

UNIVERSITY OF CANTERBURY

Chronicle

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NEW COAT OF ARMS

UNIVERSITY'S OFFICIAL SEAL

Letters patent for a grant of arms to the University were received by the University Council at its August meeting. The new coat of arms, which is to be used as the University's official seal and on other official documents, is simpler than the Canterbury University College arms used up to now and omits the former motto "Ergo tua rura manebunt."

The new document has the coat of arms in the top left corner, the shields of the three Kings of Arms across the top and their seals in canisters appended at the bottom. It says :

"TO ALL AND SINGULAR to whom these Presents shall come, Sir Anthony Richard Wagner, Knight Commander of the Royal Victorian Order, Garter Principal King of Arms, Sir John Dunamace Heaton-Armstrong, Knight Member of the Royal Victorian Order, Clarenceux King of Arms and Aubrey John Toppin, Esquire, Commander of the Royal Victorian Order, Norroy and Ulster King of Arms, Send Greeting! WHEREAS CARLETON HUNTER PERKINS, Esquire, Commander of the Most Excellent Order of the British Empire, Chancellor of the UNIVERSITY OF CANTERBURY, hath represented unto The Most Noble Bernard Marmaduke, Duke of Norfolk, Knight of the Most Noble Order of the Garter, Knight Grand Cross of the Royal Victorian Order, Earl Marshal and Hereditary Marshal of England and One of Her Majesty's Most Honourable Privy Council that the University of Canterbury was originally established on the Sixteenth day of June 1873 under the Canterbury College Ordinance of that year of the Governor General of New Zealand by the name of Canterbury College and became a University with its present name under the provisions of an Act of the Government of New Zealand intituled the University of Canterbury Amendment Act, 1957 which amended the Canterbury University College Act, 1933 of that Government and which was superseded by a further Act of the said Government namely the University of Canterbury Act, 1961, wherein the University of Canterbury was declared to be the same Institution as that established in the year 1873. That the principal object of the University of Canterbury is the advancement of knowledge and the dissemination and maintenance thereof by teaching and research and that its affairs are controlled by a Council which Council is desirous of having Armorial Ensigns duly assigned to the University under lawful authority and he therefore, on behalf of the said Council, hath requested the favour of His Grace's Warrant for Our granting and assigning such Armorial Bearings as may be proper to be borne and used by the University of Canterbury on Seals or otherwise according to the Laws of Arms. AND FOR AS MUCH as the said Earl Marshal did by Warrant under his hand and Seal bearing date the Twenty-fourth day of March last authorize and direct Us to grant and assign such Armorial Ensigns accord-

ingly. KNOW YE THEREFORE that We the said Garter, Clarenceux and Norroy and Ulster in Pursuance of his Grace's Warrant and by virtue of the Letters Patent of Our several Offices to each of Us respectively granted do by these Presents grant and assign unto the UNIVERSITY OF CANTERBURY the Arms following that is to say :-

MURREY A FLEECE ARGENT IN BASE A PLOUGH
ON A CHIEF WAVY OR AN OPEN BOOK PROPER
BOUND MURREY EDGED AND CLASPED OR BETWEEN
A PALL AZURE CHARGED WITH FOUR CROSSES FORMY
FITCHY OR AND A CROSS FLORY AZURE

as the same are in the margin hereof more plainly depicted to be borne and used for ever hereafter by the University of Canterbury on Seals or otherwise according to the Laws of Arms. IN WITNESS whereof We the said Garter Clarenceux and Norroy and Ulster Kings of Arms have to these Presents subscribed Our names and affixed the Seals of Our Several Offices this Tenth day of May in the Fourteenth year of the Reign of Our Sovereign Lady Elizabeth the Second by the Grace of God of the United Kingdom of Great Britain and Northern Ireland and of Her other Realms and Territories Queen, Head of the Commonwealth, Defender of the Faith and in the year of Our Lord One thousand nine hundred and sixty-five.

Anthony R. Wagner	Garter
J. D. Heaton-Armstrong	Clarenceux
Aubrey J. Toppin	Norroy and Ulster

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SCHOOL OF SCIENCE

COMPLETION DATES GIVEN

The W. Williamson Construction Company Ltd., has given the following delivery dates for the big physics and chemistry block at Ilam :

PHYSICS :	Ground, first, second and third floors	OCTOBER 31
	Fourth and fifth floors	DECEMBER 30
	Top floors	FEBRUARY 28
CHEMISTRY :	First and second floors	OCTOBER 31
	Third floor	NOVEMBER 30
	Ground floor	DECEMBER 31
	Fourth and fifth floors	JANUARY 31
	Top floors	FEBRUARY 19
SCIENCE LIBRARY :		FEBRUARY 28
	(Completion on this date depends on the weather.)	

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IMPRESSED BY ILAM"FIRST-CLASS UNIVERSITY"

A distinguished visitor to the University last month was impressed with the concept of the Ilam campus. Dr. David Goddard, Provost of the University of Pennsylvania, said after inspecting the Ilam site and the School of Engineering that New Zealanders tended to be too modest about their achievements.

"In Ilam you will have a first-class university and your School of Engineering can stand comparison with anything in the world," Dr. Goddard said. "I am really most impressed."

Dr. Goddard was the guest of the University on a brief visit to New Zealand with his wife, Dr. Katherine Goddard, who is a pediatrician, and their son Robert, aged 18, who will enter university after his visit.

Before leaving Christchurch to attend the ANZAAS conference, the Goddards inspected the Mt. John Observatory at Tekapo which is operated jointly by the Universities of Pennsylvania and Canterbury. They were the guests of the Astronomer-in-charge, Mr. F.M. Bateson.

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EASTERFIELD PRIZEAWARD TO DR. L. F. PHILLIPS

The Royal Institute of Chemistry has awarded the 1965 Easterfield Medal and Prize to Dr. L. F. Phillips, a senior lecturer in Chemistry. The award, which is to commemorate the contributions to science by Sir Thomas Easterfield, a foundation professor at Victoria, is awarded every two years for outstanding quality and originality of research in chemistry in New Zealand by research workers under the age of 35.

Dr. Phillips graduated M.Sc. with first-class honours in chemistry from Canterbury in 1957 and a Shell Commonwealth scholarship took him to Cambridge, where he completed his doctorate. After a year at McGill he returned to Canterbury as a member of the staff of the Chemistry Department and has worked on atomic reactions for the last three years. The work has been supported by two grants amounting to 48,900 dollars from the United States Air Force Office of Scientific Research, enabling Dr. Phillips to design and build equipment.

The grants will also support two post-doctoral fellows to work with Dr. Phillips and the first of them, Dr. W. Litchman, of the University of Utah, Salt Lake City, is expected to arrive next month.

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"FREE SPEECH CAMPUS"NEW CHANCELLOR APPOINTED

The turbulent Berkeley campus of the University of Pennsylvania, which last year was the scene of a "free speech" campaign leading to the arrests of 773 people, including undergraduates, now has a new Chancellor. He is Dr. Roger Heyns, formerly Vice-President for Academic Affairs at the University.

Dr. Heyns succeeds Dr. Martin Myerson, the acting Chancellor, who returns to his post as Dean of the College of Environmental Studies. Dr. Myerson became acting Chancellor early this year after Dr. Edward Strong, the then Chancellor, had been forced to resign in consequence of student protests and disturbances which lasted for nearly four months and caused the university to be closed.

Dr. Heyns is a former Professor of Psychology at Michigan University who served in the United States Air Force during the Second World War, starting as a private and ending as a captain. His choice for the onerous post of Chancellor of Berkeley campus is reported to be unanimous.

Interviewed on his new appointment, which takes effect on October 1, Dr. Heyns said the chancellorship of Berkeley, with its 35,000 students, was an imposing challenge. He thought the recent troubles there were the result in part of student feelings of anonymity and depersonalization. All big universities, in his view, were complicated places and similar conditions existed on other campuses. He had no particular ideas yet on what should be done about student unrest in Berkeley, but - "We're going to have to do something."

WIFE SENTENCED

Meanwhile, Mr. Mario Savio, the student who was the ringleader in last year's free speech campaign ending in a mass "sit-in" of students in the Berkeley administration building, has been sentenced by the municipal judge to 120 days in gaol after refusing to accept a probationary period. He had been convicted of trespass and resisting arrest. His newly married wife Suzanne, who was also a leader of the free speech movement, was sentenced to 45 days in gaol.

So far the Savios and 51 out of the 82 students convicted of trespass and resisting arrest have rejected the court's ruling that they must undertake not to take part in further demonstrations for a probationary period, and have preferred to go to gaol.

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WHEN IT BEGAN

The Registrar reported that in accordance with the authority given by the Board, a "Remington" Typewriter had been bought at a cost of £25 and had proved a success.

- FROM THE COLLEGE COMMITTEE MINS., NOVEMBER 1893

RETIRING HEADSNEW PROFESSORS APPOINTED

Two new professors were appointed last month to replace two heads of departments who will be retiring at the end of the year. The new professors are Dr. M. Gage, Reader in Geology, who will take the place of Professor R.S. Allan, and Mr. W.B. Johnston, Reader in Geography, who will succeed Professor R.S. Waters.

The new professors are well-known members of the staff - Dr. Gage coming to the University in 1948 and Mr. Johnston in 1956. Both have reputations overseas; Dr. Gage for his work in Pleistocene and glacial geology, and Mr. Johnston for his work on land use. Both also have wide overseas experience.

Dr. Gage, who was born in Auckland in 1913, graduated bachelor of science at Auckland University College in 1934, also winning the senior scholarship in geology of the University of New Zealand. He then took his master's degree with first-class honours in Geology at Victoria University College and won the Haast prize in 1937. He took the degree of doctor of science in 1952.

Dr. Gage is a fellow of the Royal Society of New Zealand and was recently nominated for a fellowship of the Geological Society of America. He is the immediate past-president of the Canterbury branch of the Royal Society, and a councillor of the Geological Society of New Zealand.

Beginning his career as a demonstrator in geology at Victoria University College, Dr. Gage transferred to the Geological Survey from 1936 to 1947. He worked chiefly in economic geology (gold and coal resources) and directed the field work of the Coal Survey Committee. In 1943 he was seconded to the Air Department to find sites for radar stations.

Appointed senior lecturer in geology at Canterbury University College in 1948, Dr. Gage developed his work in glacial and Pleistocene geology. He was promoted to reader in 1960.

Dr. Gage has lectured widely overseas and has carried out field work as far north as Iceland.

Dr. Gage has been specially interested in the Geology Department's new field station at Westport, which was officially opened last week by the Mayor of Westport, Mr. J. Watson.

Dr. Gage is at present in the United States to attend the International Association of Quaternary Research at Boulder, Colorado.

CANTERBURY GRADUATE

Mr. Johnston, who is 37, graduated M.A. with first-class honours in geography from the University in 1949, spent two years as a lecturer at Auckland University and then had an appointment at the University of Nottingham from 1952 to 1955.

Returning to join the geography staff in Canterbury the next year, he was promoted to senior lecturer in 1961 and to reader in 1964.

Mr. Johnston's research in economic geography has covered

both temperate and tropical regions and both urban and rural studies. During refresher leave in 1962-63 he made extensive investigations for land reforms in Singapore, Malaya, India, Pakistan and Yugoslavia, besides visiting universities and research institutions in South-east Asia, Europe, Britain, the United States and Canada.

He also had talks with the Humid Tropics Commission of the International Geographic Union, of which he has been New Zealand corresponding member since its establishment in 1957.

Mr. Johnston is an expert on land use and has had experience as a research officer and consultant in the Pacific Islands, Malaya, Ceylon, India, Pakistan and Yugoslavia. Land-use studies have also been made in Christchurch and other parts of New Zealand. Mr. Johnston is editor of the recent publication of the Christchurch Regional Planning Authority, "Traffic in a New Zealand City."

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ANOTHER "FIRST"

BUSINESS LIAISON OFFICER

There was another "first" for Canterbury last month with the appointment of Mr. Frederick Whiteling, aged 33, as the first University Business Liaison Officer in New Zealand. Mr. Whiteling, who graduated B. Com. from the University, will take up his appointment on December 1.

Establishment of the new office was made possible by the generosity of the Canterbury Manufacturers' Association and several New Zealand business firms, which have offered guarantees to finance the office.

Mr. Whiteling, who is at present staff training officer for the State Services Commission in the South Island, was educated at the Sale County Grammar School, did his national service with the King's Regiment in Hong Kong, Korea and Japan, and joined a British company before coming to New Zealand in 1958. He joined the Inland Revenue Department, became a tax inspector, and last year joined the State Services Commission.

Mr. Whiteling is a member of the Canterbury branch of the Economic Society of Australia and New Zealand and an associate of the Personnel Management Association. At University Mr. Whiteling was a keen Soccer player and was secretary of the University club.

In his new post Mr. Whiteling will handle inquiries from both students and employers as to opportunities for graduates in business and industry, keep both groups informed of requirements, and be secretary of an advisory appointments board which will direct the work.

In addition as the business liaison officer he will co-operate with other university departments - particularly Extension Studies - in arranging post-graduate and other courses for leaders of industry and commerce. There were 23 applicants for the position.

PROFESSOR McCOLLUM LEAVES

After six months at the University of Canterbury, Professor I. N. McCollom, professor of psychology at San Diego State College, California, believes that in one respect at least New Zealand may be leading the world.

"Elsewhere most people live to work. Here in New Zealand you work to live. I hope you can keep it that way," he said before his departure. "Such a way of life could become vital as industrialisation whittled down individual satisfaction and automation dehumanised work. We're coming to a time when people will not choose a life work, but a life hobby," he said.

A specialist in industrial psychology, Professor McCollom said the task of consultants in this field was to see that work remained human. Because of its size, New Zealand had not yet seriously encountered these problems, but they would come.

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ABOUT GRADUATES

MR. D. C. JOYCE, who graduated B.Sc. with first-class honours last year, and who was a Rhodes Scholar nominee of the University, has left Christchurch to take up a post-graduate scholarship at Cambridge.

DR. ERNST BADIAN has been elected a Fellow of the British Academy. He will be one of its youngest members. Dr. Badian made his name as a classical scholar at Oxford after leaving Canterbury and won the seldom awarded Conington Prize for his work on ancient history. He is now Professor of Ancient History at Leeds University and at present is on an extended tour of the Universities of South Africa and Rhodesia - a tour undertaken at the invitation of the University of Pretoria and sponsored by the British Council.

MR. MAX NETTLETON, a former student of the School of Fine Arts who is at present studying typography at the London School of Printing, has been awarded a Fellowship at the School of Advanced Studies, Manchester College of Art and Design. These fellowships are keenly contested by senior students from the Royal College of Art and by those in industry.

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"A VEXED QUESTION"VALUE OF UPPER SIXTH YEAR

The value of an upper sixth form year is a vexed question, says the University Liaison Officer, Mr. E. R. Hounsell, in his annual report, which also shows that at the 40 accrediting schools in the district there are 714 upper sixth pupils this year (777 last year) and 2451 in the lower sixth (2173 last year).

"There is no doubt," Mr. Hounsell said, "that the brightest students can leave from the lower sixth and succeed at the University. This is not a common practice.

"Very often a student who has taken five years to qualify for University Entrance will leave from the lower sixth. These pupils perform rather poorly, as has been shown in past reports. It is very debatable whether an upper sixth form year would make any difference to the performance of these students at the University. However, this academical question is liable to become one of economics when the new bursaries examination is introduced for upper sixth pupils," Mr. Hounsell said.

The table shows the performance of first-year full-time students matriculating directly from the sixth forms.

	<u>No. of students</u>	<u>Units sat</u>	<u>Units Passed</u>	<u>% Success</u>
From Upper VI	414	1462	1093	74.8
From Lower VI	53	168	84	50.0
<u>Students at Lincoln College</u>				
From Upper VI	36	144	81	56.3
From Lower VI	5	20	5	25.0

Of all the boys from the 40 schools, about 64 per cent return for an upper sixth form year after U. E. The figure for girls is 40 per cent and for all pupils 53 per cent. The percentage of girls in the upper sixth population (31.5 per cent) is similar to the percentage of women in the fresher population in any one year (33.3 in 1964).

In the table below, which shows pupils who matriculate after qualifying for U. E. in the district, the numbers in the columns under "matriculated" are expressed as percentages of the corresponding numbers in the columns under "qualified".

	<u>Qualified by Examination or Accrediting</u>			<u>Matriculated</u>		
	<u>Boys</u>	<u>Girls</u>	<u>Total</u>	<u>Boys</u>	<u>Girls</u>	<u>Total</u>
1959	-	-	871	-	-	571 (65.6%)
1960	-	-	970	-	-	655 (67.5%)
1961	626	373	999	469 (74.9%)	205 (55%)	674 (67.5%)
1962	650	441	1091	501 (77.1%)	251 (56.9%)	752 (68.9%)
1963	778	563	1341	550 (70.7%)	299 (53%)	849 (63.3%)

The number matriculating from non-accrediting secondary schools is very small, Mr. Hounsell reports. The following figures represent the number matriculating out of the number qualifying from these schools.

1959: 4/15 1960: 4/12 1961: 7/22 1962: 1/12 1963: 3/9

In 1962 the number of students enrolling from rural schools appears abnormally high. This is shown in the table below for accrediting schools.

Christchurch Schools			Rural Schools		Total % Matric.
No. of Schools	% Matric.		No. of Schools	% Matric.	
1961	19	74.4	17	50	68
1962	19	71.4	17	63.4	69.3
1963	21	67	17	53	63.2

In 1962 the new bursaries were introduced. For first year students there was an increase in the boarding allowance for those obliged to live away from home. This may account for the increase from rural schools. If there was any validity in this suggestion then a further increase in the boarding allowance announced in June of this year could reflect an increase in the number matriculating from the 1964 qualifiers, Mr. Hounsell said.

Last year 1279 or 62.3 per cent of 2054 U.E. candidates were accredited and 775 sat the examination. Of the latter 52 (6.7 per cent) passed, giving a total of 1331, or 64.8 per cent. Nineteen schools had no passes in the examination, but seven had marginal failures. In the 20 non-accrediting schools 66 candidates sat U.E. and 20 (30.3 per cent) passed.

The results of 1964 degree examinations of first-year students at N.Z. universities from schools in the Canterbury University district follow :

Faculty	FULL-TIME				PART-TIME			
	No. of Students	Units Sat	Units Passed	% Success	No. of Students	Units Sat	Units Passed	% Success
Arts & Music	153	512	387	75.6	115	135	67	49.6
Science	125	442	331	74.9	6	8	0	-
Eng. Inter.	69	272	162	59.6	1	2	0	-
Other Inter.	49	149	113	75.8	7	10	3	30.0
Commerce	42	140	97	69.3	44	79	26	32.9
Law	51	186	127	68.3	2	4	4	100.0
Eng. Prof.	2	10	10	100.0	-	-	-	-
Agriculture	44	172	88	51.2	-	-	-	-

Mr. Hounsell says the lower percentage of success for the faculties of Engineering and Agriculture was due to the fact that all these students tended to take four units. In the Science faculty 62 out of 125 elected to take 3.

PERSONAL

MR. C. H. PERKINS has been reappointed the University Council representative on the Canterbury Medical Research Foundation.

MR. W. B. JOHNSTON, who is to be Professor of Geography next year, has been appointed to represent the University Council on the Board of the Mairahau High School. He replaces Professor John Ritchie who has resigned.

DR. S. J. BERNAU, lecturer in Mathematics, has been appointed to an additional senior lectureship in the Mathematics Department.

DR. P. J. LORIMER, a lecturer in the Mathematics Department, has resigned to return to Auckland as a lecturer.

MR. DAVID SELL, district adviser on school music for the Education Department, has been appointed a lecturer in music.

MISS GILLIAN BROWN has been appointed a lecturer in Mathematics. She graduated with first-class honours in mathematics from Canterbury and is now completing a Ph. D. at the University of Toronto.

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POST IN ANTARCTIC

The Australian Public Service Board is seeking an assistant director for the Antarctic Division, Melbourne. He will be responsible to the Director for the direction and development of the scientific research programmes of the division and for the co-ordination of the scientific work of the organisations involved in Australian National Antarctic Research Expeditions, which maintain permanent stations at Macquarie Island, Wilkes and Mawson.

The Division, which is associated with a number of university departments, is currently engaged in research in the fields of upper atmosphere physics and cosmic rays, glaciology, biology and medical science in the Antarctic environment. Familiarity with polar regions is desirable, but not essential.

Full details of the position are held in the Registry.

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ACADEMIC VACANCIES

Full details of the following academic vacancies are held by the Registry :

University of Auckland

Lectureship in Chinese; Editor of University Publications

Victoria University of Wellington

Lecturer in Music

Australian National University

Postdoctoral Fellowships in Chemistry (tenable in U. K.);
Research fellowships in Research School of Chemistry;
Postgraduate Scholarships in Chemistry

University of Melbourne

Chair of Mathematics (R. A. A. F. Academy)

Monash

Senior Lecturer, Lecturer, Senior Teaching Fellow and Teaching Fellow in English and Mathematics; Senior Lecturer or Lecturer in the Field of Computing

New South Wales

Lecturer in Ceramic Engineering, Electrical Engineering and Industrial Engineering; Teaching Fellow in Applied Geology; Senior Tutor and Tutor in German; Senior and Junior part-time Lecturers in School of Anatomy; Lecturer in English (Wollongong University College)

Queensland University

Reader in Mechanical Engineering; Lecturer in Education

Tasmania

Lecturer (Grade 1 or II) in Zoology and Electrical Engineering

Western Australia

Research Economist or Senior Research Economist in John Thomson Agricultural Economics Centre; Senior and Junior Research Fellowships in Arteriosclerosis at the Arnold Yeldham and Mary Raine Medical Research Foundation; Research Fellow in Agricultural Economics; Research Officer in Agricultural Economics

Bradford Institute of Technology (Proposed University of Bradford)

Lecturers in Civil Engineering; Lecturer or Assistant Lecturer in Ophthalmic Optics; Research Assistant in Concrete Technology (Civil Engineering); Polymer Chemistry, Pharmacy Practice

Lancaster University

Chair of Nuclear Physics

Manchester University

Lecturer in Palaeography (Arts); Senior Research Associate and