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IPENZ
ENGINEERS NEW ZEALAND

Engineering Dimension

Influencing Government Policy – Advocating for You and Your Profession

IPENZ takes its role seriously as the voice of the engineering profession. "Through influencing leaders and decision-makers, we represent the industry and advocate on behalf of you, our Members, as well as the wider engineering profession," Chief Executive, **Susan Freeman-Greene** says.

IPENZ is committed to promoting outcomes to engineering issues that benefit New Zealand. Through submissions to Parliament and Government agencies, and through participation in various working groups, we influence decisions on key public policy issues.

We produce around 20 policy submissions each year, including the following:

The occupational regulation of engineers

The Canterbury Earthquakes Royal Commission recommended engineers should be required to have the correct qualifications (CPEng) to do specific work. We support this. In our submission to the Ministry of Business, Innovation and Employment (MBIE) , we suggested ways the proposal could be improved and implemented. The aim is to enhance the reputation of and public confidence in engineering in New Zealand, and value Members' qualifications, skills and experience. Discussions with the Government are ongoing, including separating the issues that can be progressed without legislative change.

Earthquake-prone buildings

Along with the New Zealand Society for Earthquake Engineering, the Structural Engineering Society New Zealand and the New Zealand Geotechnical Society, we advocated for the risk assessment framework to be the basis for undertaking timely building assessments and strengthening programmes. We expressed concern that there were insufficient engineering professionals with appropriate qualifications to complete the seismic capacity assessment tasks within the required five years. Recent announcements by the Government include their intention to categorise New Zealand into three seismic risk zones and update the deadlines for assessment and strengthening or demolishing. This will make sure high risk areas are dealt with first. Strengthening will also be prioritised based on building vulnerability and occupancy. The Local Government and Environment Select Committee recently released an interim report, which is available on Parliament's website.

Continued on page 3

President's Message

ENGAGEMENT, ADVOCACY, AND REPRESENTATION

I have just had the pleasure of attending the International Federation of Municipal Engineering (IFME)/Institute of Public Works Australasia (IPWEA) combined conference in Rotorua. Engineers, planners, environmentalists, managers and economists from New Zealand, Australia, and around the world met to discuss asset management, procurement and contracts, sustainable communities, roads and transport, and the three waters.

Conference themes included the impact of technology, globalisation and the western world's ageing population on society. We also discussed the impact the shortage of female engineers and the oversupply of engineers in some parts of the world is having on the infrastructure professions.

Most of these themes are not new. They demonstrate the need for us to continue to engage on key issues and advocate for the outcomes we believe are important.

IPENZ and other representative bodies, such as IPWEA NZ, the Association of Consulting Engineers New Zealand (ACENZ) and the New Zealand Institute of Architects, continually strive on our collective behalf to influence the environment in which we live and work. Our goal is not only what's best for us as a profession, but also what we believe is best for our society.

The IPENZ Board knows the importance of engagement with leaders and decision-makers on both national and community issues – it is one of the five key objectives of our strategic plan. As President, one of my primary roles is to represent us all as members of the profession. This includes setting the direction for the organisation through the strategic plan, engaging with other representative organisations, and advocating on issues with leaders on a national and community level.

IPENZ Members play a representative role in almost everything that they do. The most obvious is when involved in industry bodies such as the Construction Industry Council, MBIE's Engineering Reference Group and the Engineering Leadership Forum (made up of ACENZ, IPWEA NZ, the Electricity Engineers' Association, Civil Contractors New Zealand, Water New Zealand and the Cement and Concrete Association New Zealand). Equally important is Members' involvement in managing the competence assessment processes, ensuring the quality of engineering qualifications, and maintaining and improving engineering practice.

As individual Members, there are many ways in which you also engage, advocate and represent the profession. Much of this is in an overt way by being involved in IPENZ Branch activities, volunteering as a Practice Area assessor, actively contributing to related organisations such as ACENZ and IPWEA NZ, and assisting with submissions on legislative change.

I believe, however, that one of the best representations of the profession can and should occur with each one of us on a daily basis. It is in the way we act and behave in the everyday things we do as engineering professionals. How we interact with our fellow workers, our peers, our clients and society is one of the strongest representative roles we all play. No matter how hard I, as President, or the various representative organisations perform when engaging and advocating on our collective behalf, it carries much more weight when founded on our collective behaviours.

Engagement, advocacy and representation are therefore things that we all can and should be doing on a daily basis to improve both the profession and society.

Andrew Read FIPENZ

Continued from page 1

Modernising parental leave

IPENZ supports engineers undertaking professional and personal development and, as such, supports the Government's Parental Leave scheme. We're keen to help busy engineers balance their careers and family life, and to make sure employers are able to help their employees achieve this without any impact on ongoing business. Our submission to MBIE highlights key ways this can be achieved.

Standards and Accreditation Bill

We opposed the proposal to move standards development away from Standards New Zealand, an independent Crown entity, to MBIE. However, given this change was inevitable and to make sure the high level of voluntary support for developing standards by our Members continues, we advocated strongly to make sure that the Standards' development process remains impartial, fair and accountable.

Working directly with government officials in a constructive and positive way is a key element in the advocacy process and can be very effective in influencing change. In this regard IPENZ is involved in a number of ongoing activities including:

- **Joint and several liability workshops**
  Following its submission and appearance before the Select Committee on the Government's response to the Law Commission's discussion paper on joint and several liability, we have represented engineers' interests in MBIE workshops to discuss the implications of retaining this liability framework.
- **MBIE working groups**
  - Representing Members and the engineering profession in working groups dealing with consenting quality assurance
  - Improving access to critical and authoritative building information.
- **Developing regulation on commercial consenting (formerly known as risk-based consenting).**

We also play a significant role with WorkSafe NZ. With a significant change coming for New Zealand's health and safety framework, we are involved in reviewing legislation and regulation for the Health and Safety Reform Bill. We will be involved in developing guidance for practising engineers, and reviewing the codes of practice and guidance to support the Bill. We continue to work closely with WorkSafe in relation to amusement device regulation (through our Technical Interest Group – Recreation Safety Engineering) and providing guidance to engineering designers and design verifiers in relation to pressure equipment.

"With your help, we will continue to be able to show leadership on the issues of the day."

In all our dealings, it is important we represent our Members' and technical groups' views. We collaborate closely with our specialist technical groups to present consistent messages, either through joint submissions or through endorsement of each other's positions. It is important for Members to have their say, as the quality of submissions and advice provided is considerably enhanced through this feedback. We therefore encourage you to provide input when calls for comments on important Government policy and regulation are made. We regularly seek comments through *Engineering Direct* as issues arise.

With your support, we will continue to be able to show leadership on the issues of the day and provide a respected voice to the Government on behalf of the profession. ■

CENTRE FOR ADVANCED ENGINEERING CLOSES

The Centre for Advanced Engineering (CAE) has announced its closure.

"The situation has developed to the point where it is clear there is no obvious way that the CAE can attract sufficient financial support from enough firms and organisations to sensibly continue as an organisation providing independent technical policy advice," CAE Chief Executive, **Richard Bentley DistFIPENZ**, says.

"The extensive digital archives of CAE reports and newsletters from the last 25 years will remain freely available on the Canterbury University and IPENZ websites in due course."

Mr Bentley says he is grateful to everyone who has supported CAE during the past two years. "We have attempted to give the CAE Trust a new life after the closure of the old CAENZ Trust due to the exhaustion of its Trust funds in 2011." ■

Leadership from the Top

On 11 June, the Prime Minister, the Rt Hon John Key, joined engineers in Christchurch as the keynote speaker for Engenerate Canterbury's leadership event: "Leadership from the Top".

The Prime Minister, the Rt Hon John Key, talked to graduate engineers from Engenerate Canterbury and IPENZ Members from the Canterbury Branch about leadership.

Around 130 people – a mix of graduate engineers from Engenerate Canterbury and Members of the Canterbury Branch – listened to the Prime Minister talk about his view of key traits in leadership. He says engineers are often analytical and logical, which are attributes well suited to leadership, and engineers will be essential in helping New Zealand become more efficient and move up the value curve.

The Prime Minister, who lived and went to school in Christchurch, talked about his own experience of leadership in the private sector and government, and outlined his own leadership strategies. He says it is important to "have a sense of what you're trying to achieve – what does success look like? [As Prime Minister] I want to leave New Zealand in better shape than I found it."

He also talked about the importance of having a good team of people you can trust around you, saying "really strong leaders have great teams". He also emphasised the importance of predictability in a leader: "Try and be predictable in what you expect of people. People know what I'm likely to expect and how I'm likely to react." He also encouraged the audience to celebrate success along the way.

He spoke of his long-held desire to be Prime Minister, which started when he was 11 years old, and says success in leadership is "to do with attitude. If you think you can succeed, if you want to do something and you're prepared to work to do it, more often than not you'll get there".

The Prime Minister says the best advice he can give someone going into a leadership for the first time is to "be yourself. In the end, people will back you or they won't. Don't be afraid of it."

The Prime Minister was followed by IPENZ President, **Andrew Read FIPENZ**, who says leadership is about having the courage to lead and making the choice to lead. He encouraged the engineers present to do as the Prime Minister has done – "make that choice, get up there and lead".

After the event, **Fritha Bevin-McCrimmon GIPENZ**, Engenerate Chair for the Canterbury region, said: "What better person to talk to the young engineers about leadership than the leader of the country. What a fantastic opportunity to have the Prime Minister share his stories about his career, his advice on becoming a leader and how he has changed the country in his time as the Prime Minister. It was interesting to hear about the changes that John Key has made in the country while he has been in leadership."

"If you think you can succeed, if you want to do something and you're prepared to work to do it, more often than not you'll get there."

Canterbury Branch Chair, **Matt Cameron MIPENZ**, said: "It was fantastic to have the Prime Minister speak so freely with our young engineers and future leaders of the profession. He thought that engineers made good leaders, and that great leadership required trust, teamwork and the right attitude. These key points certainly resonated with the audience, and are in line with core values of the engineering profession." ■

ENGINEER REMOVED FROM THE REGISTER

A Building Consent Authority (BCA) raised six specific examples in a complaint against a Chartered Professional Engineer.

The Disciplinary Committee (DC) was satisfied that, in most of the examples cited, the Chartered Professional Engineer had signed Producer Statements covering work that did not comply with the Building Consent and in some cases did not comply with the building code.

As part of its processes, this BCA relied on Producer Statements as one component of reasonable grounds when issuing Building Consents or Code Compliance Certificates (CCC). The BCA's policy required an engineer who had been accepted onto its register, to agree to conditions of practice that included leaving a record of any on-site inspection to verify a visit had taken place.

In this case, the engineer failed to fulfil those obligations, and he ignored and failed to notify non-compliant work as required by section 89 of the Building Act. He submitted to the DC that he could ignore it because he was providing construction monitoring only to CM2 level.

The DC was satisfied the engineer had performed engineering services in a negligent manner and noted he had not recognised the significance of the Producer Statements to the BCA. He failed to display an appropriate duty of care to the BCA, his clients and future owners of properties, and did not accept responsibility for his actions. The DC decided it must act to protect the public by preventing the engineer from practising.

The DC ordered the:

- Engineer be removed from the Chartered Professional Engineers Register
- Engineer to pay a contribution to the costs of $8,000
- Names of the BCA personnel involved in the inquiry to remain confidential.

On appeal, the Chartered Professional Engineers Council:

- Confirmed the decision to remove the engineer's registration
- Reduced the costs' contribution to $5,492.95 (50 per cent of the actual costs)
- Ordered the engineer's name be kept confidential. ■

HUTT STEMM FESTIVAL WOMEN IN ENGINEERING BREAKFAST

On 3 June, the Hutt STEMM (science, technology, engineering, manufacturing and mathematics) Festival hosted the Women in Engineering Breakfast at the Dowse Art Museum, Lower Hutt.

Around 85 guests, including students from local schools, heard from three speakers who talked about their route into, and experience of, the engineering profession.

Senior Transportation Planner at GHD, **Laura Skilton**, outlined the growing role of technology in transportation planning.

Eliza Sutton MIPENZ, Work Group Manager – Transportation at Opus International Consultants Ltd, talked about beginning her engineering career in London and the new role of big data in transportation planning.

Harriet Fraser MIPENZ, from Harriet Fraser Traffic Engineering and Transportation Planning, talked about how her traffic modelling experience led to a global career.

"It was great to see the momentum behind this event, which had a much higher turnout than anticipated." **Susan Freeman-Greene**, IPENZ Chief Executive says: "There is an appetite for hearing the career stories of interesting, well-rounded women who have pursued engineering and had fulfilling careers in the profession. With the number of women working in engineering still low, it was excellent to hear from those who have been successful – they are inspiring role models for the pupils who attended from local schools."

City Events Manager at Hutt City Council, **Carla Steed**, says the Council is "very pleased with the turnout at the Women in Engineering Breakfast. The popularity of this event exceeded our expectations, and now has us thinking whether we could introduce a series of these types of events for women in Science, Technology, Engineering, Manufacturing and Mathematics."

Tracey Ayre GIPENZ, IPENZ's Policy Advisor and Project Manager – Women in Engineering, was also positive about the event: "Women remain under-represented in engineering, with around 13 per cent of New Zealand's engineers being female. IPENZ is working to increase and support diversity in the profession and is encouraged by both the interest in and the willingness of Hutt City to partner with IPENZ on this event. We look forward to future events and the opportunities these will bring." ■

Budget 2015: Good News for Engineering

While the Budget 2015 announcements on 21 May had a strong emphasis on child poverty initiatives, below the headlines there were a number of positive aspects in the Budget for the engineering profession.

These included reallocating $11.4 million over four years to increase the number of engineering graduates. This will provide $5.2 million for extra engineering places at tertiary institutions. It will also provide funding for activities to raise the profile of engineering and to encourage students to choose engineering as a career. The extra allocation follows an increase in engineering education funding of $9.3 million in Budget 2013.

An additional $107 million over four years has been provided for land clearances and preparation to make way for the Anchor Projects as part of the Canterbury rebuild. This takes the Government's total contribution to the Canterbury Rebuild to around $16.5 billion since 2010.

Environment

The environment has also benefited, with $16.8 million allocated to improve river, lake and aquifer management.

This includes policy work on the National Objectives Framework and on exceptions provisions, coastal lagoons, Māori rights and interests, and supporting local collaborative planning mechanisms. Funding has also been allocated to progress the next phase of the Resource Management Act reforms including National Policy Statements, National Environmental Standards, and the development of standard planning templates.

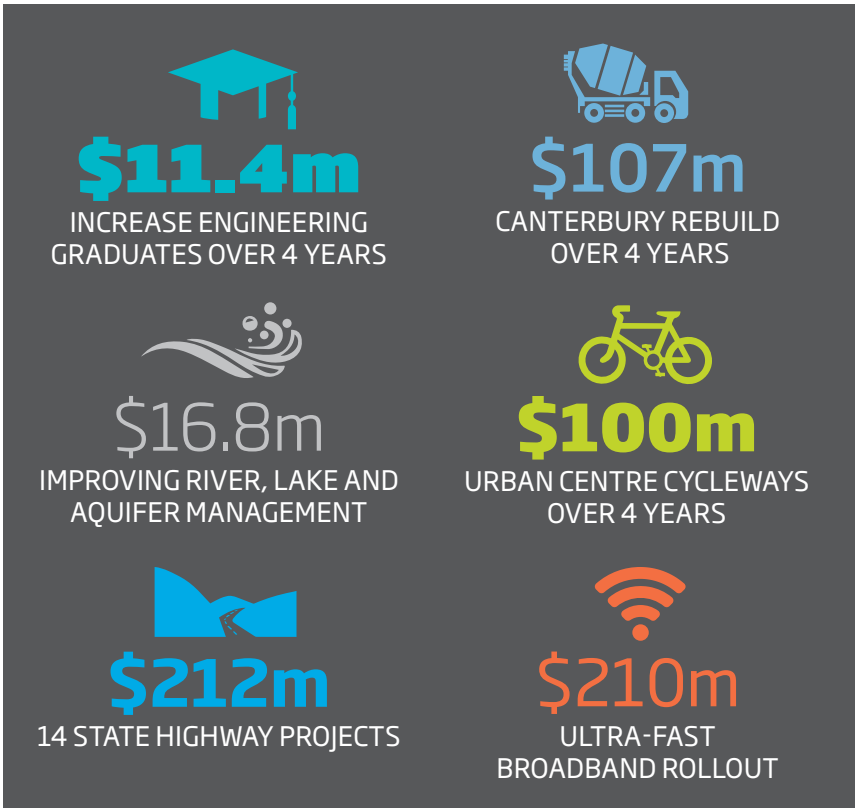
Future Investment Fund

Funding from the Future Investment Fund (from asset sale proceeds) is being used to provide a further $210 million for the ongoing roll-out of Ultra-Fast Broadband (UFB). This takes the total investment in UFB and the Rural Broadband Initiative to $2 billion.

KiwiRail will receive $210 million in 2015–16 and $190 million in next year's Budget from the Future Investment Fund for rail freight services and to maintain the rail network. KiwiRail's current operations require $200 million a year in ongoing Crown support to break even and the Government has indicated to KiwiRail that ongoing subsidies at this level are unsustainable.

A further $212 million from the Future Investment Fund is funding 14 regionally important state highway projects. Five projects have already been designed in Otago, Canterbury, Northland, Gisborne and Taranaki, and there are commitments for six more in Manawatu/Whanganui, Gisborne, Marlborough, the West Coast, Northland and Taranaki. The projects primarily consist of road realignments and bridge replacements.

A further $12 million has been earmarked for investigating and designing the Port of Napier access package, the Nelson Southern Link and the Rotorua Eastern Arterial road.



Cycleways

New Crown funding has been allocated to accelerate cycleways in urban centres, amounting to $100 million over four years. This is in addition to cycleway funding provided in the Government Policy Statement 2015 and funding from local government.

Engagement with science and technology

Regional Research Initiatives were also announced, including $25 million over three years to support the establishment of new privately-led Regional Research Institutes, $80 million increase in funding over four years for R&D grants administered by Callaghan Innovation, and $2.2 million in 2015–16 to implement the Science in Society: A Nation of Curious Minds plan, which is intended to lift New Zealanders' engagement with science and technology.

For more information, go to: bit.ly/beehive-budget2015 ■

FUTUREINTECH: UNLOCKING CURIOUS MINDS

In May, the Minister for Science and Innovation, the **Hon Steven Joyce**, said the Futureintech application submitted to the Unlocking Curious Minds contestable fund was one of 28 projects to receive financial support.

The "Family Science Workshops" project is an extension of the work initiated last year as part of Futureintech's annual action plan. This was planned and led by Facilitator, **Rod Hare**, with key technical support from Futureintech Ambassador, **Ashleigh Fox**. It will involve a series of hands-on workshops in four Auckland primary schools. Students of these schools, who have been identified as having low engagement with science will be invited to attend. They will be introduced to the concepts of DNA and genetics and undertake an extraction of kiwifruit DNA. The aim is to raise science capital in families by empowering parents and guardians to talk about science with their children, nurturing a more science-literate generation of New Zealanders.

The Unlocking Curious Minds contestable fund aims to broaden the connection and engagement of "harder to reach" New Zealanders with science and technology. The 28 proposals to receive funding span a wide range of science and technology topics and geographical locations. ■

The damaged Old Normal School, photographed on 16 September 2010. Photo: Kete Christchurch.

EARTHQUAKE IMAGE ARCHIVE

Hundreds of thousands of items already collected by the University of Canterbury's Canterbury Earthquake Images, Stories and Media Integrated Collection (CEISMIC) are just a small part of what needs to be preserved.

CEISMIC is holding digital records of the memories, experiences and knowledge of Cantabrians by building a broad range of earthquake-related research material, gathered by leading New Zealand organisations.

The documents, images and datasets have been created by academia, local and central government, and community and commercial organisations.

Archive spokesperson, **Professor Paul Millar**, says if even one other community dealing with a disaster benefits from the lessons Canterbury has learned then "everyone who has supported CEISMIC, whether by joining with us, donating content, sponsoring our work, or simply telling their own stories, deservedly shares in one good thing to come out of such a major event". ■

Work-ready Plus

In June, 25 employer representatives (including IPENZ Members) attended an Engineering E2E-organised employer-engagement workshop. The purpose was to gain a better understanding of what the sector requires of graduates and where engineering may be going in the future. The Engineering E2E Steering Group invited **Emeritus Professor Geoff Scott** of the University of Western Sydney, who has been involved in establishing a graduate capability framework for use by employers and educators, to facilitate the workshop.

The framework served as a focus for discussion about the skills graduates should have in addition to their technical knowledge, and what could be incorporated into design and delivery of engineering education. It lists 12 top-ranked capabilities from successful graduates in nine professions. These included "Remaining calm under pressure or when things take an unexpected turn." Professor Scott pointed out the difference between competence and capabilities – that the former refers to skills and knowledge while the latter is about mindfulness, such as remaining calm and not panicking during a crisis. He noted early-career graduates, who were asked why they were successful, responded with comments such as "I deliver the project on time." Professor Scott emphasised capabilities are learnable and produce "work-ready plus" graduates who are more valuable in the workplace.

Workshop participants came from a range of disciplines and organisation types. After discussing their industry's perspective, they were in general agreement about what graduates need to successfully manage the challenges and opportunities in engineering. ■

MEMBERSHIP UPDATE

The following is a list of additions and changes to the classes of Membership for the period 6 May 2015 to 2 June 2015.

Elected to Graduate Member:

R Alam, RF Albion, M Aminmansour, AJ Archibald, SJ Bradshaw, JK Chee, AY-H Chen, LJ-G Chen, OT Chute, P Clarke, JC Clendon, LPVDB Croft, S Davies-Colley, AS De Alwis, DJ de Zwart, AR Drain, EF Drake, ED Fatialofa, PM Finch, SE Gilmour, SJ Harris, HE Hoggard, U Holzinger, S Hurrisunke, BF Jacobs, SP Jayamaha, M Jiang, AJ Kasi, E Khan, JAM King, PR Knight, DC Koralage, RA Kusuma, KC Leung, K Madhavan Ekalavya, JG Magee, PH Malim, CL McCrostie, J Meys, GW Moat, KW Murray, SC Newton, ET Nyahore, AM O'Shea, SS Patil, AD Pattillo, RWR Pollock, JW Porter, DF Rodriguez Hernandez, E Rushe, RS Ryan, SJ Singh, BE Southey-Jensen, A Sriranulu Ramanujulu, PJ Stone, JD Tait, B Tan, L Tan, PJ Theron, QM Tran, TPG Vick, SG Walton, AW Walynetz, TY Wang, CA Welch-Cropp, GD Wigley, DA Winter, X Wu, J Zhang,

Elected to Professional Member:

VPJ-B Blanchet-Beaulieu, PRP Bruneau, GL Cole, BJ Davies, LA Devcich, P Homkesorn, JJ Klopper, FS Knott, RC Lockhart, C-R Luo, RL Maginness, BJ Mills, B Rahmatalla, MW Smith, MJ Somerville, DA Sullivan, SR Tailby, PD Wrenn,

Elected to Technical Member:

L-C Alexoiu, Q Bubb

Elected to Associate Member:

AMB Hanify, NW Lynn-Watts, NA Maciver, JG Parkinson, JJ Pettigrew, S Yendoll,

Elected to Affiliate Member:

S Broomfield, L Greene, R Rimmer, AGJ Stuart, C Taylor,

IPENZ regrets to announce the passing of:

JA Ince MIPENZ, Sir JH Ingram DistFIPENZ. ■

SIR JOHN INGRAM, CBE (KT. BACH.) 1924–2015

Sir John Ingram DistFIPENZ passed away on 1 April in his 91st year; he had suffered many years of poor health, but was always fully alert and ready for a good discussion.

Born on 3 September 1924 in Nelson, Sir John attended Nelson College and served in the Air Force as a flight mechanic. In 1945, John applied for and was awarded a "rehab bursary" to study engineering at Canterbury University. It was here that he met Rosemary and they became engaged in 1949 when he had completed his BE (Mechanical) degree.

John's first job after graduation was with the Public Works Department in Nelson, and then at Roxburgh Hydro. In 1952, he moved to Melbourne with Boving & Co Australasia, becoming Managing Director in 1954. Returning to New Zealand in 1962, John accepted the position of Chief Engineer at Cable Price Corporation Ltd and, three months later, was appointed Managing Director. He was involved in many aspects of importing machinery and steel products. While in Japan in 1962, he visited Toyota head office, securing the importation of the first Toyota vehicle into New Zealand.

In 1969, John was appointed Managing Director of New Zealand Steel. At the time, the new steel-making plant from Stelco-Lurgi-Republic Steel-National Lead was almost ready for commissioning. The plant was designed by overseas consultants after pilot trials on iron sand shipped from New Zealand – but it did not work. Dr Nigel Evans, who worked closely with Sir John at New Zealand Steel, said in his eulogy: "This was John's first big test and he held his nerve. His engineering experience and his trust in his own people's advice, gave him the confidence to tell the overseas experts to pack their bags." Sir John retired in 1987, and is still revered at New Zealand Steel as the one who saved the company. It was his sound technical understanding and management through very difficult times that has made it one of the most efficient steel plants in the world.

Sir John was passionate about the engineering profession and the role of engineers in society. He was President of IPENZ in 1976–77, and was elected a Distinguished Fellow in 1997. He was also a Fellow of the Australian Institute of Mining, a Fellow of the Institution of Mechanical Engineers and a Fellow of the Institution of Directors, being elected a Distinguished Fellow of this Institute in 2004. In 1999, he was awarded a Distinguished Alumnus of the University of Canterbury and made a Fellow of The University of Auckland in 1997. He was awarded a CBE (Commander of the Most Excellent Order of the British Empire) in 1984 and received the honour, Knight Bachelor, in 1994.

Sir John has contributed enormously to New Zealand's social and economic progress. He was always a very humble man and one who related easily to everyone he met from all walks of life. ■

Sources: John La Roche, Ingram family members and Dr Nigel Evans.

IPENZ ENGINEERS NEW ZEALAND

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