing technology education – a subject often under-appreciated by schools and industry.

Copies of this publication will be sent out to the Secretary of the Board of Trustees in all schools and HoDs Technology in Secondary Schools. Contact Futureintech for a hardcopy.

VIP Scheme pays off for Canterbury University

A research project carried out with Futureintech VIP Scheme funding has highlighted the need for a new computer engineering qualification at Canterbury University.

Principal DSP and Embedded Systems Engineer Dr Ian McLoughlin of Tait Electronics Limited took three weeks out of his busy schedule to consult with employers, industry groups and potential students to assess the demand for a computer engineering course.

Associate Professor in the Department of Computer Science and Software Engineering Dr Tim Bell says the VIP scheme has made a real difference: "It was fantastic, Ian did a great job. The report was more thorough and useful than we could have done ourselves. The proposal to introduce this new course hasn't been confirmed yet, but I'm confident we now have a compelling case."

Educational CD-Rom uses famous Kiwis to teach physics

Futureintech has also been a key player in the launch of a funky new educational CD-Rom for physics teachers and their students.

Kiwi Physics is an interactive CD-Rom with games, puzzles, quizzes and piles of information for the classroom. The CD-Rom features famous New Zealanders such as rugby legend Jonah Lomu and TV celebrities Matthew Ridge and Marc Ellis to help explain scientific principles in a fun way with exciting graphics and humour. Teachers will be able to request copies of the CD-Rom from Futureintech website or by telephoning Doug Buchanan on 04 473 2023.

For more information visit www.futureintech.org.nz email enquiries@futureintech.org.nz or phone 04 473 2023.

Member Services

Engineering Practice Support

IPENZ encourages Members to follow recognised professional practices in their day-to-day engineering activities. To assist Members in doing so IPENZ, 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 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

IPENZ Branches

On joining IPENZ, Members automatically become affiliated to their local IPENZ Branch. Branch meetings are 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 or phone our Branch Facilitator Kathryn McGavin on 04 474 8989.

JobHunt

The IPENZ JobHunt service (sponsored by Career Engineer) is the premier job search and recruitment site for engineers and technologists. It enables jobseekers to efficiently search for employment online by personalising their search criteria. Employers may also advertise a position using selective criteria. Visit the JobHunt website www.jobhunt.co.nz for more information and to browse the listings.

www.ipenz.org.nz

For a full list of Membership services and benefits, as well as a comprehensive range of engineering related information visit the IPENZ website at www.ipenz.org.nz



Charles Willmot MIPENZ, CPEng, IntPE joins IPENZ as our new Director – Engineering.

As Director – Engineering Charles will be responsible for IPENZ practice, policy and promotional activities; promoting the engineering profession to the public and decision-makers through a wide range of initiatives.

Prior to joining IPENZ Charles was Senior Advisor for the Ministry for the Environment where he was responsible for implementation of the New Zealand Waste Strategy and development of the wastewater programme.

Born in the UK Charles completed a Bachelor of Science (Hons) in 1975 at Nottingham University and worked as an engineer in the UK until, after a few years in Hong Kong, he migrated to New Zealand in 1986.

His first role in New Zealand was as public health engineer for the Ministry of Works where he was instrumental in setting up the Waste Management Institute (WasteMINZ). He has since worked as a consultant engineer, Associate Director of Truebridge Callender Beach Limited, and as Manager of Water and Waste at Wellington City Council.

Charles was awarded the Topolski Prize in 1990 for his contribution to an environmentally sound waste management project, and again in 1991 for the most outstanding contribution to environmental protection in New Zealand.

Charles is married to Isobel and has three daughters. In his spare time Charles is taming the six-and-a-half acre lifestyle block he owns in Belmont.



IPENZ extends a warm welcome to **Judith Evans** who joins us as Dr Andrew Cleland's Executive Assistant.

Prior to joining IPENZ, Judith was employed by the New Zealand School Trustees Association where she had worked since moving to Wellington from New Plymouth in 2003.

Judith is proving a very handy addition to National Office, so it's no surprise that Judith's handiness extends to all things crafty including knitting, sewing, embroidery and cross stitch. However it's her prowess as a snooker player that has won her accolade – in 2003 she won the New Plymouth Club Women's Championships and a position in the New Zealand championship.

As Treasurer/Secretary for the Taranaki Billiards & Snooker Association Judith says the highlight for her was the World Amateur Snooker Championships held in New Plymouth in 1996. Judith is also a national snooker referee trained by the New Zealand coach.

Judith says that currently however, snooker is taking a bit of a back seat – her first grandchild arrived early last year.

Judith lives in Tawa with her granddaughter and daughter Melanie. Her son Regan also lives in Wellington.

Membership Changes

The following is the full list of additions to and changes in the classes of Membership for the period 1 March – 31 May 2005.

Elected to Professional Member:

RJ Allison, S Altimimi, KR Anderson, M Bayfield, CCK Beh, CC Blind, AM Blyde, AF Burkett, S Bush, GM Carey-Smith, RA Carter, CY Chin, AY-S Chung, JD Condron, BD Coulter, NJ Dawe, M Dharani, NR Evers, GJ Dolman, JA Ewert, CF Gunther, AC Hagstrom, RJ Harris, D Horn, GR Houston, P Kofoed, SM Kreegher, MJ Lee, PM Lock, K McFarlane, VM Meyer, PW Minchin, SJ Moore, RJ Neate, DV O'Brien, G Sharma, DS Shirley, ID Sloane, ITG Smith, EP Souchon, KH Tan, MD Tarboton, ED Whitfield, RM Whitfield

Elected to Graduate Member:

YAS Alaraj, AS-J Amos, APS Anand, CG Anderson, SM Anslow, NA Baker, SD Baker, JA Ballard, SN Banks, CA Barlev, RW Batty, JOP Bergh, JC Bird, RJ Bissett, MB Blyth, JD Bolland, V Botuyan, THR Bridge, AC Bridgman, MW Burkhardt, P Burnaby, GR Butterfield, YM Chan, J Chand, KL Channon, KMK Cheung, HHL Chong, SHY Chong, JKK Chow, SJ Clancey, KWC Clapcott, HE Clarke, RCG Cleeton, BT Conning, GW Crichton, M Cunningham, AR Dallas, KB Dawe, MI Dowie, RB Duarte, KE Ecroyd, FLH Empson, LN Erickson, BJ Farr, PJ Fletcher, AJA Foulkes, MRA Gordon, AP Grant, N Haszard, SJ Hay, DR Henderson, BD Henson, RJ Heritage, SR Huntington, RAJ Ingram, LJ Irwin,

AW Jack, ML Jacobson, EH Jho, WJ Juno, A Karndacharuk, GHN Kammona, SM Kendrick, MJ Kent, MH Khan, BS Kim, C-Y Kuo, EJ Laing, AP Lambert, RBY Lau, JS Laws, SHF Leckie, HY Lee, DG Lees, GH Leonard, D Li, Y Li, RA Lindsay, B Liu, Q Liu, IM Lonie, AC MacDonald, RJ MacDonald, ACV McNabb, SP Maher, DS Mallett, A Mamo, SW Mayston, RD McKenzie, E Mead, MG Mead, JM Miller, HJ Milliken, I Mohammed, DJ Mulholland, MR Myers, LC Nemedi, L Nikkel, ED Nordh, TF O'Boyle, KK Patel, LS Paterson-Taylor, SA Paul, VK Pawar, JR Penberthy, SG Penwarden, LE Petrenko, JV Pooch, MKJ Presswell, SJ Quinn, J Radford, PM Rodger, JA Roper, RH Scoltock, AK Sharma, H Shen, H Shi, YT Siaw, GM Smeal, HJ Stevenson, GN Stevenson, KM Sutherland, DJ Tate, LJ Taylor, K Thexton, ECH Tiang, G Tomlin, MT Trowland, R van Ballegooy, AM van den Hout, KA Van Niekert, GE Vlieg, CA Voss, PK Vuli, LA Waring, JF Weller, DR Wilson, PW Wilson, SM Wilson, VHI Wong, KJ Wylie, J Ying, NWA Young, H Zhu, M Zhu

Elected to Technical Member:

NG Duvenage, PD Hookham

Elected to Associate Member:

AC Drover, AVDW Jooste

Elected to Affiliate Member:

SN Berryman, NJ Wilson

Moved or Changed Job?

Have you changed your address lately and not let us know? Keep us up-to-date so we can keep you up-to-date with news from National Office and you local Branch. To update your contact information please email Bub Konia at bub@ipenz.org.nz or phone 04 473 9444.

IPENZ President joins Transit

Roly Frost, IPENZ President, has been appointed General Manager Operations at Transit New Zealand.

Graduating with a civil engineering degree from Canterbury University in 1972, Roly's first employment was with the Ministry of Works in Waikato. The range and scale of projects undertaken by the Ministry through the 70s and 80s enabled Roly to gain a variety of experience in the civil, structural and geotechnical fields.

In 1997 Roly moved on to Beca, opening their Hamilton office before relocating to Auckland where he held a senior position as Beca's general manager civil engineering. Roly continued to lead major infrastructure projects for Beca until earlier this year when he joined Transit.

In his new role Roly has responsibility for the operations of the total state highway network including engineering standards, managing network demands, and maintenance. Roly says the opportunity to be involved in transportation at a senior level in this time in our history was part of the attraction. "There is now strong recognition that an integrated transport infrastructure is an important element in achieving New Zealand's economic objectives. I look forward to being part of the team working towards that goal over the next five years."

New leadership for GHD in New Zealand/Pacific



IPENZ Member Barry Potter has been appointed Operating Centre Manager New Zealand/Pacific at GHD – a leading international professional services company. Barry joined GHD through the acquisition of City Design, Auckland City Council's design business, where he was CEO. Prior to joining Auckland City Council he worked for Carson Project Management, Meritec and Maunsells.

Barry brings strong leadership, communication and business development skills to the role from 25 years' experience leading teams in engineering, architecture, buildings and project management. Barry says in the short time he's been at GHD "he's been impressed by the culture, the quality of people, and the

potential opportunities for GHD in the New Zealand market".

GHD employs over 3,500 people in more than 60 offices throughout Australia, New Zealand, Asia, the Middle East and the Americas.

Barry takes over from Russell Board, who has been appointed General Manager – South East Asia/Pacific.

New IPENZ Foundation Chairman



John Cunningham FIPENZ, CPEng has recently been appointed Chair of the IPENZ Foundation.

John is Executive Director of Ignition Partner Ltd; a company he and a partner established in 2002 to advise companies on strategies for high growth including technology, intellectual property, structure and capital. He started his career as a chemical engineer and progressed into commercial operations and then into business and venture capital. John spent several years in company development, operations management and senior executive roles in listed corporates.

He is a Senior Fellow at Waikato University and was President of IPENZ in 2001.

John says he's looking forward to building on the hard work of the inaugural Trustees and leading the Foundation into its next phase of development.

Have You Read Proposals to Change CPEng fees?

IPENZ is currently undertaking consultation on the proposals to change CPEng fees – for both assessment for initial registration and annual operational fees. If you have not yet familiarised yourself with the proposed changes, please check the June issue of *engineering dimension* or check the IPENZ website at www.ipenz.org.nz/ipenz/finding/cpeng/CPEngConsultationDocument.pdf and www.ipenz.org.nz/ipenz/finding/cpeng/ProposedCPEngRuleChanges.pdf

The deadline for submissions is 1 August 2005 – refer to the above documents for details on how to make a submission.

Member Services

New Zealand Engineering Calendar

What's on? Visit www.ipenz.org.nz/ipenz/nzecal/default.cfm to find out. Members can access and/or place information about engineering events including courses, lectures, meetings, exhibitions, visits and other notices.

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

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 Technical Interest Groups

Members can join Technical Interest Groups which provide a programme of activities and services associated with a particular engineering specialty or discipline. The Group informs Members of national and international developments and issues, contributes to knowledge development, supports the identification of good engineering practice, prepares informed comment on public policy issues and creates a national network amongst Members with similar technical interests by regular communication. For more information on IPENZ Technical Interest Groups visit www.ipenz.org.nz/ipenz/who_we_are/organisation/technical_groups.cfm or phone Bub Konia on 04 474 8937.

How to Join

IPENZ has a range of Membership classes and is open to those with training and competence in engineering and those with an interest, but not necessarily with training or qualifications, in engineering.

IPENZ also administers a number of competence registers for professional engineers including the CPEng Register and the International Professional Engineers Register (which services the APEC Engineer and Engineers Mobility Forum Agreements). To become registered, applicants must provide evidence that they meet the competence requirements for registration.

For more information on Membership classes, competence registers and joining IPENZ visit www.ipenz.org.nz/ipenz/join or phone Claire Auger on 04 474 8948.

Need Meeting Rooms or Office Space?

IPENZ National Office has a range of meeting rooms available for hire at our 158 The Terrace premises. Equipment and catering can be provided as required.

In addition, we have three spaces available for sub-tenants. They range from 70sqm to 175sqm. All areas have natural light and sub-tenants would have access to kitchen facilities and a shower etc. We are also able to assist with

shared reception and IT if required, although sub-tenants may prefer to be self-contained.

Please contact our receptionist Saltanat Cole for more information on 04 473 9444 or email ipenz@ipenz.org.nz

Enhancing
Engineering
Competence

IPENZ Professional Development Short Courses July – September 2005

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 to ensure a place on these popular courses!

Ethics for the Professional Engineer

This one-day course introduces participants to the ethical values that underpin their profession and to the obligations that flow from them.

Location	Date
Nelson	15 July

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.

Location	Date
Christchurch	3 August
Nelson	7 September

Managing Professional Risk

This half-day seminar covers legal liability and liability risks, liability insurance concepts that should be considered by engineers, loss prevention and the CEAS (Consulting Engineers Advancement Society Inc).

Location	Date
Wellington	12 July

See the IPENZ website for participant fees for this seminar.

Environmental Legislation

This course provides engineers with the tools and information they will need when applying for consents or acting on behalf of clients or employers at consent hearings or in the Environment Court.

Location	Date
Dunedin	14–15 July
Albany/Auckland	11–12 August

Leadership and Management for Technical Professionals

Participants will learn how to effectively handle their dual leader/manager role. Participants will also be taught the importance of the "soft skills" and key techniques for managing relationships.

Location	Date
New Plymouth	27–28 July
Nelson	11–12 August
Dunedin	7–8 September

Professional Engineering Journal

This one-day course will examine the real advantages of engineers in New Zealand keeping a professional engineering journal. The course will provide a simple journal method that all engineers can implement easily.

Location	Date
Wellington	29 July

Negotiation Skills for Engineers

This interactive practical 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.

Location	Date
New Plymouth	2 August
Dunedin	23 August
Christchurch	24 August
Wellington	28 September

Effective Report Writing

On this one-day course participants will learn techniques for writing documents that clearly convey information to both engineering and non-engineering readers.

Location	Date
Auckland	19 August
Wellington	26 August
New Plymouth	2 September

Cost: Two Days \$945.00 incl GST – IPENZ Members
\$1,035.00 incl GST – Non-Members

One Day \$495.00 incl GST – IPENZ Members
\$540.00 incl GST – Non-Members

All courses may be tailored to suit the needs of organisations. Full details on each course are available at www.ipenz.org.nz/ipenz/nzecal/ks.cfm or by emailing CPD@ipenz.org.nz or telephoning Josie Nolan 04 474 8982.



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