





Chronicle

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University worth \$1.5 billion to city and region

UNIVERSITY OF CANTERBURY

17 DEC 2003

LIBRARY

An economic impact report released today shows the University of Canterbury contributes more than \$1.5 billion directly and indirectly to the Canterbury regional economy every year.

The report, *University of Canterbury: Economic Contribution to the Canterbury Region*, looks at what the University brings to the Canterbury region, both in economic activity and non-monetary terms.

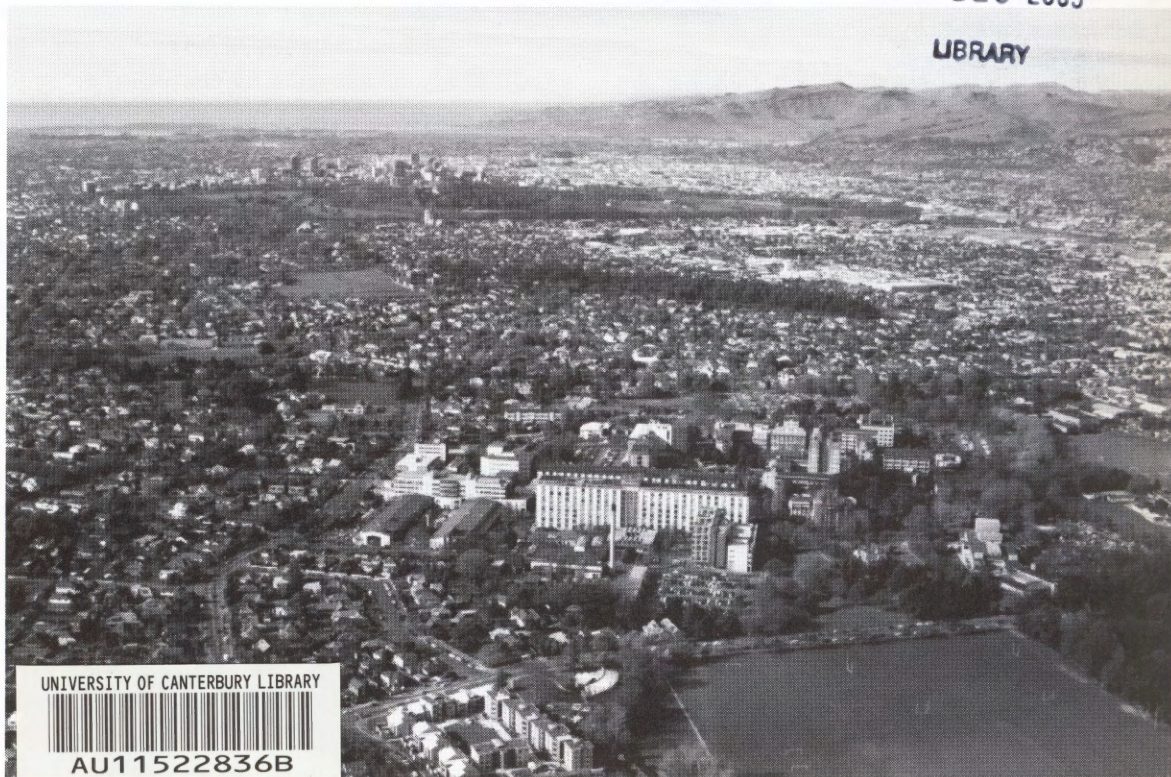
Authored by the University's Financial Services Manager, Jeff Long, in association with economist John Ballingall of the New Zealand Institute of Economic Research, the report sets out the direct impact of spending by University staff and students, and the indirect and induced effects on local businesses and employment levels.

Additionally, the report notes major benefits resulting from improved knowledge and skills, the range of facilities provided by the University, its research activities and the resulting outputs, and the wide range of cultural and creative activities.

Vice-Chancellor Professor Roy Sharp said the report confirmed that the University of Canterbury was an enterprise that had a great positive impact on the wealth of the Canterbury region.

"But apart from the economic impact there is an enormous social and cultural impact on the city and its surroundings.

"The report reminds us of this, and that we have a responsibility to ensure that the University continues to thrive. We are trying to achieve this through our new management



structure, which we are introducing next month, and careful adherence to our financial recovery plan."

Summary

The main question addressed by the report is: What does Canterbury University bring to the region, both in economic activity and non-monetary terms? It also measures the net benefits that the Canterbury region would miss out on if the University was not present.

The University offers undergraduate and postgraduate courses in nearly 50 disciplines ranging from Accountancy to Zoology. It has more than 12,400 students, with nearly 1,900 working towards postgraduate qualifications. It has a number of specialist

research centres, operates six major field stations, and provides a wide range of sporting, artistic, social and cultural amenities for staff and students, and also for the community at large.

In terms of direct spend, the University's forecast expenditure in 2003 is \$170.4 million. This is not taking depreciation into account, but instead adding actual capital expenditure. Further details will be available in the University annual report for 2003.

Based on a 2001 survey carried out by the New Zealand Universities Students' Association of student income and expenditure, the total expenditure in 2003 by students attending Canterbury University (including those attending the

Centre for Continuing Education) was \$332 million. Of this amount, it is estimated that the region would miss out on \$264 million if the University were not in existence. This takes into account students who move to the region specifically to attend Canterbury University, and also the loss of expenditure by students who would move out of the

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Inaugural Chancellor's Dinner a huge success

Sixty of Canterbury's business, community and political leaders attended the inaugural Chancellor's Dinner at Bellamy's late last month, and pronounced it a tremendous success.

The Chancellor, Dr Robin Mann, said the success of the black-tie event was evident both in the dynamic atmosphere on the night and in the feedback he had received since.

"Our guests appreciated the insights into the University today and where it is heading, and welcomed its willingness to further develop relationships with the city and the business community."

The event was sponsored by the Christchurch-based firm of Holcim (NZ) Ltd, whose Chief Executive, Rex Williams, is a Canterbury graduate in civil engineering. Holcim, which is sponsoring the dinner for an initial three-year term, also sponsors a position in Civil Engineering and has a continuing research relationship with the University.



The Chancellor, Dr Robin Mann: "We have a history of people who have made a difference."

Dr Mann said the University had good relationships with the city and community, despite a perceived lack of connection.

"However, we need to publicise them more and we need to widen and improve them," he said.

Dr Mann spoke on the theme of staff and graduates who had made a difference in their fields, using examples of Professor Alexander



The Honourable Lianne Dalziel, Canterbury law graduate and Minister of Immigration, Vice-Chancellor Professor Roy Sharp, and the Honourable Philip Burdon, Canterbury law graduate and former Minister of the Crown.

Bickerton, the first professor; Professor Julius von Haast, the first professor of geology; Helen Connon, the first woman in the British Empire to get an honours degree; the father of the atom, Ernest, Lord Rutherford; gifted graduate and benefactor Jack Erskine; the first Māori graduate Sir Apirana Ngata; author and theatrical director Dame Ngaio Marsh; painter Bill Sutton;

and space pioneer Sir William Pickering.

"These are all people who have made a huge contribution in their own specialisation. They have made a difference locally, nationally and globally," he said.

"We have a history of people who have made a difference. You have all made a difference in your area of endeavour; that is why we have invited you here tonight."

The Vice-Chancellor, Professor Roy Sharp, also spoke, outlining the key issues he faced on his arrival in March – financial recovery, restructuring and the development of a Charter and a Profile – and updating guests on progress and future initiatives.

University worth \$1.5 billion to city and region – continued

◁ p.1

region if the University was not present.

In total, the net direct expenditure by the University of Canterbury and the students attending the University, is more than \$434 million a year.

This initial injection of expenditure into the Canterbury region has significant 'flow-on' effects. For example, spending by the University, its staff and students on goods and services adds to the turnover of local businesses, and in turn will affect the incomes of owners and employees, and employment levels. These owners and employees will themselves use a proportion of their additional income to buy more goods and services in the Canterbury region, thus boosting the incomes of other business owners and employees. By using expenditure and employment 'multipliers', we can measure the magnitude of these flow-on effects.

Using information developed by Statistics New Zealand and the NZ Institute of Economic Research, the multiplier effects of expenditure by

	\$million Direct Effect	\$million Indirect and Induced Effects	\$million Total
University Expenditure	170.45	498.58	669.03
Student Expenditure	264.11	596.09	860.20
Total	434.56	1,094.67	1,529.23

the University and its students can be estimated.

The flow-on effects of the University's expenditure and that of its students are summarised above.

In terms of the employment multiplier effect, it is calculated that for every additional \$106,798 that the University spends, it will employ one more full-time equivalent member of staff. As a result of the flow-on effects of this additional expenditure and employment by the University, another 1.25 full-time equivalent positions are created elsewhere in the regional economy. In other words, every time an additional 4 full time jobs are created at the University, another 5 jobs are created in the Canterbury region as a result.

While there are other educational organisations providing education opportunities at the tertiary level, the range offered at Canterbury is by far the most extensive.

The total economic impact of Canterbury University on the Canterbury region is \$1.53 billion worth of gross output per annum.

In addition, there are major benefits to the community as a whole resulting from:

- Improved knowledge and skills
- The range of physical assets available
- Research activities and the resulting outputs
- A wide range of cultural and creative activities.

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Strongman appointed to new leadership role

Professor Kenneth Strongman, an international authority in the psychology of emotion, has been appointed Pro-Vice-Chancellor for the University of Canterbury's new College of Arts from 1 January 2004.

The Vice-Chancellor, Professor Roy Sharp, said he was delighted with the appointment.

"He brings to the position an international reputation as a scholar and combines that with management experience and an understanding of the New Zealand university scene. Those qualities, and his proven success at Canterbury, meant Professor Strongman was the clear choice for the position from an international field of candidates.

"I am pleased to be able to announce such a strong appointment as the first of the five new positions and look forward to his leadership of the College of Arts," Professor Sharp said.

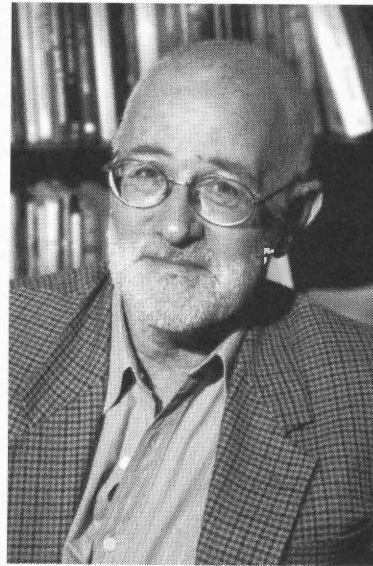
The appointment is the first to the new PVC positions that will head four Colleges and a School of Law in a university structure which takes effect on 1 January 2004.

Appointments to the PVC positions in Law and in Business and Economics are anticipated before Christmas, with the Engineering and Science positions in the New Year.

Professor Strongman has an international reputation as a scholar and is a world authority on the psychology of emotion. He is the author of 10 books, 64 academic papers in refereed journals, 10 book chapters and a host of book reviews, conference and seminar presentations, and invited addresses. His book, *The Psychology of Emotion*, is in its fifth edition and has been the definitive work on the subject since 1973.

For many years he has also reviewed television and popular fiction and many readers of *The Press* newspaper will be familiar with his book reviews, particularly of crime fiction.

His standing in the field of psychology has earned him Fellowship of the Royal Society of New Zealand, the British Psychological Society and the New Zealand Psychological Society. He was the inaugural Chair of the Psychologists' Board, serving for



Professor Kenneth Strongman

six years and helping establish a structure for the professional side of psychology in New Zealand and the registration of psychologists.

During a 40-year teaching and research career Professor Strongman has taught a wide range of courses in psychology at five universities and supervised more than 100 students for higher degrees.

He has also had extensive administrative experience, serving

as Head of the Psychology Department for one year at Exeter University and for 15 years at Canterbury, as well as serving a one-year term as Head of Canterbury's Asian Languages Department. For six years he was Chair of the Arts Centre of Christchurch Trust Board, with responsibility for an annual budget of \$6 million. He was appointed to the Senior Management Team at Canterbury in 2003, with responsibility for the College of Arts.

Professor Strongman was born and raised in England, completing BSc Honours and PhD degrees at London University. He was appointed a lecturer at Exeter University in 1964, rising to senior lecturer and acting HOD before being appointed to the chair in psychology at Canterbury. In addition to his roles at Canterbury, he has been a visiting professor at the University of Victoria, British Columbia, and is an Honorary Research Fellow at The Open Polytechnic of New Zealand.



Canterbury student awarded Woolf Fisher Scholarship

Biochemistry Honours student Jane Allison has been awarded an inaugural Woolf Fisher Scholarship valued at \$100,000 a year.

Jane is one of three New Zealand university students to be awarded the scholarship which is for doctoral study at either Cambridge or Oxford Universities. The 21-year-old is opting for Cambridge where she plans to study biochemistry at the Cavendish Laboratory. She will be working on ground-breaking protein research which could help in the prevention and cure of diseases such as Alzheimer's, diabetes, Parkinson's and Creutzfeldt-Jakob Disease.

The scholarship is awarded by the Woolf Fisher Trust, a New Zealand-based organisation that recognises and rewards excellence in education. It is worth up to \$100,000 annually for three or four years of study making it among the



Jane Allison

most valuable scholarships awarded in New Zealand.

Jane will receive a maintenance allowance of £10,000 (NZ\$26,800) per year, full payment of her University and College fees and an annual London-New Zealand return economy airfare.

Dr Nigel Evans, Secretary of the Woolf Fisher Trust, said the calibre of applicants for the scholarships was outstanding.

"We knew there would be no shortage of applications. The standard of the top graduate students in New Zealand universities is extremely high," he said.

Jane's academic record is outstanding. During her BSc Honours study she achieved A+ in all her papers, which included biochemistry, mathematics, genetics and zoology.

While Jane has a first-class academic records, Dr Evans also highlighted the broader entry criteria for the Woolf Fisher Scholarships.

"Sir Woolf Fisher admired integrity, kindness, generosity, leadership and boldness of vision, along with exceptional zeal, keenness and capacity for work. Jane Allison, Alexis Kalderimis (Victoria) and

Rohan King (Auckland) display many of these qualities and thoroughly deserve their scholarships.

"I'm also pleased that all the scholars have expressed a strong desire to return to work in New Zealand," Dr Evans said.

Jane hopes to start her doctoral studies next October.

Name change

The University Council has approved a name change for Computer Science, which is to become the Department of Computer Science and Software Engineering.

The rationale behind the name change is that the new name more accurately reflects the department's main areas of interest and helps make clear the department's expertise in software engineering.

Brian Wybourne's passing mourned around the world

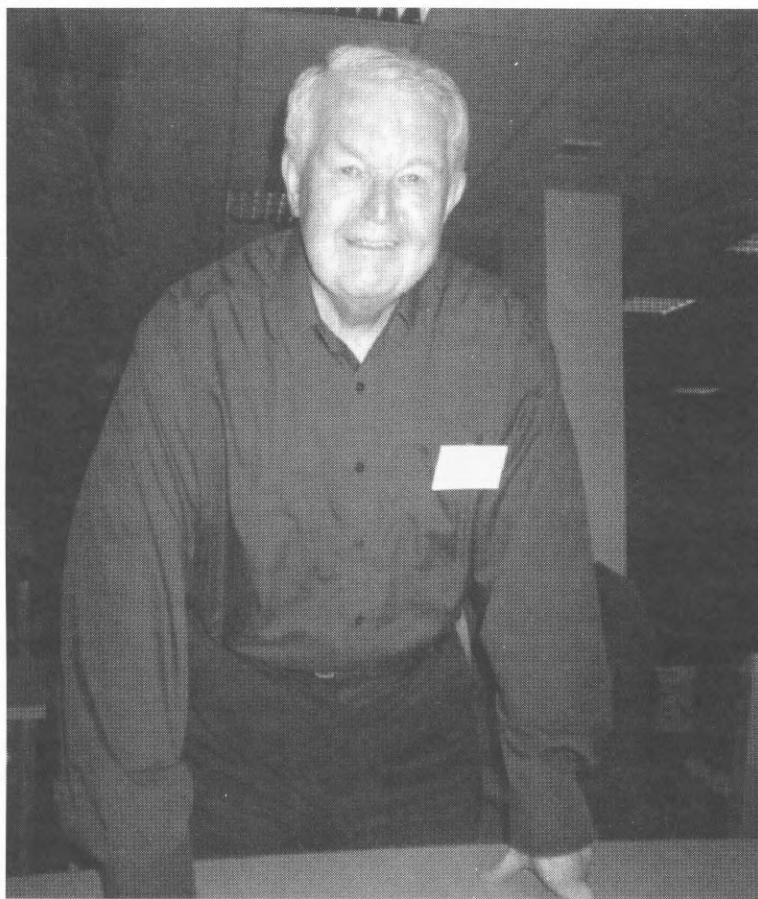
Retired physicist Professor Brian Wybourne has died in Torun, Poland, at the age of 68.

News of his death has saddened his colleagues and former students in the Physics and Astronomy Department where he taught for more than 20 years.

Professor Wybourne graduated with an MSc from Canterbury in 1958 and a PhD in 1960. He returned to Canterbury in 1966 as the Physics Department's first holder of the "second chair in physics". He served on many University committees and was head of department during most of the 1980s before retiring in 1991 and settling in Poland – his "Polish Odyssey", as he called the last 13 years of his life.

"He greatly enjoyed his retirement from administrative tasks, and he has been very productive scientifically since," said Head of Physics and Astronomy Professor Phil Butler.

Professor Butler was one of Professor Wybourne's first New Zealand PhD students and regarded him as "the person who inspired my scientific directions". "Brian's career began with theoretical work on rare-earth spectroscopy. It is still a real strength of this department. But Brian's interests expanded into uses of group theory and the theory of group representations across most areas of physics and chemistry."



Professor Brian Wybourne

Friend and long-time colleague Emeritus Professor Geoff Stedman said, "Brian was, in any estimation, a most remarkable man and physicist and for us, a good personal friend".

Senior lecturer Dr William Tobin arrived at Canterbury in 1987 and found Professor Wybourne to be an immensely supportive HOD.

"It was a time when many in the department hoped to make riches

through goat fibre, and I remember one day finding a goat carcass outside my office door. Goats were not making the Wybournes rich, but they did feed the Tobins, and very well too, since goat meat is delicious.

"There are some people whom you will remember always. Brian was one of them."

Ill health prevented Professor Wybourne travelling to New Zealand in recent years but many staff and

former students of the department visited him in Europe.

Senior lecturer Dr Jenni Adams first met Professor Wybourne when she was a first-year physics student at Canterbury. Last year she decided to visit her old professor in Poland while on Erskine leave.

"I remembered him as very clever and also very enthusiastic so I thought it would be fun to visit him. This last-minute decision turned out to be one of the highlights of my Erskine leave. I had a great time in Torun and talked to lots of the students who visited Brian regularly to talk about science and practise their English.

"It was clear that Brian was still inspiring many students just as successfully as when he had inspired me 10 years earlier," Dr Adams said.

Kind words are flowing in to the department from some of the many physicists and mathematicians who have known Professor Wybourne and his work.

"In spite of not having met Brian personally, he was company for my studies in symmetric functions so much that I considered him to be a 'friend' at least in scientific means," wrote Dr Bertfried Fauser of the University of Konstanz.

"His humorous writings and deep insights lucidly developed in his writings will not only be missed by me but by all of his admirers."



Library rates highly in Australasian survey

When it comes to service, the University of Canterbury Library is tops in Australasia.

The Library has just released the findings of its first Customer Survey which it carried out in September.

"The Library has performed extremely well, both in the level of satisfaction of users, and when benchmarked against other Australasian university libraries," University Librarian Gail Pattie said.

Respondents were asked to rate 35 statements in terms of importance to

them and their perception of the library's performance. The statements were grouped into five categories – communication, service quality, service delivery, facilities and equipment, and library staff.

Of the 2173 responses, 52% rated their satisfaction as extremely high, another 35% as high and only 1% as extremely low.

"In relation to the other 34 Australasian university libraries who have undertaken this survey we performed in the top 25% for all

categories and we scored the highest of any library in the service delivery category.

"Our 10 highest performing variables related to library staff – our courteousness and friendliness, our demonstration of fairness, clarity, accuracy, usefulness, professionalism and competence, and the overall quality of service by library staff," said Ms Pattie.

The lowest performing variables related to the number of computer workstations, adequacy of

computer facilities and electronic equipment and the adequacy of the library collection for respondents needs.

Ms Pattie said the 403-page report contained a wealth of information on particular user groups and libraries on campus.

"We will be working through these in the near future to more closely identify customer needs and how we can address them."

High-ranking German visits University's collaborative projects



(Left) His Excellency Wolfgang Thierse inspects one of four ring lasers in the Cashmere Cavern. (Right) The delegation hears from Professor Ulli Schreiber (third from left) deep in the heart of the cavern.

Photos by Duncan Show-Brown, C&D

The President of the German Parliament, His Excellency Herr Wolfgang Thierse, visited the University last week to see first-hand some of the collaborative research projects being carried out between Canterbury and German institutions.

Herr Thierse, who is the second-highest ranking politician in Germany, viewed the ring laser at the Cashmere Cavern, met with German students and staff involved in nanotechnology and atmospheric physics in the Department of Physics and Astronomy, and viewed earthquake engineering research in the Department of Civil Engineering. He also heard a presentation from Professor Jack Baggaley on his work with the European Space Agency and partners in Germany in tracking microscopic dust in the solar system.

It is 26 years since the New Zealand-German Agreement on Scientific and Technological Cooperation was signed, paving the way for student and scientist exchanges between the two

countries as well as a number of collaborative projects.

The biggest of the Canterbury projects is the \$30 million ring laser project which began in 1987, using the properties of ring lasers to measure local variations in the Earth's rotation and investigate some fundamental questions about physical forces.

In 1988 the prototype ring laser was installed in the Cashmere Cavern, an abandoned World War 2 military command post bunker in the hills behind Princess Margaret Hospital. The cave is an ideal laboratory for sensitive geophysical measurements as it is thermally and mechanically very stable.

The Canterbury group, in collaboration with the Technical University of Munich and the German Federal Institute for Cartography and Geodesy, have built a series of increasingly sophisticated ring lasers. Four lasers are now installed at the cavern, a fifth in the Physics Department and one in Wetzell, Bavaria. It is hoped to build another one soon in Arkansas in the United States.

The PR-1 ring laser in the Physics Department is an example of a commercial spin-off, built by University technicians and a company in Berlin. It is a prototype of a ring which may be used by civil engineers in assessing the rotational response of buildings to earthquakes.

Head of Physics and Astronomy, Professor Phil Butler, said the visit by such a high-ranking German official reflected the importance Germany placed on the ongoing scientific and technological co-operation between the two countries. "The ring laser project is one of the icons of the partnerships but it is a partnership characterised for its breadth of research with exchange students also working in the areas of atmospheric science, nanotechnology, general theory and mechanical engineering to name just the pics seen by Herr Thierse," Professor Butler said.

"Canterbury University is fortunate to have built up such collaborations, with such excellent outcomes, over a long period."

Physics lecturer Dr David Wiltshire told the visiting German delegation

that the ring laser project was an example of what could be achieved through pooling resources.

"We are in the business of making measurements of distant earthquakes, the motion of the earth's crust in response to the tides, the small movement of the rotation axis of the Earth, and much more – measurements that are only possible with two or more instruments at widely separated points on the Earth.

"The fact that these two points are in New Zealand and Germany, however, has more to do with human factors than purely scientific ones. In both countries we have scientists with the vision of dreaming up this innovation, and the technicians with the skills of pulling it off," Dr Wiltshire said.

"Today we function as a single team in three countries. Professor Ulli Schreiber spends a few months of every year here in Christchurch. We regularly send our students and technicians to Germany. The project is growing all the time."



Conference Office passes biggest challenge with flying colours

The University's Conference Office has just staged its most challenging event on campus.

The Third International Wildlife Management Congress, hosted by Manaaki Whenua/Landcare Research, The Wildlife Society (USA), Australian Wildlife Management Society and Ngai Tahu, was held at the University of Canterbury from 1-5 December.

About 900 delegates from more than 50 countries attended the congress, the first time the meeting has been held in the southern hemisphere.

The Conference Office faced scheduling venues for around 800 oral and poster presentations and 17 trade exhibitors. In addition there were 128 bus transfers, four field trips and four post congress tours to arrange.

The Conference Office had been working on the congress for the past three years. In November 2000, representatives from Landcare Research and the Wildlife Society (USA) met with Conference Office Manager Margaret Brown, and the Canterbury campus was chosen as the venue. Ms Brown said the organising committee liked the layout, size, park-like environment, modern lecture theatres and close proximity of the halls of residence.

"From the Conference Office perspective everything went



Images from the Third International Wildlife Management Congress which attracted 900 delegates from 51 countries.

extremely well and we had lots of positive feedback," said Ms Brown. "The general feeling was that it was the sort of Congress that fitted a university campus and the delegates were delighted with the facilities. We used Central and A Blocks for oral presentations. The vaults in Commerce were used for email access and checking presentations. The posters were upstairs in Central Lecture Block and the registration desk was located downstairs. The marquee erected in front of the Central Lecture Block was used for the trade exhibition and catering. "It was great that we were able to keep the 900 registrants contained in such a close area on the campus," said Ms Brown.

"Of course the weather was excellent and that was a major plus. It could well have been a different scenario if we had experienced cold, wet weather. People enjoyed sitting on the grass chatting, eating and drinking.

"Logistically this Congress was challenging and thanks must go to the campus staff who played a significant role in ensuring the success of the event, particularly IT/AV, Facilities Management, the Warehouse, Printery, Security, Finance, Halls of Residence and other Cont Ed staff who assisted in the lead-up."



Bequest enables purchase of valuable research indexes

Thanks to a bequest made to the Library by Ernest Adams, the University of Canterbury now has access to *Web of Science* backfiles dating back to 1975.

Web of Science is a web-based, multidisciplinary resource comprising three databases: the Science Citation Index, the Social Sciences Citation Index and the Arts and Humanities Citation Index.

The University first subscribed to the *Web of Science* in 1999 and at the time purchased backfiles to 1995. The Ernest Adams bequest has allowed the purchase of a further 20 years of backfiles at a cost of more than \$490,000.

"This makes us the only New Zealand university to have such comprehensive coverage of this resource," said Collection Services Manager Teresa Horn.

The University of Canterbury Foundation acted as intermediary in bringing the important acquisition to fruition. Foundation Chairman Dr Susan Wakefield said both present and future researchers would benefit from the investment.

"The Adams family join our trustees in congratulating the Library on its choice."

Two of Ernest Adams' sons, Hugh and Peter, attended a launch of *Web of Science*, and saw Catherine Jane,

Information Librarian, demonstrate its many features.

Web of Science provides fast access to approximately 8500 research publications which are indexed and updated weekly. The database has a citation function which allows access to cited references from the indexed articles.

"It is possible to trace a document's origin and follow through to its position in the current research literature. No other database accomplishes this across such a wide range of disciplines. The extent of the backfile available greatly enhances this functionality," said Ms Horn.

The abstracts in *Web of Science* enable researchers to identify relevant articles which, if published in journals not held by the University, can be obtained quickly from other sources due to advances in electronic document delivery.

"Access to the research literature is essential for an organisation aiming to be a premier research institution. One cannot compete successfully without it. *Web of Science* backfiles facilitate individual staff research, increase faculty efficiency, and enhance Canterbury's attractiveness to both postgraduate students and overseas academics."

Researchers to do follow-up reproduction study

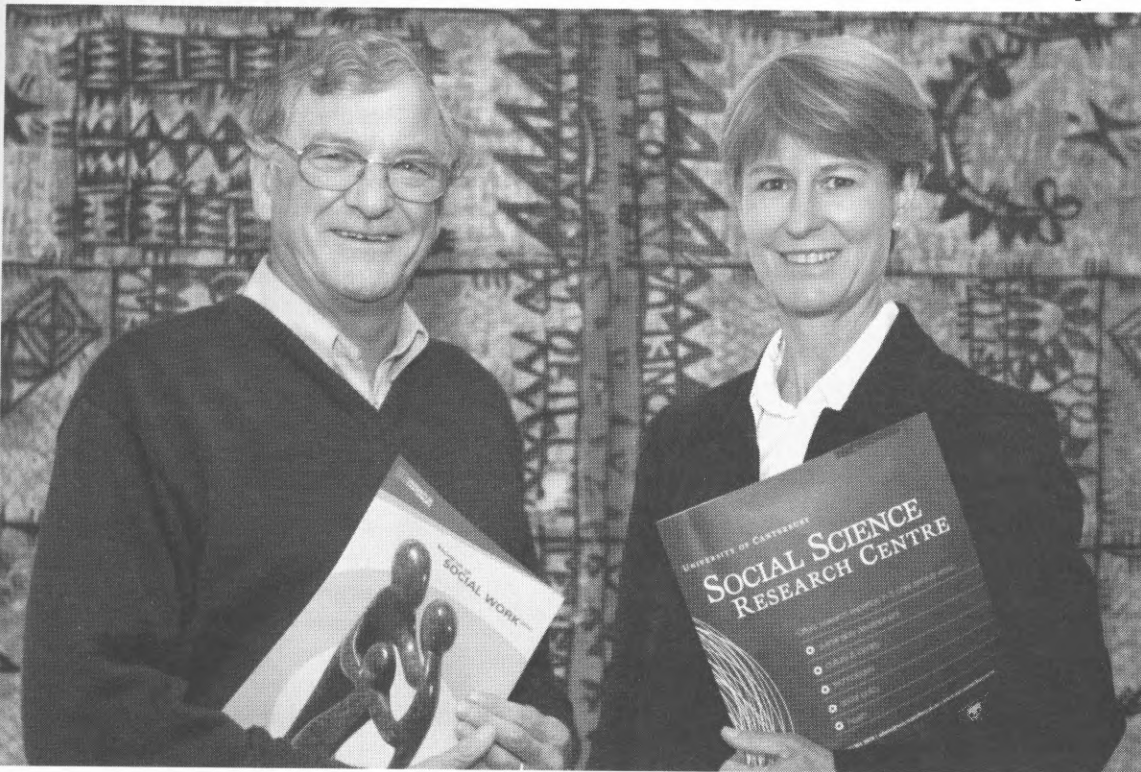


Photo by Duncan Shaw-Brown, C&D

Associate Professor Ken Daniels and Dr Victoria Grace hope to discover what impact donor insemination has had on family relationships.

A group of South Island couples, who 15 years ago were interviewed about having a child using donor insemination, will be the focus of a follow-up investigation with the help of a major grant from the Health Research Council.

Social Work Associate Professor Ken Daniels, who did the original study, and Dr Victoria Grace, Senior Research Fellow and Senior Lecturer in Social Sciences, have been granted \$352,000 over 21 months to do a follow-up study of the 57 families. Associate Professor Wayne Gillett, obstetrician and gynaecologist from the University of Otago who was involved in the first study, will again be associated with the follow-up study.

Professor Daniels, the research team leader, said the children then had been aged between one and four years and were therefore now in their mid to late-teens.

The focus of the study is on the families that were built with the assistance of donor insemination and in particular what has happened to those families.

"We want to talk to the parents and find out what impact donor insemination has had on their family relationships and well-being

and in particular whether they have shared with the children/offspring, how their family was formed. Very little information exists in this area and this study will be the first in the world which includes offspring of this age.

"We have a unique opportunity in that all the parents indicated at the time of the first interview that they would be willing to be contacted in the future."

It is not known how many of the offspring know of the nature of their conception. Where they do know, parents will be asked if they would agree to their offspring being involved in a study that focused specifically on them.

"We would like to know the impact it has had on their lives and how they see themselves and their families", said Professor Daniels.

As the research aims to understand the problems and issues of concern to parents as they make decisions about telling or not telling their offspring about their genetic histories, there is also an interest in finding out how they understand the significance of genetic inheritance.

"We are wanting to explore understandings of genetic inheritance, and how these

understandings might have evolved in the intervening years since the first study. Understanding how people who are not scientists make sense of genetics and processes of genetic inheritance, is central to the social issues in this field of assisted human reproduction," Dr Grace said.

Twenty years ago, men could donate sperm on the basis that their identity would never be revealed.

"The emphasis then was on keeping their identity secret. Offspring in this study might never be able to find out their genetic heritage if the donors decide they want to continue to remain anonymous and with genetic history becoming increasingly important in the health field this would be an important loss. It is also a loss from a psychosocial perspective as the studies from adoption have taught us," Professor Daniels said.

But for the last few years clinics have been operating on the basis that donors must agree to being identified when the children reach maturity, if they wish to. Legislation is now before the Health Select Committee which will formalise this policy and provide for the keeping of records.

University Council news

From the University Council meeting of 26 November:

- The two student representatives on Council in 2004 will be Students' Association President-elect Peter Martin and former president and current Council member Jarrod Gilbert.
- Dr Roy Holmes was re-elected to a further term on the Finance, Planning and Resources Committee, for a period of one year starting on 1 January 2004.
- Mr John Simpson was appointed for a three-year term to the Audit and Risk Committee as a lay member appointed by Council, starting on 1 January 2004.
- A revised budget forecast for 2003 predicts a surplus of \$2.988 million, \$269,000 ahead of the original budget.
- Council has agreed on a UC Council Governance Protocol, which will be incorporated into the Council's Policies and Procedures for 2004.
- A working party has been set up to consider how the Academic Board might best perform its statutory role in the future given the new structure for 2004. The working party comprises the Deputy Vice-Chancellor, Pro-Vice-Chancellor (Academic), President of UCSA and three members elected by the Board. The working party will report back to the February meeting of the Academic Board.
- The Chancellor, Dr Robin Mann, thanked the Council for the important role members had played in 2003 and expressed his appreciation to the Vice-Chancellor and staff for their achievements. Good progress was being made on various fronts within the University and on an understanding by Council members of the governance role, he said. He ended by thanking UCSA President Richard Neal for his contribution to Council for the last three years, and wishing him well for the future.



Group formed to promote antiquities' collection



Professor Tim Parkin (left) and Emeritus Professor Don Beaven at the launch of PhiloLogie.

A group, Friends of the James Logie Memorial Collection, has been formed to encourage a wider appreciation and enjoyment of the University's Logie Collection.

The James Logie Memorial Collection of Greek and Roman artefacts is one of the southern hemisphere's finest collections of material from the Ancient World. Housed in the School of Classics and Linguistics, the collection has considerable aesthetic and cultural importance for the community as well as being an important teaching resource for the University.

The Friends of the James Logie Memorial Collection – PhiloLogie for short – has been set up as a

charitable trust and an inaugural general meeting was held last week for interested people. About 50 people attended the launch, including the Vice-Chancellor, Professor Roy Sharp, and former Chancellor Dame Phyllis Guthardt. Judge Stephen Erber was elected President of the six-member executive committee with Mr Naylor Hillary elected secretary/treasurer.

The group aims to promote public awareness of, and support for the Logie Collection. It will encourage financial support for the enhancement of the collection under the aegis of the University of Canterbury Foundation as well as encourage the acquisition of

materials by donation, loan and purchase. It will also encourage research and use of the material held in the collection.

Vases and other pottery items from the Archaic period onwards form the bulk of the collection, although marble items of the Roman period, such as a statue of the goddess Cybele, are included. The collection includes some highly prized black-figure amphorae, including the Stilts vase by the Swing painter.

- If you are interested in joining PhiloLogie, please contact Mrs Cecilia King, Administrator, Department of Classics, ext 8580.



Chancellor and Pro-Chancellor re-elected for 2004

Dr Robin Mann and Mr John Simpson have been re-elected unopposed to the positions of Chancellor and Pro-Chancellor respectively at the University of Canterbury for 2004.

Dr Mann, who was managing director and chief executive of the tannery G L Bowron and Co Ltd from 1984 until his retirement in 2000, has been Chancellor since the beginning of the year. The Chancellor is head of the University's governing body, the University Council, and its ceremonial head.

Dr Mann has BSc, MSc and PhD degrees in chemistry from the University of Canterbury and is a Fellow of the New Zealand Institute of Chemistry, a Fellow of the New Zealand Institute of Management and a Life Member of the New Zealand Tanners' Association.

Mr Simpson, who took up his role as Pro-Chancellor at the start of the year, also chairs the University's Finance, Planning and Resources Committee. He is Company Secretary and Adviser to the Chief Executive Officer of Jade Software Corporation.

New HODs named

Dr Yvonne Shanahan and Mr Adrian Sawyer have been appointed new joint Heads of Department for Accountancy, Finance and Information Systems. They take over from Mrs Quita McNally and Mr John Walsh.

Professor Garry Hornby has been appointed Head of the School of Education for a three year term. He replaces Dr Elody Rathgen.

FREE GRADUATION SHUTTLE

Take advantage of our FREE graduation shuttle service. For graduands, staff, friends & family.

GETTING TO GRADUATION

Shuttles depart from the Fine Arts Car-park (Clyde Road end of Arts Road or University Drive)
12.00 noon, 12.20, 12.40, 1.00, 1.30
Route: First stop – The Arts Centre (for graduands) then onto the Town Hall for supporters.

AVOID PARKING HASSLES, METER MONEY AND STRESS

17 December

RETURN TRIP

Shuttles depart from outside the Town Hall on Kilmore Street
4.30, 4.50, 5.10, 5.30
Route: First stop – The Arts Centre then back to the Fine Arts Car-park at the University of Canterbury.

For enquiries contact the Alumni Office, Ph (03) 364-2913

Student presentations highlight contribution to industry

The important partnership between the University and local businesses was showcased last month by students of the Master of Engineering Management (MEM) programme.

The MEM is a 12-month degree for graduates with good technical degrees who want to gain in insight into the real business world into which they will use their technical skills. As part of the course students must complete a six-month industry-based project.

For many companies, especially small-medium enterprises that do not have the financial, human or technical resources to undertake extensive strategic projects, the involvement of students is invaluable.

Seventeen students presented their projects to an enthusiastic audience of business leaders at the Crowne Plaza Hotel on Friday 28 November.

Director of the MEM Programme, Mr Raiyo Nariman, said the feedback had been extremely positive.

"We had an excellent turn out of people from industry, from large companies such as Air New Zealand through to a significant number of SMEs, all of whom were looking at taking on MEM students in 2004 for potential projects.

"We also had a very strong presence from some of the top



(Front, left to right) John Walley, CEO of the Canterbury Manufacturers Association, Dr Tony Bowen, HOD of Mechanical Engineering, Raiyo Nariman, Director Engineering Management Programme, Professor John Raine, Pro-Vice-Chancellor (Enterprise and International); (Back, left to right) 2003 MEM students Pei Ling Tee, Stephen Volich and Alan Chai.

economic development agencies and organisations including the Canterbury Development Corporation, Canterbury Employers Chamber of Commerce, Canterbury Manufacturers Association, Canterbury Innovation Incubator, New Zealand Trade and Enterprise, and the Tertiary Education Commission.

"They were very impressed with the quality of the students, the presentations were very professionally delivered and the

actual content and projects the students were working on was commended," said Mr Nariman.

The projects included an investigation and evaluation of new hardware and software systems for the management of inventory at Navman manufacturing facilities, the development of a marketing strategy and plan for a school providing services to international students in the ESOL arena, and developing specifications for the next generation of products for a

number of high-tech companies based at the Canterbury Innovation Incubator.

"The morning was an excellent way to showcase the value of the MEM projects," said Mr Nariman. The projects are a chance to get some important commercial research done. The return re the amount of money the organisations put in and their time is a fraction of the return they get."

Professor John Raine, Pro-Vice-Chancellor (Enterprise and International), said the MEM programme was of great value to the University through the input students gave to pre-commercial technology innovation projects and through the project work carried out in partnership with local industry.

"The project presentations are a celebration of the quality and variety of these projects, the value they offer to the University and our business partners, and the fellowship that students and course lecturers enjoy on this programme.

"It is important that we continue to develop and expand this programme to increase the impact of technology management and entrepreneurial education in the Canterbury region and nationally," said Professor Raine.



The achievement, or not, of the equality of education, subject of new book

The relationship between social class and education is explored in a new book published by the Canterbury University Press.

Yesterday's Dreams looks at the underlying moral and social principle of "equality of education" which has guided education in the Western democracies for more than 50 years. It was through a sincere application of this principle that a meritocratic society was to be achieved in the post-war era but, as *Yesterday's Dream* illustrates, the pursuit of equality within education has been beset with difficulties.

The book's editors are Dr John Freeman-Moir, Dean of

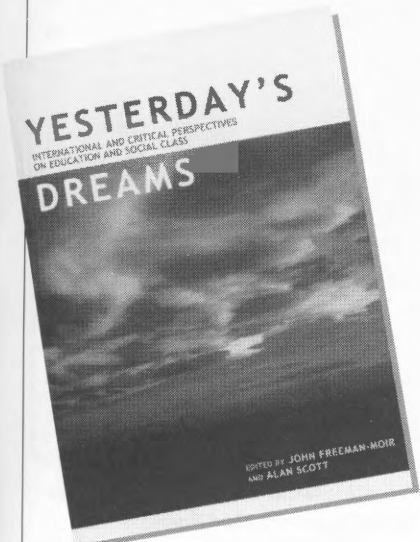
Undergraduate Studies and a lecturer in Education at Canterbury University, and Alan Scott, Head of the Centre for Performing Arts at the Christchurch College of Education. Lending their weight to the debate are leading educationalists and social theorists including Michael Apple, Peter McLaren, Michael Peters, Stanley Aronowitz, Elizabeth Kelly and Hugh Lauder. With chapters from New Zealand, Australia, the United Kingdom, the United States, Canada and South Africa, the book gives an international perspective

on the relationship between social class and schooling.

Speaking at the launch of the book, Christchurch College of Education Principal Dr Ian Hall said *Yesterday's Dreams* succeeded in bringing together a "very credible" and "challenging" selection of international readings on the subject.

"The book questions whether, after 50 years of social democracy, working class children have a better chance of a good education."

• *Yesterday's Dreams*, Editors John Freeman-Moir and Alan Scott. Paperback, A5, 320 pp, \$59.95.



Call for help with Hight biography

No-one has had a longer and more influential role in the history of the University of Canterbury than Sir James Hight (1870-1958).

Enrolling at Canterbury College in 1891, he graduated with first-class honours in 1894. First appointed to the staff as lecturer in 1909, he was promoted to a professorship in 1909. Having directed studies in several fields, he was finally appointed professor of history and political science in 1919. His long service to college and university ended in 1947.

A scholarly and conscientious teaching record was matched by leadership in university administration and public service. His calm and informed assessment of issues and policies was invaluable. As second rector (1928-41) Sir James guided the college through difficult and controversial times. His integrity and unflappability enabled him to cope with fractious colleagues and financial crises.

Sir James was a strong advocate of university independence. He did not live to see the University of Canterbury (1963), but to him we owe much of the essential preparation for it.

The University's acknowledgement of his achievements is given substantial form in its central building, the library tower, named

in his honour. However, some of his surviving graduates suggest that preparations for a biography of their mentor is long overdue. Unless preliminary research is undertaken now, much information may be lost beyond recall.

Two lines of research are suggested. The first is an appeal to former students, or their

families, for letters, photographs, newspaper extracts, and other relevant material. Arrangements can also be made for interviews. Information about people who could be approached would also be welcome.

Alternatively, interested persons are invited to consider undertaking research into specific and limited aspects of Hight's life and career, for example family background in England and Ireland, migration to New Zealand, farming background, school and pupil-teaching record, school publications.

This work would have to be entirely voluntary and without payment, but would carry its own satisfactions.

- If you would like to help with the project, please contact Jim Gardner, phone 352 9088 or John Small, phone and fax, 384 3225 www.johnsmall@hotmail.com.

Jim Gardner



Allen ✕

Graduation to cap off academic year

Two higher doctorates, the University's Research Medal, and nine Teaching Awards will be highlights of next Wednesday's University of Canterbury pre-Christmas graduation ceremony.

About 420 students from across all disciplines will be capped in the Christchurch Town Hall ceremony on 17 December.

Economist Brian Easton and UC School of Music lecturer and composer Chris Cree Brown will receive higher doctorates.

Brian Easton holds degrees in mathematics and economics from Canterbury, and in economics from Victoria University of Wellington. He will receive a Doctor of Science (DSc) for his research on the political economy of New Zealand.

Internationally acclaimed composer Chris Cree Brown will be awarded what is believed to be the first Doctor of Music (MusD) degree by the University, for distinction in musical composition.

The University's Research Medal for 2003 will be presented to Chemistry academic Professor Jim Coxon. Deputy Vice-

Chancellor Professor Bob Kirk will give the citation.

Professor Coxon earned his PhD from Canterbury and has worked at the University since 1967. His research for many years has focused on organic reactions involving molecular rearrangement.

Nine teaching awards will be presented to University staff for excellence in teaching achievement. They will be introduced by Pro-Vice Chancellor (Academic) Dr Jan Cameron.

The procession starts at 1.20pm at the Arts Centre's Market Square and proceeds east along Worcester Boulevard to Cathedral Square before moving north along Colombo Street and through Victoria Square to the Town Hall. Chancellor of the University Dr Robin Mann will oversee proceedings and the graduation address will be given by Dr Lesley McTurk, the Chief Executive Officer of the Christchurch City Council.

Dr Edwina Palmer, lecturer in the School of Languages and Cultures, will be the madam bedel leading the procession.

Ensuring all are safe on campus

Ensuring the safety of all on campus has taken on new meaning for security guard Doris Moser.

For the past two months Ms Moser has been keeping a protective eye on a family of ducks which has taken up residency in the pond at the base of the James Hight Library Tower.

Thanks to Ms Moser's tender loving care, all 10 ducklings have survived and are doing well.

"I bring in two or three loaves of bread a day to feed them and I have been known to get into the pond to rescue the ducklings from other ducks."

Ms Moser has now got a loyal following and often has to run to get away from the devoted flock.

"I walked into the Wildlife Management Congress the other

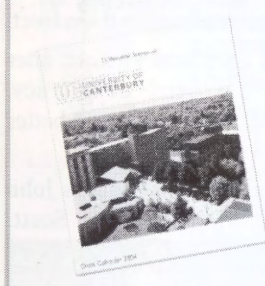
day and they all followed. I had to turn around and walk straight back out."



Doris Moser is accompanied on her round by her devoted flock.

Photo by Duncan Shaw-Brown, C&D

2004 UC Desk Calendar - \$9.95



Features 13 scenes from the University of Canterbury. Ideal as a gift for friends or family.

Available from the Alumni Office, Level 5 of Registry, open 8.30am-5pm, Mon-Fri. All sales contribute to the Alumni Association's Student Scholarship Fund.

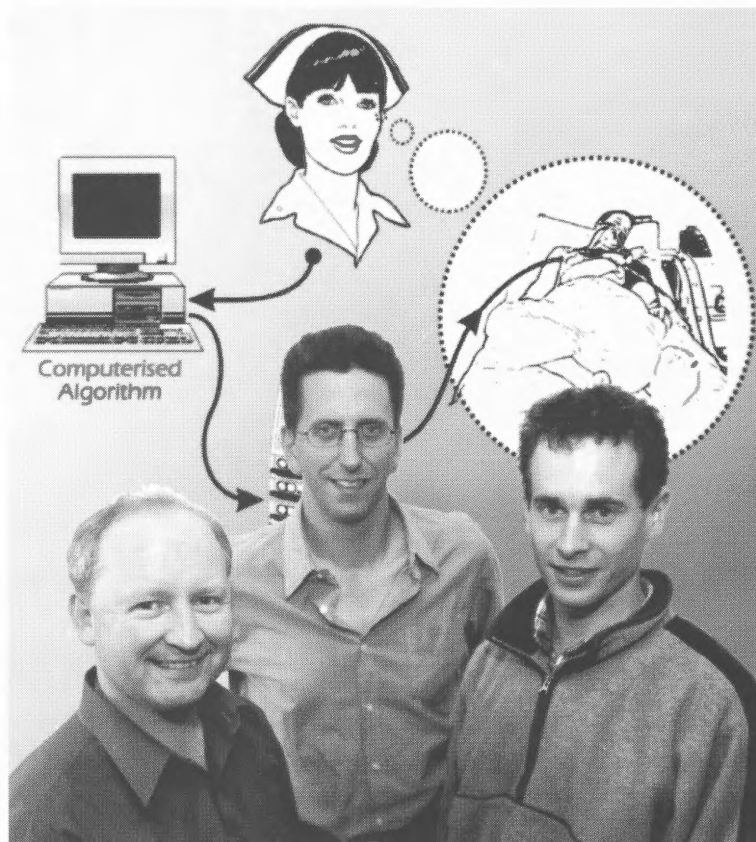
FRST funding for diagnostic tool research

University of Canterbury researchers have made a major advance in developing a diagnostic tool that will aid quick, patient-specific diagnosis of heart dysfunction.

Dr Christopher Hann, who is joining the University's Mechanical Engineering Department as a post-doctoral fellow working with Dr Geoff Chase, has been granted a Foundation for Research Science and Technology Postdoctoral Fellowship worth more than \$200,000 to take the system to the next stage.

Dr Chase, PhD student Bram Smith and Dr Chase's colleague, Dr Geoff Shaw of the Canterbury District Health Board and University of Otago School of Medicine, have developed a model of the human cardio-vascular system, which focuses on the dynamics of the two ventricles, the primary pumps in the heart, and their interaction with the circulation.

Dr Chase says the model is more stable and accurate than its predecessors are. "It is capable of matching a wide variety of measured physiological data, as well as providing additional insight on how



(Left to right) Dr Geoff Shaw, Dr Geoff Chase and Dr Chris Hann hope to be testing the first patient-specific tool in the next few years.

the heart functions and interacts with the rest of the circulation.

"In the critical care unit (ICU) such models would be very useful in

aiding diagnosis of different dysfunction. But to do that we require the ability to make the system patient-specific so that it matches that specific patient rather than a more general situation."

The project is about developing the optimisation methods and determining how many, and which specific measurements are needed to make the system "fit" a patient's particular symptoms. More specifically, they are hoping to develop a system that uses measurements of blood pressures and flows, which are commonly available in critical care units, to create these patient specific models.

"Once we have that method we will have a tool that will be useful in directing patient diagnosis and care in ICU. A physician will be able to, in a few minutes, diagnose what's wrong and what's going on, pick a treatment method, and simulate the effect of that treatment method and/or determine how much of it, such as a drug, is needed."

Dr Chase is hopeful the team will be testing the first patient-specific tool in the next few years. He believes it will eventually have useful

applications in other areas of clinical medicine, in research, and in obtaining further insight into how the circulation and its reflex actions work.



Powhiri for new lecturers

The Māori Department has welcomed its two newest members of staff with a powhiri attended by University staff, family and friends.

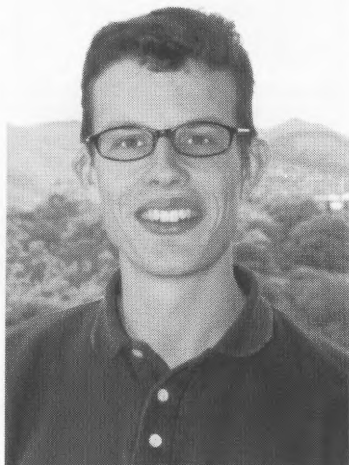
Rawiri Taonui has joined the department as Senior Lecturer. Mr Taonui gained a Master of Arts (First Class Honours) in Māori Studies from Auckland University in 1995 and two years later graduated with a Diploma of Business (Māori Business Development). He was an assistant lecturer at Auckland's Department of Māori Studies from 1993-97 and since 1998 has been lecturing in history.

Lecturer Lindsey Te Ata o Tu MacDonald joined the department earlier this year. A former lecturer in political studies at Auckland University, Mr MacDonald's major research area is the political philosophy of property and indigenous rights.

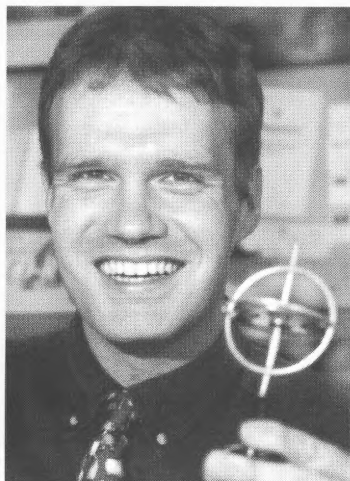


Senior lecturer Rawiri Taonui was supported at the powhiri by partner Rhia Fa' amassili and their two-month-old son Hawaiki.

Canterbury welcomes new lecturers



Dr Eric Crampton has been appointed lecturer in the Department of Economics. Dr Crampton has just completed a PhD in economics from George Mason University in Fairfax, Virginia. In 2002-2003 he worked as a research fellow at the Mercatus Center in Arlington, Virginia.



Dr Richard Watts has been appointed lecturer in the Department of Physics and Astronomy. Dr Watts gained his PhD in physics from the University of York. Since 2001, he has held the post of assistant professor of physics in radiology at Cornell University Medical College in New York.

Photo by Duncan Shaw-Brown, C&D

Photo by Duncan Shaw-Brown, C&D

Subantarctic research unravels clues to NZ sea lion's survival

While most New Zealanders gear up for Christmas parties, shopping and holiday feasts, Canterbury biologist Dr Louise Chilvers is preparing to spend the holidays on a cold and isolated subantarctic island in order to help save the world's rarest sea lion species, the New Zealand sea lion.

New Zealand sea lions are the country's only endemic pinniped (wing-footed marine mammal), and they once occupied most of the country's coastline. However, sealing in the 19th century nearly eliminated the species, restricting the animals to the subantarctic islands. Unlike their close relative, the New Zealand fur seal, New Zealand sea lions have never recovered.

Dr Chilvers, who is on a FRST-funded Postdoctoral Fellowship with Dr Neil Gemmill (Biological Sciences), is part of a team of researchers who are trying to understand why the sea lion population is still so threatened.

December is the prime study time for Dr Chilvers, as it is when females congregate to give birth to their pups. This will be her third summer in the Auckland Islands, where she has been studying a group of about 600 sea lions on Enderby Island.

Dr Chilvers hopes that her research on the feeding and diving behaviour of females will help "get the New Zealand sea lion off the threatened species list". The research will also help in the management of local squid fisheries by determining how trawlers overlap with the foraging patterns of sea lions.

"We have known for some time that trawlers catch sea lions in their nets, but we are now finding that resource competition is also important."



Louise Chilvers (left) and Dr Bruce Robertson, also a University of Canterbury postdoctoral scholar, carry out behavioural observations from a hut on Enderby Island.

The Auckland Islands' fisheries mostly target squid, which probably makes up at least 10-20% of the sea lions' diet, but the fisheries also catch significant amounts of fish, both as by-catch and also during low squid years.

"We're not saying that they're overfishing. But it's like restricting all humans to one island. They are not historically based there, and so any added stress can lead to decline."

Similar studies in the northern hemisphere have shown that populations of a related species, the

stellar sea lion, declined because fisheries removed preferential fish species.

Dr Chilvers has been studying the NZ sea lions' feeding behaviour by attaching a tracking device called a time depth recorder to the females, which records the depth of the sea lion every five seconds. Dr Chilvers can then compare this data against depth maps to determine where the sea lions are feeding.

So far she has collected feeding behaviour data on 18 tagged females. The data indicates that sea lions' feeding patterns overlap



A sea lion pup named Zorro.

considerably with the squid fisheries, and that individual sea lions have very diverse foraging habits. Some individuals prefer to stay close to Enderby and others range more than 150 km away.

This variation among individuals may indicate that sea lions learn specific feeding habits when they are young, and Dr Chilvers is anxious to test these preliminary results further with another season's data.

Dr Chilvers is travelling to Enderby Island with three Department of Conservation staff members who are also studying the sea lion population there.

The team is prepared for another busy Christmas of fieldwork rather than opening presents and eating Christmas cake.

"I'm afraid Christmas day is the same as any other day - if not busier. It is pretty much birth day for the pups, which means we have lots of pups born around that time and therefore lots of weighing and measuring. As for New Year's, we all just sleep through it."

Still, the satisfaction of helping this threatened species survive is great. "There's nothing else I'd rather be doing".

Laura Sessions



The Chronicle team wish readers
a Merry Christmas and a Happy New Year

