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Chronicle

University of Canterbury Christchurch New Zealand

A sense of good fortune

Professor Ian Wood, due to retire at the end of this year, believes he has been very lucky in his career. With very few exceptions, "I've wanted to go to work every day."

"Work" has included the last 22 years as Professor of Civil Engineering at Canterbury. When he took up the third Chair in the department in 1971, Ian Wood was returning to Christchurch after 17 years in Australia.

New Zealand born and schooled, he chose to do engineering at Canterbury and graduated with a BE (Hons) in 1954. The choice was somewhat serendipitous: "I could do sums, so I could do science or engineering, but I didn't like chemistry."

Professor Wood went to Australia in 1954 to do a graduate course in Hydrology at the University of New South Wales, then he moved on to a job with the Major Development Section of the Commonwealth Department of Works. Whilst with the department he did his Masters degree externally through UNSW, completing it in 1958.

It was at that time, when he was appointed a senior engineer in Canberra, that his career took a turn. "I'd have been quite happy to stay forever in practice if they'd kept me on designing dams or something like that, because that was great fun, but it was quite obvious I was going to be moved up in administration." That wasn't for him, so he returned to the University of New

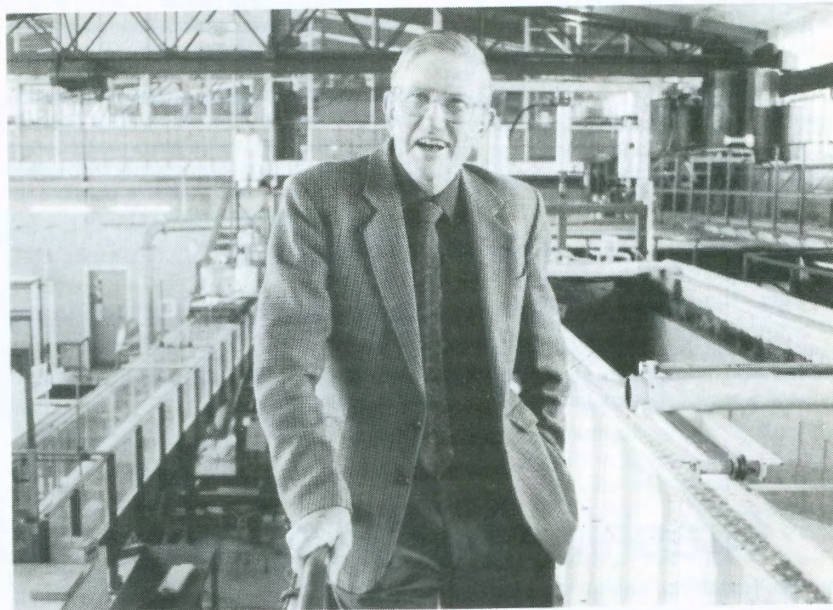


Photo: Duncan Shaw-Brown

South Wales to do a PhD. He was taken on as a lecturer, which was a considerable drop in salary, and he and his wife Pat had three children by then. It was a struggle, but "Pat encouraged me to keep going. All I had to do was find a PhD topic that didn't require much equipment!"

Ian Wood completed his PhD in 1966 and has gone on to have a distinguished university career. His research in hydrau-

lics and fluid mechanics is highly regarded internationally. Generally, his work has been in the application of fluid mechanics to civil engineering problems.

Professor Wood is remarkable in achieving international recognition in two distinct areas of research - the flow of stratified fluids and aerated flows on dam spillways. He has also made a significant contribution to the study of how pollutants are dispersed in rivers and waterways and on the behaviour of ocean and river outfalls. He is soon to have published a book - *Ocean Disposal of Waste Water* - described by the American Society of Civil Engineers as "the definitive work on that subject". His co-authors are Professor D.L. Wilkinson and Mr Rob Bell.

The importance of Professor Wood's research has been widely recognised and he has given guest lectures in many parts of the world. For him this is one of the satisfactions of his chosen profession. "I can go almost anywhere in the world with engineering and I'll have a common basis."

Twice he has been a Senior Visitor at the Department of Applied Mathematics and Theoretical Physics at the University of Cambridge. The first time was in 1966 when he had just finished his PhD. "It was wonderful. I probably did the best work I've ever done, because you have got the time to do it."

External research funding tops \$3.5 million

External research grants totalled more than \$3.5 million in 1993 with a further \$750,000 distributed internally. Research money channelled through Canterprise is not included but will be reported in a later issue of *Chronicle*.

The individual projects which received funding are listed along with the funding agency, the researcher and their department. The figures are also analysed by department and by funding provider.

Ag Research \$26,465 **Dr J. Aislabie**, Plant & Microbial Sciences, Reducing Environmental DDT; BTW Ltd \$8,000 **Professor P. T. Gough**, Electrical & Electronic Engineering, Post Graduate Scholarship; Carter Holt Harvey Plywood

\$40,000 **Dr A. G. D. Whyte/Dr E. N. B. Sica**, School of Forestry, Decision Support System; Daimler-Benz \$34,500 **Dr R. Green**, Mechanical Engineering, Combustion Research; Dept. of Conservation \$15,000 **Ms D. Hume/Dr I. G. McLean**, Zoology, Predator-Training of Juvenile Black Stilts; Dept. of Conservation \$15,000 **Ms L. Adams/Dr I. G. McLean**, Zoology, Monitoring Survival of Juvenile Black Stilts.

Dept. of Conservation \$24,922 **Dr D. Norton**, School of Forestry, Ecosystem Conservation; Dept. of Survey & Land Information \$7,650 **Dr J. A. George**, Management, Electoral Boundary Research; ECNZ \$70,886 **Assoc. Professor**

Continued on page 4

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Professor Wood — continued

Since then he has several times had Esikura Fellowships, travelling to Australia, Europe and the United States. In 1986 Professor Wood was granted a Centennial Fellowship which enabled him to go to the East China Technical University of Water Resources, and in 1990 he was the Mary Sheppard B. Upton Distinguished Visiting Professor at Cornell University. Last year he was invited to give one of the most prestigious lectures in the calendar of the American Society of Civil Engineers - the Hunter, Rouse Hydraulic Engineering Lecture.

He is a Fellow of the New Zealand Institution of Engineers, a member of the American Society of Civil Engineers, a member of the International Association of Hydraulic Research and, in 1991, he was made as a Fellow of the Royal Society of New Zealand in recognition of his contribution to fluid mechanics.

However, research has been only one of the satisfactions of being an academic engineer. "The university system has been wonderful to me, but the students have been the great thing in the last 20 years. I like teaching, and with the senior students it's been wonderfully stimulating."

Graphic designer is awarded Rotary grant

Mr Max Halistone, senior lecturer and Head of the Department of Graphic and Typographic Design, has been awarded a 1994-95 Rotary Grant for University Teachers to Serve in Developing Countries.

Mr Halistone will spend time at the National Institute of Design (NID) in Ahmedabad, the premier design institution in India.

His links with NID go back to 1986 at a time when he was visiting the Rhoda Island School of Design. Two members of the NID faculty were also there and asked Mr Halistone to come to India to discuss his teaching philosophy and methods. He was able to do this for three months. He was able to do this for with a short visit in 1990 and a ten-week visit in 1991, during which time he introduced further teaching programmes.

Mr Halistone says the Institute's Visual Communication programme is vitally important in India's development, particularly in view of the low literacy levels, the diverse cultural and religious divisions, and the fact that India has over fifty indigenous languages with several hundred dialects. "The need for simple, unambiguous visual communication is of paramount importance."

The connections with NID have also worked the other way. Last year Mr Mahendra Patel, Head of Visual Communication, visited Canterbury for six weeks to work with Mr Halistone.

NID is currently undergoing considerable reorganisation due to changes in

Professor Wood thoroughly enjoyed his time in Australia. Apart from the professional satisfactions, both he and his wife enjoyed many outdoor activities. In fact Pat Wood was an Australian whom he had met in New Zealand when she came over to go mountain climbing. Surf boating, sailing, camping and stinking were all pleasures he started. However, when he applied for the position at Canterbury, it was more than just the attraction of securing a Chair. It was a return home. "It used to feel like putting your fingers in a glove and you knew all the wrinkles."

Mr Wood pays tribute to both his academic colleagues and the technical staff in the School of Engineering. "The technicians' support is absolutely essential to my work." He also believes that Canterbury is "without a doubt, a good school". One of the things that helps make it so is the Esikura fund that enables staff to spend time overseas and makes it possible for distinguished visitors to spend time here. "I really do think that the Esikura has been one of the most wonderful things for this university, especially in engineering. It makes the difference between a first class place and one that's just hanging on."

Given the satisfactions of his time here, Professor Wood is retiring with some reluctance. He had a stroke in August 1991 from which he has made a remarkable recovery. Colleagues and friends pay tribute to the extraordinary determination with which he has overcome the effects of the stroke. He resumed lecturing both to students and by invitation, notably in Australia and Portugal. But he says he has less energy now and "doing things is much harder."

However Professor Wood will continue with his research. As well as his successor to the Chair is unlikely to take up the position until 1995, he will contribute lectures to both the Civil and Environmental Engineering degree courses. He has been instrumental in establishing the latter which will be offered for the first time next year. He regards the new degree course with some importance. "Engineering has changed. We used to be able to do what we liked. Now we can't. We have to convince people we're doing the right thing. That's a good thing."

Ian Wood may be somewhat reluctant to retire, but there is a decided gleam in his eye when he thinks of some of the compensations. "I will do a lot more trampolining and more skiing." Furthermore, he and his new wife (also Pat) take off in mid-December for a six week sojourn in Chile in the company of 14 other like-minded trampers. Retiring, but not noticeably slowing down.

Former student leads Caltech group

Canterbury recently hosted a 40-strong group from the California Institute of Technology led by an eminent expert-ate and former Canterbury College student, Sir William Pickering.

The group comprised members of the President's Circle of the Associates, the support and fundraising arm of Caltech. The Canterbury visit came near the end of a two-week tour of New Zealand arranged using some of their international contacts. On hand to host the group were the Registrar, Mr Alan Hayward, and the Dean of Engineering, Associate Professor Alex Sutherland, who is a PhD graduate from Caltech.

After lunch at Cloisters the party was given a presentation on the Centre for

Advanced Engineering and tours of the Engineering departments. The CAE presentation was particularly apt as Sir William helped with fundraising for CAE, which was set up as a centennial project for the School of Engineering in 1987.

Sir William attended Canterbury College in 1929 before going to Caltech to study and later to teach and research. He is well known internationally through his work on unmanned space exploration, undertaken while he was director of NASA's Jet Propulsion Laboratory between 1954 and 1976.

Sir William's last visit to Christchurch was in 1987 when he cut the ribbon to open the street named after him in the Canterbury Technology Park near the airport.



Photo: Marilyn Hooper
Sir William Pickering, leader of the Caltech group, with Professor Alex Sutherland, Dean of Engineering and a Caltech alumnus (right), and Mr John Blakely, Executive Director of the Centre for Advanced Engineering (left).

First aid courses in Geology Department

In order to comply with the new Health and Safety in Employment Act all staff and post-graduate students in the Geology Department are being encouraged to obtain first-aid certificates.

To assist in this goal the Department recently arranged with the New Zealand Mountain Safety Council to run two 16-hour certificate courses at Cass field station. The courses emphasised first aid likely to be required on field trips and provided the opportunity to practice in simulated emergency situations. Thirty six additional staff and students were certificated on the two courses and all felt the experiences gained were invaluable.



The Department now plans to hold a Risk Management course for staff and teaching assistants at Cass in March (also to be run by the New Zealand Mountain Safety Council) and plans to make the first aid courses an annual event to cater for incoming post-graduate students.

A "slimmed-down" Messiah

Ask anyone what they remember most about Handel's "Messiah" and chances are, it will be the thrilling sound of massed voices singing in chorus.

At the first ever performance of "Messiah", Handel's chorus consisted of only 32 voices. In fact, at the 1754 Foundling Hospital performance in London, the choir was even smaller, consisting of 6 boy trebles and 13 men, from the Chapel Royal. Even though the few soloists were expected to join in the choruses, this still brings the total to a maximum of only 24.

Gradually, over the years, the size of the choir has increased and with it, that of the orchestra too. This is, of course, perfectly understandable, for "Messiah" has a kind of indestructible quality which makes it well able to survive and, indeed, thrive on excesses of this sort.

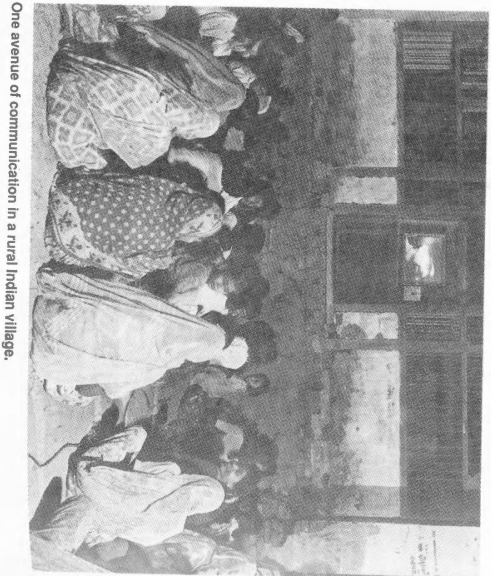
The Jubilate Singers' performance in the Cathedral on Thursday, 16 December sees a return to the original scale of performance for the Singers just happen to consist of 32 members. The choir's director, John Dalton, stresses that this is in no way intended as an "authentic" recreation of the work's premiere (which took place at the New Music Hall, Fishamble Street, Dublin, on 13 April, 1742), but rather a "freshing up" of a well-loved masterpiece. "Just as a fine old oil-painting can astonish us by its unexpected brilliance and vivacity, once the restorer has removed accumulated layers of grime, dust and other unwelcome additions," he says, "so a work like 'Messiah' is transformed and revitalised by a slimmed-down presentation, wherein its textures become less opaque, the words have more bite, and tempo can be brighter overall."

Of course, to be really authentic, "Messiah" would have to be sung in an Irish accent, although the Jubilate Singers have acquired something of a reputation for singing in a number of foreign languages, they will not be cultivating an Irish brogue on this occasion!

If Handel were alive today he would be amused at the very idea of an "authentic" or "definitive" version, as he was constantly adding, omitting or changing items to suit varying conditions of performance. Being an experienced operatic composer he would be all too familiar with the business of making "cuts". Even so, the version adopted will be performed "untitled" with two intervals, as in 1742, and the performance will start at the slightly earlier than usual time of 7.30pm.

The group of four soloists comprises Jillian Anderson, Carmel Carroll, Edmund Bohan and David Griffiths, - an experienced and talented team of established national reputation. The Jubilate Chamber Orchestra will include Martin Satchell (organ) and Peter Low (bassoon). The performance is conducted by John Pattison.

Tickets may be obtained from the Town Hall booking office or from Ballynnyss Ltd.



One avenue of communication in a rural Indian village.

Research Funding - continued

R. M. Kirk, Geography, Lake Dunstan Erosion Processes Study. EOC \$63,900 **Dr J. B. Brill**, Civil Engineering, Bay of Plenty Liquefaction Study. EOC \$30,000 **Professor R. Park**, Civil Engineering, Reinforcing of Existing Reinforced Concrete Building Frames. EOC \$30,000 **Professor R. Park**, Civil Engineering, Precast Concrete Floor Uplift Support & Continuity.

Foundation for Research Science & Technology \$240,000 **Dr A. J. Pratt/Dr J. W. Blunt**, Chemistry, Biologically Active Compounds. FRST \$150,000 **Dr H. Powell**, Chemistry, Environmental Aluminium Speciation & Measurement. FRST \$93,000 **Professor R. B. Keay**, Chemical & Process Engineering, High Temperature Softwood Board Drying. FRST \$70,000 **Dr A. H. Buchanan**, Civil Engineering, Fire Safety in Timber Buildings. FRST \$118,000 **Professor R. Park**, Civil Engineering, Earthquake Resistance of Structures. FRST \$50,000 **Dr R. J. Church**, Education, Learning in Young Children.

FRST \$77,000 **Professor J. Arilla/Dr N. R. Watson**, Electrical & Electronic Engineering, Electric Power Quality Assessment. FRST \$110,000 **Professor D. P. Taylor**, Electrical and Electronics Engineering, Telecommunications Systems/Transmissions Engineering. FRST \$147,000 **Professor J. Cole**, Geology, White Island/Magina Evolution. FRST \$27,000 **Assoc. Professor S. D. Weaver/Dr J. D. Bradshaw**, Geology, NZ Geology & Coastal Evolution. FRST \$95,000 **Dr R. K. Green**, Mechanical Engineering, Hydrogen - A Future Transport Fuel. FRST \$161,000 **Professor W. J. Baggeley/Dr G. J. Fraser**, Physics & Astronomy, Atmospheric Remote Sensing Radar.

FRST \$113,000 **Professor G. E. Siedeman**, Physics & Astronomy, Ring Laser Development. FRST \$89,000 **Dr A. I. J. Cole**, Plant & Microbial Sciences, Microbial Degradation of Pollutants. FRST \$78,000 **Dr D. Kelly**, Plant & Microbial Sciences, Reproductive Biology of Native Plants. FRST \$90,000 **Dr G. J. Fletcher**, Psychology, Cognition in Martial Interaction. FRST \$73,000 **Dr G. Rhoades**, Psychology, Visual Recognition - The Homogeneity Problem. FRST \$111,000 **Assoc. Professor R. R. Jackson/Dr B. Waldman**, Zoology, Animal Communication.

FRST \$89,000 **Dr D. Shiel**, Zoology, Rocky Shore Ecology. FRST \$70,000 **Dr F. Y. T. Sim**, Zoology, Fish Stock Development, Helene Curves \$5,650 **Dr J. A. George**, Marine Distribution Survey, Ministry of Education \$30,817 **Dr Liz Gordon**, Education, How do Boards of Trustees in School Work? Ministry of Education \$60,413 **Dr A. Gilmore**, Education, Evaluation of Teacher Development Programme. NZ Forestry Research Institute \$105,000 **Dr E. Mason**, Forestry, Forest Establishment/Deer Support System.

NZ Lottery Grants Board \$40,530 **Dr C. Bulik**, Psychology, Cognitive Exposure-based Treatment for Bulimia Nervosa. NZ

Lottery Grant Board \$70,600

Dr C. Bulik, Psychology, Eating Disorders & Substance Abuse in Women. NZ Lottery Grants Board \$45,000 **Dr K. France**, Education, Canterbury Sleep Project. NZ Lottery Grants Board \$100,000 **Dr D. Nobes**, Geology, Radar Equipment. NZ Lottery Grants Board \$20,000 **Assoc. Professor P. H. Butler**, Physics & Astronomy, Microwave-Pumped Slab Geometry Co-Lasers. NZ Lottery Grants Board \$3,000 **Dr G. Rhoades**, Psychology, Computer Equipment - Face Recognition.

NZ Lottery Grants Board \$9,000 **Dr H. H. Taylor**, Zoology, Equipment - Loss of Blood from Paura. NZ Lottery Grants Board \$50,000 **Professor R. L. C. Pilgrim**, Zoology, Publication Costs of Fila Larvae Study. NZ Lottery Grants Board \$30,000 **Dr P. J. McElroy**, Chemical & Process Engineering, Digital Pressure Gauge - Compression Factors of Natural & Synthetic Gas Components & Mixtures. NZ Lottery Grants Board \$40,000 **Dr P. W. Hartland**, Chemistry, Turbomolecular Pump and Mass Spectrometer - Collisions of Electrons with spatially oriented Molecules. NZ Lottery Grants Board \$8,000 **Dr I. G. McLean**, Zoology, Distribution, Population Genetics and Behaviour of Tawaki. NZ Lottery Grants Board \$9,000 **Mr T. Love & Ms J. Preston**, Physics & Astronomy, Astronomical Camera System.

NZ Rail Ltd \$22,000 **Professor D. G. Elms**, Civil Engineering, Safety Management Manual. NZ Timber Industry Federation \$39,900 **Dr A. H. Buchanan**, Civil Engineering, Expanded Steel Connections in Gullam. Nippon Telegram & Telephone Corporation & D Information & Patent Center NZ\$55,000 (approx) **Professor D. P. Taylor**, Electrical & Electronic Engineering, Modulation & Equalization Scheme for Personal Communication: Pearl Marwick \$125,000 **Dr B. Blundell**, Electrical & Electronic Engineering, Commercialisation of Cathode Ray Sphere. Peter Barr Research Fellowship \$10,000 **Ms S. Newberry**, Accountancy, Special Issues of Accounting for Charities in New Zealand. Queensland Lakes District Council \$5,750 **Mr D. H. Bellins V. Cunningham**, Geology, Queensland Urban Planning Studies.

South Power \$20,000 (to date) **Mr M. B. Dewe**, Electrical & Electronic Engineering, Management. Telecom \$25,000 **Dr K. Pawlikowski**, Computer Science, Methodology of Stochastic Simulation for Studying Non-Stationary Behaviour of Telecommunication Networks. The Treasury \$9,000 **Mr A. Sawyer**, Accountancy, Tax Gain - Analysis of Corporate Tax. NZ Lottery Grants Board \$22,000 **Professor R. Park**, Civil Engineering, Reinforcing of Bridge Piers. Transpower \$10,000 **Mr M. B. Dewe**, Electrical & Electronic Engineering, Harmonics Testing.

Daimler Benz, \$34,500

Department of Conservation, \$54,922. Department of Survey & Land Information, \$7,650. Electricity Corporation of NZ, \$70,866. Earthquake & War Damage Commission, \$122,800. Foundation for Science Research & Technology, \$2,930,000. Helene Curves, \$5,530. Ministry of Education, \$81,230. NZ Forestry Research, \$105,000. NZ Lottery Grants Board, \$378,130. NZ Rail Ltd, \$22,000. NZ Timber Industry Federation, \$39,900.

Nippon Telegram & Telephone Corporation, \$85,000. Pearl Marwick, \$125,000. Peter Barr Research Fellowship, \$10,000. Queensland Lakes District Council, \$5,750. Southpower, \$20,000. Telecom, \$25,000. The Treasury, \$9,000. Transpower, \$10,000. Total, \$3,572,783.

Funding received by the various Departments was:

Accountancy, \$19,000; Chemical & Process Engineering, \$193,000; Chemistry, \$430,000; Civil Engineering, \$395,700; Computer Science, \$25,000; Education, \$176,230; Electrical & Electronic Engineering, \$405,000; Forestry, \$169,922; Geophysics, \$70,866; Geology, \$479,750; Mechanical Engineering, \$129,500; Physics & Astronomy, \$303,000; Plant & Microbial Sciences, \$193,465; Psychology, \$279,130; Zoology, \$290,000. Total, \$3,572,783.

Dean of Science Takes on role of Co-ordinator

Dr Rod Claridge, Dean of the Faculty of Science, has been appointed **New Zealand Co-ordinator for the Science Programme between New Zealand and the Federal Republic of Germany**. He will hold this position from 1 October 1993 to 30 June 1994.

Dr Claridge would appreciate any contact regarding existing or future potential collaborative work with Germany and his contact details are as follows: Dean of the Faculty of Science, University of Canterbury, Private Bag, Christchurch. Phone: (03) 364 2442 Fax: (03) 364 2110 Email: R.Claridge@ccc.canterbury.ac.nz

People/People/People

An Eskine Fellowship has been offered to **Dr B.W. Lamm** (Management) to visit USA and Ireland from 23 April to 2 July 1994. **Dr P. Krishnan** (Computer Science) will visit India, Denmark and Sweden from 17 June to 31 August 1994. **Dr C.L. McLeay** (Zoology) to visit Germany, Hungary, France and Singapore from 9 October to 29 November 1993. **Professor G.E. Siedeman** (Physics & Astronomy) to visit England, Germany, Poland and Singapore from 14 April to 15 June 1994.

Building records

A recent appointment to the Works & Services Department is draughtsman **Mr. Bob C. Aliccia**. Bob is experienced in building services draughting, is a competent CAD operator and is well versed in managing drawing records and related documentation.

A major role of this appointment is to manage the many thousands of record drawings which have accumulated over the years. These include architectural, structural, heating and air conditioning electrical and other services drawings. The importance of these records is recognised by the steady stream of people who refer to them.

An improved system of storing and indexing drawings has been established. Other important documentation relating to the campus infrastructure is being re-organised, including operating and maintenance manuals of services and a computerised database of plant and equipment.

Bob would like to have a look at any building or building services drawings held by other departments, with a view to copying them if he doesn't already have a copy.

Works & Services have facilities for safe storage of drawings held by other Departments. Bob can be reached on Extension 8179 or 6400.

Post-doc fellowship in Forestry

Carter Holt Harvey Plywood has just established a one year post-doctoral fellowship, worth \$40,000, in the School of Forestry.

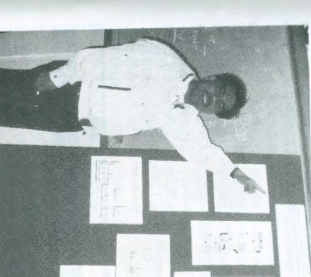
The plant production, but the computerers of the day were unable to give a fast enough response. The greater speed of modern computers and their ability to generate all data on spreadsheets has opened up new possibilities. So Dr Whyte asked Dr Donnelly to be Noll Sticard's associate supervisor.

On completion of his PhD, Dr Sticard made a presentation to Carter Holt Harvey of the work he had done and spoke of the possibility of transferring his research findings into a commercially viable system. The company was sufficiently impressed to set up the fellowship which will allow Dr Sticard a year before he returns to his home country, the Philippines.

There are five principal areas for consideration. The right mix of logs, both in terms of quality and size; the correct mix of veneer thicknesses to manufacture; decisions on how much of each veneer quality to manufacture; which plywood products should be made in response to market demand; and co-ordination of log supply, manufacturing, plywood merchandising and strategic marketing.

Undoubtedly the company will benefit, but Dr Whyte is very appreciative of Carter Holt Harvey's involvement and emphasises that industry support such as this also benefits New Zealand. "Traditionally two thirds of our post-graduate students are from overseas. If there isn't the opportunity for them to leave behind some of the fruits of their expertise, it's lost to New Zealand.

It is also an example of the growing importance of wood technology research at Canterbury, as reported in the recent *Chronicle* article on the university's Wood Technology Research Group convened by Professor Roger Key (Chemical and Process Engineering)."



The fellowship will allow Dr Emmanuel Noll Sticard, who did his PhD research into the mathematical modelling of plywood production, to work on developing an effective working model for the company's plywood plant at Kirihihi.

Dr Sticard's thesis supervisor was Dr Graham Whyte (Forestry) who says that the use of mathematical modelling can improve the efficiency of the production process. "This has obvious importance to New Zealand in adding value to logs, making us much more competitive internationally."

It is an idea whose time has come. Dr Robert Donnelly is a forest industry consultant who has a base in the School of Forestry and who teaches in the area of marketing and international trade of forest products. In the 1960s he pioneered work on the mathematical modelling of plywood

Services available

The Works & Services Department have the following equipment which other University Departments and Staff are welcome to make use of:

A0 Copier \$3.00 per copy
Copies will be done daily.

A1 Plotter \$5.00 per plot
By arrangement

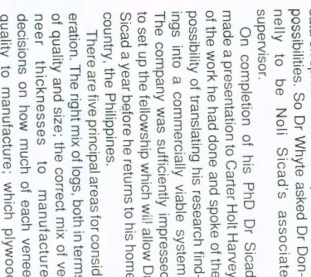
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Max. width 33cm/A4 \$1.00 approx.
Posters \$2 approx.

Further enquiries: phone Elaine Jensen on extension 6400.

HOD

Mr David Rowe has been appointed Acting Head of the School of Law and Dean from 1 January to 31 December 1994 during the absence on leave of Professor Gerald Orchard.



Services available

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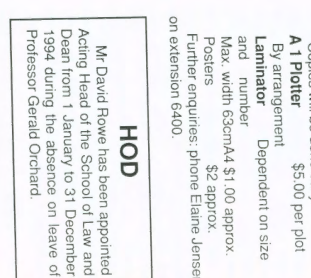
A0 Copier \$3.00 per copy
Copies will be done daily.

A1 Plotter \$5.00 per plot
By arrangement

Laminator Dependent on size and number

Max. width 33cm/A4 \$1.00 approx.
Posters \$2 approx.

Further enquiries: phone Elaine Jensen on extension 6400.



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Photo Duncan Shaw-Brown

ACSC-17 and ADC'94

Two major computing conferences are to be hosted next January by the Department of Computer Science at the University of Canterbury in Christchurch.

The larger of the two conferences is ACSC-17, the 17th Annual Computer Science Conference to be held from 18 to 21 January 1994. It will be preceded by ADC'94, the 5th Australasian Database Conference to be held on 17 and 18 January 1994. This is the first time that either conference has been held outside Australia, hitherto, the A in the short title of each has always stood for 'Australian'.

ACSC-17 is the 17th annual research conference of the Computer Science Association. The aim behind ACSC is to stimulate the exchange of ideas and information among computer scientists, especially those working in academic and research institutions in Australia and New Zealand. Research papers will be presented in all areas of computer science. There will be no special streams, but time has been allocated for informal workshops, which will be organised at the beginning of the Conference.

ADC'94 is the 5th Australasian Database Conference. The aim behind these conferences is to bring together researchers, developers and users of database systems especially from the Pacific region, to exchange ideas and knowledge and in general explore recent and future developments in this exciting field.

For ACSC-17, a record number of 198 papers has been submitted for refereeing, of which about 80 will be accepted. Most are from Australia or New Zealand, but submissions came from 16 different countries in all, including: Austria, Canada, France, Germany, Hong Kong, Japan, Korea, the Netherlands, Singapore, Slovenia, Sweden, Taiwan, UK, and the US. For ADC'94, 50 papers were submitted and 24 have been accepted. A high standard of

presentations can be expected in the final programme of each Conference.

Some specially invited speakers are:

For ACSC-17:
Professor Kotagiri Ramamohanarao from the University of Melbourne, where he leads the Machine Intelligence Project in the area of logic programming and deductive databases, and is also the Research Director of the Co-Operative Research Centre for Intelligent Decision Systems.
Dr Geoff Wyll from the University of Otago. He is an expert in image rendering, and his team has been responsible for many graphics seen on television, including those used in reporting on the America's Cup challenge.

For ADC'94:
Professor Rodney Topor from Griffith University. His current research concerns the foundations of deductive object-oriented database systems, federated database systems, and problems in programming language design and programming methodology.
There will also be a special panel session at ADC'94, on 'New Database Systems - Implementations and Applications', to be chaired by Rob Cook, Director of the Queensland Centre for Information Technology Research.

Further information can be obtained from the Organising Committee Chair (for both ADC'94 and ACSC'94):
Dr Bruce McKenzie, Department of Computer Science, University of Canterbury, Christchurch, New Zealand, e-mail: A.CSC17@cosc.canterbury.ac.nz ADC94@cosc.canterbury.ac.nz

Chronicle dates

There will be one more issue of the *Chronicle* this year, published on 9 December. Would staff wanting to have material included in that issue please note that the deadline for copy is 6 December. The editor is, however, always very grateful if copy comes in ahead of deadline! The first issue for 1994 will be published in the first week of February.

Demonstration Equipment for tender

The following demonstration equipment is now available for tender:
Colour Classic 4/40 with optional ethernet card.
PowerBook Duo 230 4/80 with accompanying Duo Dock.
Mac LCII 4/80 with Phillips 14in colour monitor.
Compaq Prolinea 3/25s Model 84 (4 Mb RAM) with 14in colour monitor.
Compaq LTE Lite 25c 4/120 colour Notebook (no carrybag).
Compaq Contura 3/25 4/84 Notebook (no carrybag).

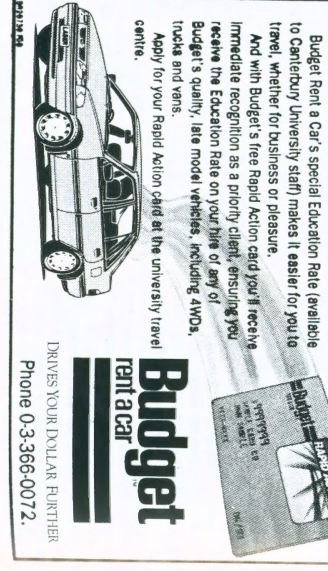
For more information please call at the Computer Services Centre Computer Shop in the Students' Union building where the above items are on display.
Tenders should include a telephone number and address and may be left or sent to the CSC Computer Shop or Reception at the Computer Services Centre, Please mark the sealed envelope "Demonstration Computer Equipment Tender". Tenders close at 4pm on Friday 17 December.

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Advertisements

Accommodation wanted
University lecturer needs rental accommodation for 3 months from January 10, 1994. I am also willing to house-sit, or take a beach in vicinity of Christchurch, or...? John Fountain, Economics Dept. 364 2849 or 348 5014 (until November 25).

Furnished flat or small house near university for visiting professor and wife, February/March 1994. Phone ext. 6599 or 322 7582.

University Visitor with three children requires furnished house, preferably close to campus. January 25 - May 12 1994. Contact Grant Read 6885 or 348 3078.

To let
House to let, 5 bedrooms, 2 bathrooms, on Iliam Rd close to University. Small easy care rear section. Suitable family. Phone work 03-755 8361, home 03-755 8006.

Modern furnished or unfurnished executive style residence, computer room, close to University, \$250 per week. Negotiable. Phone 358 9199.

Unfurnished 3 double bedroom 3 year old flat with internal access garage available in 2 to 3 weeks for long term rent. \$180 per week. South end of Belfast, ext. 6415 or 352 4476.

Flatmate needed
From December until late February, Friendly Cashmere house with beautiful gardens and view, Sunny bedroom with fireplace and French doors onto deck. Flat with three others, \$80 per week o.n.o. Call Joe Matfield, Civil Engineering, ext. 7332, or 337 2583.

Help wanted
Anyone travelling to Brisbane willing to take a small package, please phone Margaret Heen, ext. 6225.

House sit
Mature, responsible lady wishing to house sit from mid January 1994 onwards, 1 month - 6 months acceptable. Would maintain garden, lawns, care for pets etc. Phone 332 5119.

House exchange
Townhouse in Chicago for 3 bedroom house in Christchurch, 4-6 months either September 1994, January 1995 or January - June 1995. Phone ext. 6599 or 322 7582.

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Wall plaques



Responding to a considerable number of requests, the Information Office will have wall plaques featuring the University Coat of Arms available in December. The Coat of Arms is made of a tinted glass resin and the backing shields in iron. The plaques are 17.5 cm high and 13 cm wide. They cost \$45 each (incl. GST).

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Post-Doctoral Fellowships

The Royal Society of New Zealand will begin calling for applications for Post-Doctoral Science and Technology Research Fellowships from 1 November 1993.

The closing date for all applications will be 20 January 1994. Application forms are available from Ms Sue Usher, who will be the Post-Doctoral Fellowships Co-ordinator at the Royal Society.

The Foundation has the responsibility of advising successful applicants by March 1994.

All queries regarding the application and selection process please contact: Ms Sue Usher, The Royal Society of New Zealand, PO Box 598, Wellington. Telephone: (04) 472 7421. Fax: (04) 473 1941.

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TURKEYS		
Small (No. 3.5)	<input type="checkbox"/>	
Medium (No. 5)	<input type="checkbox"/>	
Extra Large (No. 6.5)	<input type="checkbox"/>	
CHICKENS		
Medium (No. 9)	<input type="checkbox"/>	
Extra Large (No. 12)	<input type="checkbox"/>	
CHICKEN NIBBLES 2 kg	<input type="checkbox"/>	
BACON		
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TOTAL \$		

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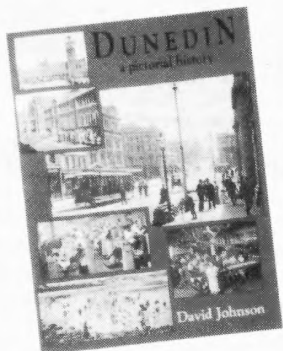
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Dunedin book completes nostalgic journey

Dunedin: a pictorial history completes author David Johnson's series of nostalgic photographic books about the major cities of New Zealand. Just published by Canterbury University Press, the book comprises more than 200 photographs, with detailed captions tracing the city's development, and its people at work and play, since the 1840s.

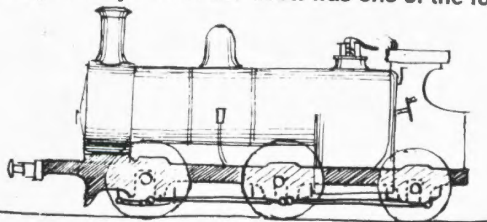
Previous titles in the series have included *Christchurch: a pictorial history*, published last year also by Canterbury University Press, and three books about Wellington and Auckland published by Bateman.



According to Managing Editor Mike Bradstock the book has been extremely well received, with almost the entire print run being ordered by booksellers in advance of publication. However, limited numbers of copies are available to staff at the special price of \$32.00 (cheque required with order). The recommended retail price is \$39.95.

Display of the Robert Julian Scott notebooks

The five working notebooks of Robert Julian Scott have been put on display in the School of Engineering Library. Professor Scott was one of the founding lecturers of the School.



These locomotives have inside bearings do all the wheels, ramsholom valves on flush fire-box casing, wheel reversing gear Steam brake, Boiler pressure 140 lbs.

Mr Peter Phipps, son of Professor Scott's protégée Admiral Sir Peter Phipps, recently passed the notebooks on to the School.

Dating from the late 1870s to 1913, the books show just how wide were his interests and how meticulous he was in recording information about them. They also show a considerable talent for drawing. Almost every page has a small detailed sketch whether of trains and railway stations, boats and bridges, or other features of engineering interest.

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The baby in the rush basket

Well, not exactly Moses. But recently found in the Engineering "Mushroom" outside the Engineering Library - one large musty-smelling box, containing therein 33 Physical Sciences library books and one Engineering library book. None of them had been issued and they were all ten years overdue.

Engineering Librarian, Heather McCarrigan says that's about a \$37,000 fine!

Under the circumstances, even Moses might have kept quiet.

Books for Christmas from Canterbury University Press

The following is a selection of books available at 20% discount to staff. Please send a cheque with your order. For a full catalogue of all C.U.P. books, phone 6044. The following prices are already discounted.

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