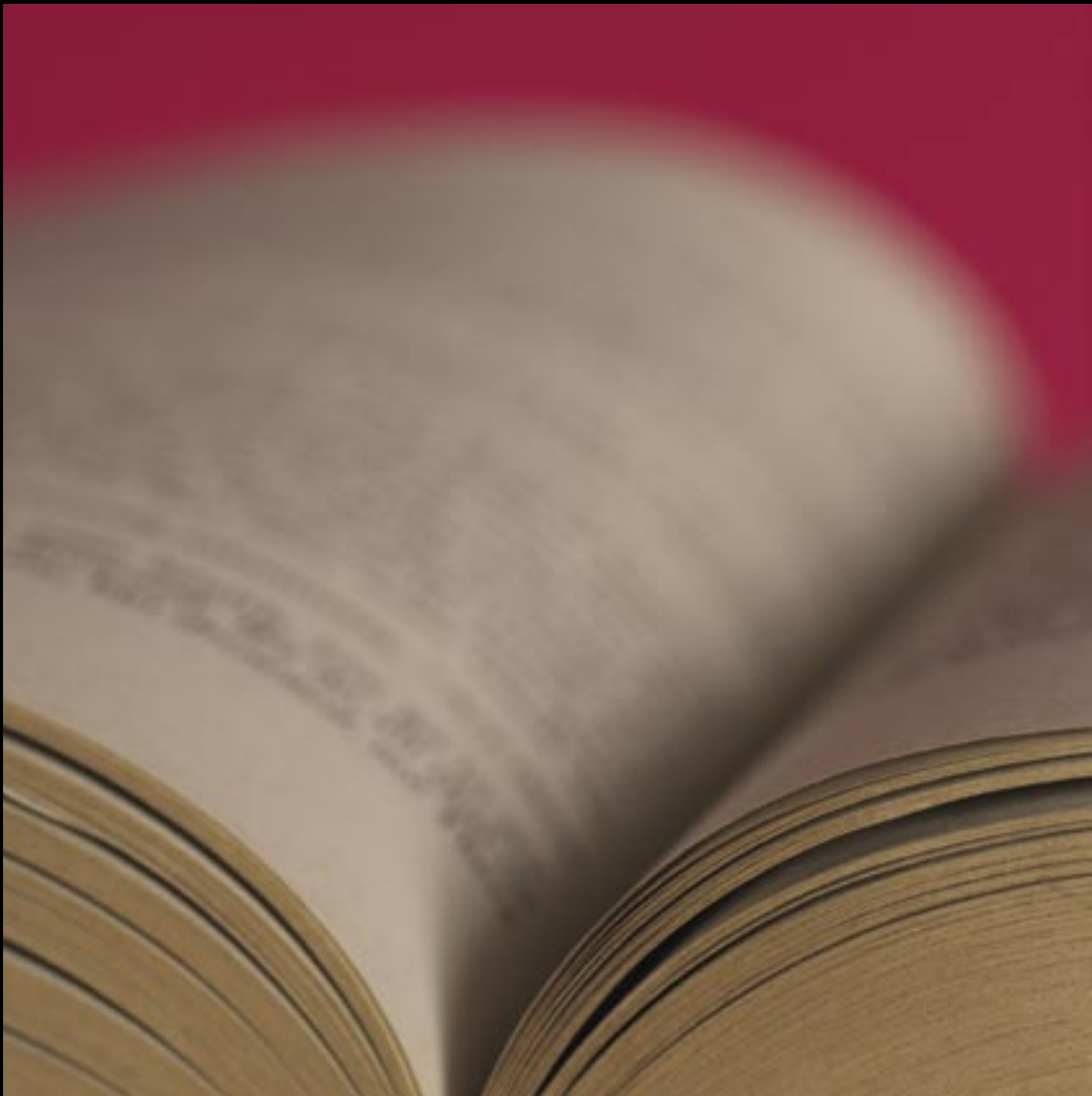


2002–2003

Research Report



Research Report

1 August 2002 – 31 December 2003

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Foreword



The University of Canterbury has long seen itself as a research-led teaching institution where high quality research and scholarship permeate teaching and learning at all levels. It has

been at the same time both very pleasing and a great tribute to the work of all staff that strong confirmation of this has been received from the first round of the Performance-Based Research Fund. University of Canterbury staff were rated a close second to those of Auckland University on research quality scores.

Though we have long reported our research and creative works in a variety of ways, this report marks some important changes to the ways in which this is done. In common with past reporting, this report presents the principal scholarly achievements of our staff in respect of publications and creative works. It also presents information about masters and PhD theses completed by postgraduate students. It is the first time this information has been published as a separate report. The content is essentially the material formerly published each year in the *University Calendar* and, like the material in the *Calendar*, it is by no means an exhaustive list of all the scholarly contributions made by staff and students. Another important change is that, during 2003 the University restructured into four colleges and a School of Law. The information in this report has been assembled for each of these. Additionally, several academic units have taken the opportunity to merge during restructuring (for example, Zoology and Plant and Microbial Sciences have become the School of Biological Sciences) so that within the College lists there is a degree of difference

from the reporting units used in the *Calendar* up to 2002.

The *Calendar* is published annually but because of the work involved with restructuring, this first research report covers the period from August 2002 to December 2003. Important developments in research over this time period included UC involvement in two Centres of Research Excellence – the MacDiarmid Centre of Advanced Materials and Nanotechnology and the Allan Wilson Centre for Molecular Ecology and Evolution. In addition the University has become the host to the Human Interface Technology Laboratory (HITLab).

Collaborative links with industry have been developing strongly. For example, through the Canterbury Electronics Group and the ICT Cluster. Commercialisation of research is also proceeding apace, the University being a partner in the Canterbury Innovation Incubator and three companies – SyFT Technology Ltd, Canterbury TX and Nanocluster Devices Ltd. These companies have been formed to develop University owned intellectual property.

Traditional strengths in basic research have also been to the fore. External research funding won in 2003 totalled \$18.5 million including record totals of \$6.1 million from the Foundation for Research, Science and Technology (8 grants) and \$6.1 million from the Royal Society of New Zealand's Marsden Fund (13 grants). Both of these are keenly contested funding sources.

For the period covered by this report the lists that follow set out 2400 publications and creative works, 118 PhD theses and 275 masters theses. The University's *2003 Annual Report* shows it was a bumper year setting record levels for research and scholastic works. Some 83 PhD theses and 184 masters theses were

completed and there was a record total of 1835 refereed research publications.

Many staff have been recognised for their excellence in research. In 2003 Professor Miles Fairburn (History) and Professor Mike Steel (Mathematics and Statistics) were awarded Fellowships of the Royal Society. Professor Andrew Sturman (Geography) was presented with the inaugural Kidson Medal of the Royal Society of New Zealand for his work in climatology. Within the University Professor David Thorns (Sociology and Anthropology) was awarded the Research Medal in the December 2002 Graduation Ceremony. At the end of 2003 the Research Medal was awarded to Professor James Coxon (Chemistry).

There are many other indicators of the extremely strong research culture in the University of Canterbury, but those outlined above, together with the works of staff and students listed in this report, are an ample demonstration of the creative energies and hard work which occurs across the Colleges, their individual Departments and Schools, and the Research Centres of the University.

Professor Bob Kirk
Deputy Vice-Chancellor

College of Arts



Research in the College of Arts is a diverse undertaking. It includes standard empirical and theoretical work in the social sciences and the writing of scholarly books and

papers in the humanities, and extends to the productions of dramatic works on stage and screen, the making of all aspects of fine art and the composition and performance of musical works.

There is, then, considerable breadth to the research endeavours in the College of Arts and it is fair to say that there is no programme amongst 35 to 40 within the College that has not achieved both national and international reputation. However, against this background there are several areas of particular strength.

Within the social sciences, this period saw the development of the Social Science Research Centre. This is an interdisciplinary unit centred in the School of Sociology and Anthropology but stretching widely across the College and even beyond to include some members of the College of Science. Under the leadership of Professor David Thorns, the Centre is well-established, is engaged in multiple research initiatives, is making successful applications for funding and has firmly established links with other New Zealand universities. The SSRC nicely complements the important work on Pacific nations being carried out in the Macmillan Brown Centre for Pacific Studies. Also during this time, Te Awatea was formed with the Department of Social Work, the only centre within New Zealand for research into family violence.

Also noteworthy within the social sciences are the socially significant research outputs of the

Schools of Sociology and Anthropology and Political Science and Mass Communication. In the run up to the end of 2003, the School of Political Science and Mass Communication was the fastest growing area of what was to become the College of Arts, this growth also being reflected in the research of the School. Furthermore, in the area of Gender Studies, Associate Professor Victoria Grace was particularly successful in attracting research grants in various facets of women's health.

Within the Humanities, the College can be proud of its general research achievements. However, perhaps the most significant of these have been in the School of Philosophy and Religious Studies and the School of History. Under the respective headships of Professor Paul Harrison and Professor Peter Hempenstall, there was a very high rate of internationally acclaimed research. It is hard to single out particular individuals in these two Schools, research successes were widely spread. The internationally acclaimed achievements of both facets of the School of Classics and Linguistics should also be noted.

Research in the Visual and Performing Arts is very different from that in the Social Science and Humanities. The School of Fine Arts, the School of Music and the Department of Theatre and Film Studies are each characterised by energy and vigour. Their research productions continued with that usual vigour during the time period in question, all of them being far more accessible to the general public than are the usual research outputs within a university. Works of art (including painting, sculpture, print-making and photography) were made and shown, music was performed at the highest level and plays were produced. These areas of the College of Arts considerably enrich both the University community and the wider culture of New Zealand.

The general research output of the College from August 2002 to December 2003 was prodigious in its scope and in the degree of its potential influence. It has led to the development of a number of research initiatives, many of which are satisfyingly interdisciplinary. In fact, this is perhaps the characteristic that best reflects the developing research culture within the College – a burgeoning interdisciplinarity.

Professor Kenneth Strongman
Pro-Vice-Chancellor, College of Arts

College of Arts

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College of Business and Economics



The College of Business and Economics had an impressive inaugural year, scoring highly in the 2003 national Performance-Based Research Fund (PBRF) assessment. Formed in January 2004, the

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The Department of Accountancy, Finance and Information Systems has research strengths in all four of its major sub-disciplines: accounting, finance, information systems and commercial law and tax. Overall, the Department ranked third nationally in accounting and finance in the 2003 PBRF, with the second highest proportion of A-rated researchers in the country. Areas of international research excellence include: public sector accounting and management; not-for-profit accounting; cash-flow analysis; financial reporting; international accounting; management accounting; financial reporting; small firm computing; information systems; competition and fair trading law; contract law; international tax administration; compliance and policy; goods and services tax; and tax planning. Several members of the Department are editors and are on the boards of international peer-reviewed journals.

The Department of Economics has an established national and international

reputation in a number of key areas including: public sector economics; labour economics; health economics; monetary policy; the economics of education; the economics of networks; human capital, technological change and economic growth; finance; law and economics; and the economics of asymmetric information. In addition, there is a developing research capability in experimental economics. The Department ranked fourth nationally in the 2003 PBRF. Its research programmes have attracted external funding from a range of agencies, including government ministries. The Department currently holds two Marsden Fund Grants – “Accounting for Economic Growth in New Zealand” and “Measuring the Stock of Human Capital” – and it is part of the Foundation for Research, Science and Technology-funded project “Impacts of ICTs on Work and Communities”. Several members of the Department are on the boards of international peer-reviewed journals and the Blackwell journal, the *Journal of Economic Surveys*, is jointly-edited by the Department.

The Department of Management comprises four major subject areas: marketing, human resource management (HRM); strategic management, and management science (which embraces operations research and operations management). In the 2003 PBRF exercise, the Department ranked third nationally in management, with 26% of the staff being awarded ‘A’ or ‘B’ ratings. The marketing group is engaged in research on aspects of buyer behaviour and internet and electronic marketing. Within the HRM group, there have been important publications in leadership, workplace communication and the impact on performance of employee perceptions of their work environment. The Department will host a major international conference on workplace communication

in 2005. Research in strategic management includes applied studies of: small firms; the way strategic frameworks are applied; and international business and business ethics. For many years, the management science group has held a leading position for its work on the electricity markets. The group is also involved in leading-edge work on simulation studies in telecommunications networks and, more generally, in stochastic programming, complex problem decomposition and aspects of healthcare delivery. A number of staff are on editorial boards of international journals and one such journal, *The Journal of International Entrepreneurship*, is currently based in the Department.

The National Centre for Research on Europe brings together academics from a wide range of disciplines to research and study the European Union and Europe-related issues and topics. The focus is policy-driven, melding academic work with practical requirements. Current research projects include: EU

identity in New Zealand; EU-Pacific policy; EU enlargement and New Zealand; EU financial reporting and New Zealand; EU identity in the Asia-Pacific region; EU knowledge wave migration to NZ. The NCRE is funded by a European Commission grant, the University of Canterbury and a variety of other external, project-based grants. In 2004, the NCRE was awarded the prestigious designation of Jean Monnet Centre of Excellence by the European Commission. This recognition complements the Jean Monnet Chair of European Integration held by the NCRE's Director, Professor Martin Holland, and its two Jean Monnet teaching modules. The NCRE has strong links with other universities and academics and has a truly national focus. Governance is by way of an internal and external advisory board and a recently-formed Business Advisory Board.

Professor Nigel Healey
Pro-Vice-Chancellor, College of Business
and Economics

Accountancy Finance and Information Systems

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College of Engineering



The new College of Engineering is made up of seven departments which between them encompass a wide range of research activities. Some of their particular

strengths and achievements in 2003 are outlined below.

The Human Interface Laboratory (New Zealand) – HITLab NZ for short – is a research centre for human-computer interaction. HITLab NZ has an industry consortium of NZ companies, and half of its research projects are carried out with industry partners. For example, HITLab NZ developed an augmented reality volcano kiosk for its partner company Science Alive which is now being marketed worldwide. A project was also completed with Trimble Navigation (NZ) Ltd to develop a next-generation surveying interface. HITLab NZ also completed its second year of research in its \$2.5 million MagicBook project.

The Wood Technology Research Centre, primarily based in the Department of Chemical and Process Engineering (CAPE), has attracted a \$1.9m contract for research into the production of fuel gas from woody biomass. CAPE also has a strong research capability in the area of gas hydrates, which can not only be used as a source of primary energy but may also serve as a very efficient storage medium for hydrogen. In collaboration with the Canterbury Health Laboratories, CAPE researchers have recently identified new methods of stabilising enzymes and enhancing their thermal tolerance by biochemical means.

Current research activities in the Department of Civil Engineering cover a wide range

of topics. Recent successes include the commercialisation of a strong-motion seismograph developed in partnership with Electrical and Computer Engineering, commercial applications of foamed bitumen in pavement design, and significant involvement in innovative contract models for major projects such as partnering and alliancing, in collaboration with the Centre for Advanced Engineering. Major new initiatives include the development of innovative future building systems and strengthening of existing buildings under earthquake attack, and risk management strategies to reduce the commercial and social impacts of natural hazards.

In the Department of Computer Science and Software Engineering (CSSE), research by the Intelligent Computer Tutoring Group has been adopted by a major publisher to run an instructional web-based database tutoring system. Other areas of research in the Department include automatic drug prescription using machine learning and the development of new algorithms. A recent success has been a significantly improved new algorithm for the Maximum Subarray Problem which can, for example, be used to find the brightest area of an image. The University of Canterbury is a member of “Medialab”, a national research consortium in the area of ICT, within which several projects are being carried out by the departments of CSSE and Electrical and Computer Engineering, mainly in telecommunications and security.

Associated with the Department of Electrical and Computer Engineering (ECE) is part of the MacDiarmid Institute for Advanced Materials and Nanotechnology, with a research budget of \$1.3 million and multi-million dollar research laboratories containing molecular beam epitaxy and advanced lithography machines that are unique in

New Zealand. In conjunction with the New Zealand power industry, ECE also hosts the Electric Power Engineering Centre which uses the comprehensive High Voltage Research Laboratory. The Department also has strong research associations with Christchurch Hospital in the areas of medical imaging and neurotechnology.

In the Department of Mathematics and Statistics the Biomathematics Research Centre is playing an increasing role in biological research. For example, quite sophisticated mathematics has been used to model the population dynamics of cancer cells. Researchers in phylogenetics are developing new mathematical theory and techniques based on directed graphs to provide a framework for representing and analysing non-tree-like evolution. Within the statistics group, highlights this year have been the establishment of a group developing bioinformatics research opportunities, the establishment of a post-doctoral position in stochastic differential equation models in biology, and research workshops on ecological statistics and on time series.

Evaluating the impact of site, silviculture and genetics on wood quality has been a major research focus of the School of Forestry. Separate studies have found that exposure to wind and thinning stands to low stockings can cause a significant reduction in the stiffness of standing trees and hence of the timber produced from these trees. These studies build from other research to develop methods for assessing the stiffness of trees and logs. Other areas of research include forest floor compaction due to harvesting machinery, which affects tree root growth for the next crop, and a study of red deer microhabitat using GPS collars, which has led to a funded programme looking at merino impacts on native forest remnants.

In addition to a wide variety of research work in energy, material sciences and vibration, the Department of Mechanical Engineering has recently completed projects concerned with wind turbine noise and hand-held radio acoustics. This Department also hosts the Centre for Bioengineering, whose staff have international reputations for research into computational models of biological fluids and into biological control theory, specialising in diabetic/insulin infusion methods and agitation sensing, along with a growing expertise in biological tissue mechanics. This Centre has a wide membership across the campus and the Christchurch School of Medicine and Health Sciences.

Professor Peter Jackson

Pro-Vice-Chancellor, College of Engineering

Chemical and Process Engineering

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College of Science



The College of Science comprises the School of Biological Sciences, Departments of Physics & Astronomy, Geography, Geological Sciences, Chemistry, Psychology and Communication

Disorders and two Research Centres – Gateway Antarctica and Health Sciences. All of the research carried out in the College was rated highly in the 2003 national Performance-Based Research Fund (PBRF) assessment.

Communication Disorders has a broad research programme ranging from studies on adult and childhood speech disorders, literacy and voice through to the origins of New Zealand English sound patterns to the neurophysiology of swallowing. The latter area is shedding light on the swallowing process and its defects. The swallowing rehabilitation research laboratory is an important part of the recently opened Van der Veer Institute for Parkinson's Disease and Brain Research, a partnership between the University of Canterbury, the Christchurch School of Medicine and Health Science and the Canterbury District Health Board.

Physics and Astronomy conducts research on nanotechnology cluster devices. This has been made possible by joining ultra small metallic balls to form conducting wires for the integrated nano-circuits of the future. Work on ultra violet scanning fluorescence spectroscopy and its application to the detection of anthrax spores has important applications in bioterrorism detection. The University's observatory at Mount John is installing a 1.8m variable star and planet telescope in collaboration with Nagoya University, Japan. This will make Mt John the southern hemisphere's best facility

for planetary detection and observation. The Department is also designing a high resolution spectrograph for the 11m Southern African Large Telescope (SALT) to analyze star emission spectra for studies on star composition and stellar evolution.

The Chemistry Department is New Zealand's top research chemistry group. Its research ranges from studies on bioactive molecules from New Zealand marine species and their use as anti-cancer drugs, through modelling studies on ion-molecule reactions in extra-terrestrial (interstellar and planetary) environments. The latter has led to important developments in trace-gas analysis, applications of which are currently being investigated with regard to such practical problems as disease diagnosis, sick-building syndrome and quality validation of olive oils. Work on the gas-liquid interface has applications across physical, environmental and biological sciences, including geophysical processes such as air-sea exchanges (with implications in the modelling of global climate change), the formation of acid rain and respiration.

The Department of Geological Sciences is New Zealand's top research group in its discipline. It has four main research areas: geological hazards; tectonic evolution of the Pacific margin; active tectonics and landscape evolution; and climate change. Research on geological hazards is particularly pertinent in a country spanning several geological faults and therefore prone to earthquakes and geothermic activity. The research investigates practical ways of reducing the impact (eg casualties) of natural and other disasters. Work on tectonic evolution focuses on New Zealand, West Antarctica and Chile on the South Pacific rim through integrated geological studies of the approximately 500-million-year active margin. Work on climate

change seeks to reconstruct and quantify past changes to include predictions of the future.

The School of Biological Sciences has a broad research programme encompassing biochemistry, biotechnology, organism form and function, behaviour, ecology and conservation biology. Some current projects use genetic markers to link animal relatedness to their social behaviour, examine the significance of oceanographic processes to coastal marine communities, unravel the complexities of the biosynthesis of the critical amino acid lysine, explore the way plants adapt to human-caused disturbances in their environments, and uncover molecular biology of the development of plant traits and plant-microbe interactions.

The Psychology Department was the second-ranked department in New Zealand in the recent PBRF exercise. It carries out internationally recognized research across a wide range of areas, including both pure science and applied areas. Recently published high-profile research includes work on learning and memory in relation to areas of the brain, Attention Deficit and Hyperactive Disorder (ADHD), eating disorders, the social and evolutionary psychology of intimate relationships, theory of mind in children, and the role and function of stereotypes.

The Department of Geography has three research clusters: Environment and Health; Earth Atmosphere Processes; and Culture and Society. Environmental Health focuses on the ways in which the social and physical environments interact to influence health. Examples include the health effects of air pollution, contextual and compositional explanations of health-related behaviours such as smoking patterns, spatial and socio-economic variations in lung cancer, and a comparison of rates of hospitalisation with

deprivation levels. The group's use of GIS is an important strength.

Gateway Antarctica spans and focuses research on the Antarctic across the University. An important research area is responses of Antarctic fish to change in environmental conditions. Global warming could have a major affect on Antarctic biota particularly marine organisms that have evolved to live close to the freezing point. They are thought to have little ability to survive at elevated temperatures. However, our research in collaboration with international colleagues has shown that fish could adapt to a gradual warming of their environment.

Our newest research centre, Health Sciences, is beginning to bring health research across the campus together and to focus on environmental health, early interventions and health information management.

Professor Ian Shaw
Pro-Vice-Chancellor, College of Science

College of Science

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School of Law



During 2002 and 2003 the School of Law continued to produce research of national and international significance. Nationally, work undertaken by members of staff

made an important contribution to New Zealand jurisprudence, while evidence of the international influence of the School's scholars is apparent in a number of quality assured outputs. Members of the judiciary, both at home and abroad, have referred favourably to staff scholarship, and the fact that many treatises produced by the School have been through multiple editions demonstrates the continued high esteem in which these works are held.

Professors Burrows, Finn and Todd continue to be recognised as important international scholars in the field of contract law with the publication of the International Encyclopaedia of Laws: Contracts: New Zealand (Kluwer), while the third edition of Professor Burrows' Statute Law in New Zealand (Butterworths) demonstrates the continuing significance of this work. New editions of co-authored works include John Hughes et al, *The Employment Law Guide* (6th edn, LexisNexis) and Geoff Leane et al, *Australian Legal Institutions* (2nd edn, Law Book Co).

Law School staff members have also written chapters in books, published scholarly articles in respected national and international journals and made substantial contributions to a variety of professional publications. The range and depth of subject matter covered shows the catholicity of legal scholarship.

The complete catalogue of the Law School's research outputs for the period August 2002 to December 2003 is contained in this report, but some of the more significant

contributions are Professor Philip Joseph, *The Laws of New Zealand* (LexisNexis); Dr Nicky Richardson, *Equity and Trusts in New Zealand* (Brooker's); Elizabeth Toomey, *Brooker's Land Law* (Brooker's); Associate Professor Jeremy Finn, *Adam's Criminal Law* (Brooker's) and John Caldwell, *Family Law in New Zealand* (LexisNexis). Books edited by members of the Law School include Professor Scott Davidson et al, *Contemporary Issues in International Law: A Collection of the Josephine Onoh Memorial Lectures* (Kluwer) and Duncan Webb, Cynthia Hawes, Richard Scragg et al, *Commercial Law Essays: A New Zealand Collection* (Centre for Commercial and Corporate Law).

Staff of the School have published articles in a number of refereed national and international journals including *New Zealand Universities Law Review*; *Human Rights Law Review*; *Journal of Conflict and Security Law*; *Media and Arts Law Review*; *Australian Journal of Legal History*; *Family Law Review*; *New Zealand Journal of Industrial Relations*; *New Zealand Law Review*; *Insolvency Law Journal*; *European Journal of International Law*; *International Family Law Journal*; *Hong Kong Law Journal*; *Journal of Finance Law and Practice* and *Australian Business Law Review*.

Law School staff have also delivered seminars and oral presentations on a broad variety of legal topics throughout New Zealand and the rest of the world. Bodies addressed by a significant number of staff include the New Zealand Law Society; the Australasian Professional Legal Education Council; the Australian and New Zealand Society of International Law; Society of Legal Scholars (UK); International Law Association; Council for Security and Cooperation in Asia Pacific and the Australia and New Zealand Law and History Society Conference.

Professor Scott Davidson
Pro-Vice-Chancellor, School of Law

School of Law

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