

ANNUAL REVIEW 09



Our Vision

A prosperous and sustainable society for all through engineering leadership.

Our Mission

To uphold and promote the profession of engineering.

To provide leadership and engineering advice to society on key issues.

To meet the professional needs of Members.

Overarching

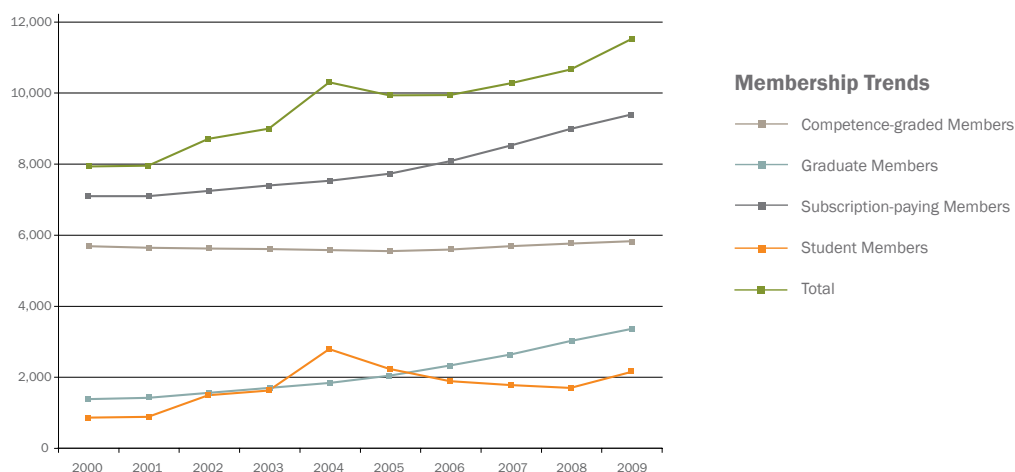
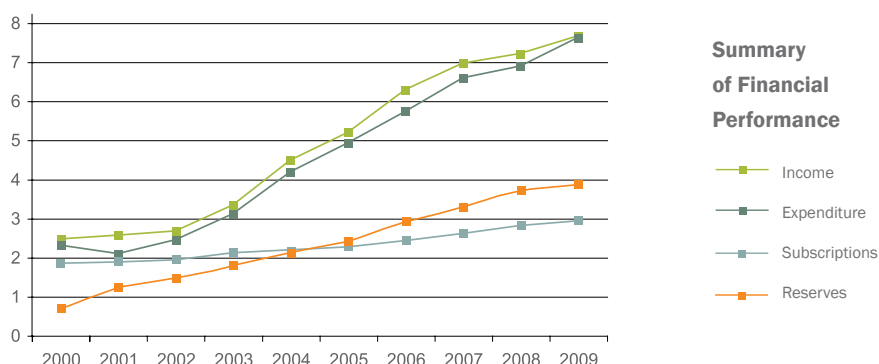
Performance Indicators

- **Recognition of IPENZ as the national voice of the engineering profession.**
- **Annual net growth in each of the key Membership classes of IPENZ.**
- **A Membership age distribution that will ensure the future viability of the Institution.**
- **Member satisfaction indicated in surveys of Member views and reasons for Membership termination.**
- **Increased use of, and demonstrated confidence in, our qualification and competence quality marks.**
- **Sufficient income from a range of sources, to provide reserves and income to fulfil and maintain work programmes without subscriptions rising at a rate above inflation.**
- **Maintenance of staff capacity and capability and an effective organisational structure to achieve the goals of the organisation.**

Actual Performance

- The overall growth in the subscription-paying Membership was 406 or 4.5 per cent, to 9,366 and growth in those holding a competence-graded Membership was 1.1 per cent.
- The number of Student Members grew by over 25 per cent to 2,117, and the total number of registrants on current competence registers grew to 2,546.
- Representatives of IPENZ and the Royal Society of New Zealand met with a group of senior Ministers, including the Prime Minister, to discuss opportunities for science, engineering and technology to contribute to New Zealand's development.
- A number of other meetings were held with Ministers, senior government officials and business leaders.
- Attendance at IPENZ-organised events by such stakeholders was high, indicating a high level of interest in our contribution.
- The number of regulators using IPENZ-managed quality marks continued to grow; Recognised Engineer (under the Building Act) and Design Verifier (for the Department of Labour) were further developed. As the number of registrants on the Engineering Technology Practitioner and Certified Engineering Technician registers grew, a programme to encourage the use of these registers by a number of regulators was initiated.
- The Institution was able to fully meet its costs over the year, and is forecast to maintain a sound financial situation throughout the next financial year.
- Feedback from the Membership about the level of service in work programmes in which additional staff resource has been deployed has been excellent.

Year At A Glance



Membership Class	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Distinguished Fellows	17	21	24	27	31	33	36	41	42	44
Fellows	599	616	624	635	658	667	675	670	674	683
Professional Members	4,538	4,530	4,535	4,533	4,487	4,473	4,503	4,595	4,659	4,696
Technical Members	2	111	120	119	122	117	122	130	141	158
Associate Members	502	336	293	265	250	233	230	228	222	221
Competence-graded Members	5,658	5,614	5,596	5,579	5,548	5,523	5,566	5,664	5,738	5,802
Graduate Members	1,355	1,390	1,534	1,673	1,808	2,015	2,301	2,613	2,995	3,328
Companions	10	10	10	13	17	21	24	25	29	33
Affiliate Members	35	42	61	89	118	131	148	171	181	185
Honorary Fellows	11	13	14	16	15	14	15	17	17	18
Subscription-paying Members	7,069	7,069	7,215	7,370	7,506	7,704	8,054	8,490	8,960	9,366
Student Members	835	861	1,465	1,602	2,767	2,204	1,860	1,756	1,674	2,117
Total	7,904	7,930	8,680	8,972	10,273	9,908	9,914	10,246	10,634	11,483

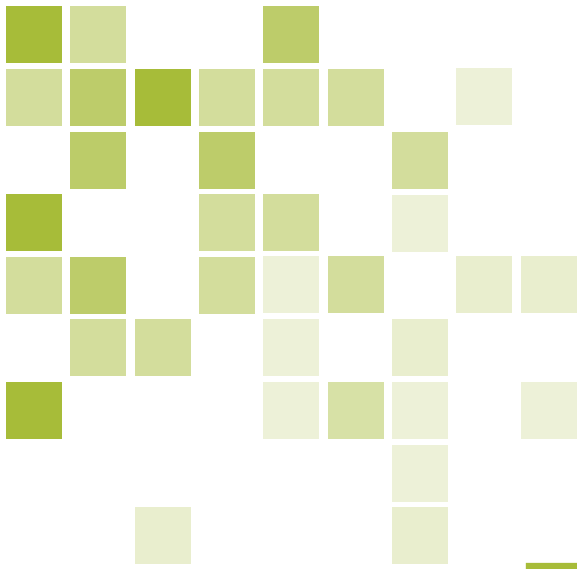
Resource Intensity Statement

IPENZ used the Ministry for the Environment's guiding document (which provides a standard scope, procedure and the emission factors to be used) to estimate the IPENZ National Office greenhouse gas (GHG) emissions.

This task was first undertaken by IPENZ for the period ending 31 December 2007. The table below shows GHG emissions as at December 2008 as compared to the previous year's data.

IPENZ GHG emissions, carbon dioxide equivalent (CO₂e) tonnes Year to 31 December	2007	2008	Per cent change in year
Transport fuels	49.3	45.6	-7.6
Electricity from the grid	18.8	24.6	30.8
Transmission of electricity used	1.6	2.5	55.9
Taxis and rental cars	1.6	2.8	70.5
Domestic air travel	75.6	83.8	10.9
International air travel	32.3	18.7	-42.1
Waste to landfill	7.8	7.8	0.0
Totals	187.0	185.7	-0.7

Paper used, tonnes	2007	2008	Per cent change in year
<i>e.nz magazine and engineering dimension</i>	11.4	10.1	-11.0
Other papers printed	5.2	4.7	-9.2
Photocopy paper	5.6	7.3	29.0
Total	22.2	22.1	-0.4



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President's Message

The year in review has been another successful one for the Institution, building on the success of previous years. The strategic direction set by the Board is largely unchanged from the previous year with the six strategic priorities being:

- achieving a better profile with key audiences to enable our strategic objective of profiling the profession
- achieving appropriate progression to competency registers and IPENZ Membership classes
- establishing and maintaining an effective engineering (human resource) supply chain both in “depth” and “width”
- achieving an acknowledged technical leadership position with other bodies for engineers
- continuing to have a presence in schools, irrespective of the level of future funding
- exploring new, and expanding existing, revenue sources.

In many ways it has been a pivotal year for engineering as a profession. The new government has recognised the importance of engineering in underpinning our society with the appointment of a Minister of Infrastructure (at number two in Cabinet) and the establishment of the Infrastructure Unit and Advisory Board, and the new 2025 Productivity Taskforce.

Discussions both the Chief Executive and I have had with Ministers have confirmed that this government sees engineering as essential in underpinning intangible capital for a successful economy and they look to IPENZ as a valued advisor.

Last year the Board increased the resources committed to policy development and communications, and this year's work in this area has been highlighted in this report.

Profiling of the profession continues to be a concern of many Members, however independent research commissioned by IPENZ shows that much of the problem is engineers' own perceptions of how they are regarded, when in fact the community at large has a very high opinion of the importance of the profession and a clear understanding of the value it contributes to society. This research also shows that the community accurately differentiates between the roles of professional engineers, engineering technicians and tradespeople. My concern is that engineers themselves are not sufficiently proactive in reinforcing these messages in their own communities.

The schools programme, including Futureintech and Techlink, continues to be a success with every measure

indicating strategic success in encouraging the next generation to consider engineering, science and technology as careers, and we are now starting to reap the benefits of this in both the numbers and quality of tertiary students studying engineering.

The challenges going forward include increasing the number of competence-graded Members, and much of this will be about effectively marketing the value of these brands, both to our Membership and to our clients. In difficult economic times they should be the point of difference, and there is already some evidence to support this. We need to build on this.

It has been a privilege to lead the Institution – to get a better understanding of its diverse and

busy work programme, to observe the hard work of the staff and many volunteers who give their time freely, and to meet Members and our Australian and South Pacific colleagues. I continue to be impressed by the work undertaken and the commitment of all involved – the work of the subsidiary boards, Technical and Special Interest Groups, Branch committees numerous volunteers, and the staff, all of whom collectively make for a successful, effective and respected entity.



Anthony Wilson
IPENZ President

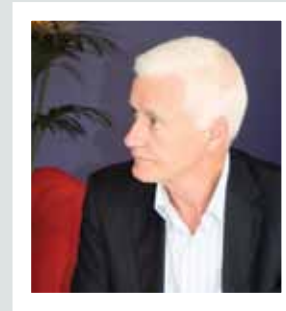
Governing Board



Anthony Wilson
President



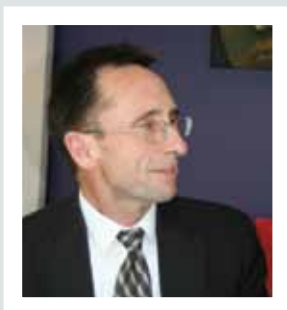
Gary Macdonald
Deputy President



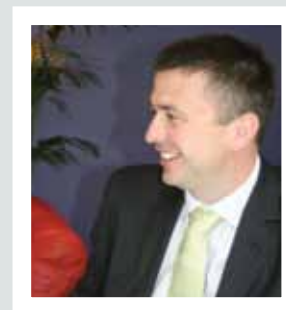
Stephen Reindler
Vice President



Tiina Hall-Turner



John Raine



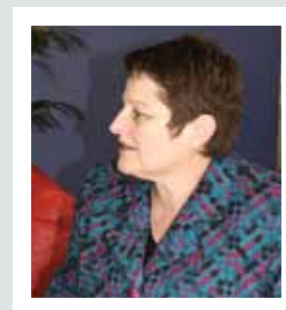
Steve Abley



Richard Muggleston



Bryan Leyland



Elena Trout



Mohamed Imtiaz



Chas Charlton



Bas Walker
Immediate Past President

IPENZ Board

(as at 30 September 2009)

Anthony Wilson

(President)

Garry Macdonald

(Deputy President)

Stephen Reindler

(Vice President)

Bas Walker

(Immediate Past President)

Steve Abley

Chas Charlton

Tiina Hall-Turner

Mohamed Imtiaz

Bryan Leyland

Richard Muggleston

John Raine

Elena Trout

Audit and

Risk Committee

Garry Macdonald

(Chair)

Anthony Wilson

Stephen Reindler

Elena Trout

Richard Muggleston

Performance and

Remuneration

Committee

Anthony Wilson

(Chair)

Garry Macdonald

Stephen Reindler

Steve Abley

Chief Executive and Directors



Andrew Cleland
Chief Executive



Brett Williams
Director - Learning
and Assessment



Angela Christie
Director - Schools



Charles Willmot
Director - Engineering



Susie McCutcheon
Director - Operations



Tim Davin
Director - Policy

Chief Executive's Message

The year in review has again been characterised by strong performance in the Institution's underpinning indicators. Growth in subscription-paying Members (at 4.5 per cent) was strong in spite of the recession, although the net growth in number of competence-graded Members was lower than desirable at 1.1 per cent. Student Membership grew very strongly at over 25 per cent.

In terms of resources, the Institution was able to achieve all its outcomes sought whilst achieving a positive end-of-year outcome. This was in spite of reduction in investment and advertising income. The reserves held by the Institution are sufficient to buffer it against potential uncertainties in future income.

Major successes during the year have included processing a very large number of re-assessments for continued registration by early CPEng registrants, the public policy and submissions programme, a very successful Pickering Lecture series and progress on improving Members' access to collated New Zealand engineering knowledge.

On the international front, New Zealand continued to hold its own. For the first time a New Zealander was elected to lead a multi-lateral international engineering agreement, we fully met our obligations as secretariat for the International Engineering Alliance, and continued to demonstrate our compliance with the requirements of the five agreements to which IPENZ is a signatory. Our programme to assist the South Pacific engineering community made real progress. The fragility of South Pacific communities and the need for our support was sadly illustrated at year's end by the events in Samoa.

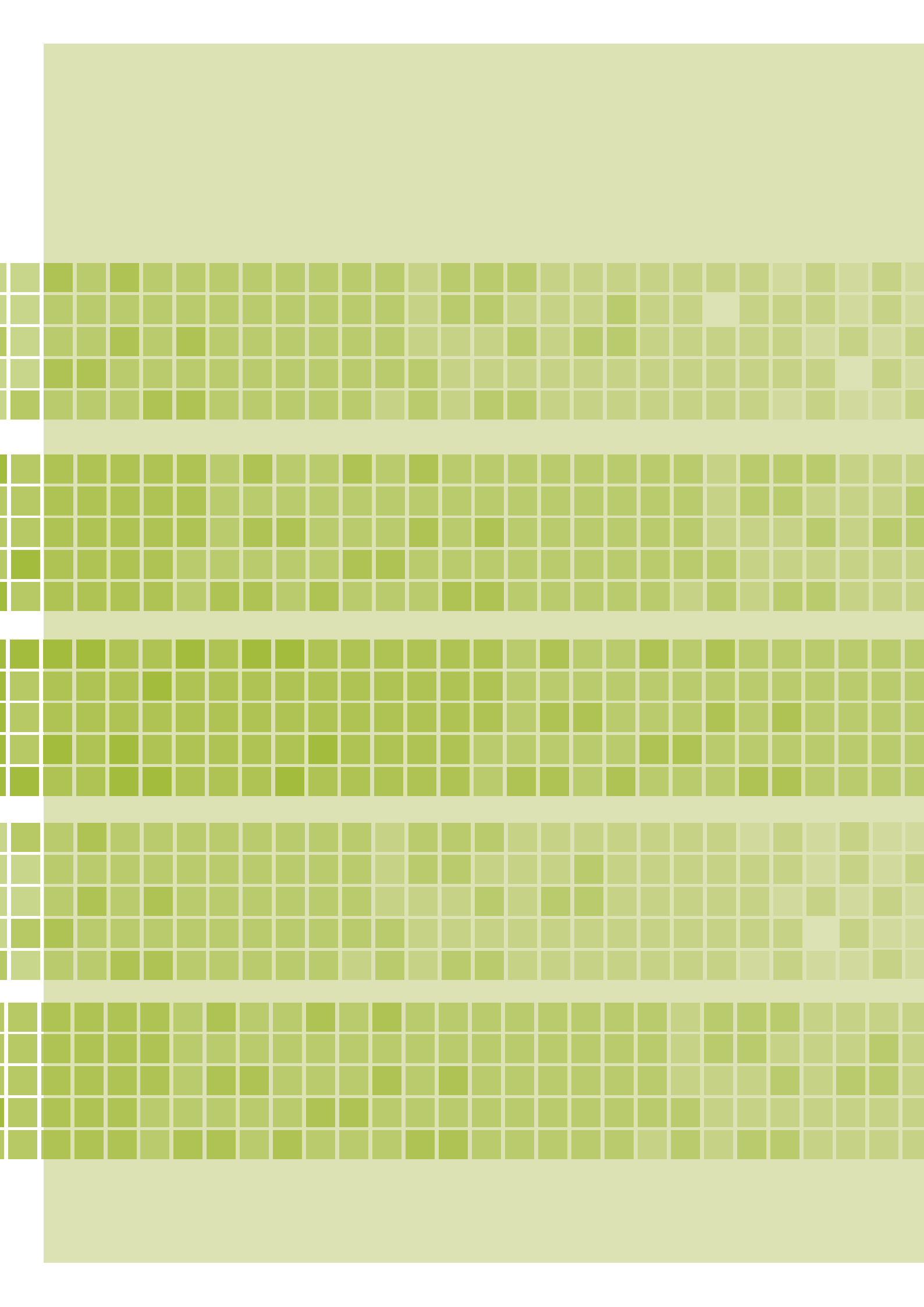
The quality and commitment of National Office staff is a major asset to IPENZ. Our staff share a commitment to building a strong and resilient professional body for the engineering profession. This commitment has enabled us to maintain high levels of service to Members, and in particular

to maximise the value achieved from participation of volunteers in Branches, Technical Interest Groups and in various panels and committees.

In closing, whilst I have been proud to lead the staff through another successful year, it is important that all of us who are Members remind ourselves that IPENZ is the Members, not just the staff. It is our personal commitment to a strong self-regulating profession, and the way in which we contribute to our professional body, that is the key success factor that allows us to be increasingly trusted by regulators and the public we serve.



Andrew Cleland
Chief Executive





Achievements



National Office

Institutional Leadership

To develop and implement a relevant strategic plan, Institution Rules and classes of Membership and procure necessary resources.

KEY CONTRIBUTORS

Andrew Cleland Chief Executive • **Fiona Shand** Boards' Secretary • **Debbie Scully** Personal Assistant to Chief Executive

Institutional Leadership–Aims

IPENZ anticipates needs, consults with the Membership and subsidiary organisations, develops strategy, undertakes business development, and implements modern governance arrangements to ensure the ongoing viability of the Institution and its subsidiaries.

Achievements

- A Special General Meeting, at which minor Rule amendments were made and the Annual General Meeting were held in compliance with the Rules, and the necessary filing of annual accounts and Rule changes with the Registrar of Incorporated Societies was undertaken.
- The Board election was held in full compliance with the Rules.
- The 2009 Branch and Technical Group Forum had a high level of attendance. Feedback from the participants was used as a guide by the Board for further strategic development of IPENZ strategy.
- The Board met on eight occasions, and its sub-committees (Audit and Risk, Performance and Remuneration) each met on several occasions with high levels of attendance.
- The revised Strategic and Business Plans to September 2013 were developed.
- The 2008 Annual Review was prepared and accepted at the Annual General Meeting.

	Budget	Actual	%
Staff hours	3,085	4,793	155
Salary cost	\$192,380	\$266,286	138
Other expenses	\$179,761	\$167,366	93

Recognition of

Contribution – Aims

IPENZ recognises both those who provide engineering leadership by awarding Fellowships or service awards and nominating them for governance roles, and those demonstrating technical excellence through technical awards.

Achievements

- Three Distinguished Fellowships, two Honorary Fellowships and 28 Fellowships were awarded at the 2009 Fellows' and Achievers' Dinner, following adjudication according to the stipulated procedures.
- All technical awards were adjudicated according to their rules and presented at the 2009 Fellows' and Achievers' Dinner. Over 250 people attended the 2009 dinner in Wellington. As a new development, all Professional Development Partners were recognised during the ceremony.
- More than 80 nominations of Members were made for State Sector Boards with some success.
- Three Members were recognised in the New Years Honours List, one a direct nominee of IPENZ.

	Budget	Actual	%
Staff hours	1,315	1,082	82
Salary cost	\$65,620	\$44,076	67
Other expenses	\$65,239	\$56,929	87
Income	(\$30,000)	(\$14,158)	47

Leadership on National and Community Issues

To define and facilitate resolution of international, national and community issues by presenting the perspectives of the engineering profession.

KEY CONTRIBUTORS

Tim Davin Director – Policy • **Tracey Ayre** Policy Advisor

Public Policy – Aims

IPENZ is a visible thought leader on behalf of the engineering profession, regularly providing professional input to the debate and resolution of important national and community issues through technically-informed public policy research, including at least one major research-based policy statement per year.

Achievements

- A major project on government policies to regulate the electricity generation sector was developed but not finalised, by year end.
- A policy report on engineering skill shortages was published and promulgated. A draft report on infrastructure management was developed but not finalised, and a briefing paper on high-technology industries was promulgated.
- Twenty submissions were prepared on a range of topics including the Emissions Trading Scheme, the Resource Management Act Review and the government’s Policy Statement on Land Transport Funding.
- Feedback from senior government officials has been supportive and two national seminars in the three main centres were held jointly with government officials – the first on the Resource Management Act Review (Ministry for the Environment); and the second on the Infrastructure Plan (Treasury), the National Land Transport Plan (New Zealand Transport Authority) and the Road Safety Strategy 2020 (Ministry of Transport).
- Steps were undertaken to create an Engineering Leadership Forum to more effectively represent the engineering sector collectively on policy issues.

	Budget	Actual	%
Staff hours	3,159	3,381	107
Salary cost	\$177,768	\$193,274	109
Other expenses	\$69,434	\$28,719	41

Competence and Qualification Recognition

To ensure that internationally-benchmarked engineering qualification and competence quality marks are widely recognised and used.

KEY CONTRIBUTORS

Brett Williams Director – Learning and Assessment ▪ **Rachel Kenny** Personal Assistant – Director Learning and Assessment
▪ **Jeff Wastney** Registrar ▪ **Bub Konia** Competence Assessment Administrator ▪ **Abi Kilduff** Competence Assessment Administrator
▪ **Katerina Beu** Competence Assessment Administrator

Benchmark, Manage and Promote Standards – Aims

On an ongoing basis IPENZ maintains graduate profiles and competence standards conforming to international best practice at the professional engineering, engineering technologist and engineering technician levels. It also accredits or recognises qualifications to international best-practice standard as signified by continuing signatory status in multilateral accords, and assesses competence to international best practice as signified by continuing membership of multilateral engineering register agreements. IPENZ maximises the use by engineers, regulators and users of engineering services of the quality marks administered by IPENZ.

In 2008/09 actions will be undertaken to ensure that the place of our quality marks in the total portfolio is well articulated, is well understood by Members and other stakeholders, and that their appropriate uptake is effectively promoted.

STANDARDS ACCREDITATION BOARD

Paul Wilson (Chair) ▪ **David Ryan** ▪ **John Rutledge** ▪ **Peter Jackson** ▪ **Joanna Saywell** ▪ **Tiina Hall-Turner** ▪ **Ralph Fouche** ▪ **Simon Lovatt** ▪ **Basil Wakelin**

TECHNICIAN EDUCATION STANDING COMMITTEE

Ralph Fouche (Chair) ▪ **Murray Isdale** ▪ **Dirk Pons** ▪ **John Wills** ▪ **Ian Williamson** ▪ **Rob Blakemore**

Accreditation

THE UNIVERSITY OF WAIKATO'S BACHELOR OF ENGINEERING AND BACHELOR OF ENGINEERING (HONOURS) WITH MAJORS IN:

- Mechanical engineering
- Software engineering.

Accredited until 2011

AUT UNIVERSITY'S BACHELOR OF ENGINEERING AND BACHELOR OF ENGINEERING (HONOURS) WITH MAJORS IN:

- Mechanical engineering
- Electrical and electronic engineering.

Accredited until 2013

AUT UNIVERSITY'S BACHELOR OF ENGINEERING TECHNOLOGY WITH MAJORS IN:

- Mechanical engineering
- Electrical engineering
- Electronic engineering
- Network and communication engineering
- Computer and mobile systems engineering.

Accredited until 2013

- IPENZ maximises the use by engineers, regulators and users of engineering services of the quality marks administered by IPENZ

Achievements

- A range of seminars and workshops to promote graduate progression to assist candidates preparing for competence assessment were run through the year. Some sessions were run in conjunction with Branches and engenerate groups, whilst others were delivered as in-house seminars for Professional Development Partners, including the New Zealand Transport Agency, Metrowater, Watercare Services, Higgins Group, Beca and North Shore City Council.
- The fourth edition of *Engineering Edge* was produced and circulated to Members and employers. Strong demand for the booklet led to a reprint in September 2009.
- IPENZ proposed changes to the continuous monitoring process in the International Engineering Agreement Education Alliance Rules and Procedures, which were accepted at the bi-annual meetings held in Kyoto in June 2009.
- An emerging objective of the National Engineering Education Plan (NEEP) project is the development of a single National or New Zealand Diploma of Engineering programme. As a result, an application for full membership of the Dublin Accord has been deferred until 2010.
- Accreditation activities completed during the year are summarised on page 14. In addition, accreditation visits were conducted in September to consider the continued accreditation of degree programmes offered by Massey University (Bachelor of Engineering degrees across three campuses) and The Open Polytechnic of New Zealand (Bachelor of Engineering Technology degrees offered by distance learning in conjunction with the University of Southern Queensland).
- IPENZ continued to actively contribute to review activities within the International Engineering Alliance, with Basil Wakelin chairing a Washington Accord review team to Australia in September.

	Budget	Actual	%
Staff hours	2,700	3,750	139
Salary cost	\$141,000	\$154,965	110
Other expenses	\$145,000	\$126,187	87
Income	(\$96,000)	(\$85,499)	89

Chartered Professional Engineer – Aims

IPENZ fulfils its functions as the Registration Authority for Chartered Professional Engineers (CPEng), under the Chartered Professional Engineers Act 2002. IPENZ ensures systems and procedures are administered effectively and that they comply with CPEng Rules, and minimises the number of successful appeals against its decisions.

Achievements

- The CPEng register was managed throughout the year in accordance with the CPEng Act and Rules.
- No appeals against registration decisions were lodged with the CPEng Council during the year.
- The Annual Report to the CPEng Council was completed and presented to the CPEng Council within the legislative timeframe.
- This year, agreement was reached with the Department of Building and Housing and the CPEng Council to develop a common work programme to optimise use of IPENZ registers by regulators.
- At year end there were 2,513 CPEng registrants.
- The system for assessing Category A Recognised Engineers was introduced with the first approved in March 2009. As at 30 September 2009, there were 13 Chartered Professional Engineers who had been assessed as Category A Recognised Engineers.
- The Competence Assessment Board approved the first Design Verifiers to be assessed based on the CPEng assessment process. At year end there were three Design Verifiers approved.
- Practice Area Assessor training was conducted in March and August, with 23 assessors undertaking training.
- During the year, three registrants were disciplined, three complaints were dismissed and 16 were in progress as at year end.

	Budget	Actual	%
Staff hours	1,100	1,047	95
Salary cost	\$50,000	\$50,335	101
Other expenses	\$80,000	\$49,513	62
Income	(\$228,000)	(\$250,317)	110

Competence

Assessments – Aims

Each year, 10 per cent of the Graduate Membership – and all candidates that require reassessment – are professionally and efficiently assessed for competence against internationally-benchmarked competence standards for entry to or continuance on national registers at the professional engineer, engineering technologist and engineering technician levels.

Achievements

- During the year, 815 continued registration assessments of Chartered Professional Engineers were completed, with 806 applications approved.
- A total of 187 assessments for admission were completed.
- Development of an online “assessor portal” is almost complete. This will allow additional information to be provided to applicants on progress with their application. This functionality is progressively being adopted by assessors.
- The uptake for the newer registers is improving, with end-of-year registration figures for Engineering Technology Practitioner (ETPract) being 29, International Engineering Technologist (IntET) – seven, and Certified Engineering Technician (CertETn) – four.
- The number of Members recording their work history online has increased significantly following the introduction of the new version of the recording tool. In June 2009, 260 records were entered and over 2,000 individual work history records or episodes were entered in the first year of operation.
- The online application tracking system has been extended to enable Professional Development Partners to track online the progress of the competence assessment applications of staff (subject to permission being granted).

	Budget	Actual	%
Staff hours	4,700	3,941	84
Salary cost	\$132,000	\$110,090	83
Other expenses	\$467,000	\$393,199	84
Income	(\$813,000)	(\$678,748)	83

COMPETENCE ASSESSMENT BOARD

Joanna Saywell (Chair) ▪ **Basil Wakelin** ▪ **Michael Haydon** ▪ **Jon Williams**
▪ **Geoffrey Farquhar** ▪ **Scott Blain** ▪ **Craig Price** ▪ **Geoff Thomas** ▪
Richard Muggleston

International

Agreements

Secretariat-Aims

IPENZ operates the international Secretariat for six multi-lateral international engineering agreements professionally and in accordance with the expectations of the signatories and members of the six agreements.

Achievements

- Effective Secretariat services were provided during the year with the International Engineering Alliance Governing Group commending the Secretariat staff for their work during the first two years of the Secretariat contract.
- The International Engineering Meetings in Kyoto in June 2009 ran smoothly, with positive feedback on the organisation of the event received from other jurisdictions.
- The Secretariat Manager met with the signatories to the Seoul Accord to investigate future administration of that agreement, membership of which has some overlap with the International Engineering Alliance.

	Budget	Actual	%
Staff hours	1,500	1,503	100
Salary cost	\$58,000	\$56,587	98
Other expenses	\$25,000	\$8,822	35
Income	(\$150,000)	(\$156,729)	104

International

Development-Aims

Through involvement with the World Federation of Engineering Organisations, IPENZ contributes to the international development of the engineering profession with particular emphasis on the needs of the South Pacific region.

Achievements

- A model for the South Pacific Engineers Association was agreed with the six participating nations, following consultation meetings held individually or as a group in Fiji, Samoa and Papua New Guinea. Draft Rules and a structure to support the development of both national and regional competence registers in the region have been developed. Planning for the launch in 2010 has commenced.
- IPENZ has been the lead author on six of 11 chapters in the *Guidebook for Capacity Development in Developing Nations*, which is being prepared under the auspices of the World Federation of Engineering Organisations and the United Nations Educational, Scientific and Cultural Organization (UNESCO). As the other chapters are further developed, IPENZ will continue to contribute to editing with the anticipated launch in 2010.

	Budget	Actual	%
Staff hours	200	670	335
Salary cost	\$20,000	\$46,154	231
Other expenses	\$65,000	\$64,162	99
Income	-	(\$396)	-

Professional Development Support

To provide professional development opportunities meeting the needs of Members at all stages of their career.

KEY CONTRIBUTORS

Paul Gardner Professional Development Manager ▪ **Christine Elits** Professional Development Advisor ▪ **Shannon Davidson** Professional Development Administrator

Career

Development

Support-Aims

As part of its multi-stage professional development model, IPENZ programmes support graduate development with or without employer support. This includes development of management and leadership skills by its Members and support for those sectors of the Membership with specialised needs.

Particular emphasis will be given in 2008/09 to fully implement the Professional Development Partner scheme, and progressively close down the Endorsed Employer scheme.

Achievements

- The Professional Development Partners scheme was launched in October 2007. There has been a 93 per cent success rate in transitioning Endorsed Employers to the new scheme. As at 30 September 2009, there were 23 Professional Development Partners.
- A further 25 prospective Professional Development Partners have either submitted a partial application or have expressed an interest in progressing their applications.
- There was a high response rate (2,275 Members) to the 2009 Remuneration Survey and the data has been collated and analysed.

	Budget	Actual	%
Staff hours	2,942	2,471	84
Salary cost	\$102,157	\$85,661	84
Other expenses	\$27,451	\$16,543	60
Income	(\$2,000)	(\$3,087)	154

PROFESSIONAL DEVELOPMENT PARTNERS AS AT 30 SEPTEMBER 2009

Beca Group of companies ▪ Fletcher Construction (Engineering Division)
 ▪ URS New Zealand ▪ Watercare Services ▪ North Shore City Council ▪
 Metrowater ▪ HEB Construction ▪ AECOM (formerly Maunsell) ▪ MWH ▪
 New Plymouth District Council ▪ New Zealand Transport Agency ▪ Opus
 International Consultants ▪ Traffic Design Group ▪ Aurecon (formerly
 Connell Wagner and incorporating Romulus Consulting Group) ▪ GHD
 ▪ Harrison Grierson ▪ Transfield Worley ▪ Fulton Hogan ▪ Higgins
 Construction ▪ Meridian Energy ▪ Markplan ▪ ViaStrada ▪ Davis Olgivie

Continuing Professional Development - Aims

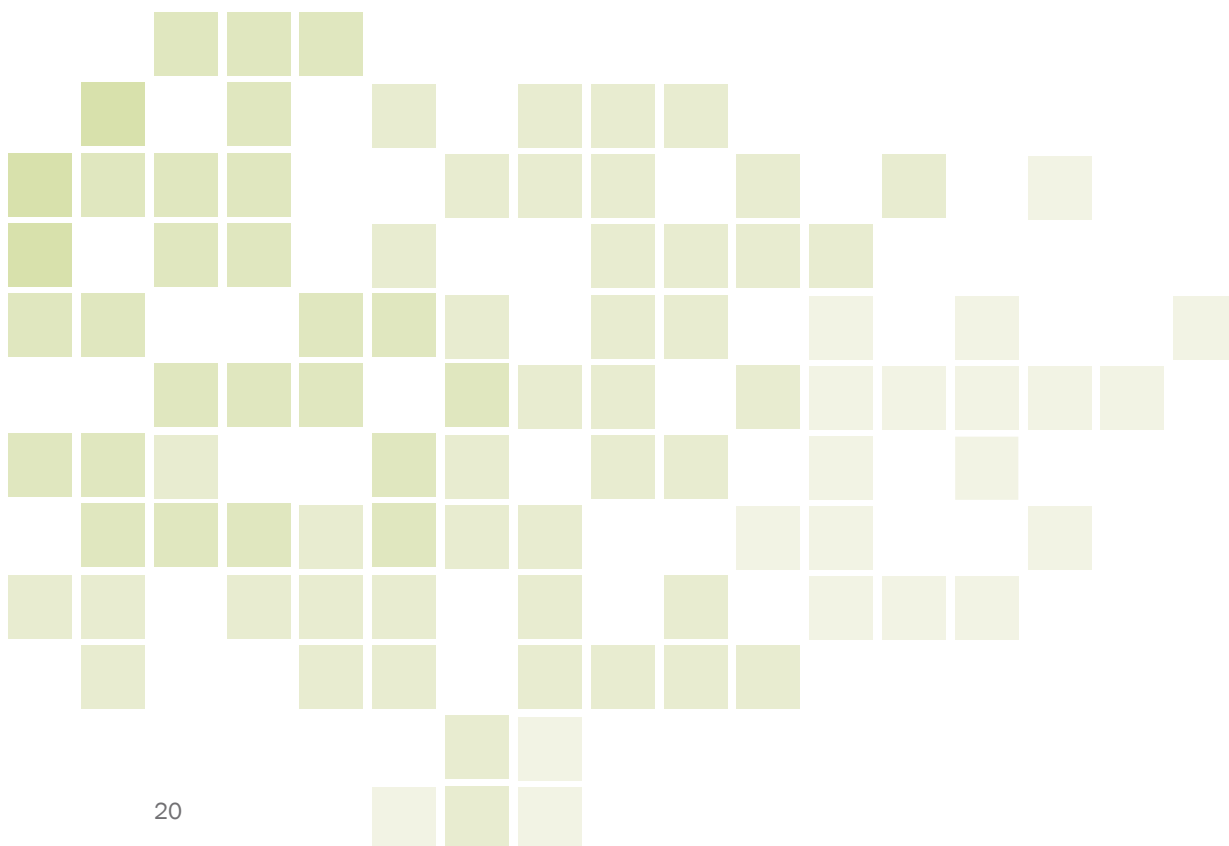
The fee-paying professional development courses provided by IPENZ under the Centre for Professional Development (CPD) brand are used by Members as a primary means of maintaining and developing their competence.

Emphasis will be given in 2008/09 to developing a range of technical refresher courses in association with other technical bodies for engineers, including Technical Interest Groups and Collaborating Technical Societies.

Achievements

- During the year there were 53 IPENZ courses and 13 courses administered for Technical Interest Groups and Special Interest Groups, with 1,183 delegates attending IPENZ events.
- Agreements have been formed with seven existing providers of programmes that led to 75 referrals to other providers.
- Two Member consultation events on the Resource Management Act and transportation were facilitated in seven locations.
- An agreement was finalised with The Open Polytechnic of New Zealand to offer 43 degree-level accredited distance learning modules to Members as revision papers for the 2010 period onwards.

	Budget	Actual	%
Staff hours	2,173	2,734	126
Salary cost	\$80,715	\$77,860	96
Other expenses	\$261,221	\$254,193	97
Income	(\$440,000)	(\$391,387)	89



Members with Specialised Needs – Aims

IPENZ undertakes initiatives to address the needs of particular Member groups including young engineers, women engineers and engineers from ethnic backgrounds with low levels of participation in engineering.

During 2008/09, emphasis will be placed on achieving career progression for young engineers through support of the engenerate programme, and through development of a retention programme for women engineers.

Achievements

- National Office worked with the Special Interest Group for Immigrant Engineers to deliver two seminars for long-term migrants from Asia on presenting a professional image.
- The 2009 engenerate/IPENZ photography competition attracted 132 entries of a high standard.
- The 2009 engenerate/IPENZ calendar featuring the 12 finalist photographs from the 2008 photography competition was well received by Members and other recipients alike.
- engenerate chapters around the country continued their events programmes with various activities from site visits, to Toastmasters meetings and inter-company soccer tournaments. Regional engenerate chapters have also secured good support from companies.
- engenerate Members assisted with the Road to Competence information seminars.
- Preliminary discussions have been held with the New Zealand Institute of Management regarding joint professional development events for young professionals.
- The Women in Engineering project has been re-energised for the 2010 financial year and a programme of activities is being developed. IPENZ is a supporter in the International Conference for Women Engineers and Scientists hosted by Engineers Australia and to be held in Adelaide in July 2011.

	Budget	Actual	%
Staff hours	1,485	639	43
Salary cost	\$75,127	\$45,391	60
Other expenses	\$59,328	\$40,945	69
Income	-	(\$8,732)	-

Engineering Practice Support

To lead the development and recognition of good engineering practices and provide Members with tools which assist them to be more effective engineering professionals.

KEY CONTRIBUTORS

Charles Willmot Director – Engineering ▪ **Cam Smart** Engineering Practice Manager ▪ **Griff Page** Manager – Ethics and Discipline ▪ **Dionne Needham** Personal Assistant/Awards Co-ordinator ▪ **Brian Worboys** Technical Secretary

Engineering Practice Support – Aims

On an ongoing basis, IPENZ identifies emerging engineering practice issues and develops plans to deal with such issues. It also provides Members with access to up-to-date codes of practice, standards and new engineering knowledge to support them in their practice. IPENZ submits on behalf of the profession to ensure New Zealand has a regulatory environment which supports effective, efficient, ethical and innovative engineering practice and upholds high ethical and competence standards, and deals effectively with any unacceptably poor performance by Members through a disciplinary process.

Achievements

- Three submissions were made on government policy affecting engineering practice.
- Three practice notes were published during the year: *Coldstore Engineering in New Zealand*, *Structural Engineering Design Office Good Practice* and a revision of *Operator Protective Structures v 1*.
- Nominations for Standards New Zealand committees continue to be accepted at the rate of around two each month.
- Development of a compendium of codified engineering knowledge has commenced.
- Development of an engineering knowledge portal (to create a single reference point for New Zealand engineering knowledge) is ongoing with an anticipated roll out early in 2010.
- Three disciplinary hearings have been held during the year. Two of these have resulted in action being taken against three Chartered Professional Engineers and one has resulted in action being taken against a Fellow. In total, 38 complaints were progressed, of which 10 were dismissed.

	Budget	Actual	%
Staff hours	5,487	4,540	83
Salary cost	\$287,204	\$240,949	84
Other expenses	\$114,172	\$81,894	72
Income	-	(\$18,410)	-

ENGINEERING PRACTICE BOARD

Peter Geddes (Chair)
Bill Darnell
Donald Bell
Bryan Pidwerbesky
Carol Boyle
Deane McNulty
Geoff Sidwell
Wayne Johnston
Mohamed Imtiaz

INVESTIGATING COMMITTEE – CHAIRS

Graham Ramsay
David Bunting
Peter McCombs
Tim Dobbie

DISCIPLINARY COMMITTEE – CHAIRS

Brain Hasell
Jenny Culliford

THE FOLLOWING MEMBERS SERVED ON INVESTIGATING OR DISCIPLINARY COMMITTEES DURING 2008/09

Bill Cassidy ▪ **Jim Clarke** ▪ **Peter Mathers** ▪ **Debbie Scott** ▪ **Alan Bickers** ▪ **Tim Keals-Smith** ▪ **Deane McNulty** ▪ **Clive Sligo** ▪ **Graham Voysey** ▪ **Jack Mains** ▪ **Barry Brown** ▪ **Craig Cooper** ▪ **Kelvin Barclay** ▪ **John Stark** ▪ **Neil Rogers** ▪ **Richard Croad** ▪ **David Hutchison** ▪ **Pathmanathan Brabhaharan**

Technical

Leadership – Aims

In 2008/09, emphasis will be given to developing a leadership profile with Technical Interest Groups, Collaborating Technical Societies and kindred bodies through establishing a profile with the relevant decision-making bodies in such organisations. It is recognised that to achieve this leadership position there would be major advantages if IPENZ was also embedded as the service provider of choice for those bodies, ideally as the event organiser and technical secretary (both of which would be additional to their membership administration function IPENZ already performs).

Achievements

- Technical secretary services were provided to the Mechanical Engineering Group, Society for Fire Protection Engineers (to facilitate work on acceptable documentation on fire designs), and to the Timber Design Society.
- The capability to manage conference events for Technical Interest Groups and related bodies was developed, including staff development to use leading-edge event management software.

	Budget	Actual	%
Staff hours	3,313	1,333	40
Salary cost	\$141,796	\$59,974	42
Other expenses	\$15,828	\$6,507	41
Income	\$30,000	(\$24,006)	82

Profiling the Profession

To increase key audience understanding about engineering professions and their contribution to New Zealand and the global community.

KEY CONTRIBUTORS:

Rebecca Adams Communications Manager • **Fay Duncan** Careers and Heritage Administrator

Audience

Perception

Shifts–Aims

Based on the audiences previously identified and the market research carried out, action plans for shifting audience perceptions of IPENZ to desired end points will be developed.

In 2008/09, the perceptions of the name IPENZ as distinct from the possibility Engineers New Zealand will be researched and the possibility of an industry-wide brand will be considered.

Achievements

- A communications plan, which identified five tactics for 2009 – the Pickering Lecture series, engineering heritage activities, a public face to the web site, a TV documentary, and a promotional DVD, was developed and implementation commenced.
- Following research, it was considered that the Engineers New Zealand rather than the IPENZ brand should be deployed when the engineering profession is being promoted.
- A promotional DVD on engineering has been produced.
- There have been 33 IPENZ-initiated media hits for the year.
- There were 259 reports of IPENZ, Members or leading engineers in the New Zealand media.

	Budget	Actual	%
Staff hours	1,458	1,183	81
Salary cost	\$73,711	\$49,718	67
Other expenses	\$59,515	\$9,683	16
Income	-	-	-

The profile of engineering is developed through high-profile public presentations that illustrate the vital role of engineering in resolving contemporary issues



Engineering

Heritage – Aims

The vital contributions engineers make to the historical and ongoing development of New Zealand are recognised, recorded and profiled in a manner accessible to all New Zealanders.

In 2008/09, the Engineering Heritage Board will develop a strategy to maximise the contribution of heritage to public profiling.

Achievements

- Five major recognition projects were completed – the Makatote Viaduct, the Makohine Viaduct, the Raurimu Spiral, Wellington/Manawatu railway, and the Middlemarch/Tairi Gorge railway.
- Fifteen projects and 26 biographies were entered in the heritage database.
- Development of the heritage strategy is being undertaken by the Engineering Heritage Board.

	Budget	Actual	%
Staff hours	683	783	115
Salary cost	\$21,977	\$24,055	109
Other expenses	\$44,636	\$23,102	52
Income	(\$3,048)	(\$7,273)	239

ENGINEERING HERITAGE BOARD

Rob Wilkinson (Chair) ▪ **Rob Aspden** ▪ **John Gardiner** ▪ **Noel Hanham** ▪ **John La Roche** ▪ **Rebecca O'Brien** ▪ **Lloyd Smith** ▪ **Chas Charlton** ▪ **Jeff Jones**

Pickering Lecture

Programme – Aims

The profile of engineering is developed through high-profile public presentations that illustrate the vital role of engineering in resolving contemporary issues.

Achievements

- The 2009 Pickering Lecture series was presented by well-known Australian photovoltaic expert, Dr Muriel Watt. Dr Watt gave a topical presentation about photovoltaic technologies, trends and applications, as well as the opportunities for more extensive deployment in New Zealand. Eight lectures were held throughout the country with attendances of a hundred or more at five of the eight venues. There was media coverage in local newspapers at each location.

	Budget	Actual	%
Staff hours	329	430	131
Salary cost	\$13,589	\$8,941	66
Other expenses	\$34,717	\$22,395	65
Income	(\$9,992)	-	-

**New Zealand
Engineering
Excellence Awards –
Aims**

The Awards' dinner is held in November each year with the target audience of senior national stakeholders and politicians, and aims to demonstrate both excellence in engineering and the contribution of engineering to national development.

Achievements

- Approximately 385 people attended the 2008 event including three Cabinet Ministers, two Members of Parliament with engineering degrees, and chief executives of major organisations.
- The event met financial expectations with all but one of the sponsorship opportunities taken up. There were over 64 entries for the Awards in 2009.
- The five partners of Ingenium, Centre for Advanced Engineering, Electricity Engineers Association and the Association of Consulting Engineers New Zealand continued to support the event.
- There was significant media interest with coverage in four major city newspapers along with coverage in various regional press.

	Budget	Actual	%
Staff hours	1,671	1,862	111
Salary cost	\$65,955	\$67,960	103
Other expenses	\$159,698	\$101,733	64
Income	(\$165,011)	(\$148,567)	90

Renewal of the Profession

To ensure New Zealand has sufficient engineers and technology-literate people to achieve the Institution's vision of a sustainable and prosperous society.

KEY CONTRIBUTORS

Angela Christie Director – Schools ▪ **Angeli Hudson** Schools Team Administrator ▪ **Chris Linnell** Futureintech Writer/Researcher ▪ **Rod Hare** Futureintech Facilitator North Auckland ▪ **Cathrine Ritter** Futureintech Facilitator Central Auckland ▪ **Gay Watson** Futureintech Facilitator South Auckland ▪ **Margaret Brunton** Futureintech Facilitator Central North Island ▪ **Jenny Dee** Futureintech Facilitator Hawke's Bay ▪ **Susan Weekes** Futureintech Facilitator Wellington ▪ **Colin Bell** Futureintech Facilitator Canterbury ▪ **Lynne Newell** Futureintech Facilitator Dunedin ▪ **Glynn McGregor** Techlink Project Co-ordinator ▪ **Megan Rodden** Techlink Writer ▪ **Vanessa Lai** Techlink Communications Officer ▪ **Jess Brunette** Techlink Writer ▪ **Rohin Joyce** Web Designer

Futureintech – Aims

By meeting Futureintech's contractual obligations, IPENZ increases the number of school leavers who undertake tertiary education in technology, engineering or science.

Achievements

- Futureintech exceeded its contractual obligations to New Zealand Trade and Enterprise (NZTE) during the 2008 calendar year.
- A total of 416 Ambassadors made 1,422 visits to 235 schools giving a conservative estimate of 3,555 donated hours. In addition, 22,766 students, 2,594 teachers and 284 career advisors were engaged in Futureintech activity in 705 schools. Seven Visiting Industry Professional projects were funded during this period.
- Futureintech is on track to meet its contractual obligations for the 2009 calendar year, with 500 Ambassadors currently available to volunteer their time in schools. In the 2009 year, 1,244 visits were made by Ambassadors and/or Facilitators to primary and secondary schools involving 26,511 students, 2,431 teachers and 228 careers advisors in 301 schools.
- Statistics from the Ministry of Education indicate that enrolment numbers in technology, engineering and science courses were up in 2008. This is particularly significant in information technology where the trend has been downward over several years.
- Futureintech's success is communicated to key audiences via monthly *e.news* publications. A comparison of enrolment statistics in technology, engineering and science in New Zealand and Australia was submitted to NZTE for inclusion in a ministerial briefing paper.

	Budget	Actual	%
Staff hours	15,079	15,709	104
Salary cost	\$559,412	\$577,189	103
Other expenses	\$404,761	\$357,791	88
Income	(\$1,243,685)	(\$1,256,975)	101

Techlink – Aims

By meeting Techlink’s contractual obligations, teachers have increased access to support materials in technology education.

Achievements

- Techlink has met all its contractual obligations to the Ministry of Education under the Technology Online and Materials Development contracts in 2008/09. Five small related contracts have also been won and completed during this period. IPENZ was contracted to undertake management and administration of the Technology Education New Zealand (TENZ) 2009 conference.
- During 2008/09, material published on the web site included 12 classroom practice case studies, eight technological practice case studies, 38 student showcases and 20 teaching snapshots. In addition, two Techlink booklets were published and distributed to schools and educational institutions throughout the country.
- Techlink communicates to its key audiences through monthly email alerts, articles in the TENZ *t-news*, together with regular mail-outs, and articles and advertorials in selected publications including *The Education Gazette*, *Listener*, *North and South* and *Principals Today*.
- Web site visitor numbers have increased steadily. For example, in March 2008 the average daily visitor numbers were 620 and in March 2009 numbers reached 652. Average time spent on the site went up from 4.32 minutes in March 2008 to 11.38 minutes in March 2009.

	Budget	Actual	%
Staff hours	7,492	7,161	96
Salary cost	\$211,706	\$237,197	112
Other expenses	\$297,852	\$207,843	70
Income	(\$709,320)	(\$778,078)	110

Engineering in Schools – Aims

The Neighbourhood Engineers Awards draws high-quality entries from a wide range of schools and, where Futureintech is not operating in a school, the “Get Alongside a Careers Advisor” programme ensures promotional material for engineering careers is available.

Achievements

- Registrations for the Transpower Neighbourhood Engineers Awards increased by 20 per cent from 2008 to 2009. Over 100 schools registered their interest in the awards and of those, 80 schools were partnered with an engineer.
- There are currently over 60 Get-Alongside engineers offering support to their local schools.
- General careers enquiries from Members, schools and other stakeholders have been handled efficiently and effectively.

	Budget	Actual	%
Staff hours	809	809	100
Salary cost	\$23,956	\$23,593	98
Other expenses	\$20,387	\$12,789	63
Income	(\$19,995)	-	-

Future Supply of Engineers – Aims

A strategic priority for the next few years is to look at what actions should be taken to facilitate the future supply of engineers for New Zealand. Tertiary education elements of this will be considered. A national plan for the tertiary education of sufficient engineering graduates at National Qualification Framework Level 6 and above will be developed in collaboration with the tertiary providers and relevant governmental agencies; including development of strategies to lower student loss in the early part of tertiary education. The plan will also consider the whole supply chain, from school students and immigrants through to senior engineering practitioners, and identify the barriers to getting effective outcomes. A discussion paper on this subject will be developed and issued in 2008/09.

Achievements

- The National Engineering Education Plan (NEEP) project, in which IPENZ is a partner with relevant universities, institutes of technology and polytechnics (ITPs) and industry training organisations (ITOs), has had six active workstreams towards the overall goal.
- A career structure that shows how careers develop from the base of engineering technician, engineering technologist and professional engineer qualifications was developed, widely consulted, and agreed. This allows prospective engineers to better understand the ways in which technical deepening and development of managerial/ leadership skills can enhance their careers. The engineering education community has adopted the model.
- Through collaborative work with the Association of Consulting Engineers New Zealand and the Department of Labour, a major study of the demands for engineering graduates was completed and consulted. Taking into account both this study and further work by the Ministry of Education the shortfall in the numbers of graduates compared to demand has been quantified.
- Following the adoption of a more demanding exemplar graduate profile by the Washington Accord, possible scenarios for the future of professional engineer education were developed and consulted with the industry.
- A national framework for the co-ordinated delivery of the Bachelor of Engineering Technology degree through a group of major ITPs was agreed and the qualification is proceeding through approval stages for commencement in 2010.
- A conceptual model for a New Zealand Diploma of Engineering and a New Zealand Diploma of Engineering (Applied), to be delivered through a collective arrangement by ITPs and ITOs, was developed and consultation undertaken.
- Work with the Ministry of Education was undertaken to develop a national understanding of career progression pathways through the senior school in the technology learning area. A four-subject model, with bodies of knowledge to be defined received wide support, and this will be publicised to secondary schools and teacher groups.

	Budget	Actual	%
Staff hours	120	294	245
Salary cost	\$8,926	\$26,098	292
Other expenses	-	\$5,778	-
Income	-	(\$5,785)	-

Membership Development

To confirm the mandate as the national representative for the engineering professions by increasing the size and breadth of our Membership.

KEY CONTRIBUTORS:

Kavita Kansara Marketing Manager • **Megan Jefferies** Events and Policy Administrator

Membership Development-Aims

IPENZ will continue to increase its Membership and maintain a demographic and class balance within the Membership that ensures the ongoing viability of the national professional body.

Achievements

- Throughout 2008/09, IPENZ Membership classes were heavily promoted to engineering students, graduate engineers and mid-career engineers through a number of channels.
- Annual net Membership growth was 4.5 per cent (406 Members) outside the Student Membership class. Activities included attendance at tertiary institutions and graduate information days, and mail-outs to final-year students.
- There was a 1.1 per cent increase (64 additional Members) within competence-graded Membership classes.
- There was an encouraging increase in Student Membership of 26.4 per cent (443 additional Student Members). Activities included attendance at orientation days and careers fairs.

	Budget	Actual	%
Staff hours	1,600	1,210	76
Salary cost	\$59,000	\$42,160	71
Other expenses	\$40,000	\$34,761	87
Income	(\$6,000)	(\$7,200)	120

Effective Support Systems

To underpin the provision of high-quality services to Members, subsidiary organisations and key external stakeholders by employing competent staff and operating effective support systems of high integrity.

KEY CONTRIBUTORS:

Susie McCutcheon Director – Operations ▪ **Michele Boniface** Membership Administrator ▪ **Danielle Heath** Office Administrator, Reception ▪ **Katherine Hibbard** Administrative Assistant ▪ **Diane Crawshay** General Accounts Administrator ▪ **Sue Cornwell** Administrative Assistant ▪ **Alison Underwood** Office Manager ▪ **Lyn Patterson** Financial Accountant ▪ **Annie Tasi** Accounts Payable Administrator ▪ **Dale Cooper** Information Technology Manager ▪ **Curtis Vertongen** IT Technician ▪ **Beau Broadhead** Web Administrator ▪ **Manisha Weerasinghe** IT Business Analyst ▪ **Kim Willcox Lee** HR Advisor

Membership

Systems and Record

Maintenance–Aims

Accurate Membership and associated financial records are created and maintained for all Members of IPENZ, its subsidiaries, and aligned organisations drawing service from National Office.

Achievements

- Accurate records continue to be maintained and altered on the Membership database in a timely manner.
- All invoicing of subscriptions met in-house standard operating procedures.
- All current records are upgraded to the strict New Zealand Post guidelines. IPENZ qualified for the New Zealand Post statement of accuracy, enabling IPENZ to qualify for bulk mail discounted rates, achieving value for money for Members.
- There has been ongoing development of in-house software and systems to enhance reporting from the database, particularly around competence assessment data, and to web-enable a number of processes.

	Budget	Actual	%
Staff hours	4,347	6,030	139
Salary cost	\$221,298	\$158,369	72
Other expenses	\$134,003	\$132,380	99
Income	(\$3, 000,000)	(\$2,926,785)	98

Underpinning Office Accommodation and Services – Aims

Staff employed to service IPENZ, its subsidiaries, and aligned organisations are supported and their activities enhanced by the provision of information technology, office accommodation, equipment, financial and other associated services befitting a national professional body.

Achievements

- The financial accounting system was upgraded and preparation to move to the International Financial Reporting Standards financial standard in 2009/10 was undertaken.
- Several information technology infrastructure enhancements were implemented, including adding two new servers into the IPENZ virtual environment, one for events management and one as a file server, and a new uninterruptible power supply (UPS) system was purchased and installed to support IPENZ's growing needs.
- Payment systems have been streamlined to reduce staff processing time.
- Improvements to the working environment at National Office included upgrades of the air conditioning and lighting.
- Artwork featuring William H Pickering and his work has been acquired and is now displayed in the Pickering Meeting Room at National Office.

	Budget	Actual	%
Staff hours	8,600	9,616	112
Salary cost	\$280,021	\$295,672	106
Other expenses	\$950,741	\$992,301	104
Income	(\$553,600)	(\$546,172)	99

Human Resources – Aims

Capable staff are recruited, well supported and provided with opportunities to develop their skills and career aspirations within IPENZ, while achieving organisational objectives.

Achievements

- A comprehensive Human Resources Policy Manual was approved by the governing Board and the Chief Executive.
- An internal staff management study group was set up and meets monthly with the goal of improving management capability.
- Nineteen new staff were recruited, including three for newly established roles.
- There was one internal promotion, retaining skills and knowledge within IPENZ and developing staff to match career aspirations
- The results of the staff survey this year showed an increase in staff satisfaction in a number of areas over 2008.

	Budget	Actual	%
Staff hours	12,523	18,478	148
Salary cost	\$261,682	\$265,510	101
Other expenses	\$261,256	\$113,665	44
Income	-	(\$785)	-

Communication to Members

To inform Members with up-to-date news and events relating to the profession.

KEY CONTRIBUTORS

Nick Helm Managing Editor ▪ **Hazel Penfold** Writer/Editor ▪ **Erica Pitt** Design Manager ▪ **Toby Rutherford** Junior Graphic Designer ▪ **Chris Burr** Sales Manager

Publications – Aims

The three periodical publications are provided to Members for meeting many of their information needs. *e.nz magazine* is viewed as New Zealand’s leading authoritative journal covering significant innovative engineering and technology projects. *engineering direct* is valued for providing up-to-the-minute news in an electronic newsletter and *engineering dimension* is the primary source for information on Institutional activities. Commercial information for professional development, employment and new products or services is made available through these channels at a fair cost.

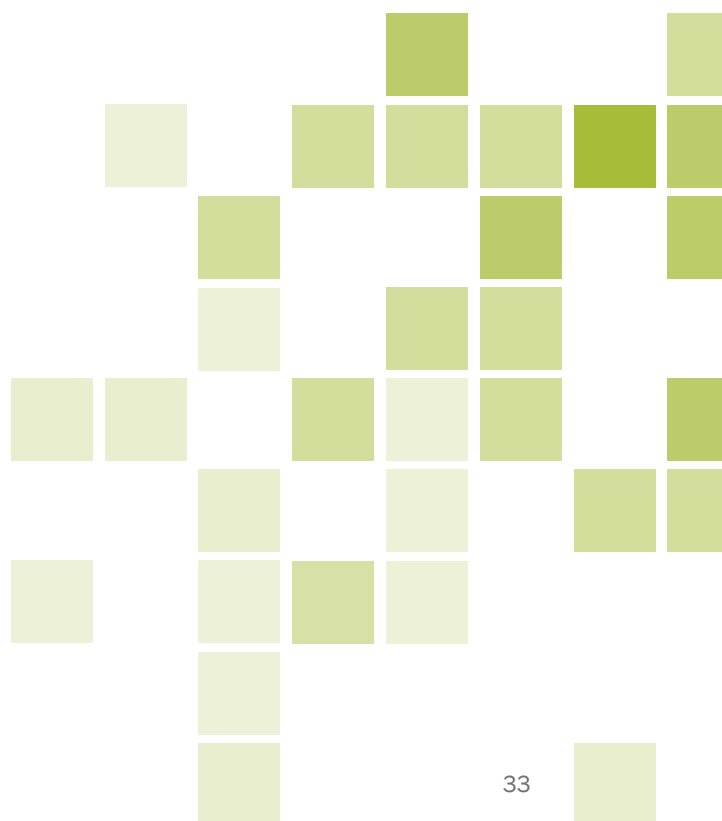
In addition, there are a number of targeted communications to selected groups of Members, for example, those who are identified as potential candidates for competence assessment.

In 2008/09, emphasis will be given to identifying any weaknesses in the various forms of regular and targeted communications to Members that lead to perceptions of bureaucracy and low levels of engagement, and in response to the findings, the communications’ resources will be redirected.

Achievements

- All publications were produced on time, to budget, and in conformance with their charters. Deadlines for future publications have been streamlined and tightened.
- Investigations were undertaken to improve the online delivery of our publications, with a particular focus on the current under-performance of *e.nz magazine*’s online space.
- *e.nz magazine* underwent significant design and content changes in 2009 which received positive responses from the Membership.

	Budget	Actual	%
Staff hours	6,000	6,851	114
Salary cost	\$199,000	\$224,719	113
Other expenses	\$375,410	\$407,564	109
Income	(\$362,000)	(\$230,821)	64



Web Services – Aims

The IPENZ web site is provided to Members to meet many of their information needs. It is the key information resource for Members and wider stakeholders, providing commercial information for professional development, employment and new products or services.

In 2008/09, emphasis will be given to identifying any weaknesses in the various forms of regular and targeted communications to Members that lead to perceptions of bureaucracy and low levels of engagement, and in response to the findings, redirection of the communication's resources will be made.

Achievements

- The assessment and assessors' sub-section of the web site's Members' Area has been launched; assessors are finding the access to applicant records useful. Some further enhancements will be made as feedback is received.
- New assessment tools have been released in the web site's Members' Area, including new work history and referee applications and the assessors' portal. This enables assessors to access much of the needed assessment information online. This change decreases the handling required at National Office and reduces risk of lost or missing information.
- There have been several new web sites developed, providing new or extra web frontage for a number of technical groups and IPENZ special projects.
- A number of other enhancements have been tested and added to the IPENZ web site, at this stage focusing on streamlining the information provided within the Engineering Calendar.

	Budget	Actual	%
Staff hours	1,600	2,313	145
Salary cost	\$53,000	\$78,299	148
Other expenses	\$3,590	-	-
Income	-	(\$4,980)	-

Subsidiaries and Aligned Organisations

To support subsidiaries and aligned organisations through effective administration and professional advice.

KEY CONTRIBUTORS

Jack Cooper Branch Facilitator • **Fiona McLean** Membership Administrator TIG, SIG, CTS

Subsidiaries and

Aligned

Organisations –Aims

Branches, Technical and Special Interest Groups and Collaborating Technical Societies will better support and service their members within the respective domains of activity and objectives of each type of organisation through the provision of professional and administrative support from National Office.

Achievements

- Results from the satisfaction survey of subsidiary groups showed an improvement in the level of satisfaction with services from the previous survey. In 2008/09, 83 per cent of respondents indicated they had received either “good” or “very good” service.
- The IPENZ Leadership presentation was delivered to all Branches by the President, Deputy or Vice President accompanied by a National Office Director.
- A number of new technical groups were established over the last few years; this year IPENZ supported the establishment of the Rivers Group.
- There was increased activity for Branches and subsidiary groups this year which has also meant an expansion of National Office support.

	Budget	Actual	%
Staff hours	2,600	3,878	149
Salary cost	\$110,000	\$133,053	121
Other expenses	\$238,000	\$195,992	82
Income	(\$5,177)	(\$15,669)	303

■ A number of new technical groups were established over the last few years; this year IPENZ supported the establishment of the Rivers Group.

Branches



Branches

Branches exist to provide services to Members that are best delivered locally. Branches provide presentations on topical and technical issues, site visits, and opportunities for engineers to socialise and network. They provide career development and mentoring support where possible. Branches also create opportunities for engineers to provide engineering input into local and national issues.

Auckland

Chair **Simon Hall**

- In May, the Branch hosted the IPENZ Leadership visit and presentation of the Arthur Mead Award for the Environment and Sustainability.
- Site visits included Lion Nathan's new brewery facility, the Naval Base, and the New Lynn Rail Trench (the latter in conjunction with the Tauranga Branch).
- Particular highlights included re-establishing contact with Special Interest Group for Immigrant Engineers and the Auckland chapter of the Transportation Group. The Branch also established contact with the Engineers without Borders (Auckland student chapter).
- The Branch welcomed speakers on a range of topics during the year, including John Duthie who spoke to a joint engenerate/Auckland Branch event. In addition, the Branch hosted the Pickering Lecture where Dr Muriel Watt spoke on the future of solar energy.
- The Auckland Branch worked to support young engineers through active liaison with the engenerate Auckland chapter and the creation of a mentoring liaison position to help find mentors for graduate engineers.
- A Tertiary subcommittee was established to provide more focused engagement with the five tertiary institutions in Auckland and the Branch supported tertiary events such as the University of Auckland Engineering Revue, the VEX Robotics competition and the Weir-Warman Design and Build competition.

Budget	Actual
\$74,500	\$65,649

Canterbury

Chair **James Park**

- The Branch hosted 22 events during the year, including five site visits, 10 speakers and social events for Members.
- The speaker presentation topics ranged from insurance and leadership attributes, to Oxfam activities. The Branch promoted kindred body events for local branches of Engineers for Social Responsibility, Institution of Civil Engineers (UK), Institution of Engineering and Technology (UK), Timber Design Society, and Structural Engineering Society.
- Three major public lectures were sponsored by the Branch in 2009, each attracting over 100 attendees. These were the IPENZ Pickering Lecture, the Brunel Lecture (with Institution of Civil Engineers), and the Hopkins Lecture (with the University of Canterbury).
- The Branch was pleased to host the IPENZ Leadership visit at its July 2009 meeting.
- engenerate representatives attended all of the Branch Committee meetings (although it ran its operation separately from the Branch activities this year). The Branch had five events linked closely to University of Canterbury engineering school activity, and also supported the Regional High Schools' Science Fair.

Budget	Actual
\$28,500	\$23,741

East Coast

Chair **Graham Mackey**

- The Branch has held five events including three site visits. The Branch was pleased to host the Pickering Lecture which had a good attendance.
- The Annual General Meeting was combined with a site visit to Universal Engineering Limited. The Branch held a site visit to Corson's Grain processing, covering both of its processing sites. A third site visit was conducted at the Clearwater Hydro scheme which is being constructed near Matawai. This was well attended, and there was interest from non-members, who were invited.
- The Branch was pleased to welcome the IPENZ Leadership visit, which was well received.

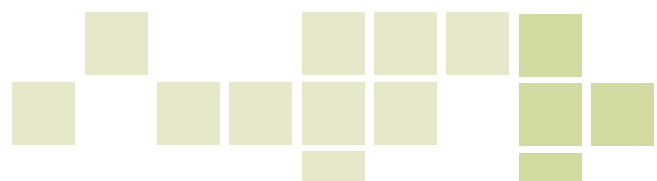
Budget	Actual
\$2,000	\$1,039

Hawke's Bay

Chair **Jamie Cox**

- A total of 13 well-attended site visits and Branch presentations were held during the year as well as the co-alignment of the Branch with a series of seven lectures with partnering organisations including The Royal Society of New Zealand and the NZ Institute of Architects.
- Events of note included a transportation paper outlining the challenges facing the Rugby World Cup and a joint Waikato/Bay of Plenty/Hawke's Bay site visit to the Taupo geothermal power station.
- Social events included a summer luncheon, annual dinner and quiz night as well as a well-attended IPENZ Leadership visit.
- All three IPENZ Foundation/Hawke's Bay Branch scholarship recipients received full pass credits in their chosen study disciplines.
- A presentation was given to Ingenium members on the value of IPENZ Membership. Each Committee member was assigned an engagement role with current Members.
- The Branch made submissions to all Hawke's Bay Councils' Long Term Council Community Plan processes regarding contributing to the Hawke's Bay Branch/IPENZ Foundation Scholarship, with enough support gathered to ensure a sustainable fund is available for future recipients.
- The Branch sponsored a prize at the annual Hawke's Bay Science and Technology Fair and provided three special judges for the event.

Budget	Actual
\$4,500	\$3,976



Manawatu

Chair **Chris Charlston**

- Ten events were held during the year, starting with the pre-election meeting with candidates from the three main political parties who responded to questions on IPENZ policy initiatives, and the final event being the Pickering Lecture by Dr Muriel Watt.
- Presentations included topics such as the Manawatu River flood protection scheme, a waste-gas co-generation project, the generation of biodiesel from algae (jointly with The Royal Society of New Zealand), precision agriculture, finite element analysis and solid modelling in practice and the challenges that climate change presents to engineering.
- The Branch provided support to TECHENSOC at Massey University for a mock-interview evening for students, and assisted with funding for a field trip. The Branch also presented a special prize for a project at the Manawatu Science and Technology Fair.
- The Branch hosted the IPENZ Leadership visit in July 2009.
- The Branch sponsored the IPENZ Manawatu Branch scholarship for first-year engineering students at Massey University.

Budget	Actual
\$7,500	\$5,131

Nelson-Marlborough

Chair **Dugald Ley**

- The Branch had a busy year with a number of meetings, social events and site visits undertaken.
- Site visits included the new sports complex at the Saxton Field pavilion, the new crusher at Flaxmore Quarry, Tasman Energy Substation, the Reefton Gold Mine (jointly with West Coast Branch), the Waimea sawmill and the Ruby Bay Bypass.
- The Branch hosted the Pickering Lecture by Dr Muriel Watt with over 100 attendees.
- The Young Engineers presentation was enlarged to accommodate secondary school students and was well attended. The evening was split into two groups – one was the young students where engineering was promoted and the other was for the IPENZ graduates to present an engineering aspect to Members.
- The Branch was pleased to welcome the IPENZ Leadership visit at its meeting in June, and has kept Members informed and facilitated networking through the monthly newsletter.

Budget	Actual
\$5,000	\$6,526

Northland

Chair **Curt Martin**

- The Branch held eight Branch meetings throughout the year. Site visits and presentations covered a range of topics including the New Zealand Refining Company's Jetty Three, the Ruakaka Industrial Developments, Adobe Construction, the Hikurangi Swamp Drainage Scheme and the Whangarei District Council Roading Department's design and construction procurement experience.
- The Branch awarded student bursaries totalling \$3,000, and a contribution towards the Schools' Science and Technology Fair was made for prizes and administration costs.
- A highlight for the year was the IPENZ Leadership visit in August.
- Branch Members attended two careers evenings at the Whangarei Boys High and Whangarei Girls High Schools.

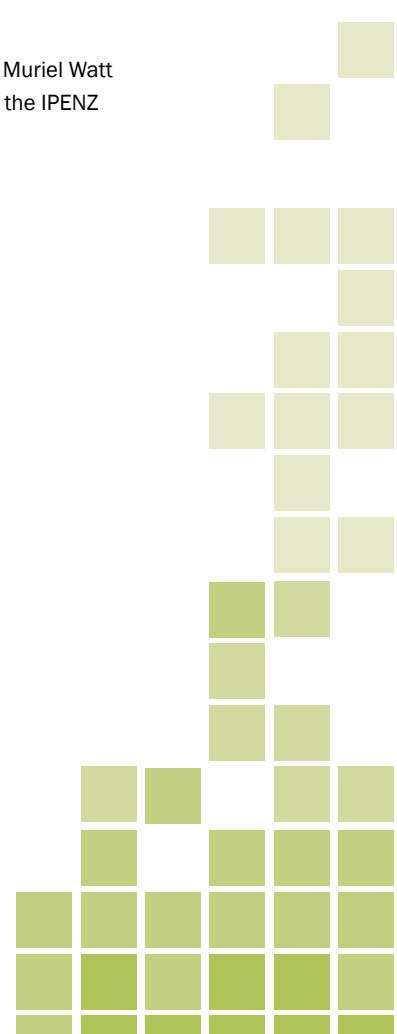
Budget	Actual
\$4,500	\$2,878

Otago

Chair **Greg Leonard**

- The Branch held a number of meetings and events for Members over the last year. Of particular interest were the presentations on aid work in Laos, the construction of the Dunedin Chinese Gardens, and the state of New Zealand's electricity grid by Kieran Devine, General Manager – Systems Operations, Transpower.
- The Otago Branch worked actively with other Branches and with the local chapter of engenerate.
- In conjunction with the Otago Heritage chapter, the Branch co-sponsored the launch of two new Engineering Heritage Trail brochures in April.
- With the Southland Branch and Otago and Southland engenerate chapters, the Otago Branch co-sponsored an on-site presentation at a "Smart Pod" by Warrick Weber of Weber Consulting at Arthurs Point in Queenstown.
- In September the Branch hosted Dr Muriel Watt for the 2009 Pickering Lecture, and the IPENZ Leadership visit in June.

Budget	Actual
\$6,500	\$5,964



Southland

Chair **Chris Heaslip**

- Events this year included a lunch on occasion of the IPENZ Leadership visit, a well-attended Concrete Conference, and a seminar on preparing for CPEng presented by Dr Chris Shaw.
- Southland's engineering cadets group was very active through the year having regular meetings, forming study groups and undertaking a field trip to New Zealand Aluminium Smelters and the Clifton Sewage Treatment Plant.
- Joint Southland Branch and engenerate events included a site visit to the Fonterra Edendale site to see the Dryer 4 during construction, and a presentation from architect, Warrick Weber of Weber Consulting. These events were run in conjunction with the Otago engenerate chapter.
- The Branch hosted an information session for Members wishing to apply for competence-based IPENZ Membership classes.

Budget	Actual
\$3,000	\$821

South Canterbury

Chair **Robin Donovan**

- The Branch enjoyed a number of meetings and presentations during the year. Members were encouraged to think about their work-life balance following an interesting "life after engineering" presentation at the Annual General Meeting from a retired Member.
- The Branch also hosted officials from the New Zealand Transport Agency who spoke on the Timaru Transport Study, and the Timaru District Council on the Main Trunk Sewer Upgrade project.
- The Branch provided funding for a prize in the South Canterbury Schools' Science Fair.
- The Branch offered a \$500 scholarship to a school leaver studying engineering in 2009 at one of the Universities of Canterbury or Auckland. Three applications were received, and the scholarship was presented at the Annual General Meeting.

Budget	Actual
\$2,500	\$1,408

Taranaki

Chair **Dave McKay**

- The Branch held 10 events over the year. A range of presentations were given on solid fuel from reconstituted wood waste, Oakura sewerage reticulation, green buildings and landfill gas utilisation. In addition, a local investment analyst provided an interesting presentation on the global financial crisis.
- Site visits included a visit to the Kupe Production site in South Taranaki.
- The Branch held several combined meetings with other groups, including a site visit to view the widening work being undertaken on the Tangahoe Bridge south of Hawera.
- The Branch invited Members to attend a talk by the skipper of the Earthrace boat during its visit to New Plymouth.
- The Taranaki Branch is represented on a panel of interest groups giving input to the Taranaki District Council on its review of subdivision and land-use requirements in the rural area of New Plymouth.
- The Branch hosted a meeting which provided information to those seeking to attain CPEng registration. The Branch also hosted the IPENZ Leadership visit in August which was well received.

Budget	Actual
\$5,500	\$3,756

Tauranga

Chair **Nick Gurr**

- The Branch held 10 events during the year. These included site visits to the Tauranga Harbour Link construction and a bus tour to Auckland to the New Lynn Rail Track Lowering and the Manukau Harbour Crossing. Auckland Branch Members were also invited to these events.
- Seeking to promote increased interaction among various other professional bodies, (architects, quantity surveyors, planners, landscape architects, mediators/arbitrators, surveyors), the Branch promoted three of its events with invitations to representatives of those groups.
- The Tauranga engenerate chapter was active throughout the year with various learning and social events and a young engineers' presentation competition. Chartered Professional Engineer training and mentoring was provided through the Branch.
- Branch Members judged prizes for best technical projects at local Intermediate Schools' Science Fairs, with a prize awarded to the best overall exhibit.
- The Bay of Plenty has many sites of engineering heritage importance and the Branch was active through the year in starting to define sites of significance towards a publication.

Budget	Actual
\$7,000	\$6,731

Seeking to promote increased interaction among various other professional bodies (architects, quantity surveyors, planners, landscape architects, mediators/arbitrators, surveyors), the Branch promoted three of its events with invitations to representatives of those groups.

Waikato/Bay of Plenty

Chair **Brian Gabbitas**

- The Branch held nine meetings, two site visits, and two joint meetings with the Institution of Engineering and Technology during the year. The focus of the August Branch meeting was infrastructure and experts spoke on the infrastructure needs of the Waikato region as a consequence of the government's proposed infrastructure funding.
- The Branch hosted speakers during the year on topics including, wood-powered engines, global research funding and New Zealand's position, Smart Grids and the distributor's challenge, Eurocodes used by construction engineers, biodiesel manufacturing processes, the development of a titanium industry in New Zealand, and computer modelling for industrial energy efficiency at Fonterra.
- Two additional meetings were held with Institution of Engineering and Technology – "Wireless World" and a lecture on personal transport and a Segway demonstration.
- The Branch supported activities organised by young engineering students at the University of Waikato. This included awarding scholarships to two students from Wintec and to a first-year student from the University of Waikato, and a final-year project prize to two engineering students from the University of Waikato. In addition, the Branch supported the Rotorua Schools' Science Fair by acting as judges of student projects.

Budget	Actual
\$15,000	\$10,689

Wanganui

Chair **Mark Frampton**

- A number of meetings and social events for Members were held during the year. The Branch has taken opportunities to interact with other Branches, particularly with the Manawatu and Hawke's Bay Branches.
- Site visits were conducted with the Taranaki Branch to the State Highway 3 Tangahoe Bridge Widening project near Hawera, and with the Manawatu Branch to the Iplex Plastic Pipe factory in Palmerston North. Other site visits included the Dairy Trust Milk Powder Plant, and the State Highway 4 Okura Realignment.
- There were two social events – a dinner and a golf tournament.
- In July the Branch hosted the IPENZ Leadership visit and was also part of the IPENZ information day "The Road to Competence Assessment".
- A Branch Member wrote a series of well-received engineering-focused articles that were published in the Saturday *Wanganui Chronicle*.

Budget	Actual
\$2,500	\$1,579

Wellington

Chair **Yogesh Kumar**

- Thirteen events were held during the year. Site visits included the Project Westwind wind turbines, Windsor Engineering workshop and State Highway 2 Dowse to Petone upgrade, and Victoria University of Wellington Teaching Research Building presentation and site visit.
- The Branch co-operated with the Institution of Engineering and Technology and the Institute of Electrical and Electronics Engineers for a breakfast presentation.
- Weekend events were arranged, including the Formula One Expo presentation organised in conjunction with the Wellington branch of the Mechanical Engineering Group and a social event for Members and their families to Stonehenge Aotearoa and Gladstone Vineyard in the Wairarapa.
- Members were able to access 15 other presentations through collaboration with other technical groups such as the Institution of Engineering and Technology, the National Association of Women in Construction, GNS Science, and the Design Institute of New Zealand.
- The Branch sponsored prizes at the Wellington College Science Fair and at the National Institute of Water and Atmospheric Research (NIWA) Science and Technology Fair.
- The engenerate chapter had a successful year with the numbers attending events increasing.
- The Branch hosted the IPENZ Leadership visit at a dinner function, and had a sizeable turnout for the Pickering Lecture.

Budget	Actual
\$29,000	\$22,995

West Coast

Chair **Dougal Hiscock**

- The West Coast Branch held a number of successful events during the year. These included site visits to the Arahura Bridge and the Jacksons/Taramakau Rail Bridge. The Branch combined with the Nelson-Marlborough Branch on a visit to the Reefton Gold Mine.
- Members provided careers advice to prospective engineers (and careers advisors) at a local primary school.
- The Branch was pleased to welcome the IPENZ Leadership visit at a Branch meeting.

Budget	Actual
\$2,500	\$1,567

United Kingdom

Chair **Simone Beesley**

- The IPENZ United Kingdom (UK) Branch held six meetings in the 2008/09 year and was pleased to welcome Jonathan Gammon as guest speaker, who gave a technical presentation on the new Dublin Metro scheme at the Annual General Meeting.
- In an effort to learn more about the UK Branch Members, a voluntary survey was undertaken by a Committee member.
- One of the new Graduate Members who is keen to promote an engenerate chapter in the UK, has joined the Branch Committee. The Branch is also actively working to find suitable mentors for a number of new arrivals.
- A number of social events were held, providing an opportunity for Members to meet informally and build networks.

Budget	Actual
\$6,500	\$5,637



**Technical and
Special Interest
Group Highlights**

Technical Interest Groups

Technical Interest Groups provide programmes of activities and services associated with a particular engineering specialty or discipline on a national basis.

Australasian Association for Engineering Education (AaeE) (joint with Engineers Australia)

Chair **Gerard Rowe**

The Australasian Association for Engineering Education is a professional association committed to fostering excellence and innovation in engineering education. The general mission of AaeE is to improve the quality, relevance and performance of engineering education in Australasia.

- Dr Elizabeth Godfrey was the first New Zealander to be elected President of the AaeE.
- Highlights of the annual conference included presentations by the finalists for the AaeE Teaching Awards.
- The AaeE made communication and dissemination a major focus of 2009. Resource material of interest to members has been placed on a wiki site at <http://aaee-scholar.pbwiki.com>
- During 2009, AaeE funded a series of workshops entitled “Engineering Education Research and Your Career”. The workshops aimed to strengthen our sense of community by providing engineering academics with the opportunities and resources to build their knowledge and skills in the scholarship of learning, teaching, and educational research.
- The online journal, *Australasian Journal of Engineering Education*, is hosted by the Engineers’ Media arm of Engineers Australia. Papers can be downloaded from www.engineersmedia.com.au/journals/aaee/papers.asp

Australasian Tunnelling Society (joint with Engineers Australia)

New Zealand Co-ordinator **Evan Giles**

The Australasian Tunnelling Society is jointly sponsored by IPENZ, Engineers Australia and the Australasian Institute for Mining and Metallurgy. It is a non-profit organisation uniting members of the engineering and scientific professions, tunnellers, miners and suppliers in its membership with the aim of providing programmes of activities, technical conferences, symposia and meetings. These are designed to stimulate, educate and inform those with an interest in the field.

Electrotechnical Group

Chair **John Gardiner**

The Electrotechnical Group provides a co-operative forum for electrical and electronic engineering activities. It draws membership from New Zealand-based electrical and electronic engineers, whether Members of IPENZ or not. By affiliation, members of the United Kingdom’s Institution of Engineering and Technology (IET) and the United States’ Institute of Electrical and Electronic Engineers (IEEE) are also connected to this Group.

Food Engineering Association of New Zealand (joint with NZ Institute of Food Science and Technology)

Acting Chair **Dr Mohammed Farid**

The Food Engineering Association represents New Zealand in the global network of food engineering. It covers a range of disciplines including food science, food technology, food engineering, biotechnology and biochemical engineering.

Maintenance Engineering Society (MESNZ)

Chair **Barry Robinson**

The Maintenance Engineering Society of New Zealand's purpose is to inform members of national and international developments, contribute to the development of knowledge in the area and identify good engineering practice. It also provides informed public policy on issues, and a national network for members with similar technical interests.

- Over the course of eight meetings, 14 guest speakers presented a range of topics, including: maintenance planning and management; human resources; energy efficiency; the Hazardous Substances and New Organisms Act, and failure analysis.
- The Society worked with the Christchurch Polytechnic Institute of Technology advisory group and the Manukau Institute of Technology and submitted to the National Engineering Education Project.
- Three meetings were held with Competenz to discuss a united tertiary engineering education system.
- The annual National Maintenance Engineering Conference attracted over 100 attendees. This brought together a collection of maintenance-oriented engineering industries to discuss and share issues.
- The Society initiated a \$5,000 MESNZ scholarship for tertiary study of maintenance-related engineering.
- Work towards offering a Certified Maintenance and Reliability Professional exam in New Zealand is continuing.
- MESNZ attended the Vibration Association of New Zealand Conference, and made a presentation to the inaugural Occupational Health and Safety Industry Group Conference.

Mechanical Engineering Group (MEG)

Chair **John Gardiner**

The Mechanical Engineering Group brings together engineers in the general mechanical fields. It is linked with the Institution of Mechanical Engineers (UK).

- The Group is developing a programme of meetings and events. New branches in Christchurch and Hamilton are being established.
- The Group provided sponsorship to the University of Auckland Department of Mechanical Engineering's Formula SAE entry and support for final-year projects at the university.
- During Te Papa's Formula 1 Design weekend, Mark Galvin made a presentation about the design and construction of a prototype racing car (in collaboration with the IPENZ Wellington Branch).
- Members were invited to attend papers presented by other technical groups, such as Engineers for Social Responsibility.

New Zealand Coastal Society (NZCS)

Chair **David Phizacklea**

The New Zealand Coastal Society membership represents a wide range of coastal science, engineering and planning disciplines. It provides a forum for those with an interest in the coastal zone to network with each other.

- The NZCS Annual Conference was held in New Plymouth in November 2008.
- The Society hosted the Coasts and Ports 2009 Conference in Wellington in September 2009, with around 270 local and international attendees. The biennial conference is hosted in New Zealand every six years.
- The new-look web site was launched in September 2009 at www.coastalsociety.org.nz
- Regional events were hosted in six main centres, with international presenters including Dr Jim Hansom from Scotland and Professor Tarmo Soomere from Estonia.
- Three editions of *Coastal News* were produced.
- Three tertiary student travel awards of \$500, plus free conference registration, were awarded to students to attend Coasts and Ports 2009.
- Two \$2,500 student research scholarships were awarded to students undertaking Master's research in 2008.

New Zealand Society for Sustainability Engineering and Science (NZSSES)

Chair **Dr Carol Boyle**

The NZSSES objectives are to inform members on important national and international developments and issues that lie within the domain of sustainability, engineering and science. These include contributing to knowledge sharing support, identifying good engineering practice, preparing informed comment on public policy issues and creating a national network amongst similar technical groups.

- The International conference, "Blueprints for Sustainable Infrastructure", was held in December 2008. It attracted 200 delegates and guests and offered 11 keynote speakers and 15 workshop presenters. The exceptional standard of speakers, who gave freely of their services, was a highlight for the Society.
- The Society is developing a book incorporating papers presented by keynote speakers and delegates at the conference. The NZSSES also co-authored the brochure, *Sustainability: Engineering the way Forward*, in conjunction with IPENZ National Office.

- The NZSSES held seven Friday Forums on topical issues such as sustainable transport, air quality, and conservation versus mining. Besides presenting selected papers from the conference to the public in Christchurch and Auckland, a Forum presentation was held on complexity, decision and innovation. Two additional two-day workshops were held on life cycle analysis attracting over 20 attendees.
- The Society hosted a winter seminar series on sustainable facilities and infrastructure. Dr Annie Pearce of Virginia Polytechnic Institute and State University, who is an international green buildings and leadership in energy and environmental design (LEED) expert, presented at the seminars.
- Twenty-five learning sessions were offered to members, engineers and scientists. Forty-seven speakers addressed the sessions, which were attended by over 400 people.
- The NZSSES Chair has been forging links with like organisations in Australia and the United States, and several keynote presentations have been given in Melbourne, Austin, Texas and Cincinnati, Ohio.

New Zealand Society on Large Dams (NZSOLD)

Chair **Ken Roberts**

The Society brings together the owners, users and builders of dams for all purposes. It is the New Zealand national committee to the International Commission on Large Dams.

- Ken Roberts and Peter Mulvihill represented New Zealand at the International Committee on Large Dams (ICOLD) Congress and Annual Meeting (Brasilia) in May 2009. Ken Roberts is a member of the Environment Committee and Peter Mulvihill is the Africa-Oceania Vice President.
- The Society's three-yearly Symposium with the theme "Dams – Operating in a Regulated Environment" was held in August 2009.
- The Society is represented on the Department of Building and Housing's Regional Authority Working Group, examining implementation of the Building Act requirements and regulations.

Railway Technical Society of Australasia (RTSA) (joint with Engineers Australia)

New Zealand Chair **Andrew Hunt**

The Railway Technical Society is a joint society with Engineers Australia. It promotes the co-operation of academic, industrial, commercial and governmental organisations in relation to the practice and advancement of railway technology and management.

Recreation Safety

Engineering Group (RSEG)

Chair **Jack Mains**

Formed in February 2008 with the Department of Labour's support, the RSEG facilitates the work of engineers who routinely certify amusement devices. Its aim is to improve public safety and to advocate for engineering safety.

- Two general meetings of the RSEG were held with representatives of IPENZ, and the Department of Labour.
- To improve efficiency, reporting structures have been standardised. Work towards an Approved Code of Practice for certifying amusement devices was initiated.
- Submissions were made through IPENZ to the Department of Labour, urging a broadening of the interpretation of an amusement device following the Balance Bridge Swing fatality in March 2009.
- A representative from Engineers Australia addressed RSEG's October meeting, to foster a trans-Tasman approach.

Rivers Group

Chair **Stephen Coleman**

The Group aims to bring policy-makers, practitioners, and community interests together to promote a multi-disciplinary and multi-cultural approach to river management in an integrated and holistic manner.

- The Group was formally launched on 21 August 2009 by the Minister for the Environment. The opening function was preceded by a field trip to view engineering works on the Waiwhetu Stream and the Hutt River.
- Key Group targets identified for the coming year include holding a mid-2010 workshop/symposium on topical issues, identifying training needs and solutions, and building on the momentum that saw 300 members register at the time of the Group's launch.

Road Transport

Certifying Engineers (RTCE)

Chair **Neil Rogers**

The object of the RTCE is to co-operatively advance knowledge and practice of science and engineering for the design and certification of road transport vehicles. This includes the development and application of design standards, rules and codes.

- The Conference and Annual General Meeting was held in October 2008. The conference concentrated on issues affecting Members from the New Zealand Transport Agency (NZTA) and the Heavy Vehicle Brake Rule.
- A mini-conference was held in Wellington in April 2008. It focused on NZTA issues, dolly frame and toweye drawbar fatigue design, and understanding and managing stress and anxiety loops.
- The Group established subcommittees on the Heavy Vehicle Brake Rule, and on Load Anchorages.
- Various meetings were held with the NZTA on restructuring the RTCE Group. The Brake Subcommittee made submissions on the Heavy Vehicle Brake Rule to the NZTA. The NZTA has asked the Group to develop a code of practice on chassis ratings.

Society of Fire

Protection Engineers (SFPE)

President **Michael Dixon**

The New Zealand chapter of the Fire Protection Engineers was established in 1994 in response to the introduction of performance-based legislation for the field of practice.

- A variety of speakers and topics contributed to monthly technical seminars.
- Submissions were made to Standards New Zealand on the draft DZ4517 *Sprinklers in houses* and DZ4514 *Interconnected smoke alarms*. Members contributed to several standards committees relating to fire safety and to the *Coldstore Engineering in New Zealand* practice note.
- A new practice note on fire engineering documentation is being developed in conjunction with IPENZ National Office. The draft has been discussed with other interested parties.
- The Society has been invited by the Department of Building and Housing to contribute to a review of the fire safety clauses of the Building Code. Several members were invited to contribute to the Department's Fire Advisory Panel.
- The Society sponsors a scholarship to a fire engineering student at the University of Canterbury.

Technology Education

New Zealand (TENZ)

Chair **Wendy Fox-Turnbull**

Technology Education New Zealand is a professional network, promoting and supporting technology education in New Zealand. This is achieved by fostering development of technology in the New Zealand curriculum, maintaining national and international links between those working in technology education and with the wider technological community.

- At least one meeting for teachers in the six TENZ regions were held per term. The National Council held monthly teleconference meetings, as well as a face-to-face meeting in Wellington which the regional chairs attended.
- A number of regional seminars were held, focusing on professional development in the New Zealand Curriculum 2007.
- Technology Education Subject Associations' Coalition held two meetings with the subject associations who have technology as a common learning area.
- A well-attended "Navigating Techlink" workshop was held in June.
- Primary schools around South Otago were invited to a Techlink workshop. Feedback from teachers showed the workshop helped them implement the new technology curriculum.
- Seven technology educational DVDs covering a variety of technological contexts were ordered from Australia. The DVDs will be stored at Dunedin College of Education Technology Department for loan to schools around the region.

Transportation Group

Chair **Bruce Conaghan**

The object of the Transportation Group is to advance the art and science of road traffic and transportation engineering practice and to provide a focal point for those working in the profession.

- The National Committee supported grants to members to attend various conferences and workshops.
- Group members continued to provide representation on the New Zealand Transport Agency Traffic Control Devices Steering Group. A number of members are also involved on working parties developing parts of the Manual for Traffic Control Devices.
- Several submissions were made, including joint submissions with IPENZ, on the government's new *Policy Statement on Transport*, the *Safer Journeys* discussion document, and a range of amendments to Land Transport Rules.
- The Branch Committees held a number of technical meetings throughout the year and the Technical Sub-groups held successful conferences and workshops.
- Four issues of *Roundabout* were produced and the web site was maintained to provide up-to-date information to members.
- The National Committee has developed guidelines to assist position holders on committees within the Group, and is working on developing a new Strategic Plan.

Urban Design Forum (UDF) (joint with NZ Planning Institute, the NZ Institute of Architects, the NZ Institute of Landscape Architects, the NZ Institute of Surveyors and IPENZ)

Chair **David Mead**

The UDF aims to promote an increase in the understanding of urban design approaches and practices among professionals engaged in shaping the built environment of cities, neighbourhoods and communities.

- A web site was launched. It provides a calendar of events, links and resources and has regular commentaries and reviews.
- The UDF prepared and presented submissions on the Auckland Governance Review, and hosted a joint seminar with the Institute of Architects on the reforms.
- Submissions were prepared on the Resource Management Act reforms and the government's Sustainable Urban Development Initiative.
- A member was appointed to the committee overseeing the review of NZS 4404 Land Development and Subdivision Engineering.
- A seminar on urban design and resource management planning was held as part of the New Zealand Planning Institute annual conference in Rotorua.
- Members contributed to a session organised by the Auckland IPENZ Transportation Group, looking at urban design and transport.
- The UDF organised a seminar on urban design and development, featuring six national land and commercial developers as well as a local Member of Parliament.

Special Interest Groups

Special Interest Groups operate on a national basis, providing services of interest to a particular cross-section of the Membership.

Special Interest Group for Immigrant Engineers (SIGIE)

Chair **Namir Amso**

The aim of SIGIE is to facilitate immigrant engineers' settlement into meaningful professional employment in New Zealand. This includes training, professional development, employment and career counselling and social and work-opportunity networking.

- The Group held 11 monthly meetings to discuss and develop the Supporter Programme initiative. This provides help to new and existing immigrant engineers to gain professional employment.
- The Group's committee, and John La Roche, addressed the IPENZ Auckland Branch committee about making immigrant engineers feel welcome at Branch and technical group meetings.
- The Committee held meetings with Opportunities for Migrant Engineers in Greater Auckland (OMEGA) and the Auckland Regional Migrant Resource Centre (ARMS). At these meetings discussions covered developing the Supporter Programme and common goals.
- Four one-on-one interview session workshops were held, with 39 engineers attending. Professional engineers interviewed new immigrant engineers (and engineers residing in the Auckland and Waikato regions) to look at their CVs, qualifications, current employment situation and job applications.
- Two IPENZ Competence Assessment training seminars were attended by 52 engineers.
- The Group organised a social event with its members in May which was well attended and provided opportunities for informal networking and discussions.



Collaborating Technical Societies' Highlights

Collaborating Technical Societies

Collaborating Technical Societies are self-supporting societies, operating as separate legal entities. They are democratically self-governing but choose to operate their activities in harmony with IPENZ.

Civil Engineering Testing Association of NZ (CETANZ)

Chair **Paul Burton**

The Society represents the views and opinions of the Civil Engineering Testing Industry in a collective forum. It aims to continuously improve the standard of testing in New Zealand through training, advancing the status of testing in standards of technology to the testing industry, providing a code of ethics for members and representing the views of the society to authorities.

- The Association's technical working group has been involved in a number of projects, including organising national and local proficiency "round robins" in conjunction with the New Zealand Transport Agency and International Accreditation New Zealand (IANZ). The technical working group also provides ongoing technical support to members. Issues include developing future "uncertainty and repeatability" workshops, testing equipment compliance and methodology interpretation. The technical group has also been working with the membership to identify shortfalls and issues with the New Zealand Testing Standards.
- The technical group and IANZ are working together to draft joint letters to Standards New Zealand, summarising issues and requesting that certain standards are reviewed with a matter of urgency. The Association will also actively lobby for sponsorship from other industry sectors to co-fund future possible amendments to New Zealand Standards. The technical group co-operates with a number of industry organisations on these matters.
- The Association's careers and training working group has made progress in identifying qualifications for laboratory technicians. It found a suitable nationwide training provider – Infratrain – which in conjunction with CETANZ set up Industry Advisory Groups. These will start work on the framework of the Unit Standards to be included in each of the three proposed levels and technical disciplines.
- The Society's Activities Group is now working on starting regional groups.

Concrete Society of New Zealand (NZCS)

President **Dene Cook**

The Society encourages and supports the development of a greater knowledge and understanding of all aspects of structural and architectural concrete.

- Two seminar series were run – “Concrete at the Plant” and “Specialty Concrete”.
- A successful Combined Industry Conference was held in Rotorua.
- The Sandy Cormack Award was developed to acknowledge the best paper presented at the annual NZCS or Combined Industry Conference. The 2008 Award was presented to Alistair Cattanach from Dunning Thornton, for his presentation on the Greenstar-rated Meridian Energy building in Wellington.
- The close liaison between the Cement and Concrete Association of New Zealand (CCANZ) and NZCS continued. The Society was represented on the CCANZ Board by its Chair, ensuring that dialogue between related groups such as the New Zealand Ready Mixed Concrete Association, Precast New Zealand, and New Zealand Concrete Masonry Association continues.
- The Society continued its representation in relation to various industry issues and standards revisions.
- Student prizes were reformatted as scholarships, now known as the Concrete Prize of the New Zealand Concrete Society.
- A number of seminars were held on a range of topics.
- The NZCS e-news was emailed to members quarterly.

Energy Management Association (EMANZ)

Chair **Priyani de Silva-Currie**

The Association brings together a diverse range of professional and non-professional interests from engineers to tradespeople. The Association covers the spectrum of energy-related work to promote the highest standards of energy management skills and competence, and to foster and facilitate the integration of sound energy management practices into all sectors of the New Zealand economy. In addition, it aims to develop practical energy management policy proposals and represent these, where appropriate.

- Accreditation arrangements for the energy sector were successfully expanded with the implementation of a “Compressed Air Systems Auditor” competency framework to build on the existing “Accredited Energy Auditor” framework. These schemes have been developed with the support of the Electricity Commission and Energy Efficiency and Conservation Authority.
- Four focus groups were established for members to develop ideas and deal with issues of specific interest to members. These are the Energy Management and Technology Focus Group, the Energy Auditors Focus Group, the Energy in Local Government Focus Group, and the Energy Performance Ratings Focus Group.
- The Association hosted a diverse range of events, including Local Government forums and regular Friday afternoon phone-in technical sessions. It continued to hold monthly presentations on energy issues.
- In 2009, the Association employed its first fulltime Executive Officer, Ewan Gebbie, who established an EMANZ office in Wellington.



Ingenium

President **Ray McIndoe**

Ingenium exists primarily to uphold and improve the quality of local government engineering in New Zealand. It operates within a structure of commercial interests, charitable companies and committees:

- The Ingenium President met with the Minister of Local Government in August 2009.
- Submissions were made on proposed legislation affecting public infrastructure. Some were made jointly with IPENZ and others jointly with the Engineering Leadership Forum.
- Ingenium became a member of the International Federation of Municipal Engineering in January 2009.
- The Ingenium President presented a paper at the annual congress of the American Public Works Association, held in Columbus, Ohio in 2009.
- The Ingenium Annual Conference was held in Hamilton in June 2009.
- Seminars were presented throughout New Zealand on asset management, contract management, project management, and procurement.

New Zealand Geotechnical

Society Inc (NZGS)

Chair **Philip Robins**

The Society aims to promote study and research within the fields of soil mechanics, rock mechanics and engineering geology. This promotes advancing the practice and application of these disciplines in engineering, and implementing the statutes of the respective international societies in so far as they are applicable to New Zealand.

- The New Zealand Geotechnical Society celebrated its 50th Anniversary in 2008, culminating in the 18th New Zealand Geotechnical Society Symposium.
- The 2008 New Zealand Geomechanics Award was presented to Misko Cubrinovski for his contributions to the paper "*Pseudo-static analysis of piles subjected to lateral spreading*".
- The Society hosted the eighth ANZ Young Geotechnical Professional Conference in Wellington in November 2008.
- Geomechanics News was published in December 2008 and June 2009.
- In September 2009, Professor Michael Davies began his term as the Vice President of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) for Australasia.
- The Society hosted a half-day workshop on "Advances in geotechnical limit analysis and its practical application in limit state design" presented by Erskine Fellow, Dr. Colin Smith.
- A short course series is being offered by the Society on the "design and analysis of deep excavations" with Professor Wong Kai Sin, Nanyang Technological University, Singapore.
- The Society provided input into revising NZS 4404:2004 in relation to earthworks.
- A subcommittee has completed the "*New Zealand Geotechnical Seismic Design Guidelines*".

New Zealand Institution of Gas Engineers (NZIGE)

President **Geoff Evans**

The Institution is a technical organisation that serves people employed in the gas industry and a number of related support industries. It is involved in preparing codes and standards, organising technical workshops and seminars, and publishing technical papers.

- The Annual General Meeting was held in Auckland in September 2009.
- A workshop was held during the year on High Pressure Gas Metering and Measurement.
- The 2008/09 NZIGE scholarship was awarded to first-year Master's student, Grant Bourke, for his thesis "*Energy Efficiency of Household Hybrid Gas Instantaneous/Electric Heat Pump Water Heaters*".
- The Council continued its involvement and received regular reports from Standards New Zealand, IPENZ, the Gas Association of New Zealand, the Institution of Gas Engineers and Managers, the Gas Appliance Suppliers Association of New Zealand and the Gas Industry Training Organisation.
- The Institution was represented on four Standards New Zealand review committees
- The New Zealand Branch of the United Kingdom-based Institution of Gas Engineers and Managers was formed (NZIGEM), providing a supplementary membership option for new and existing members.
- Newsletters were sent out in December 2008 and May 2009.

New Zealand Society for Earthquake Engineering (NZSEE)

Chair **Graeme Beattie**

The Society has members from a range of engineering disciplines and aims to foster the advancement of the science and practice of earthquake engineering.

- The Society published *Building Safety Evaluation During a State of Emergency – Guidelines for Territorial Authorities* for territorial authorities to use to prepare for the evaluation of buildings following an earthquake.
- A successful seminar on displacement based seismic design was held, with around 250 attendees.
- A submission was made to the Department of Building and Housing on the Regulations for the Dam Safety Scheme: Consultation Document 2009.
- The Annual Conference was held in April 2009 with the theme "Why do we still tolerate unsafe buildings in earthquakes?". There were 175 attendees and more than 50 oral and poster papers.
- A travelling lecture was given by Jack Moehle on performance-based earthquake engineering and standardisation. Jack was also the keynote speaker at the Annual Conference.
- Four issues of NZSEE Bulletin were published.
- Travelling lectures were held in five centres on learning from the earthquakes' mission, following the Wenchuan Earthquake of 2008.

Society of Chemical Engineers New Zealand (SCENZ)

Chair **Max Kennedy**

The Society of Chemical Engineers New Zealand's objectives are to advance the science and practice of chemical engineering. Its members include practising chemical engineers and those with a professional interest in related activities including biotechnologists and chemists.

Society of Materials New Zealand Inc (SMNZI)

Chair **Patrick Conor**

The Society of Materials New Zealand Inc was established to serve the needs of those involved in the science, technology and engineering of metals, polymers and ceramic materials. Members include professional engineers, scientists, technicians, and anyone else with an interest in the fabrication, processing or use of engineering materials.

Structural Engineering Society New Zealand (SESOC)

President **Mark Batchelar**

The Society provides an outlet for structural engineers to share common interests and technical information, and actively pursues issues that are relevant to structural engineering.

- The Society attracted new members and now represents approximately 1,400 practising structural design engineers.
- In 2008/09, two publications were produced. These covered a wide range of interest areas. Topics such as seismic grades for reinforcing steel, the cost benefits of network arch bridges, lessons from structural failures, green roofs in sustainable building design, precast concrete double tee floor support systems and seismic retrofit models were included.
- Technical seminars were provided on seismic design fundamentals, concrete design and steel design.
- A reinforced concrete design package "BeamDes" has been updated in line with amendments to NZS 3101. This programme has been offered at no charge to financial members of the society.
- The Society's web site is under review. An upgraded version, in addition to providing design advice, will offer forum pages where members can discuss technical issues or requirements for code revisions.

- Members of the Society provided input into the proposed IPENZ/ACENZ practice note, *Structural Engineering Design Office Practice*, and work is continuing on the *New Zealand Construction Industry Council Design Documentation Guidelines – Structural*.
- The relationship with the Institution of Structural Engineers (IStructE) was enhanced by a visit of IStructE President, Dr Graham Owens. Dr Owens addressed meetings at the Auckland and Canterbury Colleges of Engineering, and continued IStructE's close working relationship with the Society. Issues discussed included increasing the access of New Zealand authored papers for publication in the IStructE journal, and the possibility of New Zealand contributing to a joint branded seismic design seminar to IStructE members.
- The Society made awards to four of its members. Dr Richard Fenwick received the Excellence Award for his outstanding contribution to the profession of structural design. In recognition of his service to the Society, he was awarded a second Life Membership. Life memberships were also awarded to Geoff Bird and Dr Barry Davidson for their tireless efforts in managing and directing the activities of the Society over many years.
- The Timber Design Society is a foundation member of NZWood. This promotion has raised the profile of timber in the media. Several committee members have worked with NZWood on developing its web site, www.nzwood.co.nz. NZWood sponsored the Society's annual seminar series which ran in Auckland, Tauranga and Napier this year.
- The Society co-sponsored the October visit by Gary Williams from Timber Systems in Canada. Gary spoke to students and professionals in Christchurch, Napier and Auckland.
- Membership grew from 293 in 2007 to 363 in February 2009.
- The New Zealand Timber Design Journal has continued to provide good technical information to members.
- In February the Society held the Structural Design of Timber and Composite Floors Seminar in Auckland. In May, over 30 participants attended the Seismic Design of Timber Structures Seminar at the University of Canterbury.
- In June a technical forum to revise NZS3603 was held. The second forum for September was on timber treatment.

Timber Design Society (TDS)

Chair **Hugh Morris**

The Society's objectives are to foster the advancement and dissemination of knowledge relating to the design of timber structures and elements. Membership includes professional engineers, architects and scientists.

- The New Zealand Timber Design Society led and won the bid with Australia to host the 2012 World Conference on Timber Engineering in Auckland. The aim is to have a focus on structural design including architecture. A professional organiser has now been appointed and the conference will be promoted at the 2010 conference in Italy.
- The Timber Connection Seminars by Professor Pierre Quenneville were run in Wellington, Nelson and Christchurch and twice in Auckland.



Associated Reports

IPENZ Foundation

FOUNDATION TRUSTEES

John Cunningham (Chairman) ▪ **Dennis Chapman** ▪ **Bob Hodgson** ▪ **Gretchen Kivell** ▪ **Peter Browne** ▪ **Warwick Bishop** (retired in 2009)

The objectives of the Foundation, as set out in the Trust Deed, are to:

- Educate New Zealanders on the role of technology and engineering in sustainable economic, environmental and social development
- Encourage New Zealand school leavers into tertiary education in the fields of engineering and technology
- Educate New Zealanders on significant engineering and technological achievements which form part of New Zealand's national heritage
- Further, in New Zealand, the development and practical application of scientific knowledge in engineering or technology for the wider public good
- Assist Members suffering from hardship due to physical or mental sickness, disability or incapacity to participate in education or rehabilitation programmes that enable them to resume a career
- Promote the relief of poverty among members or Members' dependents arising from the age, physical or mental sickness, disability or incapacity, or death.

The Foundation has been overweight in bonds and cash with its investment funds and has fared well through the recent financial crisis. The funds have been invested with advice from ABN AMRO. We received some donations from Fellows during the year and appreciate their support. We have also received advice of future bequests; it is gratifying to see engineers wanting to encourage future engineering.

The Foundation provided scholarships for Year 12–13 students intending to attend approved engineering schools. One hundred and thirty-four applications were received last year and a lot of interest generated. In 2009, the Foundation sponsored the William Pickering Award for Engineering Leadership and the Award for Excellence in Engineering Journalism at the New Zealand Engineering Excellence Awards.

The Foundation funded engineering heritage plaques to promote public awareness of engineering achievements. It has also funded some school trips to industry.

Warwick Bishop retired this year. Warwick has made a number of contributions as a Trustee, particularly, selecting the winners of the scholarships. This was a large task, involving reading over 130 applications and producing a short list of applicants. Warwick was a founding Trustee and has made a valuable contribution to the Foundation since its beginning.

IPENZ Practice College

The IPENZ Practice College was established on 1 April 2003 according to the Regulations of the Institution. The purpose of the Practice College is to identify those members of the Institution who are currently competent engineering practitioners. Current competence is defined as having successfully undertaken a competence assessment against the competence standard for the relevant Membership class within the last five years.

As at 30 September 2009 there were 2,438 Members of the Practice College. These included 2,403 Professional Members, 30 Technical Members and five Associate Members.

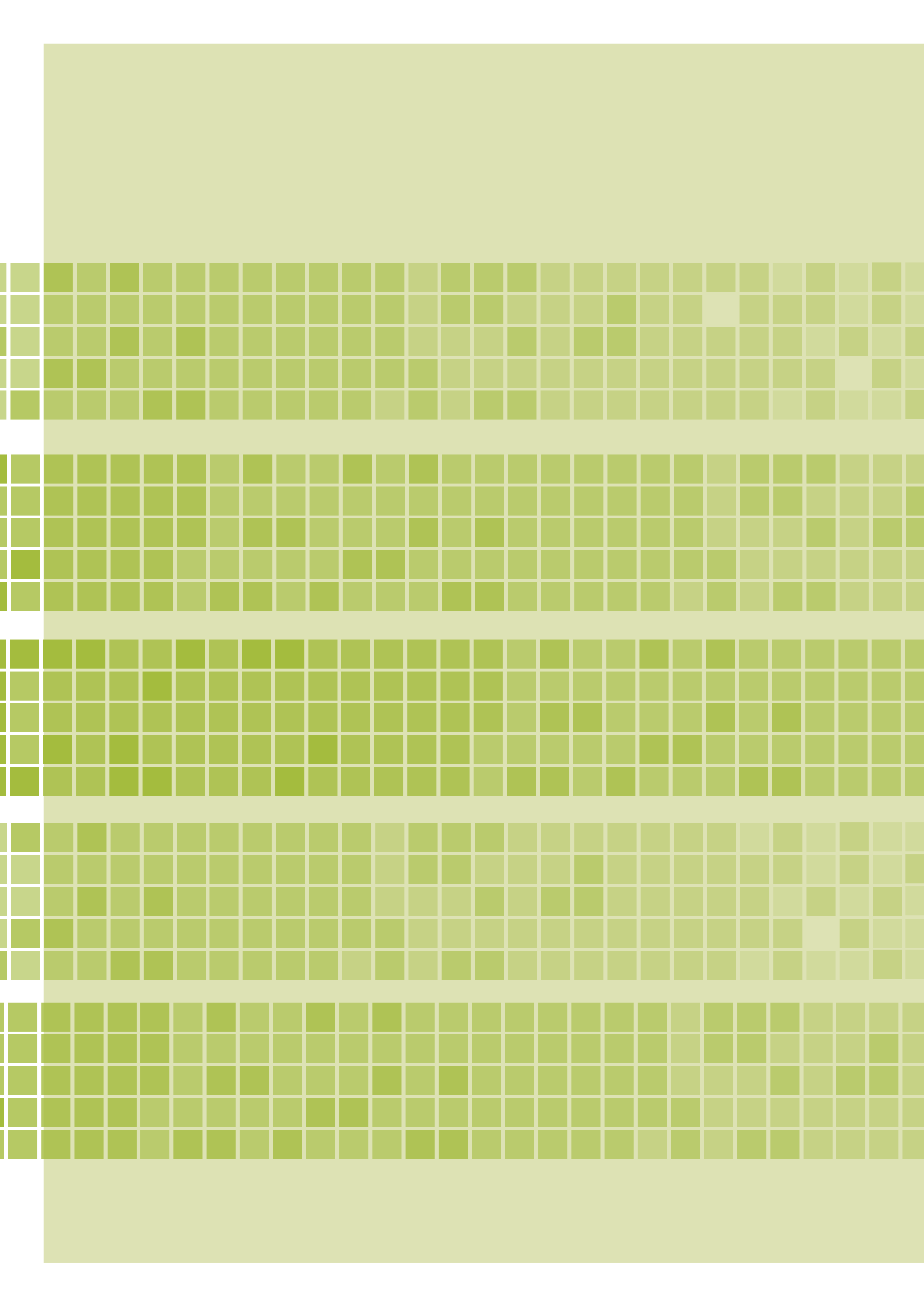
Chartered Professional Engineer

Chartered Professional Engineer (CPEng) is the most important quality mark attesting to the current competence of a professional engineer in New Zealand. It is a statutory title under the Chartered Professional Engineers Act of New Zealand 2002. Registration is gained by demonstrating competence, which is re-assessed for currency at intervals not exceeding five years. The CPEng register includes the date at which each registrant's next competence assessment is due, and is available at all times to the public.

A total of 1,084 applications or submissions for CPEng were received during the year, including 189 assessments for admission and 895 submissions for continued registration assessment.

A total of 180 registrants were added to the CPEng register during the year, bringing the register to 2,506, including 13 Category A Recognised Engineers and three Design Verifiers. Seventeen applications for assessment for admission to CPEng were declined; seven registrants had their registration removed and a further seven suspended because they did not meet the standard for continued registration. One registrant was suspended as a result of disciplinary action. There were no requests for procedural review and no appeals lodged in relation to any assessment decisions.

IPENZ submitted an annual report on its activities as Registration Authority during the 2008 calendar year to the Chartered Professional Engineers Council in March 2009. That report was accepted, and the Council then reported to the Minister responsible that IPENZ had met its obligations as Registration Authority for 2008. A levy of \$30,000 was paid to the Council to fund its activities under the Act.



Roll of Honour

The Institution's Roll of Honour acknowledges extraordinary engineering accomplishments, recognises competence and salutes notable lives in the engineering profession.

Fellowships

Distinguished Fellows

A Distinguished Fellow shall be a Fellow who is distinguished by work in engineering, technology, science, or otherwise whom the Institution desires to honour.

LC Crossen

PS Jackson

KJ Thompson

Honorary Fellows

An Honorary Fellow shall be a person who is distinguished by work in engineering, technology, science, or otherwise whom the Institution desires to honour.

DC McDonald

D Middleton

Fellows

Fellows are elected in recognition of their contribution to the engineering profession or to the Institution.

RJ Aves

GS James

DJ Bell

WW Jenson

H Bier

DMO Kimpton

MJ Bloxam

KE Kliskey

CA Boyle

PT Mulvihill

JA Carmichael

WJL Peet

GB Darlow

BJ Potter

MCR Davies

PD Preston

PF Foster

SJ Priestley

BL Gabbitas

MJD Stapleton

DJ Hargreaves

PC Strange

BJ Harker

DJ Tanner

AA Harper

CS Thode

RJ Harris

L Yule

Awards

Supreme Technical Awards for Engineering Achievers

SPONSORED BY OPUS INTERNATIONAL CONSULTANTS

These biennial awards are New Zealand's premier awards for engineering achievement. The awards aim to encourage and recognise those who have demonstrated excellence and leadership in engineering practice over their careers to the benefit of the engineering profession.

FREYSSINET AWARD – BUILDING AND CONSTRUCTION

GC Clifton

ANGUS AWARD – WATER, WASTE AND AMENITIES

GS James

SKELLERUP AWARD – FOOD, BIOPROCESS AND CHEMICAL

P Stephenson

EVAN PARRY AWARD – ENERGY SYSTEMS

JC Gleadow

Turner Award for Professional Commitment

This award acknowledges a demonstrated commitment to the ideals of a self-regulating profession.

AW Thornton

Fulton-Downer Gold Medal – The President's Award

This award acknowledges the achievement of a Member or group of Members who have demonstrated the strength of engineering in its role of public service.

WJ Darnell

Ray Meyer Medal for Excellence in Student Design

SPONSORED BY GHD

This award is for the best design project submitted in the final year of an accredited engineering qualification.

Power Blade Instrumented Kayak Paddle – **Daniel Barry, Kim Hedley, Samuel Horgan** and **Mathew Pottinger** supervised by David Aitchison.

Department of Mechanical Engineering, University of Canterbury.

Members Passing Competence Assessment

Auckland

NA Adams ▪ YR Adhikary ▪ DT Almond ▪ NN Amso ▪ H Anderson ▪ RW Archer ▪ CW Ashby ▪ MJ Ashmore ▪ L Atkinson
▪ JA Austin ▪ LP Austin ▪ KA Azawi ▪ RT Banks ▪ WG Banks ▪ TM Batten ▪ CJ Bauld ▪ D Bavelaar ▪ GB Bean ▪ MB
Bear ▪ GS Bell ▪ NP Bellard ▪ SL Beniston ▪ J Bhatt ▪ SC Bilby ▪ IJ Billings ▪ BA Black ▪ BO Black ▪ JL Black ▪ QL
Blackburn ▪ AS Blackler ▪ PD Blackmore ▪ PR Boardman ▪ SJ Borlase ▪ GJ Boyd ▪ CJ Breen ▪ AC Bremner ▪ G Brkic
▪ BJB Brown ▪ KJ Brown ▪ PR Brown ▪ RAS Brown ▪ AA Browne ▪ GJ Browne ▪ AG Bryce ▪ JK Burden ▪ WR Burnett
▪ JP Burr ▪ TE Butler ▪ KJ Caldwell ▪ DG Campbell ▪ PA Campbell ▪ L Canal ▪ PJ Carroll ▪ DJ Cash ▪ V Chand ▪ CL
Cheah ▪ BJ Chester ▪ GS Chester ▪ AYH Chin ▪ HML Chin ▪ ELP Chong ▪ PYP Chung ▪ DG Clarke ▪ JMW Clarke ▪ LA
Clements ▪ MEE Cobeldick ▪ TJ Cochrane ▪ JJ Coenradi ▪ IP Constable ▪ CM Cooper ▪ MA Corkery ▪ GA Cornelius ▪
MM Coup ▪ DR Coutts ▪ NC Covich ▪ AG Crang ▪ VP Crang ▪ PS Crichton ▪ TG Cripps ▪ SB Crisford ▪ DM Crosswell ▪
RA Cruz ▪ MJ Cryns ▪ SR Cunis ▪ JG Cunningham ▪ GD Cuthbert ▪ AJ Cutts ▪ AAM Daoud ▪ CS D'Arth ▪ DD Davidson
▪ PA Deane ▪ JH Dennett ▪ NR Dhavale ▪ K J Dickson ▪ GR Dillon ▪ MK Dixit ▪ HB Dobson ▪ PD Dodd ▪ PM Dokter ▪
TIC Donald ▪ MF Donaldson ▪ RW Dove ▪ IME Dowling ▪ SD Draper ▪ CBM Duncan ▪ GA Dunn ▪ LJ Eckard ▪ DC Elliott
▪ SA Elwarth ▪ SKW Eratne ▪ TC Euinton ▪ PJ Evans ▪ RM Fallas ▪ PM Farrier ▪ MR Faulkner ▪ MJ Feeney ▪ HDW
Fendall ▪ DAK Fernando ▪ HM Ferner ▪ BDF Fitzgerald ▪ JR Flanagan ▪ J Fogelberg ▪ A Fong ▪ KC Foong ▪ AWF Fourie
▪ RA Frankland ▪ IA Fraser ▪ GE Frost ▪ OK Frost ▪ BS Fry ▪ BV Fulford ▪ TJ Galavazi ▪ NW Gamage ▪ JF Gardiner ▪ RJ
Gardiner ▪ SR Gaskin ▪ ML Gibbs ▪ JA Gibson ▪ KM Gibson ▪ NDS Ginige ▪ RD Gold ▪ PR Goldsmith ▪ K Govindasamy
▪ CJ Graham ▪ JK Graham ▪ TJ Grammer ▪ MJ Grant ▪ ID Greenwood ▪ JM Greenwood ▪ JG Greig ▪ GDC Gunaratne
▪ I Gunawan ▪ RK Gupta ▪ WL Gyde ▪ GJ Hadfield ▪ BTA Halabi ▪ BL Hall ▪ AK Hamilton ▪ MJ Hamilton ▪ PJ Harris
▪ M Hasanbegovic ▪ MR Hawkes ▪ NV Hawkins ▪ MJ Haydon ▪ RM Hedgland ▪ B Hegerty ▪ IT Henty ▪ KJ Hide ▪ P
Hill ▪ LD Hills ▪ DB Hipkins ▪ IC-W Ho ▪ JA Hodges ▪ SD Hogg ▪ CW Holland ▪ PS Holmberg ▪ MSR Hopwood ▪ BM
Horide ▪ LM Hoyle ▪ GA Hughes ▪ CB Hunt ▪ CA Hunter ▪ RJ Hutchison ▪ TJ Irving ▪ CJ Ivory ▪ BA Jackson ▪ LG Jaine
▪ GL James ▪ S M James ▪ SR Jarman ▪ M Jiang ▪ RK Johnson ▪ RW Johnston ▪ BA Jones ▪ BJ Jones ▪ D Jovanovic
▪ AF Joyce ▪ A Karndacharuk ▪ TJ Kayes ▪ RP Kennedy ▪ DA Kettle ▪ A Khan ▪ VJ Khar ▪ TJ Kiddle ▪ RJ Kight ▪ AF
Koay ▪ AP Kortegast ▪ AA Kozlov ▪ MR Kramer ▪ B Kumar ▪ MA Kwok ▪ MD Lake ▪ S Lal ▪ M J Lamont ▪ SG Lander
▪ NW Lea ▪ MJ Leak ▪ RF Legh ▪ DCK Leong ▪ KW Leung ▪ AL Li ▪ XJ Li ▪ LF Ling ▪ DE Londer ▪ GA Loney ▪ SA
Longuet-Higgins ▪ RJ Lorden ▪ JJ Lorentz ▪ PJ Lory ▪ DJ Lucas ▪ RW Mace ▪ AR MacKenzie ▪ CSM Mackenzie ▪ JC
Macredie ▪ GD Maddren ▪ N Mago ▪ CG Mak ▪ RC Mann ▪ CB Manning ▪ PGD Marchant ▪ AL Marino ▪ JG Matthews
▪ LM McDonald ▪ RL McDowall ▪ PJ McFarlane ▪ AB McGregor ▪ RG McGuigan ▪ RJ McIntosh ▪ DJ McKenzie ▪ JJ
McNeil ▪ MW Melville ▪ GJ Merryweather ▪ JF Miller ▪ CR Mills ▪ SR Mitchell ▪ KB Monk ▪ SK Moon ▪ AJ Muir ▪ JC
Muir ▪ HG Munro ▪ TG Munro ▪ ST Murphy ▪ JKI Naddaf ▪ N Nadesananathan ▪ SR Naidu ▪ L Nair ▪ BG Nancekivell ▪
NR Nancekivell ▪ H Narain ▪ J Narsey ▪ GT Naulls ▪ HD Nevile ▪ RG Nevill ▪ MR Newby ▪ CJ Newton ▪ JTK Ng ▪ RU
Nighot ▪ RH Norgrove ▪ WA North ▪ DM Oosterbeek ▪ PH Ouyang ▪ JO Owusu ▪ AJ Palman ▪ KJ Patel ▪ NB Paterson
▪ SH Paton ▪ SL Paton ▪ KD Patrick ▪ RM Pena ▪ RJ Peplow ▪ L Petreski ▪ KB Pettigrew ▪ DJ Phillips ▪ PL Phuah ▪
JE Phythian ▪ BG Piggott ▪ A Pont ▪ JD Potgieter ▪ JS Powell ▪ RM Power ▪ IG Rabbits ▪ GH Radley ▪ PG Radley ▪ H
Rahmanian ▪ AJ Rajwer ▪ TK Ralph ▪ KKN Rana ▪ BRS Ranatunga ▪ WR Raymond ▪ MCB Richardson ▪ DJ Rimmer
▪ A Roa ▪ AM Robak ▪ LA Roberts ▪ BG Robertson ▪ K Robertson ▪ TW Robertson ▪ RC Robinson ▪ P Rooney ▪ CM
Rose ▪ CB Rowe ▪ BP Royce ▪ RP Rutherford ▪ N Sardelic ▪ CB Schipper ▪ CSJ Schorr-kon ▪ RG Search ▪ C Sen ▪ RR
Sharma ▪ LG Shui ▪ ME Siggilekow ▪ A Singh ▪ CB Singh ▪ B Singleton ▪ S Sivashanmuganathan ▪ V Slahora ▪ CAS
Slijo ▪ AW Smith ▪ DC Smith ▪ MA Smith ▪ MH Smith ▪ MGW Smith ▪ CJ Smythe ▪ RO Snow ▪ D Soric ▪ PJM Spies
▪ M Stewart ▪ CJ Stumbles ▪ I Sudarno ▪ MC Sweeney ▪ EHL Tan ▪ DR Tate ▪ NP Tekumalla ▪ BD Telfer ▪ PKH Teo ▪
P Tepsic ▪ J Tetteroo ▪ V Thavarajah ▪ AJ Thompson ▪ CA Thompson ▪ MWJ Thomson ▪ EW Thorn ▪ RD Thurlow ▪ DV
Toan ▪ CJ Tolley ▪ CD Treleaven ▪ MR Triggs ▪ FTF Tsui ▪ RJ Twiname ▪ RF Unka ▪ AR Vaai ▪ FJ Van de Wydeven ▪ GP
van Hoffen ▪ PT Van Schalkwyk ▪ V Vencatachellum ▪ SS Viridi ▪ GL Voysey ▪ V Vukovic ▪ EJ Walden ▪ RM Walsham ▪
RH Watson ▪ MD Webb ▪ JF Weller ▪ GB Williams ▪ JG Williams ▪ PJ Williams ▪ TJ Williams ▪ JW Wilson ▪ AA Wright ▪
GJ Wrightson ▪ LL Yang ▪ CC Yeung

Canterbury

SJ Abley ▪ JT Aramowicz ▪ LM Armitage ▪ TGB Armitage ▪ SG Ashby ▪ CF Bathurst ▪ C Bedford ▪ BD Bisley ▪ RS Blyth ▪ GW Boot ▪ RJ Buchan ▪ DK Bull ▪ RA Butler ▪ MH Byrne ▪ PJ Carter ▪ GW Chalmers ▪ PD Christensen ▪ GF Cleary ▪ BR Clough ▪ MP Connolly ▪ GB Coombes ▪ MWM Cornwall ▪ SK Crawford ▪ GR Culling ▪ D Cusiel ▪ MQ Cusiel ▪ MW Darnell ▪ MC Day ▪ JA De Ruyter ▪ FE Dennis ▪ RA Dewhurst ▪ P Douglas ▪ JP Durdin ▪ MJ Ellis ▪ BA Fairburn ▪ A Fairclough ▪ SL Findlater ▪ MD Fletcher ▪ CJ Forrest ▪ JME Fulton ▪ AP Gallagher ▪ DJ Gardiner ▪ SF Gifford ▪ NR Gillon ▪ ND Glasson ▪ GS Gordon ▪ MA Gordon ▪ S Govind ▪ SW Grave ▪ LD Greenfield ▪ RB Greenwood ▪ MI Grey ▪ HJ Hare ▪ MJ Harris ▪ SD Hartwell ▪ RJ Holyoake ▪ RJ Hothersall ▪ AJC Hurley ▪ EH Hustedt ▪ GD Inglis ▪ GR JasonSmith ▪ MA Keast ▪ RTP Kerr ▪ JA Kirk ▪ RB Knowles ▪ NB Lewis ▪ WR Lewis ▪ WJ Lewthwaite ▪ GA Lovell ▪ AG Macbeth ▪ JR Mackenzie ▪ CJ MacPherson ▪ DW Maples ▪ JB Marshall ▪ IF McCahon ▪ AG McCarthy ▪ KJ McDonnell ▪ MJL Meyer ▪ NB Moon ▪ VM Mthamo ▪ MW Oppenhuis ▪ HM Palliser ▪ S Pang ▪ PJ Paterson ▪ SA Perfect ▪ DJ Pons ▪ CH Price ▪ PB Reilly ▪ F Resl ▪ L Rutherford ▪ GJ Saul ▪ CR Scott ▪ MB Sheppard ▪ HE Simpson ▪ JK Snook ▪ MG Soliman ▪ BL Spence ▪ HW Stevens ▪ RD Sullivan ▪ MR Surman ▪ ND Sutherland ▪ JD Talbot ▪ MH Teape ▪ AE Tyndall ▪ A Van Meer ▪ JA Varcoe ▪ VP Vella-Brincat ▪ RJ Vesey ▪ RJ Vickers ▪ RJ Vivian ▪ JM Walsh ▪ MV White ▪ GM Whyte ▪ GK Wilby ▪ BS Williamson

East Coast

SJ Amor ▪ PD Higgs

Hawke's Bay

E Bahho ▪ NJ Cook ▪ DF Cowlrick ▪ SJ Cox ▪ GD Harrison ▪ RM Hill ▪ AJ Jones ▪ GN Kell ▪ JD Mains ▪ PS McCarten ▪ DJ Parkinson ▪ TJ Pike ▪ KR Rodel ▪ M Whittleston ▪ BH Williams ▪ M Wong ▪ CA Wylie

Manawatu

BH Austin ▪ AS Blain ▪ DJ Bridges ▪ SG Charles ▪ RJ Harris ▪ PS Landmark ▪ MG Martin ▪ SE Pinkney ▪ LJ Robertson ▪ WG Stewart

Nelson /Marlborough

SR Cameron ▪ RJ Carter ▪ D Chung ▪ ML Crundwell ▪ JR Duffy ▪ RV Greaves ▪ DJ King ▪ A Louverdis ▪ BJ Morgan ▪ K O'Rourke ▪ MS Pennington ▪ G Saïdy ▪ MRJ Schruer ▪ SR Sheat ▪ LH Solomon ▪ RW Stronach ▪ JJ Swanney ▪ JF Thorpe ▪ JM Whiunui

Northland

MW Burkhardt Macrae ▪ AH Carvell ▪ RIR Catterall ▪ PJ Cook ▪ BK Cure ▪ GS Gibson ▪ WO Haigh ▪ CD Hanger ▪ MJ Hawthorn ▪ MD Hayes ▪ PJ Houba ▪ LR Jacobson ▪ PG King ▪ VC Kloosterman ▪ CJ Liebert ▪ NJ Marshall ▪ FS Muldowney ▪ DR Scanlen ▪ SM Speight ▪ MB Sullivan ▪ RJ Toplis ▪ S Turner ▪ GH Wood

Otago

JM Benck ▪ TM Bradford ▪ DNH Chinn ▪ JHC Cocks ▪ LM Coe ▪ PM Garrity ▪ GA Holmes ▪ DW Hughes ▪ GH Leonard ▪ GR Logan ▪ JF McCartney ▪ RJ Minnema ▪ PT Mulvihill ▪ KG Norquay ▪ WW Oswald ▪ GN Palmer ▪ SH Parbhu ▪ LM Robinson ▪ BJ Sheehan ▪ IA Stephenson ▪ H Stocker ▪ RB Strong ▪ BR White ▪ BF Whitham ▪ CK Wood

South Canterbury

JL Calleja ▪ RD Donovan ▪ BJ Fauth ▪ AA Harper ▪ BS Lobb ▪ BJ Ward

Taranaki

SP Buick ▪ JJ Chapman ▪ SR Frew ▪ GJ Gilkison ▪ MW Hall ▪ RT Kernot ▪ GH Lindup ▪ JR Sutton ▪ BK Walker ▪ JL Wallace ▪ A Woodger

Tauranga

MJ Apeldoorn ▪ RG Arnold ▪ PD Askey ▪ N Band ▪ AN Bickers ▪ RJ Britton ▪ SDW Burton ▪ DM Campbell ▪ AJ Carmichael ▪ WG Cassidy ▪ MR Christeller ▪ PWR Clark ▪ RL Forbes ▪ RG Gillard ▪ FG Henderson ▪ BL Jackson ▪ RS James ▪ GL Jelly ▪ PA Johnstone ▪ RK Johnstone ▪ CA Manssen ▪ D Marriott ▪ NJ Mason ▪ PE Mathers ▪ DT McDougall ▪ KR Mooney ▪ MT O'Brien ▪ BI Pearson ▪ NE Raynor ▪ WA Robbins ▪ JW Scott ▪ HB Severinsen ▪ RP Shelton ▪ MSP Tapper ▪ LM Taylor ▪ JM Wilton ▪ DR Young

Southland

MS Allan ▪ KD Anderson ▪ RC Barlow ▪ GW Coles ▪ DC Kensington ▪ JP Laskewitz ▪ GD McMillan ▪ RJ Paterson ▪ DP Schwass ▪ ID Sutherland ▪ JPJ Turnbull ▪ DP Adamson ▪ QJA Alani

Waikato Bay of Plenty

PD Armstrong ▪ RG Bell ▪ MJ Bloxam ▪ BF Boulton ▪ DA Bouma ▪ KH Bowkett ▪ SI Bready ▪ WJE Clarke ▪ DC Clibbery ▪ MB Conlon ▪ JD Crawford ▪ JM Crawford ▪ GD Crook ▪ BJ Currie ▪ JT Dale ▪ FA Davies ▪ NJ Edger ▪ PD Ewart ▪ SI Finer ▪ JS Finlan ▪ PL Gellatly ▪ L Goddard ▪ IA Gooden ▪ ADA Gray ▪ RAM Gray ▪ LB Green ▪ BA Hayes ▪ DA Herrmann ▪ S Ilanko ▪ V Krishnasamy ▪ AP Lambert ▪ OKG Lang ▪ WA Maritz ▪ JRG Marsden ▪ IR Matthew ▪ BJ McDowall ▪ KD McKenzie ▪ JP Meintjes ▪ MP Meister ▪ CJ Meyer ▪ D Nair ▪ TB Norriss ▪ DJ Packer ▪ ARL Park ▪ DG Proctor ▪ BM Quilter ▪ KJ Read ▪ RW Roberts ▪ PA Rodgers ▪ JJ Schaap ▪ JP Schirnack ▪ DL Scott ▪ RC Swears ▪ MS Tarnowski ▪ PGL van Blerk ▪ BW Vaughan ▪ RN Walker ▪ ED Willson ▪ GRC Wilson ▪ KE Wronski ▪ A Bell ▪ AM Bloomer ▪ NJ Chisnall ▪ BW Cuff ▪ PD Dine ▪ RJ Fisher ▪ PFR Fitchett ▪ GP Manzano ▪ CJ Morris ▪ H Pearson ▪ IA Rademakers ▪ PN Richardson ▪ PV Rogers ▪ DH Smith ▪ AJ Snyman ▪ M Thrush ▪ BC Walshe ▪ GL White

Wanganui

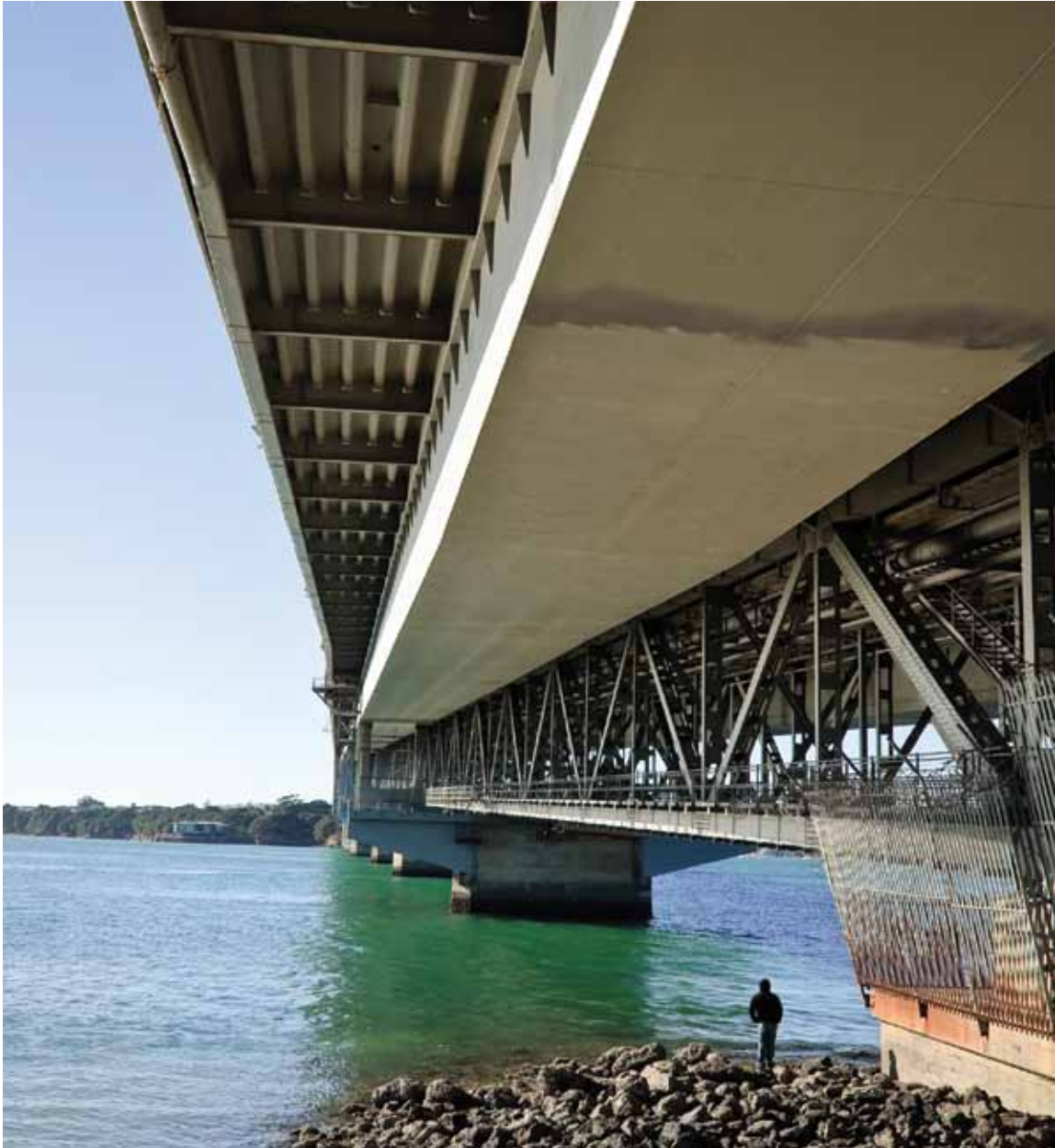
RP Calder ▪ VFS Fonseka ▪ J Hartley-West ▪ IW Johnson ▪ SJ Mackintosh ▪ PJ O'Connor

Wellington

H Adam ▪ HS Adam ▪ PR Addison ▪ PK Alkema ▪ PD Amos ▪ MJ Amptmeyer ▪ L Anderson ▪ GC Archer ▪ CV Ashby ▪ D Atapattu ▪ PA Bailey ▪ GJ Ballinger ▪ WJ Barclay ▪ NJ Barneveld ▪ RJM Barraclough ▪ DJ Beachen ▪ TB Bialoruski ▪ MR Bismark ▪ FN Blackwell ▪ RP Blakemore ▪ RT Boddy ▪ JK Bothara ▪ PD Brimer ▪ MS Brown ▪ DR Brunson ▪ D Butel ▪ PL Campbell ▪ MD Capon ▪ MP Carr ▪ MC Cathie ▪ AG Cattanach ▪ S Chakravorty ▪ WDC Clark ▪ AC Cleland ▪ NA Climo ▪ PS Cole ▪ MK Cooper ▪ AJ Coulman ▪ RN Croad ▪ JA Culliford ▪ JDD Cuthbert ▪ RA Davey ▪ RJ Davidge ▪ CH De Ruiter ▪ RJ Derks ▪ JW Devine ▪ GK Doherty ▪ K Doherty ▪ EJ Dumbleton ▪ AG Duncan ▪ LG Edwards ▪ GM Evans ▪ JO Eyles ▪ JF Finnegan ▪ MMC Flannery ▪ PF Foster ▪ DJ Fraser ▪ PW Gaby ▪ RS Galloway ▪ IJ Garrett ▪ MG Georgeson ▪ WL Glendenning ▪ JR Greenfield ▪ A Gulab ▪ B Harach ▪ PG Harward ▪ DC Headifen ▪ JG Hickey ▪ JB Hill ▪ V Hirsch ▪ BJH Holland ▪ GJ Hughson ▪ IVW Hunt ▪ DL Hutchison ▪ KDJ Irwin ▪ S Jayanatha ▪ DN Jennings ▪ K Johnstone ▪ NA Johnstone ▪ NJ Keenan ▪ PD Keller ▪ SJ Kelly ▪ AR Keogh ▪ Y Kumar ▪ CLC Law ▪ SJ Lee ▪ GVM Lees ▪ TJ Lees-Baker ▪ RS Mangar ▪ GJ Marshall ▪ DJ Martin ▪ IJ Martin ▪ ID Matthews ▪ AJ McMaster ▪ JR McPherson ▪ PJ McQueen ▪ MM Meyers ▪ LF Meys ▪ JR Milburn ▪ SM Miller ▪ A Moraes ▪ BR Newton ▪ D Novakov ▪ SG Odell ▪ MA Odey ▪ BE O'Hagan ▪ JJ O'Hagan ▪ LJ O'Leary ▪ PM Ollivier ▪ FJ O'Riley ▪ RJT Park ▪ RN Patton ▪ AJ Pickford ▪ CR Pine ▪ MA Pop ▪ JH Pott ▪ IR Powlesland ▪ MA Prasad ▪ RA Presland ▪ E Rafferty ▪ D Robertson ▪ CM Sanders ▪ M Shafi ▪ TW Shears ▪ JD Shipman ▪ GK Sidwell ▪ GR Silcock ▪ RJ Simpson ▪ CR Smart ▪ DBM Smith ▪ PC Smith ▪ CM Stanley ▪ DR Statham ▪ BP Stephenson ▪ DL Stewart ▪ DJ Strang ▪ WP Studd ▪ JR Sullivan ▪ EM Sutton ▪ B Symmans ▪ IW Tisch ▪ TSB Toh ▪ LM Tucker ▪ F Vaino ▪ AM van Staden ▪ GF Wabnitz ▪ GI Wallace ▪ MG Webby ▪ B Weinstein ▪ CG Welling ▪ SM Wilkie ▪ DP Wilson ▪ R Wilson ▪ NE Wood ▪ TM Wood ▪ PMF Yong

West Coast

SC Challenger ▪ JR Davidson ▪ MO Healey ▪ NO Higgs ▪ DW McNulty ▪ MJ McSherry ▪ A Suchanski ▪ MD Sutherland



Overseas

ND Agnew ▪ KMA Al-Sayegh ▪ DP Andrews ▪ FP Arconado ▪ MR Arthur ▪ KF Atkinson ▪ P Balley ▪ DA Bigwood ▪ DG Blackstock ▪ DL Bridgman ▪ PW Burgess ▪ MJ Burt ▪ PR Cannons ▪ SG Cairney ▪ ER Chadfield ▪ DH Chisholm ▪ KRM Coleman ▪ PT Consedine ▪ SA Crawford ▪ GJS De Leeuw ▪ CJ Dissanayake ▪ KG Drinkrow ▪ ML Eliassen ▪ AJ England ▪ RE English ▪ S Farjo ▪ IG Fenemore ▪ GR Feringa ▪ EA Fisk ▪ AD Fleming ▪ KJ Fox ▪ JRH Fulton ▪ VR Furniss ▪ FLS Galloway ▪ TE Gilbertson ▪ ID Gray ▪ V Grkovic ▪ DJ Hamilton ▪ I Hammer ▪ CJ Hargreaves ▪ CJ Harrison ▪ SD Hattersley ▪ L Henderson ▪ AM Henricksen ▪ PB Herd ▪ MII Khodabocus ▪ AF Ling ▪ CE Littlefair ▪ SL Loo ▪ MJ Lowe ▪ AS MacPherson ▪ KS Malik ▪ SKJ Man ▪ JJ Marchant ▪ JR Matthews ▪ M Maylin ▪ DK McBride ▪ PC McClean ▪ M J McDonald ▪ DM McGuigan ▪ TD McLeod ▪ SJ McSweeney ▪ MY Melaku ▪ JR Meldrum ▪ VM Meyer ▪ KA Middleton ▪ TR Milliken ▪ KE Moody ▪ GJ Morgan ▪ SK Nagpal ▪ HR Netterville ▪ B O'Connor ▪ CA O'Sullivan ▪ LB Pasley ▪ S Patel ▪ JW Plutecki ▪ GB Porteous ▪ B Purkayastha ▪ S Raman ▪ J Reddish ▪ CE Rickard ▪ MS Robinson ▪ DC Russell ▪ NJ Ryan ▪ S Shanmuganathan ▪ RJ Showers ▪ NJ Smyth ▪ A Soh ▪ GM Spencer ▪ BJ Steel ▪ JH Suarez Sierra ▪ GM Taylor ▪ MR Thomas ▪ MR Vanamisetty ▪ KS Wang ▪ JW Watson ▪ RA Wharfe ▪ SP Willis ▪ PR Woodmansey ▪ GD Young ▪ AR Zaytoun ▪

Recognition of Service

Elected Life Members (48 years service)

GJ Ade MIPENZ ▪ PJ Andrell ▪ PG Armstrong MIPENZ ▪ BR Arthur MIPENZ ▪ LD Bedford MIPENZ ▪ RJ Blackman MIPENZ ▪ JP Blakeley DistFIPENZ ▪ JW Blyth MIPENZ ▪ AC Bremner MIPENZ ▪ TJ Browne MIPENZ ▪ RE Burdett MIPENZ ▪ EJ Burt MIPENZ ▪ BJ Butcher DistFIPENZ ▪ JD Butler MIPENZ ▪ GH Caddie MIPENZ ▪ DGH Cooper MIPENZ ▪ RM Dickie FIPENZ ▪ GL Dickson FIPENZ ▪ JH Dowell FIPENZ ▪ DJ Dowrick FIPENZ ▪ WG Draper FIPENZ ▪ AJ England MIPENZ ▪ LK Falkner MIPENZ ▪ RB Fisher MIPENZ ▪ DM Graham MIPENZ ▪ GC Gregg MIPENZ ▪ IM Grierson FIPENZ ▪ IW Gunn FIPENZ ▪ RG Hanson GIPENZ ▪ WG Hetherington FIPENZ ▪ RF Hill FIPENZ ▪ GD Honey MIPENZ ▪ A Howarth MIPENZ ▪ IC Hunter MIPENZ ▪ KG Hyland FIPENZ ▪ DH Inch FIPENZ ▪ MDS Jarvis FIPENZ ▪ PL Jenkins MIPENZ ▪ WI Jones FIPENZ ▪ TD Kelly MIPENZ ▪ P Koutsos FIPENZ ▪ JC Lake MIPENZ ▪ AJW Lamb FIPENZ ▪ AR Lanning MIPENZ ▪ GA Leggat FIPENZ ▪ GK Lovatt MIPENZ ▪ RD Mander MIPENZ ▪ FH McIntyre MIPENZ ▪ HB McKenzie MIPENZ ▪ DCN McLaren MIPENZ ▪ WS McPhee MIPENZ ▪ GT McPherson FIPENZ ▪ NR Melhop MIPENZ ▪ JH Miller MIPENZ ▪ TN Mitchell MIPENZ ▪ RJ Moore MIPENZ ▪ CB Morison MIPENZ ▪ AR Morton MIPENZ ▪ BJ Murphy FIPENZ ▪ MT O'Brien MIPENZ ▪ BWJ Pannett FIPENZ ▪ BL Patrick FIPENZ ▪ KC Pirie MIPENZ ▪ RF Power MIPENZ ▪ GW Press FIPENZ ▪ JM Raine MIPENZ ▪ JM Rhodes MIPENZ ▪ GK Roberts MIPENZ ▪ RS Ryan FIPENZ ▪ EA Scanlen MIPENZ ▪ BH Scott MIPENZ ▪ WJ Sheppard FIPENZ ▪ MJA Sheppard MIPENZ ▪ DH Sim FIPENZ ▪ RW Smith FIPENZ ▪ IC Smith FIPENZ ▪ LJ Soffe MIPENZ ▪ PR Stanford MIPENZ ▪ FC Stewart MIPENZ ▪ ID Stewart MIPENZ ▪ HD Stuart MIPENZ ▪ PJ Sukolski MIPENZ ▪ WR Thessman FIPENZ ▪ RM Thompson MIPENZ ▪ HR Thorpe FIPENZ ▪ DG Tierney FIPENZ ▪ MJ Timmins FIPENZ ▪ AA Todd MIPENZ ▪ PG Tregurtha MIPENZ ▪ AE Tyndall FIPENZ ▪ RAE Upston MIPENZ ▪ JD Van Ommering MIPENZ ▪ LK Wilden MIPENZ ▪ JG Wilson MIPENZ ▪ IR Wood FIPENZ ▪ MJB Worseldine FIPENZ

Obituaries

AL Andrews FIPENZ ▪ AJ Bartlett ComplIPENZ ▪ PA Burdett MIPENZ ▪ JC Broad MIPENZ ▪ GE Bonny MIPENZ ▪ GI Brown MIPENZ ▪ DJ Carroll FIPENZ ▪ P Drury MIPENZ ▪ JW Elliott FIPENZ ▪ AL Farrow MIPENZ ▪ NW Fleck AIPENZ ▪ OP Franklin MIPENZ ▪ EW Graham MIPENZ ▪ JA Hadley MIPENZ ▪ EW Heine FIPENZ ▪ DJ Higgins MIPENZ ▪ GH Hall MIPENZ ▪ K Jones MIPENZ ▪ DJ Logan FIPENZ ▪ MR Milne MIPENZ ▪ JL Mills MIPENZ ▪ IL Malcolm FIPENZ ▪ AJ McDonald MIPENZ ▪ RS McDermott GIPENZ ▪ T Paulay DistFIPENZ ▪ PB Priest FIPENZ ▪ DC Ryan MIPENZ ▪ CM Strachan FIPENZ ▪ H Semke FIPENZ ▪ W Soong MIPENZ ▪ DF Symon MIPENZ ▪ DH Thompson MIPENZ ▪ JB Toomath FIPENZ ▪ JL Vickerman FIPENZ ▪ J Ward MIPENZ ▪ PF Clifton FIPENZ ▪ IM Lang MIPENZ ▪ IB Pasgaard MIPENZ



Financial Statements



To the Members of the Institution of Professional Engineers New Zealand Incorporated

We have audited the summary financial report of the Institution for the year ended 30 September 2009.

Responsibilities of the Board and Auditor

The Board is responsible for the preparation of a summary financial report in accordance with generally accepted accounting practice in accordance with New Zealand Financial Reporting Standards. It is our responsibility to express to you an independent opinion on the financial report presented by the Board.

Basis of Opinion

Our audit was conducted in accordance with New Zealand Auditing Standards and involved carrying out procedures to ensure the summary financial report is consistent with the full financial report on which the summary report is based. We also evaluated the overall adequacy of the presentation of information in the summary financial report against the requirements of FRS-43: *Summary Financial Statements*.

Other than in our capacity as auditors of the Institution, we have no relationships with or interests in the Institution.

Unqualified Opinion

In our opinion, the information reported in the summary financial report complies with FRS-43: *Summary Financial Statements* and is consistent with the full financial report from which it is derived and upon which we expressed an unqualified opinion in our report to the readers dated 26 November 2009.

We completed our work for the purposes of this report on 26 November 2009.

A handwritten signature in black ink that reads "Grant Thornton".

Grant Thornton
Wellington
26 November 2009

Institution of Professional Engineers New Zealand (Inc)

SUMMARY STATEMENT OF FINANCIAL PERFORMANCE FOR THE YEAR ENDED 30 SEPTEMBER 2009

	2009	2008
	\$	\$
Operating Revenue		
Member Subscriptions and Related Fees	2,926,784	2,818,243
Sponsorship, Advertising and Sales	400,668	589,556
Competency Assessment, Registration and Training	1,374,191	974,608
Education Related Contracts	2,143,191	1,948,596
International Engineering Agreements Secretariat	156,729	164,494
Interest, Rental and Sundry	667,134	725,724
Technical and Special Interest Group Income	934,120	1,149,708
Total Operating Revenue	8,602,817	8,370,929
Less Operating Expenses		
Branch Expenses	178,677	156,021
Competency Assessments and Training	627,160	388,371
Education Related Contracts	630,812	461,944
Travel and Events	600,463	607,100
Other Expenses	1,315,742	1,211,269
Publication and Printing	651,808	592,046
Salaries	3,617,439	3,451,538
Technical and Special Interest Group Expenses	899,748	969,693
Total Operating Expenses	8,521,849	7,837,982
Operating Surplus	80,968	532,947
Less IPENZ Branch Funds Donated to the IPENZ Foundation	-	-
Plus Surplus on Futureintech Contract	-	-
Net Surplus for the Year	80,968	532,947

SUMMARY STATEMENT OF MOVEMENTS IN MEMBERS' FUNDS FOR THE YEAR ENDED 30 SEPTEMBER 2009

Opening Balances and Net Surplus for the Year:		
IPENZ National Office	3,488,908	3,150,548
IPENZ Centenary Reserve	250,000	150,000
Futureintech Continuation Reserve	737,923	823,354
Technical and Special Interest Groups	1,003,259	823,242
	5,480,090	4,947,144
Add Net Surplus for the Year Attributable to the:		
IPENZ National Office	149,579	338,360
IPENZ Centenary Reserve	-	100,000
Futureintech Continuation Reserve	(103,000)	(85,431)
Technical and Special Interest Groups	34,389	180,017
	80,968	532,946
Total Members Funds	5,561,058	5,480,090

SUMMARY STATEMENT OF FINANCIAL POSITION FOR THE YEAR ENDED 30 SEPTEMBER 2009

Current Assets		
Westpac Bank and IEA Euro Account	3,299,293	2,450,259
Restricted Funds	1,990,067	2,003,380
Accounts and GST Receivable and Prepaid Expenses	905,068	678,726
Total Current Assets	6,194,428	5,132,365
Non Current Assets		
Westpac Long Term Investments and Fixed Assets	2,525,422	3,554,032
Total Assets	8,719,850	8,686,397
Less Current Liabilities		
Accounts Payable and Other Accruals	967,752	879,791
Income Received in Advance	979,459	1,176,931
IPENZ Foundation	77,341	104,786
Collaborating Technical Societies' Funds	1,134,240	1,044,799
Total Current Liabilities	3,158,792	3,206,307
Net Assets	5,561,058	5,480,090
Represented By: Members Funds	5,561,058	5,480,090

SUMMARY STATEMENT OF CASH FLOWS FOR THE YEAR ENDED 30 SEPTEMBER 2009

Cash Flow from Operating Activities		
Cash was provided from:	8,281,074	7,966,962
Cash was disbursed to:	8,211,026	7,602,861
Net Cash Flow from Operating Activities	70,048	364,101
Cash Flow Applied to Investing Activities	808,516	(3,295,713)
Net Increase in Cash Held	878,564	(2,931,612)
Add Cash and Short Term Deposits at the start of the Year	3,196,806	6,128,418
Cash and Short Term Deposits at year end, represented by Westpac Bank	4,075,370	3,196,806

NOTES TO THE SUMMARY FINANCIAL STATEMENTS FOR THE YEAR ENDED 30 SEPTEMBER 2009

The summary financial statements have been extracted from the full financial statements for the reporting entity, The Institution of Professional Engineers New Zealand Incorporated (the Institution). The Institution is incorporated under Incorporated Societies Act 1908. The full financial statements have been prepared in accordance with generally accepted accounting principles, in accordance with New Zealand Financial Reporting Standards.

The summary financial statements can not be expected to provide as complete an understanding as provided in the full financial statements. The full financial statements, including the summary financial statements, were authorised by the IPENZ Board on the 26 November 2009 and signed by the President and the Chief Executive and have been subject to audit and an unqualified audit report was issued on 26 November 2009. The full financial statements are available for viewing or downloading at www.ipenz.org.nz.

There were no contingent liabilities at balance date and there are no post-balance-date events that need to be disclosed. There has been no change in accounting policies.

Technical and Special Interest Groups (TIGs and SIGs): The activities of the (non-incorporated) TIGs and the related revenue and expenditure are recorded in the Statement of Financial Performance with any surplus or deficit being transferred to the TIGs funds in the Statement of Financial Position.

Restricted Bank Funds are bank accounts controlled by the IPENZ Foundation Trustees, Technical and Special Interest Group Committees and Collaborating Technical Society Committees.

Revenue recognition: Subscription income is recognised on a received basis as payment is voluntary.

International Engineering Secretariat Agreement: Effective from 1 July 2007 the Institution was appointed by the IEA Governing Group to provide secretariat services to the consortium of international engineering agreements for an annual fee of €75,000.

Related Party: IPENZ Foundation was registered as a charitable entity under the Charities Act 2005 on 30 June 2008. The Institution provides accounting and administration services to the Foundation. Restricted funds – Westpac Short Term Investments \$70,000 and current account with IPENZ \$7,341. There are no other related party transactions.

Fixed Assets	2009	2008
Computer Equipment and Software	263,223	257,316
Office Equipment	10,873	11,172
Furniture and Fittings	91,981	97,417
Leasehold Improvements – 158 The Terrace	159,345	188,127
Total Book Value	525,422	554,032
Technical and Special Interest Groups		
Restricted Funds – Westpac Short Term Investments	895,000	900,000
Current Accounts with IPENZ	231,224	184,677
Total Technical and Special Interest Groups	1,126,224	1,084,677
Plus Prepaid Expenses TIGs and SIGs	38,677	102,090
Less Income in Advance TIGs and SIGs	(127,253)	(183,508)
Totals	1,037,648	1,003,259
Collaborating Technical Societies		
Restricted Funds – Westpac Short Term Investments and Bank Funds	1,025,067	1,013,380
Current Accounts with IPENZ	109,173	31,419
Total Collaborating Technical Societies	1,134,240	1,044,799

Futureintech Continuation Reserve: The \$634,920 in this reserve represents the surplus of \$823,354 at 30 September 2007 less a drawdown of \$85,434 for the year ending 30 September 2008 and a further drawdown of \$103,000 for the year ending 30 September 2009.



Grant Thornton

To the Members of the IPENZ Foundation

We have audited the summary financial report of the Foundation for the year ended 30 September 2009.

Responsibilities of the Trustees and Auditor

The Trustees are responsible for the preparation of a summary financial report in accordance with generally accepted accounting practice in accordance with New Zealand Financial Reporting Standards. It is our responsibility to express to you an independent opinion on the financial report presented by the Trustees.

Basis of Opinion

Our audit was conducted in accordance with New Zealand Auditing Standards and involved carrying out procedures to ensure the summary financial report is consistent with the full financial report on which the summary report is based. We also evaluated the overall adequacy of the presentation of information in the summary financial report against the requirements of FRS-43: *Summary Financial Statements*.

Other than in our capacity as auditors of the Foundation, we have no relationships with or interests in the Foundation.

Unqualified Opinion

In our opinion, the information reported in the summary financial report complies with FRS-43: *Summary Financial Statements* and is consistent with the full financial report from which it is derived and upon which we expressed an unqualified opinion in our report to the readers dated 26 November 2009.

We completed our work for the purposes of this report on 26 November 2009.

Grant Thornton
Wellington
26 November 2009

IPENZ Foundation

SUMMARY STATEMENT OF FINANCIAL PERFORMANCE FOR THE YEAR ENDED 30 SEPTEMBER 2009		
	2009	2008
	\$	\$
Income		
Dividends & Interest Received - Net of Management Fees	44,488	56,825
Realised & Unrealised Investment Gains (Losses)	(15,217)	(102,969)
Donations & Sundry	14,262	19,922
Total Operating Income	43,533	(26,222)
Expenditure		
Scholarships and Branch Scholarships	27,596	48,500
Benevolent Payment	1,000	3,000
Sponsorship	18,345	941
Sundry Expenses	17,627	22,860
Total Expenditure	64,568	75,301
Net Income before Donations from IPENZ Branches	(21,035)	(101,523)
Plus Donations from IPENZ Branches	-	-
Net Income	(21,035)	(101,523)

SUMMARY STATEMENT OF MOVEMENTS IN EQUITY FOR THE YEAR ENDED 30 SEPTEMBER 2009		
Opening Balance	808,240	909,763
Plus Net Income	21,035	(101,523)
Total Equity	787,205	808,240

SUMMARY STATEMENT OF FINANCIAL POSITION AS AT 30 SEPTEMBER 2009		
Current Assets		
Cash and Bank	133,578	130,231
Investments	-	90,631
Other Receivables and Prepaid Expenses	10,661	32,336
Total Current Assets	144,239	253,198
Non Current Assets	646,241	557,792
Total Assets	790,480	810,990
Less Current Liabilities	3,275	2,750
Net Assets	787,205	808,240
Represented By:		
Accumulated Funds	633,402	661,841
Branch Funds Reserve	153,803	146,399
Total Equity	787,205	808,240

DISCLOSURES

The summary financial statements have been extracted from the full financial statements for the reporting entity, IPENZ Foundation. The Foundation's full financial statements have been prepared in accordance with generally accepted accounting principles, in accordance with New Zealand Financial Reporting Standards.

The IPENZ Foundation financial statements including the summary financial statements were authorised by the Foundation Trustees on 26 November 2009 and have been subject to audit and an unqualified audit report was issued on 26 November 2009.

IPENZ Foundation was registered as a charitable entity under the Charities Act 2005 on 30 June 2008.

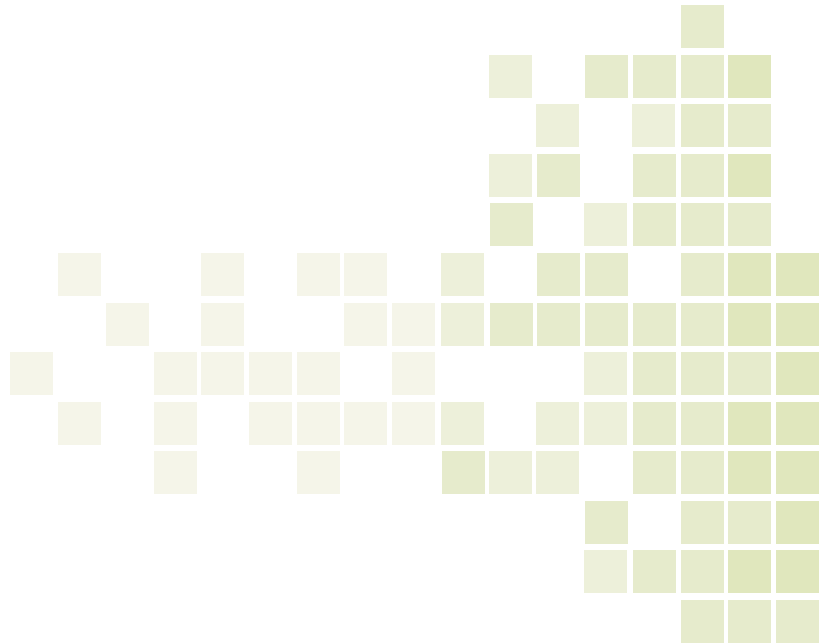
Related Party: The Institution of Professional Engineers New Zealand Inc (the Institution) provides accounting and administration services to the Foundation. There were no other related party transactions during the year ended 30 September 2009.

There were no contingent liabilities at balance date and there are no post-balance date events that need to be disclosed. There has been no changes to the accounting policies.

The summary financial statements cannot be expected to provide as complete an understanding as provided in the full financial statements. The full financial statements for IPENZ Foundation are available for viewing or downloading at www.ipenz.org.nz

2009 IPENZ Sponsors and Supporters

- Bayview Chateau Tongariro
- Beca Group
- Department of Building and Housing
- GHD Ltd
- Heritage Hotel Management Ltd
- Industrial Research Ltd
- New Zealand Utilities Advisory Group
- IPENZ Foundation
- New Zealand Transport Agency
- KiwiRail
- Opus International Consultants Ltd
- Road Controlling Authorities Forum
- Rob Law Maxrecruitment Ltd
- Schneider Electric Ltd
- Standards New Zealand
- Transpower New Zealand Ltd
- Watercare Services Ltd
- Meridian Energy Ltd
- AECOM
- Energy Efficiency and Conservation Authority (EECA)



Futureintech Partners

Promoting careers in technology, engineering and science within schools is the key to the future success of New Zealand's industries and to achieving real economic growth. To bring these career options alive, Futureintech depends on the partnership it forges with technology-based organisations. The importance of this work is reflected in the wide range of organisations who have volunteered the time and support of their staff since Futureintech started in 2003. A full list can be found on the Futureintech web site, www.futureintech.org.nz/partners.cfm

IPENZ gratefully acknowledges the ongoing support of its sponsors and supporters.

