

## Chairman's Message

The Foundation is now well established with a team of excellent Trustees to guide and promote the engineering profession to the public, including students who wish to study engineering. We are well supported by funds previously accumulated and by charitable donations from engineers and people supporting engineering. If you want to make a donation to the Foundation use the enclosed form or tick the box on the IPENZ subscription form.

We have helped to promote a number of projects during the year, from the William Pickering Award at the New Zealand Engineering Excellence Awards to student scholarships and plaques for heritage identification. I would like to see a wider range of projects and invite Branches and Groups to put forward ideas and work co-jointly with the Foundation on new projects.

We are pleased that we have had no applications for benevolent support from engineers in need. Part of our charter is to help those engineers in need, but it is pleasing that there seem to be few such cases at present.

The Trustees have met regularly during the year to develop plans for the future and implement current projects. Some Trustees will retire this year to ensure good succession planning and their work is appreciated. We have also been fortunate in the level of support from IPENZ staff in organising our meetings and acting as our Executive Officer.

We look forward to expanding the Foundation's role and projects, as well as welcoming the new guard of Trustees. We thank the current Trustees for their work in the early running of the Foundation.

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
- **to encourage** New Zealand school leavers into tertiary education in the fields of engineering and technology
- **to educate** New Zealanders on significant engineering and technological achievements



which form part of New Zealand's national heritage

- **to further**, in New Zealand, the development and practical application of scientific knowledge in engineering or technology for the wider public good
- **to 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
- **to promote** the relief of poverty among Members or Members' dependents arising from a Member's age, physical or mental sickness, disability or incapacity, or death of the Member

### John Cunningham

IPENZ Foundation Chairman

**Do you have ideas for projects we could consider which promote engineering as a profession?**

Please contact our Executive Officer – see contact details on page four.

## IPENZ Foundation Scholarships

If New Zealand is to prosper then it is important that the brightest of today's school leavers are keen to be part of the wealth-creating engineering profession. Recent efforts to attract more brilliant young minds into the profession are paying dividends. This year's IPENZ Foundation Scholarship applications showed a marked increase in the number of very high calibre candidates. They possessed excellent academic records and also impressive sporting, cultural and community achievements.

One of the key objectives of the IPENZ Foundation is "To encourage New Zealand school leavers into tertiary education in the fields of engineering and technology". For the last three years the Foundation, with support from some IPENZ Branches, has offered two scholarships to school leavers enrolling in an IPENZ-approved engineering degree course, rewarding the winners with \$5,000 towards their first year's tuition fees.

Up until this year selecting the successful applicants has been a straightforward process with the judges being able to arrive at a conclusion reasonably quickly. This year, however, was dramatically different. The applications numbered over 40 and more than half of these were potential winners. The selection process had to move to a whole new level.

The Judges found it impossible to select just two winners this year. The IPENZ Foundation decided to award three more "special" scholarships of \$2,500 each, bringing the total number of scholarships awarded this year up to five.



### Claire Oliver

Winner of the IPENZ Foundation Manawatu Scholarship

*"Engineering will allow me to extend my interests in science into practical applications. For me, I realised that the 'laboratory sciences' were never going to be a satisfying career option. I am far too interested in helping people."*



### Ellie Seaver

Winner of the IPENZ Foundation Taranaki Scholarship

*"I have always enjoyed mathematics and physics as well as practical problem solving; engineering provides endless challenges in these areas. There are so many opportunities for engineers."*



### Alicia Evans

Special IPENZ Foundation Scholarship Winner

*"Individuals aspire to make a difference in the world. Engineering is the epitome of creating a result that matters. I see engineering as enabling me to do something beneficial by way of what I like to do most."*



### Gareth Bayley

Special IPENZ Foundation Scholarship Winner

*"Being a professional engineer requires a high level of skill, vision, commitment, determination and of course hard work. Your efforts are tangible and a great deal of personal satisfaction can result from the completion of a project."*



### Michael O'Malley

Special IPENZ Foundation Scholarship Winner

*"Engineering can provide a good lifestyle, and relative to other professions such as medicine, offers many opportunities and variety early on in your career."*

---

## Update on the 2005 Scholarship Recipients

### Matthew Hawkins

Matthew gained direct entry to the first professional year of his degree at the University of Auckland. He should complete his degree in mechanical engineering in three years instead of the usual four, and has achieved an A- grade average so far. Matthew has completed over 500 practical workshop hours at Wallace Heron Limited in Pukekohe to get a wide range of experience in manufacturing processes.

A highlight has been his group's second placing in an engineering design competition where the challenge was to design a rubber band-powered car. Matthew says that learning CAD software has probably been his favourite element of the course so far.

This year, Matthew joined the university formula SAE racing team and learned about composites manufacturing as a part of "team chassis/aerodynamics".

### Benjamin Drake

Benjamin was also offered direct entry to the first professional year at the University of Canterbury. Instead, he chose to enrol in a modified intermediate year so he could take papers in interest areas such as psychology. He obtained a grade point average of 8.6 out of 9 (an A average).

In 2006 Benjamin began his first professional year in civil engineering. He has thoroughly enjoyed his papers – and found them much more applied and interesting than the general papers included in the engineering intermediate year.

Benjamin returned to his hall of residence for a second year in 2006 and was awarded a student leadership position. This has complemented the University of Canterbury Emerging Leaders' Scholarship he received in 2005 for academic achievement, leadership potential and sporting/cultural involvement.

## New Zealand Engineering Excellence Awards

The New Zealand Engineering Excellence Awards is an annual event supported by the engineering profession as a whole. The awards are intended to bring to the attention of the wider community the key roles that engineers and their organisations have played in addressing national goals through innovation, entrepreneurship and development of infrastructure that meets community needs.

The IPENZ Foundation sponsored two awards in 2006: the William Pickering Award for Engineering Leadership and the Award for Excellence in Engineering Journalism.



Leadership winner Laurence Zwimpfer (centre) with Prime Minister Helen Clark and IPENZ Foundation Chairman John Cunningham

### William Pickering Award for Engineering Leadership

Sir William Pickering was one of the world's most eminent engineers and the inaugural patron of the IPENZ Foundation. His engineering achievements as the Director of the United States Jet Propulsion Laboratory have been documented extensively, but he was also a significant leader in the engineering community.

The William Pickering Award for Engineering Leadership recognises an engineer who has demonstrated outstanding leadership, and is a role model for other engineers.

Judging is according to the following criteria:

- development of his/her career to achieve leadership positions
- demonstrated ability to develop, articulate and implement visionary change benefiting New Zealand
- contribution to professional, community or other activities outside employment
- peer and wider recognition in relevant communities
- demonstration of high standards of ethical and personal behaviour

- commitment and contribution to the development of others, especially young people

This year, the award was presented to Laurence Zwimpfer MIPENZ. Laurence's career began with the New Zealand Post Office and a cadetship in Coventry, United Kingdom. As Business Futures Manager, Laurence led the marketing team that split telecommunications (Telecom) away from New Zealand Post. He is now a consultant specialising in education technologies and learning networks. He is also a commissioner with the National Commission for UNESCO.



Journalism winner Hannah Sperber (centre) with Phil Heatley MP and IPENZ Foundation Trustee Carolyn Thomas-Lewis

### Award for Excellence in Engineering Journalism

The Excellence in Engineering Journalism Award is open to media professionals who have improved public understanding of the role of engineering in society through positive, fair and accurate writing. The \$5,000 prize is restricted to writers for the print media, radio and television.

Hannah Sperber won this year's Award for Excellence in Engineering Journalism for her article "A Small World: Nanotechnology" which appeared in *North & South* magazine.

Hannah's article explored the emerging field of nanotechnology, which enables scientists and engineers to build things smaller and stronger than ever before but also raises the ethical dilemmas of developing technology.

Hannah's article was informative and balanced, exploring the nature of nanotechnology, its benefits and dangers, and dispelling some of the myths. The judges felt that Hannah's article was a superb contribution to improving public knowledge about nanotechnology.

---

## Financial Situation

For the 12 months ended 30 September 2006 the IPENZ Foundation had an annual income of \$74,377 and expenses of \$41,195. The net assets of the Foundation stood at \$657,538.

Over the next few years the Trustees would like to see the total assets built up to a figure which will give a secure base from

which to address the main objectives of the Foundation – lifting the public profile of engineers and engineering, encouraging bright youngsters into the profession, recording our heritage, encouraging research, and restoring individual engineering careers after an illness or accident.

## Thanks to All Contributors to the IPENZ Foundation

The Trustees would like to sincerely thank all those who have generously made donations to the Foundation over the last 12 months.

These donations have enabled the Foundation to establish a solid base from which to undertake various activities, and the stream of income is invaluable.

In addition to income from individuals, the Foundation also benefits from Members taking advantage of the various adjunct services offered by IPENZ. American Express makes a donation to the Foundation every time a Member signs up for the IPENZ gold credit card plus there is a continuing income stream based on card

usage. The Foundation also receives a donation when a Member confirms an income protection policy through the AXA scheme.

If Members would like further information on either of these services, please contact Kavita Kansara on 04 474 8980 or email [marketing@ipenz.org.nz](mailto:marketing@ipenz.org.nz)

If you would like to become a regular donor to the IPENZ Foundation or make a bequest, please see the form enclosed with this newsletter.

The IPENZ Foundation is a Charitable Trust and thus all donations made to it are tax deductible. A receipt will be issued for all amounts received.

### IPENZ Foundation Trustees



John Cunningham  
(Auckland)



Steve Gentry  
(Wellington)



Brian Cashin  
(Wellington)



Carolyn Thomas-Lewis  
(Wellington)



Warwick Bishop  
(Nelson)



Dennis Chapman  
(Christchurch)



Executive Officer:  
Susie McCutcheon



158 The Terrace  
PO Box 12 241  
Wellington

E [foundation@ipenz.org.nz](mailto:foundation@ipenz.org.nz)  
W [www.foundation.org.nz](http://www.foundation.org.nz)  
T 04 473 2029