

COUNCIL

Te Kaunihera o Te Whare Wānanga o Waitaha

EMBARGOED UNTIL 3pm WEDNESDAY 24 JUNE 2020

Agenda

Date **Wednesday 24 June 2020**
Time 3.00pm
Venue Council Chamber, Matariki and via Zoom

Refer to
Page No.

1. APOLOGIES: None
2. CONFLICTS OF INTEREST
Every Member has an obligation to declare any material interests relevant to any University of Canterbury activities and to ensure that any conflict arising from the material interests is noted and managed appropriately
3. MINUTES
3.1 27 May 2020 1-6
4. MATTERS ARISING
5. FROM THE CHANCELLOR
 - 5.1 Chancellor's Meetings 7
 - 5.2 2021 Meeting Schedule 9-10
 - 5.3 Council Work Plan 11
 - 5.4 Degrees Conferred in Absentia
6. FROM THE VICE-CHANCELLOR
 - 6.1 Monthly Report 13-26
 - 6.2 Sustainability Report 27-62
7. ACADEMIC BOARD 63-68
8. PUBLIC EXCLUDED MEETING
Motion by the Chancellor for Resolution to Exclude the Public Pursuant to s48 of the Local Government Official Information and Meetings Act 1987:

I move that the public be excluded from the following parts of the proceedings of this meeting, namely:

Item on Public Excluded Agenda	General Subject Matter	Reason for passing this resolution in relation to each matter	Grounds under section 48(1) for the passing of this resolution		
4.0	Minutes of the meeting held on 27 May 2020 with the public excluded	These items concern matters that were previously dealt with during proceedings of Council from which the public was excluded.			
5.0	Matters arising from those minutes				
6.0	From the Chancellor	To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.	7(f)(i)		
7.0	From the Vice-Chancellor	To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.	7(f)(i)		
7.1	The Vice-Chancellor's report				
8.	From the Finance, Planning and Resources Committee	To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.	7(f)(i)		
8.1	Draft minutes FPRC meeting 15 June 2020				
8.2	International Fees 2021			To enable the University to carry out, without prejudice or disadvantage, commercial activities.	7(h)
8.3	RRSIC Final Report			To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.	7(f)(i)
8.4	Financial Forecast			To enable the University to carry out, without prejudice or disadvantage, commercial activities.	7(h)
9.0	General Business	To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.	7(f)(i)		

I also move that staff identified by the Chancellor and Vice-Chancellor as having knowledge relevant to particular matters to be discussed be permitted to remain at this meeting. This knowledge will be of assistance in relation to the matters discussed, and is relevant because of their involvement in the development of the reports to Council on these matters.

9. REPORT FROM THE PUBLIC EXCLUDED SESSION

10. GENERAL BUSINESS

11. NEXT MEETING –Wednesday 29 July, 2020 at 4.00pm

COUNCIL

Te Kaunihera o Te Whare Wānanga o Waitaha

Minutes

Date	Wednesday 27 May 2020
Time	4.00 pm
Venue	Council Chamber, Level 6 Matariki and via video-link
Present	Ms Sue McCormack (Chancellor), Professor Cheryl de la Rey (Vice-Chancellor), Mr Steve Wakefield (Pro-Chancellor), Mr Peter Ballantyne, Ms Liz Bond, Ms Rachael Evans, Ms Keiran Horne, Ms Tori McNoe, Professor Roger Nokes, Mr Warren Poh, Ms Gillian Simpson, Mr Shayne Te Aika.
Apologies	None
In Attendance	Mr Paul O’Flaherty, Acting University Registrar and Council Secretary Professor Ian Wright, Deputy Vice-Chancellor (Research) Via video-link: Professor Catherine Moran, Deputy Vice-Chancellor (Academic) Mr Keith Longden, Executive Director, Planning, Finance and IT Ms Robyn Nuthall, Director Planning Mrs Raewyn Crowther, University Council Coordinator
CONFLICTS OF INTEREST	There were no conflicts advised for the public section of the meeting.
MINUTES	The minutes of the meeting held on 29 April 2020 were approved and signed as a correct record.
MATTERS ARISING	None
FROM THE CHANCELLOR	<p>Council Work Plan</p> <p>Mr O’Flaherty noted that the work plan would be revised following discussion at the Council’s Strategy Day. The regular annual programme for each of the Committees would remain in place and members were asked to advise the Chancellor of any other matters they wished to see remain on the work plan.</p> <p>Moved</p> <p><i>That: Council note the Council work plan.</i></p>

Carried

Degrees Conferred in Absentia

Ms McCormack advised Council that the schedule of degrees awarded in absentia had been approved and the names of the graduates were entered into the public record.

Moved

That: Council approve the degrees awarded in absentia for the public record.

Carried

FROM THE AUDIT AND RISK COMMITTEE

Ms Keiran Horne, Chair of the Audit and Risk Committee presented the item referred to Council from its meeting on 18 May 2020.

Health, Safety and Wellbeing Report

The Committee had received a full report including updates on the fire in the high voltage laboratory, the outcome of a student incident and an audit of the Tupuānuku building site.

The Committee had requested a full list of the critical health and safety risks that existed on campus. That list was included in the report and further work would be done on operational risks.

Moved

That: Council note the Health, Safety and Wellbeing Report.

Carried

FROM THE FINANCE, PLANNING AND RESOURCES COMMITTEE

Mr Peter Ballantyne, Chair of the Finance, Planning and Resources Committee presented the items referred to Council from its meeting on 18 May 2020.

CAPEX Quarterly Report to 31 March 2020

It was noted that the revised 10 Year Plan was to be presented to Council at a workshop the following day. The year-to-date position had been impacted by the Rehua settlement but remaining items were behind budget to date. It was anticipated that Tupuānuku would be completed on time.

Moved

That: Council note the CAPEX Quarterly Report to 31 March 2020.

Carried

UC Trust Funds Quarterly Report to 31 March 2020

The fund had taken a hit in the recent downturn but due to the conservative balance of the funds the -3.5% return for the quarter had since improved to -1.9%.

The FPRC had discussed the report in detail noting the need to review the Statement of Investment Performance Objectives, the benchmarks and objectives for the fund. While Council had endorsed the concept of merging the funds with the UC Foundation, that decision was still to be made. A report was to be prepared by Simon Flood for the July meeting

which would provide the legal and accounting opinion on the merger and a roadmap of the steps to follow.

Moved

That: Council note the UC Trust Funds Quarterly Report to 31 March 2020.

Carried

FROM THE ACADEMIC BOARD

Professor Catherine Moran, DVC Academic, presented the report noting that the Academic Board had recommended two new curricula developments to Council which had been developed in consultation with the health sector:

- Postgraduate Diploma in Cognitive Behaviour Therapy
- Postgraduate Certificate in Cognitive Behaviour Therapy

These qualifications would follow a bachelor's degree in psychology and offer a specialty, primarily through course work.

Moved

That: Council:

- i) note the report of the Academic Board;*
- ii) approve the following curricula developments for forwarding to CUAP and TEC for their approval:*
 - a. The introduction of a Postgraduate Diploma in Cognitive Behaviour Therapy*
 - b. The introduction of a Postgraduate Certificate in Cognitive Behaviour Therapy.*

Carried

FROM THE VICE- CHANCELLOR

Monthly Report

The Vice-Chancellor presented her report which had been prepared while UC was at level three, noting in particular:

- UC was now operating in level two
- Preparations were underway for the move to level one and for the possibility of a move back to levels three or four.
- Plans were also being made for closure of the campus should a case of COVID-19 be identified on campus.
- The Incident Management Team was transitioning out of emergency management mode and by Friday of this week would revert to business-as-usual.
- An on-campus start for semester two was expected.
- The contact tracing methods were tested and satisfied the CDHB and Ministry of Health expectations but a robotic solution would be explored to reduce the time taken to process the information.
- New initiatives had been developed in response to the need to go to online delivery, with some notable innovations resulting.
- Students and staff had been surveyed and feedback provided.
- A phased return to campus was underway with numbers on site increasing each day.
- Sector meetings were taking place regularly.

- The Minister was discussing the return of international students with the sector.

The Vice-Chancellor left the meeting for a brief period during which time discussion continued:

- There had been no requests from year 12 students for early entry in response to the current situation. Liaison officers had been in contact with potential students.
- The Minister was to announce NCEA changes in the coming days.
- The \$6.1M announced in the budget for pastoral care was not intended directly for universities.
- The disappointing conversion rate for Marsden Fund applications was in part due to the inexperience of young academics
- UC had received government funding to assist students with technology and in hardship. The fund established by UC would be disbursed by UCSA on the basis of hardship.
- The Communications team was working with UCSA to manage the possibility of student parties following the relaxation of level two rules on Friday.

Moved

That: Council note the Vice-Chancellor's Monthly Report.

Carried

PUBLIC EXCLUDED Moved
MEETING

That: the public be excluded from the following parts of the proceedings of this meeting, namely:

Item on Public Excluded Agenda	General Subject Matter	Reason for passing this resolution in relation to each matter	Grounds under section 48(1) for the passing of this resolution
4.0	Minutes of the meeting held on 29 April 2020 with the public excluded	These items concern matters that were previously dealt with during proceedings of Council from which the public was excluded.	
5.0	Matters arising from those minutes		
6.0 6.1	From the Chancellor Emeritus Professor nominations	To protect the privacy of natural persons.	7(a)
7.0 7.1	From the Vice-Chancellor The Vice-Chancellor's report	To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.	7(f)(i)

8.0	From the Audit and Risk Committee		
8.1	Draft Minutes 18 May 2020	To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.	7(f)(i)
8.2	COVID-19 Update	To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.	7(f)(i)
8.3	Toogood Recommendations Update	To enable the free and frank expression of opinions by or between or to members or officers or employees of the University	7(f)(i)
9.	From the Finance, Planning and Resources Committee		
9.1	Draft minutes FPRC meeting 18 May 2020	To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.	7(f)(i)
9.2	Tupuānuku Key Terms and Operator Structure	To enable the University to carry out, without prejudice or disadvantage, commercial activities.	7(h)
9.3	Rehua Final Report	To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.	7(f)(i)
9.4	Financial Forecast	To enable the University to carry out, without prejudice or disadvantage, commercial activities.	7(h)
10.0	General Business	To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.	7(f)(i)

and that staff identified by the Chancellor and Vice-Chancellor as having knowledge relevant to particular matters to be discussed be permitted to remain at this meeting. This knowledge would be of assistance in relation to the matters discussed, and was relevant because of their involvement in the development of the reports to Council on these matters.

Carried

RETURN TO PUBLIC MEETING

Council returned to public meeting at 5.28pm and confirmed for the public record:

- The award of the title Professor Emeritus to Professor Rick Beatson
- The award of the title Professor Emeritus to Professor Greg Newbold
- The award of the title Professor Emerita to Professor Philippa Mein Smith

GENERAL BUSINESS

There were no items of general business.

The meeting ended at 5.30pm.

NEXT MEETING The next meeting was scheduled for 3.00pm on Wednesday 24 June 2020.

SIGNED AS A CORRECT RECORD: _____

DATE: _____

Memorandum

Chancellor's Office

Email: chancellor@canterbury.ac.nz



To:	Council Members
From:	Sue McCormack, Chancellor
Date:	17 June 2020
Subject:	CHANCELLOR'S MEETINGS

I outline for you the key events I have attended on behalf of UC since the last Council meeting. Items marked with an asterisk indicate events at which I gave a speech. Those speeches can be found on the Council Sharepoint site.

- Council Strategy Day
- Regular meetings with the Vice-Chancellor and Acting Registrar
- Canterbury Museum Trust Board
- Health and Safety tour of Tupuānuku
- FPRC meeting

Meetings planned between today and the Council meeting on 24 June:

- Meeting with the Alumni team on potential donors

A handwritten signature in black ink that reads 'Sue McCormack'. The signature is written in a cursive, flowing style.

Sue McCormack
Chancellor

COVER SHEET



To:	Ki:	The Chancellor
From:	Nā:	Paul O’Flaherty, Acting Registrar
Date:	Rā:	17 June 2020
Subject:	Kaupapa:	2021 Council Meeting Schedule

Recommendation:

That the meeting schedule for 2021 be approved

Purpose: To discuss the proposed meeting dates in 2021 for Council and its Committees.

Executive Summary:

As a starting point for a discussion on the Council meeting schedule, please note the following:

- Council agreed at its meeting of 26 August 2015 to continue to follow established practice, confirming the pattern of Finance Planning and Resources Committee (FPRC) and Audit and Risk Committee (ARC) meetings on the third Monday of the month and Council meetings on the last Wednesday of the month.
- The time of Council meetings was confirmed at 3pm for workshops and 4pm for meetings.
- It was also agreed at that meeting to adjust the start times of FPRC and ARC meetings to the end of the business day, so that ARC would commence at 2pm and FPRC at 4pm.

The draft meeting schedule attached has followed that pattern and proposes dates as follows:

- Meetings of the FPRC on the third Monday of each month at 4.00pm
- Meetings of the ARC on the same days as FPRC meetings in February, March, May, August and October at 2.00pm
- An extra meeting of ARC early in February to manage the Annual Reporting process
- Council meetings on the last Wednesday of the month at 4.00pm (with workshops at 3.00pm).

There are no Annual holidays impacting the timing of any meetings in 2021.

Strategy Day – The addition of a day for a strategy meeting has been included in the schedule for the first time.

Attachments: Draft Meeting Schedule for 2021

Paper Progress:

To:	Date:	Decision:
PFRC/RAC	NA	N/A
SMT	NA	N/A
FPRC/ARC		N/A
COUNCIL		

Meeting Schedule – 2021

Statutory Dates		
6 February – Waitangi Day 8 February – University Closed	2 April - 5 April – Easter	6 April – University closed
25 April – ANZAC Day 26 April – University closed	7 June – Queen’s Birthday	25 October – Labour Day
12 November – Show Day	24 December 2021 to 3 January 2022 (inclusive) - University closed	

Graduation Ceremonies		
Wednesday 14 April	10.00am	TBC
Wednesday 14 April	2.00pm	TBC
April	10.00am	Celebration for Maori Graduates
Friday 16 April	10.00am	TBC
TBC	TBC	Rotorua Graduation
TBC December	10.00am	TBC
TBC December	2.00pm	TBC
TBC December	10.00am	TBC
TBC December	2.00pm	TBC

Council Meetings		
<ul style="list-style-type: none"> - Normally last Wednesday of the month, 4.00pm, Council Chamber, Level 6, Matariki; Workshops at 3pm (unless otherwise specified) - Papers required by 5.00pm the Wednesday prior to meeting - Agendas distributed the Thursday prior to meeting 		
27 January	24 February	31 March
28 April	26 May	30 June
28 July	25 August	29 September
27 October	24 November (3.00pm)	Monday 13 December (if needed) at 2.00pm

Finance, Planning and Resources Committee Meetings		
<ul style="list-style-type: none"> - Normally 3rd Monday of the month, 4pm (unless otherwise indicated), Council Chamber, Level 6, Matariki - Papers required by 5.00pm the Tuesday prior to the meeting - Agendas distributed the Wednesday prior to the meeting 		
	15 February	15 March
19 April	17 May	21 June
19 July	16 August	20 September
18 October	15 November	13 December (if needed) at noon

Audit and Risk Committee Meetings					
<ul style="list-style-type: none"> - Normally 3rd Monday of the month, 2.00pm (unless otherwise indicated), Council Chamber, Level 6, Matariki - Papers required by 5.00pm the Tuesday prior to the meeting - Agendas distributed the Wednesday prior to the meeting 					
1 February (4:00pm)	15 February	15 March	17 May	16 August	18 October

Strategy Meeting
Thursday 6 May, 9.00 – 5.00

**COUNCIL
WORKPLAN**
10 June 26
March 2020

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STANDING ITEMS:	June 2020	July 2020	August 2020	September 2020	October 2020	November 2020	December 2020
Audit and Risk - Internal Audit Reports - Health, Safety and Wellbeing Reports - Fraud and Protected Disclosures - RAC Report - IT Risks and issues Progress - Policy reviews as required - Emerging risks and relevant legal cases (verbal) - Auditor Only time - PIR Reviews - Toogood Recommendations Update - Report from RAC			17 August - Interim accounts - COVID-19 Risk Identification Update - Strategic Risk Update on IT Risks - Revised Internal Audit Plan - ARC Terms of Reference - PBRF Audit Report - Procurement and Contract Management Audit Report		19 October - Year End Key Accounting Judgments paper to include impairments, accounting policy changes, key assumptions and estimates - Business Assurance internal audit tracker - 2021 work plan - COVID-19 Risk Identification Update - Strategic Risk Update on IT Risks		
FPRC - Workplan - Monthly Financial Report - Financial Forecast Report - Student First Update - Quarterly Report on UC Trust Funds - Protected Disclosures - Policy reviews as required	15 June - RRSIC Final Report - International Fees	20 July - Manawa Plans for Trusts/UC Foundation - Revised Financial Measures	17 August - FPRC Terms of Reference - Major Investment Plan	21 September - Kaikoura Field Station - West Building Future Use	19 October - Delegations - Make good Dovedale and Kirkwood Villages - Rec Centre and Wellness Precinct Homestead Lane Plan	16 November - 2021 Budget - Capital Plan - SIPQ	7 December (if required) (12.00pm)
Council Meeting - Chancellor's Meetings - Workplan - Graduations in absentia - VC Monthly Report - Academic Board Report - Financial Report (quarterly) - Financial Forecast Report - IT Risks and issues Progress - Student First Update - Student Survey Results and Response	24 June - 2021 Meeting Schedule	29 July	26 August	30 September	28 October	25 November	7 December (if required) (2.00pm)
Council Workshops - Health and Safety Risk Appetite - Cyber Security - Campus master plan - Capital Planning - Student Preparation for Study - Institutional Plan – People, Māori Strategy	24 June - Institutional Plan – Internationalisation - High Country Lands	29 July - Institutional Plan – Operations/Environmental Sustainability - Rankings	26 August - Long term space needs	30 September - Engagement	28 October - 2021 Budget	25 November Celebrating Excellence: Council Medals Presentation - Statement of Strategic Performance and UC Monitoring Framework	NO WORKSHOP
	Q2 2020	Q3 2020 All planned activities are being reviewed in the context of the institutional strategy and will also be informed by a Council strategic workshop to be held mid-year			Q4 2020		
H&S Visits	15 June 2.30-3.30			21 September 2.30 – 3.30		16 November 2.30 – 3.30	
Planned works 2021 Workshops	<ul style="list-style-type: none"> - Space Planning - Organisational Efficacy - Education – Accessible, Flexible, Future focussed - Research – Impact in a Changing World - People – Nurturing staff, Thriving students - Operations/Environmental Sustainability - Diversity Plan – Maori and Pacific - Regulations Framework (Q1) - Kaikoura Field station facilities - Residential Accommodation EQR - Innovation Learning environment - Seismic Strengthening Core Areas BC - Te Ao Marama BC - Rec Centre IBC (to include summary of any increases in budget) - Business and Low Space for Growth BC - Make good Dovedale Village site BC - Amendment to the SIPQ - Naming Rights Policy - Long Term Capital Plan - Campus Master Planning: - Wellness precinct, transportation, parking and safe access BC - Space planning and EFTS Growth Linkages - West Building Future Use - Homestead Lane Masterplan - Sustainability issues around operational activities 						

Vice Chancellor's Report to Council

June 2020

The announcement of National Alert Level 1 on Monday 8 June was good news for the University as it advanced the final stages of our move from the Emergency Operational Committee to normal operations, often referred to as business as usual (BAU). There is a sense of positive anticipation about the beginning of Semester 2 as we look forward to a full on-campus experience.

I wish to express my sincere appreciation to the three incident controllers – Steve Gibling, Rīpeka Taumanui-Hurunui and Michel Fivet – as well as to Paul O’Flaherty (responsible Senior Leadership Team member) and all the workstream members who individually and collectively contributed to our operations throughout the various levels of lockdown.

Over the weeks of Level 2, campus activity increased steadily. The libraries were the busiest on-campus places for students. They opened to UC staff and students on the first day of Level 2 through a collaborative effort with Facilities Management, who have assisted with the location tracking and additional cleaning. Puaka-James Hight Library regularly reached the 600-user limit required for Level 2 social distancing in the 10 days that students had to study for exams at that alert level.

UC libraries have continued to use website and social media channels to communicate service changes (see <https://www.canterbury.ac.nz/library/support/covid-19/>) and has now returned to normal opening hours, with all Library staff back on campus. The Library has continued to receive positive responses from UC staff and students to its services: “*Ask live has been a life saver during lockdown*”. As may be expected with the return to BAU, fines will be reinstated on 10 July to encourage the return of material.

Workstreams initiated under lockdown are continuing to progress. The Alternative Laboratory and Studio Delivery Options working group, led by Professor Jan Evans-Freeman, has been meeting regularly since April, and has now started investing in specific equipment to broaden and extend remote tuition in either labs or field trips. This not only gives UC an edge on using technology to teach remotely in practical situations where user interaction is critical, but also future-proofs us if we do need to restrict campus access again. Current projects include remote control of helicopters and field-programmable gate arrays (FPGAs) in Electrical Engineering, training technical staff to use 360-degree cameras in their labs, led by HITLab staff, and creating more virtual science field trips.

Engagement

To strengthen our city relationships, we will sign memoranda of understanding with ChristchurchNZ and The Christchurch Foundation to coordinate collaborative opportunities. Together with ChristchurchNZ, we have formed workstreams to advance our strategic imperatives including industry engagement, research with impact and joint marketing activity. Working with

The Christchurch Foundation, we can apply for joint funding for collaborative projects to advance the development of our city.

The Centre for Entrepreneurship (UCE) with ChristchurchNZ along with Ministry of Awesome are establishing a new partnership to grow Christchurch's innovation ecosystem to contribute to the economic recovery of the region post-COVID-19. Under this partnership UCE will grow the city's most ambitious start-ups, attract talent, entrepreneurs and businesses to Christchurch and support the repositioning of the Christchurch economy for a sustainable future to support intergenerational wellbeing. There will be a multitude of opportunities for UC students and staff through start-up support, student internships/projects and research.

The Pathway to Tertiary project with ChristchurchNZ is underway, involving two schools in Christchurch East. A discussion with Ngāi Tūāhuriri has highlighted some opportunities to develop pathways for the students in Environmental Science and related areas. Specific programmes are underway with year 13 students at Linwood College to support them through to tertiary level. ChristchurchNZ is also facilitating links with industry so students can see a clear pathway towards both a career and making a social impact.

An example of how engagement may become integral to our learning and teaching is the MBA, which was relaunched at the end of last year. The upcoming Term 2 MBA courses, *Economic Uncertainty and Organisation Agility* and *Data-informed Strategy*, will run in collaboration with ChristchurchNZ. For the Economic Uncertainty course, led by Stephen Hickson and Patrick Rottiers, students will adopt an economic lens and a think-tank approach to research, producing pithy narratives on what recovery and repositioning might look like for key Canterbury industry sectors – manufacturing, food and fibre, and education. MBA Director Dr Chris Vas will lead the Data Strategy course in conjunction with senior executives from IBM and Google.

As the UC representative on Te Papa Hauora Advisory Board, Professor Letitia Fickel, Pro-Vice-Chancellor of the College of Education, Health and Human Development, has supported the development of the recent *Te Papa Hauora: The Future of Health* newsletter series. The newsletter was launched in May and is dedicated to celebrating Canterbury's health, education and research sectors. It includes updates on Canterbury's response to the COVID-19 crisis, and the immense efforts that have been taken to protect our community. The highlighted efforts of the collaborative responses from the partners – University of Canterbury, University of Otago, Ara Institute of Canterbury and the Canterbury District Health Board (CDHB) – to COVID-19 showcase Canterbury's ability to collaborate and innovate, while demonstrating our compassion, resilience and willingness to help.

UC's vision of **making a positive impact on hauora wellbeing of the people of Ōtautahi Christchurch and Waitaha Canterbury** is captured in recent work of UC staff and students. Some examples are:

Supporting parents and whānau. Associate Professor Laurie McLay (School of Health Sciences) provided easily accessible videos for parents and whānau related to children's sleep patterns during lockdown.

Protecting health workers: College of Engineering Associate Professor Don Clucas (Department of Mechanical Engineering) developed a process for 3D-printing, laser-cutting and assembling a full-face protective visor in less than a minute.

Health students play their part: During Alert Levels 3 and 4 only a small percentage of health students were able to continue their training in the Canterbury clinical environment. Students in the

joint Ara Institute of Canterbury and UC Nursing programme continued to support local health efforts by working in aged care and general practice. Other students joined UC's Student Volunteer Army to provide childcare for health professionals and support vulnerable people in our community.

Professor Stephan Lukosch from the HITLab NZ and Associate Professor Tobias Langlotz from the University of Otago, with support from Tourism NZ, have successfully secured the hosting rights for the 2022 Institute of Electrical and Electronics Engineers Conference on Virtual Reality and 3D User Interfaces. This makes Christchurch the first city in the southern hemisphere to host the gathering of over 400 virtual reality experts from around the globe. It is the world's largest and most prestigious virtual reality conference.

Since 2 June 2020, paediatric clients and their whānau from the Canterbury and West Coast regions have been able to receive hearing aid fitting and rehabilitation in the newly upgraded Speech and Hearing Clinic at UC. This contract provides the opportunity to engage locally with residents and their families, expand clinical arrangements with the CDHB, enhance research links for our academics and expand clinical learning for our Master of Audiology students.

Education – Accessible, Flexible, Future-focused

Semester One teaching activity has drawn to a close and exams began on 8 June. The examinations were conducted online in various forms, ranging from open book exams to invigilated exams via Zoom. Reports have been positive and minor adjustments have been made to ensure the technology held up throughout the examination period. The end of the semester has brought an opportunity to pause and reflect on the rapid adaptations that were made and how to build on that to enhance future learning. Of note is the appointment and commencement of duty on 2 June of the *Dean of Future Learning and Development*, Professor Mick Grimley. Professor Grimley is leading the EdX developments along with online and future learning initiatives. With many in the university community working with him directly, we are seeing the rapid development of future offerings in terms of both massive open online courses (MOOCs) and microcredentials. At the beginning of June, approximately 30 MOOCs and a growing number of microcredentials have been proposed.

As COVID-19 has substantively changed the teaching relationship, understanding teaching quality has become even more critical. The *Teaching Quality Metrics Working Group* has completed the first stage of work aimed at identifying suitable measures for evaluating teaching quality, which could be used for continuous improvement and for promotions. An interim report containing a suite of measures is now complete. There is more to be done with the working group, as it focuses on application of measures. The first draft of this document will be presented at the upcoming Academic Board Promotions Workshop.

As a way of contributing to the Strategy's objective of rewarding talented staff and fostering an ethos of excellence, the deadline for UC teaching awards and the teaching medal has been extended to 10 July to allow staff further time for their applications. This is an opportunity for some of the innovative teaching displayed in the move online during lockdown to be recognised and rewarded.

Another area of significant activity is concerned with student retention and transition into the University. The Analytics for Course Engagement (ACE) system has been an important tool for keeping track of students' engagement throughout a challenging semester. Between the ACE coordinator, the colleges, Accommodation Services and Student Care, hundreds of first-year students were contacted and supported to re-engage or adapt their plans. A key initiative is aimed at improving retention of Māori and Pacific students. The Success Academy, led by the Office of

Māori, Pacific, and Diversity and the Deputy Vice-Chancellor (Academic), is a multi-faceted approach that supports academic readiness within each student's own cultural framework.

In support of better student retention and progression, the College of Engineering continues to seek to rationalise its offerings, reduce the number of electives and make pathways clearer for students. Recently the Civil Engineering Department has been looking to revise the curricula of Civil Engineering and Natural Resources Engineering, which will resolve some course overlap issues.

The College of Education, Health and Human Development has identified a three-year education development plan that outlines strategic programme redesign/refresh and new programme development aligned to the UC Strategic Vision to provide accessible, flexible and future-focused offerings. This includes current efforts to refresh and revise three undergraduate offerings – Sport Coaching, Health Science and the Bachelor of Teaching and Learning (Early Childhood and Primary) – and the addition of the Youth Development pathway in the Bachelor of Youth and Community Leadership. The work is being guided by stakeholder consultation, and review of benchmark and peer institutions, as well as by the need to align with relevant professional body regulations. A feature of the College's education development plan in collaboration with the College of Science through the Health Workforce Workgroup, is to develop a doctoral pathway for nursing and other health professionals as well as a suite of microcredentials identified through community and stakeholder consultation.

Research – Impact on a Changing World

UC is continuing to support research and innovation in response to COVID-19. Distinguished Professor Geoff Chase has been successful in receiving funding from the Ministry of Business, Innovation and Employment (MBIE) COVID-19 Accelerator Innovation Fund for his project “Safely and Effectively Doubling Ventilator Capacity – A Rapid, and Highly Necessary Technology Solution to Save Multiple Lives”. This funding is about getting relevant research rapidly optimised and quickly into the hands of those parties who are going to make a difference in the COVID-19 response. Already Professor Chase's approach is receiving international attention through a short article on his idea for sharing ventilators, which featured in the top journal *Critical Care*.

UC researchers are engaged with local entrepreneur Peter Montgomery (founder of Clever First Aid), helping him prove and develop his Prox Bio proximity and social distancing app. The app uses Bluetooth technology, and opens up opportunity for further research and impact on the wellbeing and mental health of specific communities such as aged care. UC's Centre for Entrepreneurship will sponsor the first student trial.

UC Professor of Marketing Michael Hall, with co-authors Stefan Gössling (Lund University, Sweden) and Daniel Scott (Waterloo University, Canada), has written the most viewed article published in the *Journal of Sustainable Tourism* ever (Scimago Q1, Australian Deans Business Council (ABDC) ranking A*). “Pandemics, tourism and global change: a rapid assessment of COVID-19” (2020, DOI: 10.1080/09669582.2020.1758708) has been viewed almost 40,000 times in six weeks.

Professor Michael Hall is also co-author of another article on COVID-19, as part of a *Tourism Geographies* special issue on the transformation of tourism through COVID-19 (Brouder, P., Teoh, S., Salazar, N.B., Mostafanezhad, M., Pung, J.M., Lapointe, D., Higgins-Desbiolles, F., Haywood, M., Hall, C.M., & Clausen, H.B. 2020, “Reflections and discussions: tourism matters in the new

normal post COVID-19.” *Tourism Geographies* (Scimago Q1, ABDC ranking A), DOI: 10.1080/14616688.2020.1770325).

UC Law Professor John Hopkins has been appointed as a ‘curator’ of the COVID-19 research repository (hosted by Victoria University of Wellington in collaboration with other tertiary institutions around New Zealand). To access the repository, go to:
<https://www.wgtn.ac.nz/law/centres/nzcpl/projects/covid-19>.

UC’s Research & Innovation office is currently progressing over \$1 million of Pre-Seed Accelerator Funding (PSAF) to commercialise UC technologies. A good example of a current project is the novel nuclear magnetic resonance (NMR) technology Daniel Holland and Yevgen Matviychuk are developing. They secured a consultancy project with BASF, a leading global chemical engineering company, successfully demonstrating that the NMR technology could reduce BASF operating costs by about \$1 million per annum. Following this success, UC has secured \$132,500 of MBIE funding to validate the technology and explore the commercialisation pathway. Negotiations are underway with Magritek, a world-leading, New Zealand-based, NMR manufacturer. Under consideration is the possibility of partnering in a bespoke consultancy business, ideally with Callaghan Innovation funding, which will service significant New Zealand and international businesses.

Research & Innovation is also assisting Professor Maggie-Lee Huckabee to obtain a further \$250,000 of PSAF to support the commercialisation of BiSSkApp, a medical device to treat swallowing impairment. This product has resulted from UC Rose Centre for Stroke Recovery research and clinical engagement and follows on from the original commercialised product ‘BiSSkiT’, which has been sold globally to speech and language therapists. Use of this new technology will enable patients to relearn how to swallow solid food, often for the first time in many months, and will also help prevent the significant complications and sometimes even death among patients who have impaired swallowing.

Research & Innovation has successfully negotiated terms to license UC’s recently developed intellectual property in zinc recovery to Zincovery, a start-up formed as a vehicle to enable a UC staff member (Aaron Marshall) and a past Master’s student (Jonathan Ring) to raise capital to further progress the technology. Supported by PSAF funding, the academic and student entrepreneur have both been through the KiwiNet Emerging Innovator programme and received investment to develop their technology to an investible proposition. They are finalists in the C-Prize competition, run by Callaghan Innovation, which seeks to push the boundaries of what is possible through technology. They were also the first New Zealand enterprise to be invited to participate in the South Australian accelerator programme Inovyz, but declined the invitation as they felt the value added by Inovyz did not warrant the ownership stake they would need to give up. Led by Jonathan, Zincovery is now actively seeking seed or venture investment, with a technology incubator at an early stage of due diligence. Extensive market validation and industry engagement, locally and internationally, has the company poised to assist the metal galvanising industry meet environmental obligations and create wealth and employment.

Academic staff in the School of Teacher Education within the College of Education, Health and Human Development have been advancing development of three funding submissions for the Teaching and Learning Research Initiative (TLRI). TLRI is the most significant education-focused research funding pool in Aotearoa New Zealand. Dr David Pomeroy and Kay-Lee Jones are working on a project entitled “Enacting mana-affirming assessment and grouping in secondary te reo Māori and Pāngarau/Mathematics”; Dr Amanda Denston and Associate Professor Alison Arrow’s project focuses on developing a framework for teaching-learning, content-based literacy

skills and assessments in secondary schools; Dr Tracey Millan’s project is “Writing wrongs in academic literacy development: Narrowing the academic writing achievement gap in New Zealand”; and Dr Andrea Delaune is proposing an investigation of the notion of ‘equitable partnerships’ in early learning.

Professor Andy Phelps in the HITLab has secured a book deal with Taylor and Francis on many aspects of games design and psychology. The first half of the book establishes a design framework built on psychology, game studies and design theory, while the second half is a practical examination of our theoretical framework as applied directly to successful (or perhaps unsuccessful) games.

People – Nurturing Staff, Thriving Students

Colleges and service units have continued to support students’ learning and career options. For example, Nicole Anfang (Business School Postgraduate Student Advisor) and Brad Cottam (Business and Law Outreach Coordinator) participated in the virtual UC science, technology, engineering and mathematics (STEM) careers fair. They recorded a short video for their well-attended Q&A session explaining why STEM students might want to complete a business course or qualification and outlining possible options and combinations.

A second example is the Business taught master’s programme, which started on 18 May. To support the new online students, Nicole Anfang trialled Zoom drop-in sessions using the waiting room function. The sessions were well-attended and student feedback was positive. Nicole has also been using Zoom to engage with prospective international students, who also appreciated being able to talk to a ‘real person’.

At Level 1, student wellbeing services (Student Care, Health Centre and RecCentre) are transitioning from primarily online and restricted face-to-face delivery of services to almost normal BAU operations. In making this change, they are following sector guidance relevant to their service sector (for example, guidance from Sport NZ for RecCentre, and from the Ministry of Health for the Health Centre).

In collaboration with the University of Canterbury Students’ Association (UCSA), UC has developed a strategy to support students facing hardship, in line with the Government’s Hardship Fund for Learners (HAFL). This strategy builds on existing well-established processes, while ensuring new reporting requirements are met. Approximately 120 students – particularly postgraduates – have applied for support to date. UC has initiated discussions with other universities to exchange learning and help build greater consistency across institutions. We have stepped up communications with students, including by providing examples of what ‘hardship’ looks like and encouraging students to seek help. A noteworthy point is that a number of applications have been declined because they have considerable savings in their bank accounts. We anticipate levels of hardship will increase when the wage subsidy ends and students’ part-time jobs diminish.

The COVID-19 response continues with a focus on areas of identified need for the wellbeing and progress of UC’s doctoral student cohort. A robust process is being developed for international PhD students to commence their initial studies offshore and then move to Christchurch when the borders reopen

On Monday 8 June, GradFest was officially opened with a speech to postgraduate students that focused on their contributions to UC and our local, national and international communities. At a

lively and entertaining “Meet the Deans” session that followed, students posed questions to the Dean of Postgraduate Research, Associate Deans and Research Manager. The week-long programme of events will include a “Research in the COVID-19 environment” session with Professor Wright (Deputy Vice-Chancellor Research) and invited academic staff as panellists, as well as discussions of mātauranga Māori and being an international student in the current climate.

Three UC students have won William Georgetti postgraduate scholarships, representing a third of all these scholarships offered across New Zealand. These scholarships will support the studies of Maui Brennan for his Master’s at Bocconi University, Benjamin Davies for his PhD at Stanford, and Robbie Morrison for his LLM at Duke University.

Science postgraduate geology students Kamen Engel and Sriparna Saha helped create a virtual demonstrator tool for the GEOL242 course. It allowed students while off campus to explore 3D rocks and see very thin slices of rock up close with interactive images taken under a microscope.

Geology PhD student Sam Davidson recently published a paper in the top-tier journal *Geology*, which dealt with part of his PhD research project based along the Hikurangi Margin, offshore from the East Coast of the North Island. The paper, entitled “Conjugate strike-slip faulting across a subduction front driven by incipient seamount subduction”, received very positive comments through the peer review process.

Robbie Morrison, who was a 2018 LLB Hons graduate and held an internship to the US Congress in 2017, has been awarded a William Georgetti Scholarship (adding to the Fulbright Scholarship he received in 2019). While also accepted at University of Texas at Austin and Cambridge, Cornell and New York Universities, Robbie will commence postgraduate studies at Duke University in January 2021.

Looking forward to Semester 2, UC teams are working closely with UCSA to inspire students with a sense of excitement and re-engagement with study and life on campus through a “Re-Orientation” programme in July.

With UC staff, the focus has been on ensuring that they have the support they need to administer assessments remotely and sufficient support to transition to work back on campus. Academic staff have worked hard since March to modify their teaching and learning and their examination methods. General staff have in the main reported that they were able to be productive during lockdown and that they received good support and communication from the University. There has been some feedback that those staff with dependents at home had some challenges balancing work and home commitments, particularly towards the end of the lockdown. The Incident Management Team members worked long hours, and they and others are being encouraged to take annual leave. Managers and People and Culture staff are working to understand these impacts on individuals and to ensure that University provides appropriate support for their wellbeing.

In line with government guidelines, and as semester two approaches, staff and students are being encouraged to continue to record their whereabouts on campus in case the University needs to contribute to a contact tracing exercise in the future. On top of existing systems such as class lists, Canterbury cards will provide data on building access and QR codes will give additional information about selected areas of high volume, for example cafes.

I am very pleased to advise that we have appointed Adela Kardos to the position of General Counsel and Registrar. Adela comes to us with a wealth of experience and is currently the General Counsel/Head of Legal Services at Christchurch City Council (CCC). With her Bachelor of Laws with Honours from UC, Adela has been a Barrister and Solicitor of the High Court of New Zealand

since 2007. She currently manages a team of 16, including 12 lawyers, and plays a critical role as a Member of the Council's Executive Team providing strategic and legal advice on both governance and operational matters. Adela has been with the CCC for the past 9 years and is looking forward to taking on a new challenge. She has a passion for the Education sector and will be joining us from Monday, 3 August 2020.

Internationalisation – Locally Engaged, Globally Networked

Two international ranking systems have reported recently. First, the Centre for World University Rankings, which is influential in Europe, has released its 2020–21 rankings in which UC is placed 499th among 2,000 universities, and third ranked in New Zealand. University of Auckland and Otago were ranked 263 and 341 respectively, while other New Zealand placings were Massey 671, VUW 691, AUT 1,057 and Waikato 1,075.

Second, Quacquarelli Symonds (QS), which operates one of the two most influential rankings systems in the world, has released its 2021 university institutional rankings. UC has dropped 43 places to 270 internationally, and remains marginally the fourth-best ranked university in New Zealand. It dropped in all component scores, with particular decreases in academic reputation, employer reputation, and citations per academic. Five New Zealand universities dropped in their QS rankings, while Auckland, Massey and AUT rose marginally. The rankings for the eight universities in descending order are: Auckland 83, Otago 184, Victoria University of Wellington 223, Canterbury 270, Massey 272, Waikato 375, Lincoln 387 and AUT 437. Professor Ian Wright is developing an action plan to reverse the decline in rankings.

In the College of Engineering, significant international awards were recently announced. Professor Misko Cubrinovski of Civil & Natural Resources has been awarded the Ishihara Lecture, which is the highest honour lecture in the field of geotechnical earthquake engineering, and Associate Professor Rua Murray from the School of Mathematics and Statistics has been recognised with a Senior Fellowship of the Higher Education Academy. Also of note is that Associate Professor Dan Zhao of Mechanical Engineering has been elected a Fellow of the Royal Aeronautical Society in the UK.

On 25–26 May, working under lockdown conditions, Professor Natalia Chaban (Media and Communication) and Dr Henrietta Mondry and Associate Professor Evgeny Pavlov (Russian Programme, Global Cultural and Language Studies) organised and ran an international virtual symposium involving 15 scholars from New Zealand, the UK, Ukraine, Estonia, Latvia and Lithuania. Over two days, participants discussed the role and place of political communication, strategic narratives and perceptions in the information flows in the post-Soviet space. A special focus was on the political imaginations of Russia in relation to Europe and the European Union (EU) in post-Maidan Ukraine, in three Baltic EU member states and in Russia itself. Symposium papers will contribute to the special issue of the peer-reviewed *New Zealand Slavonic Journal*.

Dr James Mehigan, UC Law School, has joined an international research group preparing a report for the Yazidi Justice Committee on crimes committed against the Yazidis under international criminal law. The Committee is chaired by Sir Geoffrey Nice, who prosecuted Slobodan Milosevic at the International Criminal Tribunal for (former) Yugoslavia.

International students is the area most affected by the pandemic. There are ongoing discussions between the university sector and government about timing, logistics and a phased approach to the re-entry of international students. There is consensus that the over-riding objective is to ensure that

when the borders re-open for international students it can be done in ways that do not compromise the gains that have been made in eradicating the virus.

In anticipation of resumption of international student mobility into New Zealand the International Relationships Office (IRO) is progressing a number of key initiatives as part of UC's diversification and COVID-19 recovery efforts. The main Semester 2 recruitment focus is on retaining students who are studying online, and converting students who have existing offers or have deferred offers from Semester 1. There is encouraging interest in the online to on-campus pathways in programmes such as Master of Applied Data Science and the suite of Business taught master's offerings.

The new "World's Best Choice" marketing campaign is developing at pace, with refreshed messaging about the opportunities for international students at UC for personal development, transformation and change. This campaign is a key part of efforts to build the profile of UC online and among agents in diversification markets such as Vietnam, Indonesia and Taiwan.

The UC Business School's Whānau programme is a new initiative for Semester 2 2020, to be delivered as part of the Business School's 'BusMe' peer mentoring initiative. The primary aims of this programme are to support the wellbeing and success of international students and to foster a truly international student experience (especially in a post-COVID-19 world where outbound student mobility is not an option for the foreseeable future). New, international BCom students (who will be based offshore) will be connected with current students of various nationalities through weekly online meetings to practise their English language skills and build social connections. The programme is intended to foster a sense of belonging among new international students and to enhance the cultural competence of all participants.

Organisational Efficacy

Student recruitment is a key focus for the balance of this year and beyond. UC kicked off a digital campaign for the adult market on 18 May and launched the first iteration of its 360-degree campus tour. The accommodation guide, along with 360-degree virtual tours, is being finalised to be ready for UC's first completely online domestic recruitment campaign.

The series of virtual Hui Tairanga | Information Evenings over the last three weeks is almost complete and has seen strong uptake and positive feedback. Numbers attending were similar to last year's in-person events. We are learning from the lockdown experience and virtual information evenings will certainly stay on the agenda for 2021 – both for regions the Liaison team is not able to visit physically and for prospective students who cannot attend their local evening.

Approximately 51% of those checking in to the virtual Information Evenings viewed the accommodation video. Interest in Tupuānuku at these events is encouraging. An online Tupuānuku campaign will launch mid-June to promote our new hall of residence for 2021.

UC Foundation income to date is \$4.3 million, with 525 donations from 306 donors and distributions of \$1.2 million in the year to date. Kono Iti, the emergency student relief fund administered by UCSA, has raised \$167,000 in donations and pledges to support students. UC is developing strategies and processes to support UC students through the Government's hardship grants for learners

The forecast financial deficit for this year remains around \$9M. A new set of financial targets has been communicated to SLT with the aim of getting this deficit down to \$4M by the end of 2020. A new set of financial measures has been issued and these measures will assist in achieving these

savings. From a cash point of view we are tracking \$8.6M behind budget but we still retain a healthy cash balance.

Forecast EFTS for 2020 are still unfavourable to budget by 826 EFTS of which 510 EFTS relate to International students. This equates to a revenue drop of \$18.3M against budget. We are however still up on the 2019 year by \$4.2M in revenue and 32 EFTS.

The IT review by Tenzing has been completed and is now out for consultation with the IT Services staff. After that, a change proposal will follow a consultation process. A Chief Digital Officer role is currently being recruited to lead the IT team to enable the delivery of a number of aspects of our new Strategy.

The Robotics team continues to deliver new bots to reduce administrative workload and pain points for processes across UC. It is currently implementing bots for human resources processes and contact tracing.

The outcome of a change proposal for Facilities Management was announced to staff recently. This involves a move away from the Learning Resources departments of Capital Works, Facilities Services and Campus Services, to create one department of Facilities Management (FM). FM now has four functions: Asset Planning; Asset Maintenance; Sustainability; and Security. The Asset Planning team will focus on further integrating the space management function with the campus development function, to reflect that space is one of UC's key issues.

First outputs from the Strategy's monitoring system will be available this month and a full review of progress will be undertaken in July for the first half of the year. Regular reporting on progress against the detailed implementation plan will keep the strategic goals at the forefront of decision making.

Environmentally Sustainable

Peter Holland, who was Professor of Geography at the University of Otago, has left a bequest of over \$1 million in his will for environmental science and ecology at UC. The bequest is to support two scholarships a year targeted at Māori and Pasifika students. After growing up in Waimate, Professor Holland completed an MSc in Geography at Canterbury in 1963 before undertaking a PhD in Australia. For a few years (1979–1982) he was a lecturer in Geography at Canterbury before moving to the University of Otago. It is a handsome bequest and we hope that it helps kickstart the careers of many Māori and Pasifika students.

The 2019 Sustainability report is now available and is included in the Council papers.

Communications and Profile

Two former senior staff in the College of Arts were represented in the Queen's Birthday Honours List. Gender Studies pioneer Rosemary du Plessis and former Head of Aotahi: School of Māori and Indigenous Studies, Lynne Te Aika, were honoured with the New Zealand Order of Merit. Nine other Honours recipients are alumni of the College: Derek Lardelli (Fine Arts), Anthony Lepper (BA), Brian Pauling (Political Science), Tom Rainey (Music), James Tomlin (Fine Arts), Donna Avia (BA and Ursula Bethell Writer in Residence), Donald Long (BA/MA), Ella Hanify (English and Music) and Marie Taylor (Journalism).

News media

Over the period 12 May to 9 June 2020 there were 606 mentions of UC across national online, print and broadcast media. Stories related to COVID-19 have become less dominant, although some still feature on expert advice, UC students volunteering their services, and innovations that have risen out of COVID-19. Interest has grown in steps forward post-lockdown, specifically in lifting New Zealand's economy in sectors such as tourism and infrastructure. Student input to successful regeneration in Tiromoana Bush has been covered, as have UC academics and alumni recognised in the Queen's Birthday Honours List. In addition to the positive media coverage UC generated, more than 69 media queries were handled over this period. The following UC news stories appeared in national media over this period:

- UC students measure successful regeneration in Tiromoana Bush
- Ground-breaking UC academics, Māori culture champions among staff, alumni named in Queen's Honours
- UC 2020 artist-in-residence to examine museum's Pacific taonga
- Magic tricks and Netflix – Life under lockdown for Canadian teaching students
- UC Epidemiologist provides insight about New Zealand's ongoing Covid-19 response
- New UC technology doubling ventilator capacity could save thousands of Covid-19 patients
- UC Arts SSANSE Project provides advice on government policies for a Post-Covid Future
- Digital doctors' HealthPod puts healthcare in the community
- New study into mood-dysregulated teens' nutrition funded \$150,000
- Innovations in teaching overcome lockdown challenges
- Mimicking nature's best medicine opens door to new treatments
- New Zealand hits a 95% chance of eliminating coronavirus – but we predict new cases will emerge
- International UC students lend a helping hand during lockdown
- Crusaders on side for match-ups on marketing, research and student success.

Also in the period from 12 May to 10 June 2020 we published one article for The Conversation, which was also covered in Stuff: "New Zealand hits a 95% chance of eliminating coronavirus – but we predict new cases will emerge". This generated around 130,000 views in its own right. Views of all UC content reached just over 150,000 for this period. The diagram below shows the spread of readership over this period worldwide.



We are also seeing encouraging and consistent growth this year on our @UCNZ Twitter account and the UC News website. In May, @UCNZ Twitter gained 122 new followers and traffic to the UC News website increased by 70% over May 2019. The main reason for the additional traffic was that thecut.com, a New York magazine, published our story on astronomers Dr Antonio Herrera Martin and Associate Professor Michael Albrow, both from the School of Physical and Chemical

Sciences in the College of Science, who found an incredibly rare new Super-Earth planet towards the centre of the galaxy.

Canterbury University Press (CUP)

CUP received advance copies of *From Gondwana to the Ice Age* in May. Printing is underway for three other books: *Merchant, Miner, Mandarin: The life and times of the remarkable Choie Sew Hoy*; *Llew Summers: Body and soul*; and *Rape Myths as Barriers to Fair Trial Process: Comparing adult rape trials with those in the Aotearoa Sexual Violence Court Pilot*. The publication of *Merchant, Miner, Mandarin* is on track for later this month and the authors will be interviewed on RNZ's Nine to Noon on 24 June.

Publications now available in digital editions include *Talking Baby: Helping your child discover language* and *Black November: The 1918 influenza pandemic in New Zealand*. CUP author of the latter book, Emeritus Professor Geoffrey Rice, continues to contribute to a wider public understanding of the COVID pandemic and the importance of learning from the past. He was quoted in an article in the *New York Times* by Pulitzer Prize-winning columnist David Segal about the worldwide lack of memorials to the 1918 flu pandemic; Segal describes Professor Rice's successful efforts to establish a memorial in Aotearoa New Zealand, opened by Prime Minister the Rt Hon Jacinda Ardern in November 2019. Professor Rice has himself just finished an invited article for the *Journal of Global History* with the working title: "How reminders of the 1918 influenza pandemic helped Australia and New Zealand to cope with COVID-19".

Two recent CUP titles were reviewed by Terry Toner on Radio Southland's Book Show: *Living Among the Northland Māori (2019)* on 6 and 10 May and *The Christchurch Town Hall 1965–2019: A dream renewed* on 20 and 27 May.

The College of Arts has introduced two new public-facing blogs. College news will now feature on its *Arts Update Te Rāngai Toi Tangata* blog (<https://artsupdate.canterbury.ac.nz/>) with regular items under headings of News, Views and Events. Aggregated posts will be sent out in a regular newsletter for subscribers, and selected entries will be tweeted through UC Arts Twitter channels. Aotahi: School of Māori and Indigenous Studies has also launched its *Aotuhi* blog (<https://blogs.canterbury.ac.nz/aotahi>). This blog gives the School an opportunity to talk about the 360 degrees of Māori reality. It will give voice to the world of solutions, highlighting mahi that is happening now to advance the aspirations of Iwi Māori, and will include longer, more philosophical writing as well as insights from the lived experience of Māori elders.

UC Law Professor Elisabeth McDonald presented a webinar for the Institute of Judicial Studies (the educational arm of the New Zealand judiciary) on the key findings from her forthcoming book *Rape Myths as Barriers to Fair Trial Process* (Canterbury University Press, 2020).

UC Law Professor Annick Masselot gave an interview entitled "Women, Pandemic and an Uncertain Future" for the religious online media platform A Thoughtful Faith Podcast, in which she focused on the many gender inequalities that the COVID-19 pandemic has exposed.

Series one of the UC Science radio podcast continues with interviews with Sally Gaw, Chris Gordon, and Julia Rucklidge. The Art of Science competition winners have been announced and artwork is being showcased online. In an interview on RNZ's Nine to Noon on 3 June 2020, Professor Simon Kingham discussed how COVID might change the way we move around. Associate Professor Ben Kennedy, technical staff Matt Cockcroft and Chris Grimshaw, and PhD student Nicole Allen appeared on the Kiwi kids' classic television programme *What Now*. Associate Professor Travis Horton stars in a video to mark World Oceans Day released by the US Embassy in New Zealand.

The Hihiko webinar series presented by Te Kura Umanga | UC Business School aims to support and enable organisations, schools and communities through presentations featuring national and international experts, notable UC alumni and the School’s world-class researchers. “Hihiko” means to be inspired, lively and invigorated.

Hihiko webinars are supported by the UC Centre for Entrepreneurship, the Institute of Directors, UC MBA Graduate Association, MYOB and the Asia NZ Foundation. Recent Hihiko speakers have included: digital marketing consultant and UC alumnus Sam Frost; former Canterbury Earthquake Recovery Authority CEO Roger Sutton; and Chair of the New Zealand Climate Change Commission Dr Rod Carr. The webinars have also showcased research from UC Business academics including Professor Bernard Walker and Adjunct Professor Venkataman Nilakant. The next scheduled Hihiko webinar will feature well-known Canterbury businessman Mike Pero, and Jane Anthony from Z Energy.

In mid-May four teams of students participated in the UC Centre for Entrepreneurship 48-hour Digital Doctors Disrupt Challenge. The multidisciplinary teams brought together students from UC, Ara, Otago Medical School’s Christchurch campus, and Lincoln University. Participants were tasked with reimagining general practice through improving patients’ experience of virtual consultations and the use of digital tools. The Challenge was supported by ChristchurchNZ and Pegasus Health – providing students with the opportunity to engage with 11 industry experts including general practitioners, technology entrepreneurs and healthcare providers.

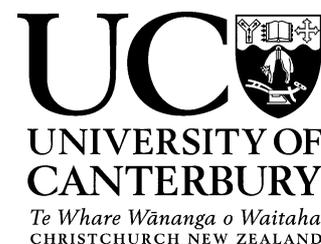
Two ideas captured the imagination of the judges (Vince Barry, CEO, Pegasus; Mark Liddle, COO, Pegasus; and Mark Darvill, General Manager, Riccarton Clinic). One was Medsolve’s proposal for the ‘Home Hub’ to connect patients and doctors through smart devices and support communities with a simple, easy-to-use, patient-specific smart screen. Also making an impression was the medical kiosk concept of the Florence’s Nightingales, enabling patients to monitor chronic conditions more accurately as part of their regular routine. These ‘HealthPods’ would be widely accessible at local marae, schools and supermarkets.

Past Events	
28 May 2020	Presentation at UC Council Strategy Day
3 June 2020	Conducted interviews for General Counsel/ Registrar role
4 June 2020	Continued interviews for General Counsel/ Registrar role Met with Gaby Moore and TEU delegates Attended Zoom meeting for Universities New Zealand Presentation on UC Strategy to the UCSA Advisory Board meeting
5 June 2020	Met with David Meates CEO of Canterbury District Health Board
8 June 2020	Delivered welcome address at UC GradFest Attended Zoom meeting with TEC
9 June 2020	Attended UC Business and Law College Executive Meeting
10 June 2020	Interviewed by Sharon Curzen, UNZ Communications Manager
11 June 2020	Met with Leeann Watson, CEO of Canterbury Employers’s Chamber of Commerce via Zoom Attended a meeting with Duncan Cotterill Met with Rachel Simpson, BusinessNZ via Zoom Met with Tori McNoe, UCSA President
12 June 2020	Met with CEO of Christchurch City Council, Dawn Baxendale Met with CEO of ChristchurchNZ, Joanna Norris via Zoom

	Meeting with Hon. Chris Hipkins via Zoom Attended Academic Board
15 June 2020	Meeting with Arihia Bennett, CEO Te Rūnanga o Ngāi Tahu via Zoom
17 June 2020	Presentation to UCSA staff on UC Strategy
18 June 2020	Held farewell for Acting PVC Science, Professor Carter Attended Faculty of Law meeting
19 June 2020	Attended Universities New Zealand meeting via Zoom Attended meeting with TEC in Wellington
22 June 2020	Meeting with Chairs and Principals of the independent Halls of Residence
23 June 2020	Visited Chairman and Principal of Ilam School

Forthcoming Events	
25 June 2020	Hosting Academic Board Workshop Hosting Brown Bag Lunch at UC
29 June 2020	Meeting of the Christchurch Knowledge Commons
10 July 2020	Presenting at the Transitions Programmes Graduation Ceremony Attending Academic Board

Memorandum | Pukapuka



To:	Ki:	University Council
From:	Nā:	Paul O’Flaherty, Executive Director People, Culture and Campus
Date:	Rā:	17 June, 2020
Subject:	Kaupapa:	2019 Sustainability Report

Recommendation:

❖ *That Council notes this report.*

Purpose:

This annual report from the UC Sustainability Office indicates how UC is performing with regards to the Sustainability Framework and the UN Sustainable Development Goals.

Attachments:

Full report commences overleaf.

Paper Progress:

To:	Date:	Decision:
SLT	16 June, 2020	Recommend to Council.
FPRC/ARC	N/A	N/A
COUNCIL	24 June, 2020	

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Pūrongo Toitū te Taiao 2019 UC Sustainability Report

manaaki tangata, manaaki whenua

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Kupu Whakataki | Introduction

Last year we reported that UC had adopted a new Sustainability Framework. However, during 2019 UC developed and adopted a new Strategic Vision, which underscored the importance of sustainability to the UC community.

As part of this, a Sustainability Working Party developed an implementation plan for sustainability at UC.

The Working Party identified five work streams:

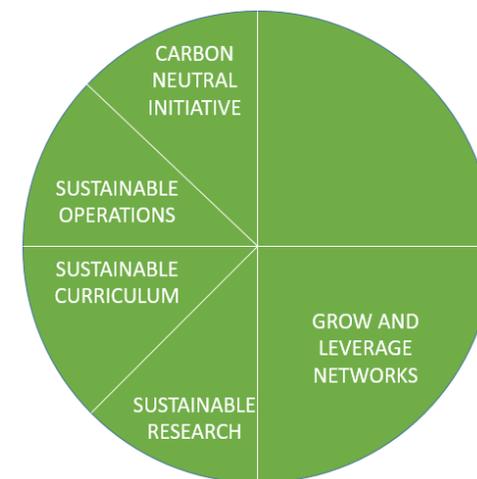
- Weave opportunities for students to learn and contribute to resolving the Sustainable Development Goals through UC teaching
- Ensure that UC research contributes to resolving global sustainability challenges
- Establish a Carbon Neutrality Initiative that will ensure that UC will be carbon net neutral by 2030
- Measurably and substantially improve the environmental sustainability of UC.
- Engage with local, national and global networks.

Sitting alongside these five areas are a number of specific actions. Many of these actions will require work from new working groups. These working groups will be supported by the Sustainability Office, and a plenary of the working groups will essentially form the basis of a renewed Sustainability Reference Group.

The five work areas identify which elements of the Learning in Future Environments (LiFE) framework UC is prioritising for the near future. These five areas align well with the Learning in Future Environments four priority areas and therefore to the various LiFE Frameworks which sit under these priority areas. This is the organising framework for this report. As such, a detailed analysis of UC's performance against LiFE has been undertaken for the first time.

It also gives an indication about the contribution UC is making towards the United Nations Sustainable Development Goals (SDGs). On this point, it should be noted that *the Sustainability Office recommends moving beyond 'badging' specific UC work areas against individual SDGs, and analyses how it is meeting the 169 specific targets for the Goals. This is especially pertinent given that UC will co-host the Third SDG Summit in 2021.*

UC Sustainability Framework



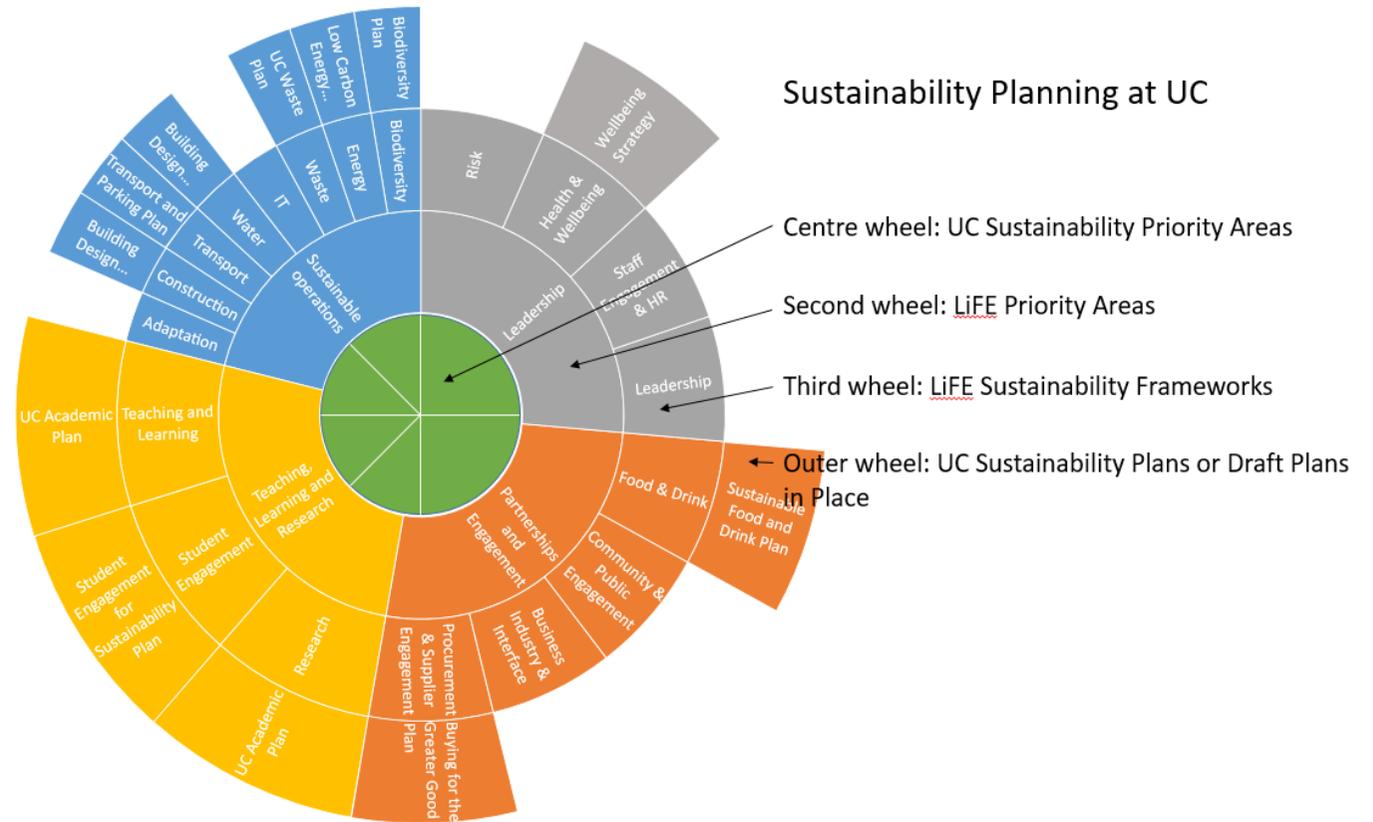
Acknowledgements

This year a larger range of people have contributed to the Sustainability Report than in previous years. This can be ascribed to both the increased profile of sustainability within the University of Canterbury, and also to growing understanding of the sustainability reporting framework we use, and therefore how different actors can participate in this.

Tari Toitū te Taiao | Sustainability Office would like to thank these individuals for their reporting contributions: Steve Gibling, Susannah Wieck, Rachel Wright, Shelley Ranson, Chloe Wium, Brian Phillips, Rob Oudshoorn, Michael Oliver, Tony Sellin, Kavita Sharma, Jon Harding, Jim Briskie, Tim Huber and Emma Morar.

The UC Sustainability Reference Group has reviewed this report.

UC's Senior Leadership Team approved this report on 16 June 2020.



Message from the Tumu Whakarae | Vice Chancellor Cheryl de la Rey

Kia ora,

It is my pleasure to present the 2019 UC Sustainability Report, although I do so in a time of considerable global uncertainty and challenge.

Last year I led the creation of a new strategic direction for UC. Through the extensive consultation process sustainability emerged as a top priority for our community, and this is reflected in the new [UC Strategy](#). The implementation plans that came out of this strategy ensure that we act quickly to address many of our sustainability challenges. Foremost amongst these is our plan to phase out coal as our primary means of heating our spaces. We are investing in infrastructure upgrades to reduce our carbon emissions associated with heating by approximately 85% within the next 24 months, maximising our uptake of renewable energy focusing on being net carbon neutral by 2030.

We are also reviewing our curriculum and research programmes to ensure that we are making a meaningful contribution to the Sustainable Development Goals (SDGs). UC remains committed to engaging with the wider community on sustainability issues. One of our academic staff members, Professor Bronwyn Hayward, is one of two New Zealand members of the Intergovernmental Panel on Climate Change, for example. A further example of this is our intention to host the 2021 New Zealand Sustainable Development Goals Summit. This is an opportunity to gather together tangata whenua, Pasifika, business, government, community, youth, health, education and other sectors to advance New Zealand's work on implementing the SDGs. As part of this work we are represented on the Universities New Zealand Expert Panel on the SDGs.

We are living through an unprecedented period in human history. COVID-19 has shown us what a global crisis, looks like and how important it is to have a global response. Our experiences here in Canterbury means that we understand how to navigate our way through the changes imposed upon us and we continue to learn how to be agile and responsive in a fast-changing situation. As we respond to and anticipate further changes, we remain focused on our plans for sustainability at UC.

Ngā mihi
Professor Cheryl de la Rey





1 Whakamahuki o te Mahere Toitū te Taiao | UC Sustainability Planning Overview

This report is organised according to the Learning in Future Environments (LiFE) framework, with additions developed for the UK Sustainability Leadership Scorecard.

We begin with an assessment of progress on the priorities for 2019 as identified in 2018, noting that these have been subsequently amended.

UC Sustainability Framework	2019 Priorities	Progress during 2019
<i>Sustainable Operating Practises</i>	<p>Continue work on Low Carbon Energy Scheme</p> <p>Assess structure of Sustainability Office</p> <p>Begin enacting Biodiversity Plan, with focus on Beatrice Tinsley and Wellness Precinct</p> <p>Implement the first phase of the Waterways Monitoring Framework</p> <p>Implement next stage of Bicycle Parking plan – Beatrice Tinsley Bike Park</p> <p>Bring UC waste system onto a sustainable footing</p>	<p>Work on this scheme continued during 2019 and will continue through 2020.</p> <p>The structure of the Sustainability Office has been reviewed as part of the proposed new FM structure.</p> <p>Significant native planting undertaken around Haere-Roa in the Wellness Precinct.</p> <p>Waterways Monitoring Framework first phase completed.</p> <p>Beatrice Tinsley Bike Park completed, adding 400+ bike parks.</p> <p>Improvements have been made regarding compostable packaging. Waste posters are being redesigned.</p>
<i>Partnerships for Sustainability</i>	<p>Participate in UNZ’s committee of the Sustainable Development Goals, as part of the Government’s Voluntary National Review.</p> <p>Include Sustainability in priority categories of the Procurement Strategy</p> <p>Run a high profile Sustainability Awards for staff and students</p>	<p>Participation in this process undertaken.</p> <p>This project is on-going.</p> <p>Awards attended by over 50 staff and students, and presentations made by Vice Chancellor.</p>

1.1 Leadership and Governance

1.1.1 Leadership

Strong senior leadership aided the development of the new UC Strategic Vision and Sustainability Implementation Plan in 2019. LIFE requires UC to have a sustainability plan in place, and this has been achieved. The Sustainability Framework adopted by UC in 2018 will be superseded by the work completed in 2019 in due course.

1.1.2 Staff Engagement and HR

Work began with Human Resources on identifying and developing ways of engaging staff in a sustainability agenda during 2019. This focused around an initial project of implementing the New Zealand Transport Agency's (NZTA) new guidelines for supporting staff to purchase e-bikes.

The major opportunity for engaging staff in sustainability during the year was the Sustainability Awards. For the first time, the Vice Chancellor presented these awards, which in turn generated the highest ever number of nominations for these awards. The nominations were judged by a panel of independent judges including Tony Moore (Sustainability Advisor, Christchurch City Council), Brodie Akacich (Sustainability Manager, Christchurch International Airport), and Lin Roberts (academic staff member, Lincoln University). A list of nominations is included in the appendices.

1.1.3 Health and Wellbeing

During 2019, UC's Wellbeing Strategy was developed. This utilises the Te Pae Mahutonga model of wellbeing, which broadens out UC's understanding of the ingredients of wellbeing, and includes the importance of the natural environment. A new staff member will begin at UC in 2020 with a focus on reporting, and this is likely to include reporting against the SGDs.

1.1.4 Risk

A risk profile for UC regarding climate change has not yet been developed. However, in September 2019 the New Zealand Government announced that it had "appointed a project team to undertake New Zealand's first National Climate Change Risk Assessment (NCCRA)... The Risk Assessment will be based on the recently released Arotakenga Huringa Āhuarangi – A Framework for the National Climate Change Risk Assessment for Aotearoa New Zealand. This Framework was developed to guide the production of the NCCRA, which will help the Government to understand the impacts of climate change on the country's natural, financial and infrastructure



assets.”¹ This provides the context for the Government’s discussion document, “Climate-Related Financial Disclosures: Understanding Your Business Risks and Opportunities Related to Climate Change” which was released in October 2019. This discussion document refers to the G20’s Taskforce on Climate-related Financial Disclosures (TCFD) which identified two types of risks: transition and physical.

The transition risks for businesses are:

- policy risk, due to evolving policy actions by governments and regulators
- litigation risk, due to an increase in climate-related litigation claims
- technology risk, due to the significant impact of climate-related technological improvements or innovations
- market risk, due to shifts in supply and demand in response to climate-related risks and opportunities
- reputational risk, due to changing customer or community perceptions about whether an organisation is contributing to or detracting from the transition to a lower-emissions economy.

The physical risks for businesses are:

- The TCFD stated that there may be financial implications for entities as a consequence of direct damage to assets, and indirect impacts from supply chain disruption. These risks can be either event-driven (eg, the increased severity of extreme weather events) or driven by longer term shifts in climate patterns that may cause sea level rise or chronic heat waves.
- The TCFD also noted that entity performance may be affected by changes in water availability (sourcing and quality), changes in food security, and extreme temperature changes that impact on the entity’s premises, operations, supply chain, transport needs and employee safety.²

UC needs to undertake such a risk assessment, and may soon be required to do so.

¹ <https://www.mfe.govt.nz/news-events/project-team-appointed-undertake-new-zealand%E2%80%99s-first-national-climate-change-risk>

² Ministry for the Environment, “Climate-Related Financial Disclosures: Understanding Your Business Risks and Opportunities Related to Climate Change” (New Zealand Government, Wellington, 2019)

1.2 Research, Learning and Teaching

1.2.1 Research

UC's Research contribution to the SDGs was reported on in the 2018 Sustainability Report. As these are typically long-term projects, they were not revisited for the 2019 report.

1.2.2 Learning and Teaching

This year the Sustainability Office once again sought to understand UC's teaching and learning contribution to the SDGs using the keyword search method. This method uses a piece of bespoke software to match a set of keywords for each SDG with course descriptions as listed in the Course Information System (CIS). The Sustainable Development Solutions Network developed the keywords.

There are certainly methodological problems with both the software and the keywords, which are explained in the notes to the report. Essentially, these issues relate to the presence of false positives, and the choice of wording in the CIS.



However, the results allow for a comparison year on year, and provide a helpful indication of UC's SDG strengths regarding teaching.

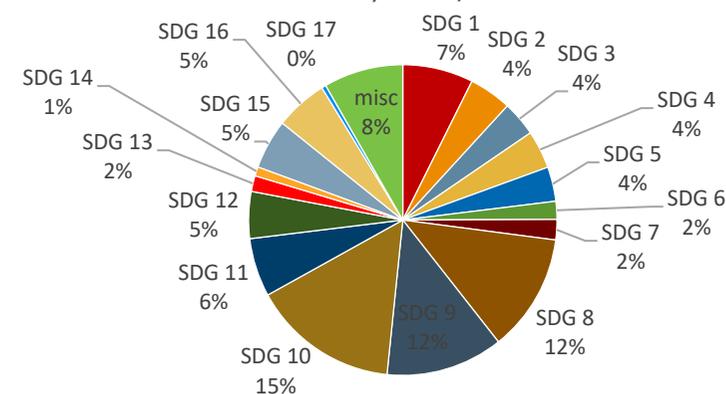
Overall, 1,129 courses mentioned at least one of the SDG keywords. More than half of that number (573 courses) referenced the keywords only one or two times, and given the propensity for false positives with the keywords, that number should be treated with caution.

By keywords, the SDGs most well represented in UC courses are SDGs 10 (15%), 9 (12%) and 8 (12%). If we look at those SDGs whose keywords featured in courses five or more times – in probability denoting a higher degree of focus on issues relevant to that SDG – it is obvious that SDG 10 stands out. 45% of SDGs represented in courses with five or more keywords relate to that Goal. SDG 15 follows (17%). A list of the SDGs can be found in the appendices.

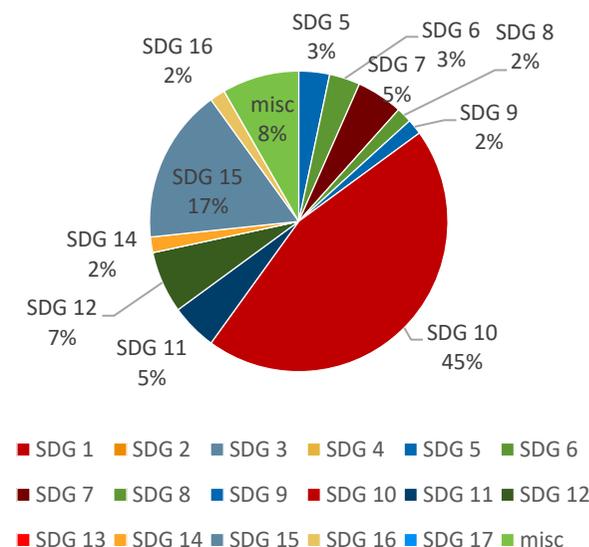
The individual courses featuring the most SDG keywords are listed below.

Course Code	Course Title	CIS Occurrences	College
ENME405	Energy Systems Engineering	22	Engineering
MAOR172	Science, Maori and Indigenous Knowledge	20	Arts, Science
GEOG106	Global Environmental Change	19	Science, Arts
MBAD663	Leading Sustainable Enterprises	17	Business and Law
FORE447	Environmental Forestry	17	Engineering
LAWS364	Law of the Sea	17	Business and Law
POLS443	Science, Technology and Environmental Policy	17	Arts
GEOG402	Resilient Cities	16	Science, Arts
ENNR405	Ecological and Bioresources Engineering	15	Engineering
ENCN445	Environmental Fluid Mechanics	15	Engineering
FORE105	Forests of the World	15	Engineering
BIOL270	Ecology	15	Science

Percentage of courses mentioning keywords for each SDG (as proportion of courses mentioning SDG keywords)



Percentage of courses mentioning 5 or more keywords for each SDG (as proportion of courses mentioning 5 or more keywords)



1.2.3 Student Engagement

Chloe Wium, Student Engagement Coordinator

2019 saw more students engage in sustainability issues than ever before, with a real feeling of grass-roots energy on campus. More students are taking the lead on sustainability issues like climate action, sustainable transport and low-waste living. This is consistent with a survey of students conducted during the year, in which of a range of ten topics were presented for students to rank according to how much money they were prepared to spend on them. Students prioritised their hypothetical spending on 'Supporting student success and wellbeing, followed quite closely by 'A sustainable university by 2030 (socially, financially & environmentally.'

The Sustainability Office has been working closely with student groups and champions to nurture this energy, and this year we again delivered our popular Bike Breakfast event, Plastic Free July and Fashion Revolution campaigns and Fair Trade events. A highlight for 2019 was the opportunity to support our rangatahi during Climate Action Week 2019, which included sign painting sessions and walking with those students who attended the School Strike 4 Climate in September.



Over 2,700 students and staff attended sustainability events over the course of the year, and we reached a total of 190,987 people across our UC Sustainability Community social media channels (see chart on following page). Our more targeted communications plan for engaging our community via Mailchimp newsletters led to an increase in average open rates from 24.8% in 2018 to 33.4% in 2019.

Our Eco Volunteer program remains a key part of engaging our student community, with 133 students now signed up into our program. 65 of these students are also recognised as Eco Volunteers through UC's Co-Curricular Record. From this we have identified 40 students as active sustainability champions, and who we see gaining confidence and starting to take leadership on sustainability events and initiatives on campus. The 2020 Eco Volunteer program will build on our current offerings, as well as broadening to include opportunities for students in climate action, engaging with the SDGs and more project driven volunteer activities.

Case Study

PROD211: Waste material centred design

As part of the course PROD211 Materials Engineering and Selection, students are given a design project that is targeted to reduce and reuse waste materials. Students will have to design a product made from a specific waste material and focus on the commercial feasibility, novelty and sustainability of their designs. The aim of the project is to teach students about the value of so-called waste materials and find new and exciting ways to use materials that have been discarded as useless. All the waste materials that students will be given, ranging from cardboard packaging to plastic aprons, cabbage tree leaves and human hair have been supplied by companies that have a strong interest in improving their environmental footprint and UC's Sustainability Office in attempt to find local solutions for the waste produced on campus. The project ties with the research aims of Dr Tim Huber from the School of Product Design towards developing more sustainable and environmentally friendly products.



1.3 Facilities and Operations

1.3.1 Biodiversity

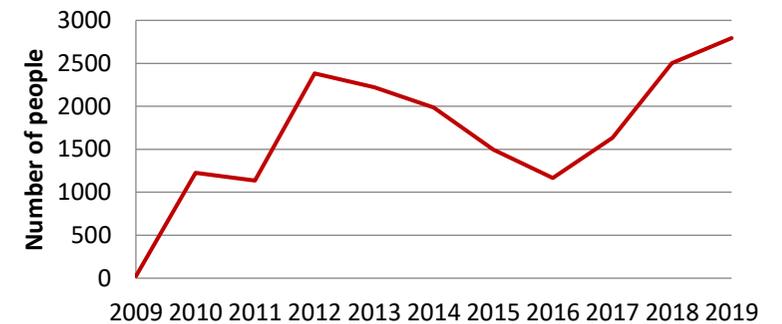
Biodiversity reporting at UC is still dependant on academics conducting class experiments and offering their results to the Sustainability Office. In 2018, a Biodiversity Plan for the UC Ilam campus was developed with engagement from academics and general staff. This is awaiting UC-wide approval.

Enhancing mahinga kai values is a core principle in the Landscape Concept and the Waterways Issues and Options document and the UC Waterways Plan 2017-2045. These fed into the high level Landscape Masterplan which was endorsed by SMT early in 2017.

During 2018 the Waterways Group continued work on and confirmed a monitoring and reporting framework for the campus streams. Implementation of this Framework began in 2019.



Sustainability Event Attendance





Waiutuutu/Okeover Stream

Professor Jon Harding, School of Biological Sciences

The ecological health of Waiutuutu/Okeover Stream has been monitored annually since 2000 by staff and students from the Freshwater Ecology Research Group in the School of Biological Sciences at four sites along the stream on campus. In 2019 the diversity of stream invertebrate species had recovered from a drop in 2017, however the ecological health of the stream is still of concern and in poor condition when compared to several different measures of stream health.

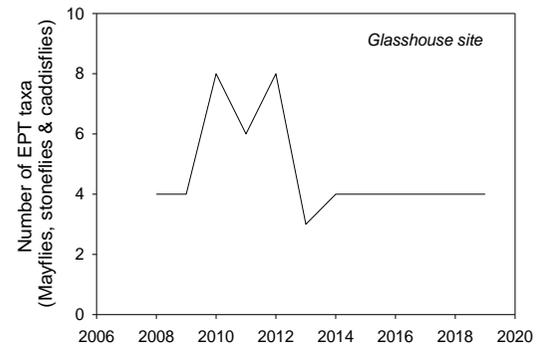
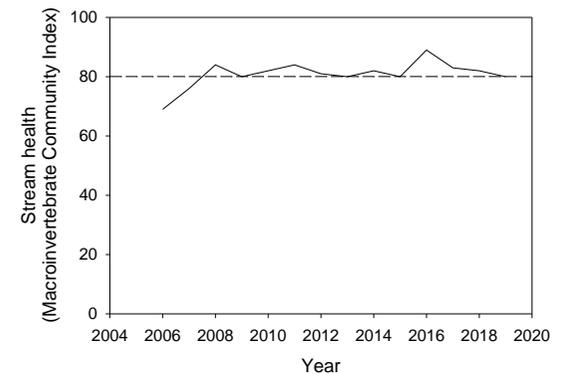
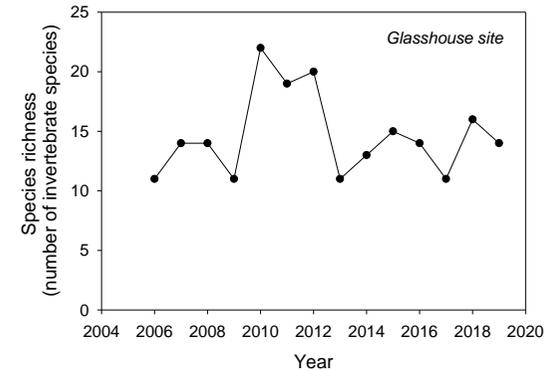
In 2019, the most downstream site near the University Glasshouses (monitoring site O5) had only 14 species which was markedly less than the 20 species collected at this site in 2012. The Macroinvertebrate Community Index (a widely used measure of stream health) scores an 80, indicating the stream is fair-poor and moderately polluted. Continued untreated contaminated stormwater inputs and sediment from construction over the last few years are all likely causes for this poor ecosystem health. High levels of sediment are particularly obvious along the reaches by Engineering and the Zoology Carpark.

The approach being taken by the Waterways Advisory Group and Facilities Services with campus waterways is to improve them using the following hierarchy of strategies:

- 1) improve base flow (water quantity)
- 2) reduce contamination (water quality)
- 3) improve habitat.

The Waiutuutu/Okeover Stream is fed in the upper stretches almost entirely from air conditioning water discharged directly into the stream. At certain times of the year, this system is switched off which has a significant impact on aquatic life. A project is commencing in 2020 to understand what a minimum flow regime would look like to maintain a healthy ecosystem, with a view to increasing flow.

New work is also being undertaken to install stormwater filters at contamination ‘hotspots’ on campus to improve water quality. This is long-term work, and it may take several years before an effect on in-stream biota is observable.



Birds

Professor Jim Briskie, School of Biological Sciences.

In 2016, students from BIOL273 repeated a survey of birds on campus undertaken in 1990. This class has undertaken the bird survey every year since, and the data gathered from these surveys is presented below.

Species	1990	2016	2017	2018	2019
Paradise shelduck	0	0	9	1	11
New Zealand pigeon**	0	0	0	0	0
Silvereye	25	151	28	71	70
Fantail	7	11	12	8	27
Grey warbler	1	18	20	53	9
Bellbird	0	3	19	3	12
Welcome swallow*	-	4	26	21	21
Black-backed gull	0	0	2	32	27
Red-billed gull	0	0	0	6	27
Spur-winged plover	0	0	0	4	0
NZ scaup	0	0	0	2	3
Black-billed gull	0	0	3	0	0
Little shag***	0	0	0	0	1
TOTAL NATIVE	33	187	119	201	208
Redpoll	7	27	10	18	5
Chaffinch	3	11	37	32	22
European starling	12	12	7	57	50
Blackbird	101	192	161	333	352
Song thrush	32	34	19	61	61
Dunnock	27	61	37	72	78



Silvereye
Source: Forest & Bird

House sparrow	750	287	383	377	411
Greenfinch	23	18	55	50	36
Goldfinch	56	141	31	18	37
Australian magpie	3	0	2	0	0
Rock dove	0	175	114	188	138
TOTAL INTRODUCED	1014	958	856	1206	1190
Grey duck/mallard	44	54	19	54	37

* Dodunski (1990) did not count welcome swallows though she noted some were present

** No native pigeons were observed during survey period, but at least 1 bird has been seen on several occasions from 2016-2018

Other species: two other species likely occur on campus: (1) little owl; this species heard singing at night in SE part of campus, and (2) kingfisher; seen a couple of times calling from a tree on SE part of campus near Avon River. Neither detected during survey period.

*** Seen for first time in 2019, in Avon River.



1.3.2 Energy and Carbon

Tony Sellin, UC Energy Manager and Carbon Accountant

Overview, Buildings and Coal

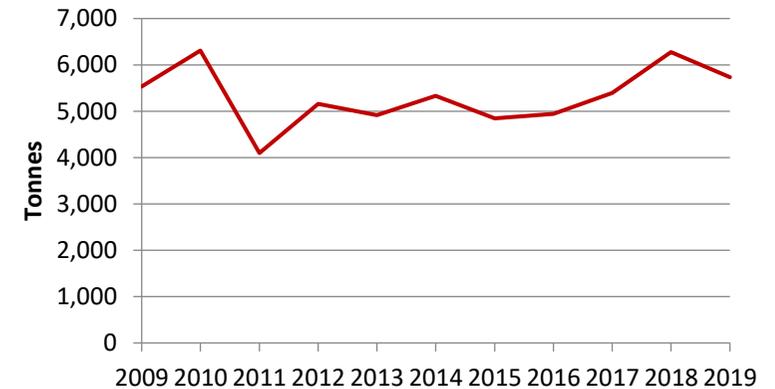
2019 has continued the significant net increase in available study/workspace provided by the capital work and remediation programme, with the occupation of Rehua and the completion and occupation Beatrice Tinsley and Haere-roa buildings, along with reduction of floorspace with the handover of Locke and Logie buildings for the start of construction projects. However, 2019 has seen a significant reduction in UC's use of coal by -8% and electricity by -11% over 2018, reflecting the higher thermal efficiency of the new building envelopes, the energy efficient plant and equipment installed and continuing efforts to improve the efficiency of existing plant infrastructure, particularly the Ilam existing Boilerplant.

The Low Carbon Energy Strategy (LCES), which was approved by UC Council last year has advanced to business case, but the opportunity is being taken to review and reassess proposed technologies in order to ensure provision of an optimal physical and financial transition solution to enable delivery of UC's 2030 carbon neutrality target. The chart 'UC Heating & 'Do Nothing' Emissions & NZ Paris Accord 2030 Target' shows what UC's GHG emissions would have been by now if we had not upgraded buildings when the opportunity was presented after the Canterbury earthquakes. It also shows real and projected GHG emissions and predicts that by 2022 UC should be well below its commitment to achieve the Paris targets and carbon neutrality by 2030.

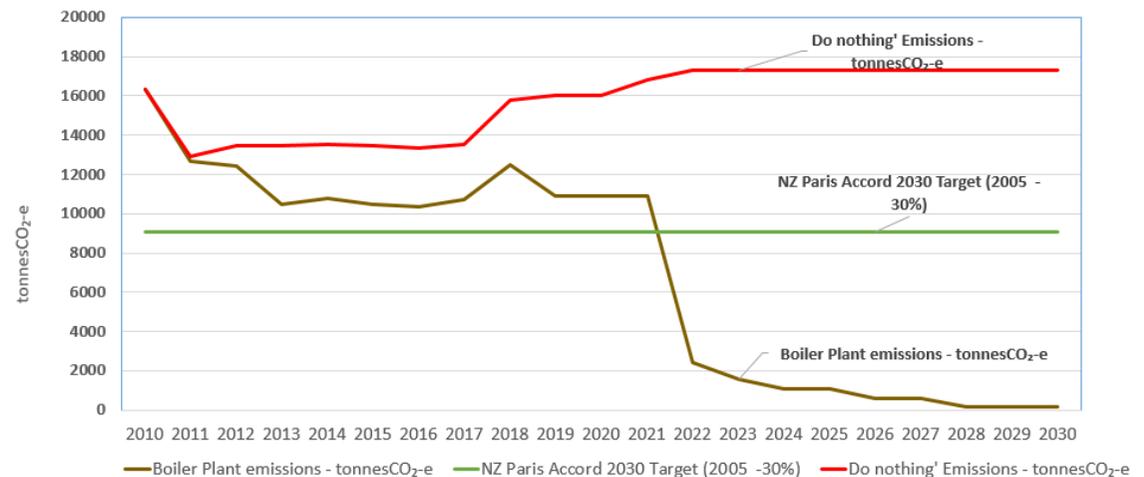
Air Travel

Air travel makes up approximately one third of UC's carbon footprint. A significant level of detail is now available to track the use of air travel within the university making it possible, for example, to track these carbon emissions by college or service unit.

Coal (tonnes)



UC Coal Heating & 'Do Nothing' Emissions & NZ Paris Accord 2030 Target



NB: Paris target as shown here is relative to coal burning, not total UC emissions.

Greenhouse gas emissions from air travel increased 2017-2018, but kilometres travelled (as reported by Orbit) dropped 2018-2019 and we should therefore see a decrease in associated GHG when that year is audited.³

Reporting

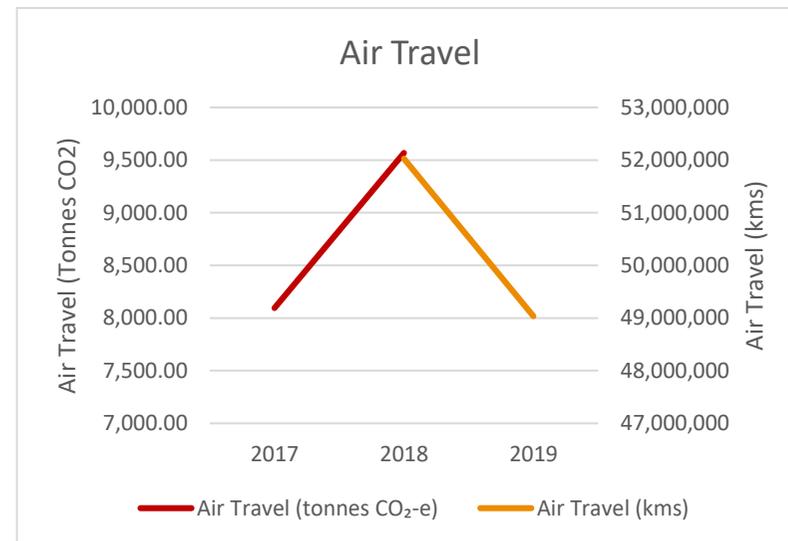
UC annually quantifies and records its GHG (Greenhouse Gas) emissions in accordance with ISO14064-1, using the Toitu 'carbonreduce' programme (formerly CEMARS – certified emissions measurement and reduction scheme) and submits the inventory for audit verification and subsequent certification. The emissions include: Scope 1 (Direct emissions from the organisation e.g. coal), Scope 2 (Indirect emissions resultant from operation of the organisation e.g. electricity) and Scope 3 Mandatory (Indirect emissions resultant from operation of the organisation e.g. Air Travel) and Scope 3 Additional (Indirect emissions resultant from operation of the organisation e.g. hotel accommodation).

In practice annual GHG emissions inventories cannot be audited until completion of the year in question and therefore UC is only able to present the audited inventory data in the year following. 2018 had seen collective UC absolute emissions increase by 13.9% over 2017, however

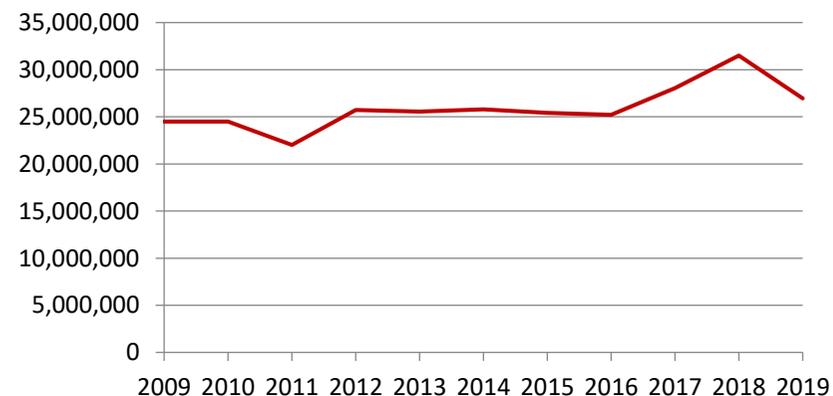
GHG emissions (tonnes CO₂-e)



during that time both the student numbers (FTEs) and the UC gross floor area (GFA) grew by 7.5% and 16.7%, respectively. The higher GHG emissions for 2018 relate to higher coal burning that year. In 2019, coal burning reduced significantly. UC's absolute emissions (All scopes) remain - 16.8% below the 2010 base year and the Scope 1 & 2 emissions are -25.3% below base year.



Electricity (kwh)



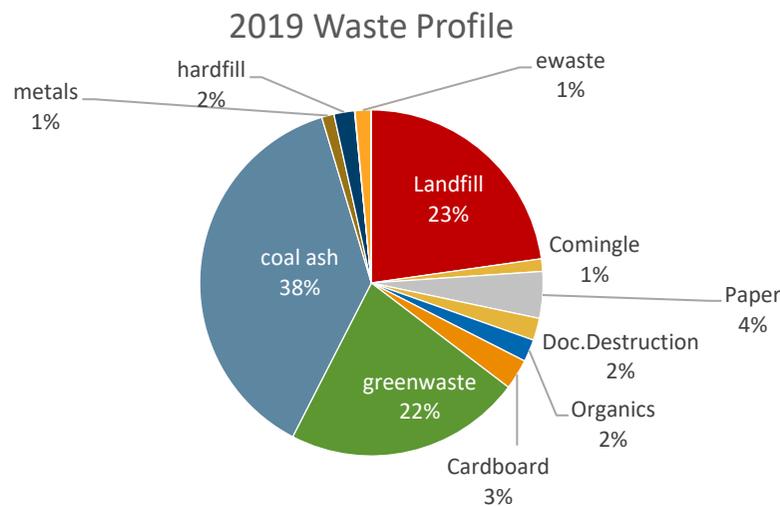
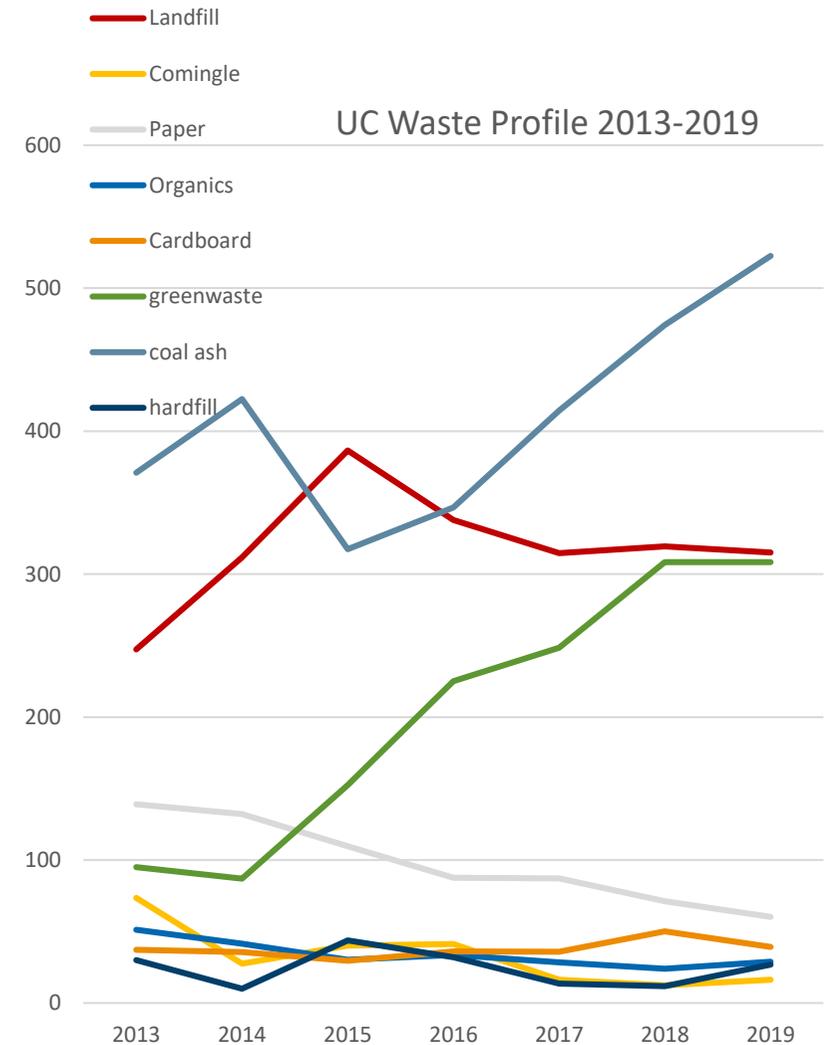
³ Possible factors that may affect this include any change in emissions factors used to calculate GHG emissions, and the class of travel used by passengers.

1.3.3 Resource Efficiency and Waste

The waste system at UC received little attention in 2019, essentially due to consolidating the work of previous years. Of note, however, is progress on dealing with compostable packaging. As noted in last year's report, compostable packaging had been introduced into UC in 2018 and this created some operational issues.

In 2019 these were resolved for the most part. In particular, waste signage was improved to deal with user errors, and at the back end a comprehensive sort of compostable packaging has been implemented (this is contracted to a third party). Finally, coffee cups, and other PLA-lined 'compostable' products, are being collected separately and these are being sent to a facility north of Christchurch that will compost them (this had previously not been possible).

The charts on this page show sharp increases in the quantity of coal ash and green waste being disposed of. This relates to a) more buildings coming on line to heat and b) the loss of the Grounds yard for composting. Landfill rates are slightly down on 2018. Comingled recycling continues to struggle, and will likely need an overhaul in 2020.



1.3.4 IT Services

IT Services continued their recycling programme for electronic equipment during 2019, recycling just over 20 tonnes of equipment.

1.3.5 Water

A project was initiated to install domestic cold water meters on all buildings in 2016. This project was approximately 98% completed by the end of 2017, and a handful of smaller buildings feeding off a main building do not have sub meters. No further progress on this was made during 2018 or 2019. In 2018 issues relating to damage to the water infrastructure meant that the end of year data could not be relied upon, but this was rectified in 2019. Between 2017 and 2019, there has been a 10.7% increase in use of domestic cold water.

1.3.6 Construction

Mark Homewood, Deputy Programme Director, Capital Works

The major construction projects completed in 2019 were Haere-Roa/UCSA (July) and Beatrice Tinsley (October). Rehua, completed in 2018, was occupied from January 2019.

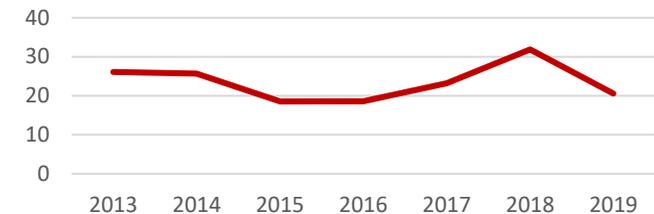
Beatrice Tinsley hosts the College of Science and is mainly offices. It features a timber frame, built on the existing foundations of the previous build. It is mostly naturally ventilated.

Haere-Roa/UCSA replaces the previous Students' Association building. As part of the project the precinct including the existing Health Centre and the proposed new Rec Centre it has a new low energy Ground Source Heat Pump energy system installed to provide heating and cooling. Innowood cladding was used in the building both internally and externally. Innowood products are manufactured predominantly from natural wood waste, to help prevent forest depletion through the sustainable use of recycled material.

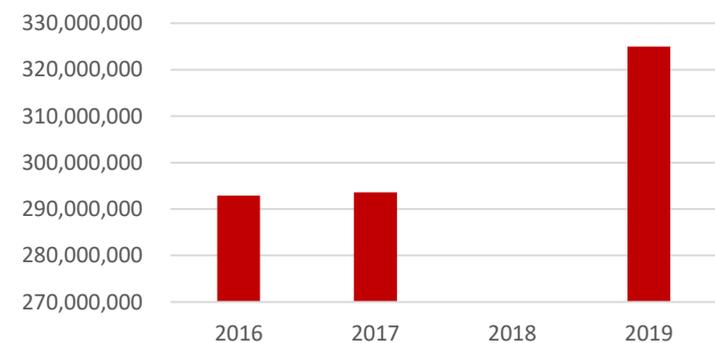
Locke and Logie refurbishment was started, including upgrading the thermal properties of the buildings to enable the buildings to be transferred to Ground Source Heat Pump heating at a later date as part of the low carbon strategy.



IT Recycling Service (tonnes)



Water Use (litres)



1.3.7 Adaptation

UC does not have an adaptation plan in place, and does not yet have an organisational understanding of what the impacts of climate change on UC might be. This has been flagged by the Sustainability Office as a priority for 2020.

1.3.8 Transport - Cycles

In 2019 UC continued to increase bike parking on campus⁴, making a marked difference with the return to use of the bike stands between Civil and Mechanical Engineering, and more significantly the new bike park at the north end of the Beatrice Tinsley building. This new space accommodates 416 bikes, including more than one hundred covered bike parks. It also includes a drinking fountain and a bike repair station, making this a valuable bike hub.

Additionally, UC began conducting regular audits of bike park utilisation on campus, to understand how well UC is catering to its cycling community in this respect. These will now be conducted twice a year (in March and July), giving us a summer and winter count. These were undertaken by a team of auditors over a one week period, noting the use of all bike stands hour by hour between 10am and 4pm. The summer count revealed an average use of 47% of all stands, while during a week in July, only 40% of stands were used. Some areas, nevertheless, were underserviced, while others were over-serviced. This has helped us to develop a work programme of better placing stands over the year ahead.

Based on these counts, UC successfully challenged the District Plan requirements for increased bike parking based on EFTS. Instead, UC's bike parking provision will be led by bike parking utilisation, where we undertake to increase bike parking in a) new areas and b) when utilisation reaches 70% or more.

More bike parks will be placed in the new Wellbeing Precinct in due course (once construction is complete).

UC Sustainability and UC Bike continued to collaborate to deliver Dr Bike services to around 90 members of the UC community during the year. This year those accessing the service filled out a short on-line survey to help the team understand more about the value this service offers the UC community. A number of successful events were held throughout the year for the UC cycling community, including bike breakfasts, and a lunchtime event during Biketober (a citywide celebration of cycling) (see section 1.2.3).

⁴ Note that the 2018 count is different from that reported last year, as additional bike parks were 'discovered' around the Halls of Residence during a detailed audit and retrospectively included in the previous year's account.

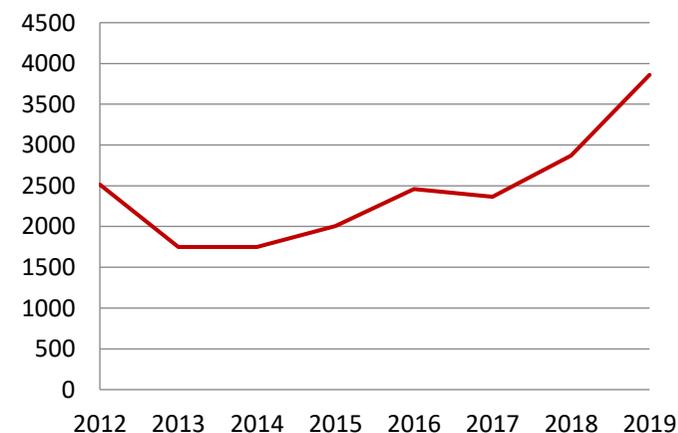
Dr Bike Stats

60%
undergraduates

45%
international students

100%
happy with the service

Cycle Stand Count



Electric Vehicles

Four Electric Vehicle charging stations have been installed on campus, servicing eight cars at any one time. The first two of these, installed earlier during the year, have been in high use.

Motorcycles

There has been an increase in motorcycle parking on campus. In response, new motorcycle parks have been marked out and these have been well received.

Travel Planning and Travel Survey

The Transport Advisory Panel did not meet during 2019, as the focus was on implementing plans from the previous years. These plans (along with those works undertaken above) centred around shifting mode use through community engagement.

Planning is also underway to undertake the 2020 UC Travel Survey, which is conducted every four years.

This will mark two decades of continuous data, and will enable the development of more up to date transport planning – and give us new information on the needs of the cycling community as well as those using e-bikes and electric cars.





1.4 Partnerships and Engagement

1.4.1 Sustainable Procurement

The Procurement team took the opportunity in 2019 to embed some of the sustainable procurement practices developed over the previous two years. This has included increasing tendering criteria to drive sustainable outcomes – working with the Sustainability office to ensure positive environmental outcomes and benefitting local communities. One proxy for sustainable purchasing that we have reported on for a number of years is the number of pages of paper purchased. As can be seen, 2019 continued the steady decline in paper use observed since 2013.

1.4.2 Business and Industry Interface

UC does not yet have a policy around how sustainability features in its interface with the business and industry community. Having said that, there are nevertheless very strong and intentionally crafted links between UC and that community that centre around sustainability. Much of this work is guided by the Centre for Entrepreneurship. While there is not a policy directive around this, the Centre has found that in the last two to three years there has been a noticeable increase in students using their service with sustainability related ideas. Likewise, many of the businesses that the Centre partners with have a strong sustainability ethos.

To meet the demand and interest from students on sustainability, the Centre for Entrepreneurship has developed a number of new programmes. In 2019, the Centre ran a Sustainability Challenge, a Climate Change Challenge, and ran a one-day Impact Summit that focused on providing young people with skills and knowledge to enable them to create real impact for their community and beyond. They worked with exemplary businesses with strong sustainability credentials such as Kathmandu and Ethique to model best practice sustainability in business and social enterprises. Students involved in these programmes offered by the Centre are exposed to the Sustainability Development Goals, and in 2020 the SDGs will be woven more deliberately throughout the Centre’s work.

There are also strong connections between the business community and the School of Business, and the School of Product Design where students are taught and are given direct exposure to the importance of developing new products and services with sustainability at the forefront.

Pages of Paper Purchased (A3 and A4)



1.4.3 Community and Public Engagement

The new UC Strategic Vision has set engagement as its first priority, noting that a key objective is to “make a positive impact on social sustainability in Otautahi Christchurch and Waitaha Canterbury.” In addition, it states that UC will “grow and leverage our local, national and global sustainability networks to bring new thinking to our challenge and to share our practice.”



1.4.4 Food and Drink

Food and Drink Plan

In 2019, the Sustainability Office released its five year [Sustainable Food and Drink Plan](#). This Plan is partly a response to research undertaken in 2014 showing the degree to which students were not eating well.

This Plan sets out five pathways for future work:

- Edible Campus
- Fairtrade Campus
- Community Connections
- Food Vendors
- Food Waste.

It sets out a range of actions that can be taken in each of these areas. Reporting on these follows.

Edible Campus

Te Ngaki o Waiutuutu: Waiutuutu Community Garden

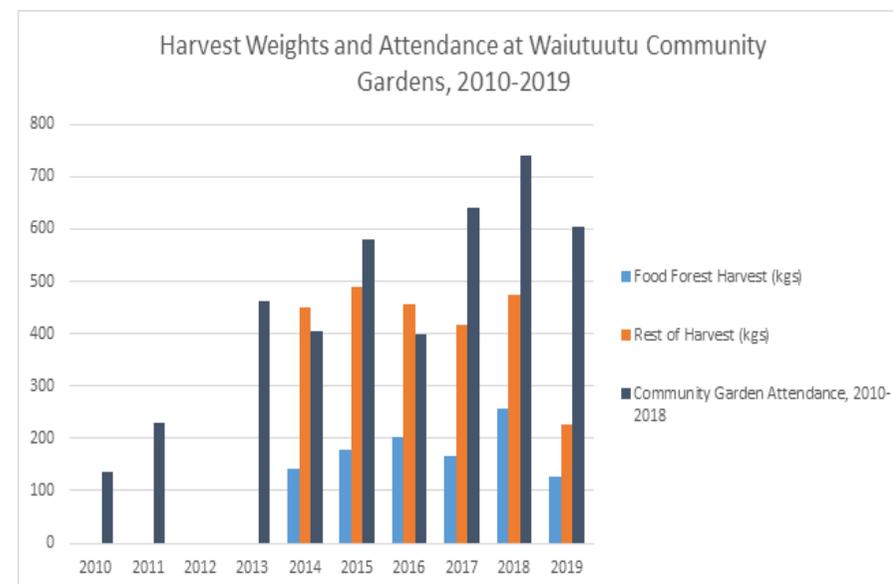
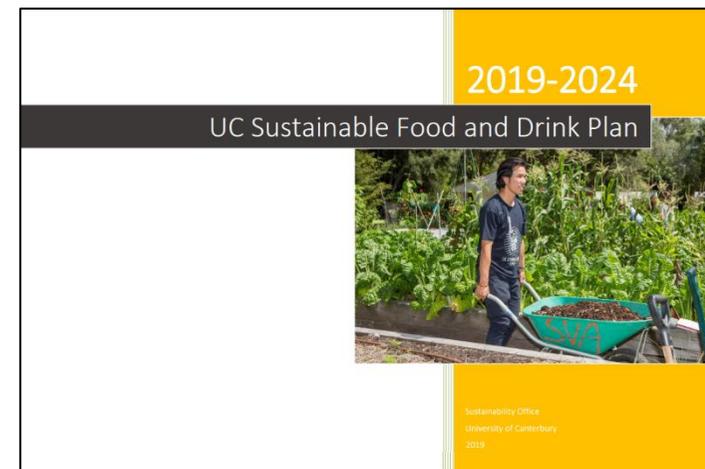
The campus community garden saw a downturn during 2019, with a significantly smaller harvest recorded, and a drop-in attendance numbers. It is unclear as to why the harvest was so much smaller than in previous years – particularly for the annual crop beds. This may reflect the challenges of coordinating a community garden on fixed term contracts, which can work against the kind of detailed planning that can only be developed over several years in a particular garden.

Edible Campus Tour

The Sustainability Office again hosted an Edible Campus Tour, this time led by new Community Gardens Coordinator Niki Jones. The tour took place during a downpour, but was still attended by 25 people. The tour highlighted the range of edible plantings that have already been established around the campus.

Fairtrade Campus

Work on our Fair Trade University program continues, with UC celebrating its second year of accreditation. This year our highlight was celebrating Fairtrade Fortnight with our university



community, by hosting events and running communications campaigns that further embedded the importance of fair trade.

We continue to work with our external fair trade suppliers and other groups on campus (such as the UCSA) to ensure we continue to meet the Minimum Requirements of a Fair Trade University, as set by Fair Trade Communities New Zealand. This year our achievements included

- 100% of UC’s 11 campus cafes now offer Fairtrade certified coffee
- Fairtrade snack foods and cold drinks now being stocked at Café 101
- Fairtrade tea now served at The Foundry
- UCSA’s catering arm now provides 100% Fairtrade coffee by default
- And the continuation of Fairtrade apparel being used for large scale UC events.

See below for the goals set by the UC Fair Trade Steering Committee for 2020.

Goals for 2020	Actions/Activities
Move towards more fair trade tea options in UCSA retail outlets and, contact private cafes with the view to move towards fair trade tea options being available.	Contact private cafes with the view to move towards fair trade tea options being available. Work with UCSA Food and Beverages Manager to expand fair trade tea into more UCSA cafes.
Continue to remind campus retail outlets about university policy around fair trade.	Continue to work with UC’s Legal Advisor to discuss property lease agreements.
Maintain our high fair trade baseline as we move forward into 2020.	Continue to review opportunities for improvement, above the Minimum Requirements.
Exploring expanding the product range in campus retail outlets e.g. University Pharmacy to include fair trade products.	Contact the University Pharmacy with the long term view of offering fair trade products i.e. crafts and gifts.



Investigate the possibility of a fair trade UC branded consumable.	Work with UC Procurement team to investigate this.
Use a campus wide communications approach to promote fair trade and our University's Fair Trade status.	Work with UC Communications team, Fair Trade Communities, Trade Aid and Fairtrade ANZ to guide this.

Community Connections

Food Resilience Network

The Food Resilience Network (FRN) is a post-earthquake collaboration between a number of organisations with an interest in enhancing food resilience within our community. This includes the Christchurch City Council and the Canterbury District Health Board. UC remains involved in the FRN in different capacities. Matt Morris, UC's Sustainability Advisor, was elected FRN Chair in 2019. This is the most direct connection between the two organisations, but UC has yet to become a member of the FRN.

Canterbury Community Gardens Association

At this year's CCGA AGM our Garden Coordinator, Niki Jones, was nominated on to the board by chair Catherine O'Neill. The CCGA represents the 30+ community gardens across Canterbury and at the moment is focussed on collaboration between the gardens to produce an exhibit at next year's inaugural Grow Otautahi show hosted by The Canterbury Horticultural Society. UC has been a member of the CCGA for many years.

Food Vendors

The intention here is for food vendors to provide healthy, sustainably packaged food on campus. No further progress has been made in this area during 2019.

Food Waste

Work continues on educating the UC community about appropriate disposal of food waste and compostable packaging. No further work on developing small scale composting options has been undertaken.

1.5 Sustainability Indicators (Following LiFE Framework)

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Research, Learning and Teaching											
sustainability event attendance	23	1,227	1,135	2,383	2,221	1,985	1,495	1,167	1,634	2,501	2,743
newsletter (total) - including mailchimp signups						416			519	693	1,059
blog views combined							2,700	9,160	7,087	6,801	8,047
blog views - sustainability office										1,635	1,827
Intercom blog views										1296	2,071
Insider's Guide blog views										3,870	4,149
instagram followers										743	1,025
facebook total reach (main)								76,880	80,363	174,487	190,987
facebook total reach (garden)										16,225	8,976
facebook reach (main+ garden)								76,880	80,363	190,712	199,963
facebook likes (main)			305				1,428	1,736	2,075	2,361	2,850
facebook likes (garden)			48				451	581	679	752	850
facebook (rideshare 2011-2016, UC Carpool 2018)	17							16		63	65
facebook (eco volunteers (from 2018))											119
Facebook fan count (combined pages)			370	640	872	1,172	1,879	2,317	2,754	3,176	3,884
Facilities & Operations											
electricity (kwh)	24,497,911	24,497,911	22,016,328	25,712,319	25,543,040	25,803,113	25,414,231	25,229,741	28,033,970	31,500,913	26,943,852
GHG emissions (tonnes CO ₂ -e)		32,392	24,318	23,145	21,419	22,590	22,870	21,436.53	23,099.64	26,309.97	
coal (tonnes)	5,534	6,309	4,098	5,160	4,913	5,334	4,846	4,941	5,396.94	6,276	5,733.10
Air Travel (tonnes CO ₂)										4,632	4,378.21
Air Travel (kms)										49,063,494	46,401,898.00
waste to landfill (tonnes)		219.79	197.11	233.44	256.14	312	386.47	337.77	314.61	319.41	315.08

comingle waste	43.53	36.06	61.32	73.52	27.56	40.12	41.27	16.31	12.38	16.19
IT Recycling Service (tonnes)				26.07608	25.66912	18.5535	18.6285	23.20	31.88	20.58
water use (litres)							292,875,000	293,571,240		324,943,000
cycle stand count			2513	1749	1749	2004	2458	2364	2870	3860
dr bike - bikes fixed					100	100	115	140	71	85
Partnerships										
pages of paper purchased (A3 and A4)				17,953,500	17,787,750	16,808,500	16,894,075	15,599,275	15,373,630	14,010,185
fair trade fresh coffee (% units)							39	100	98	100.00
fair trade coffee and milo (% units)							18	73	80	79.00
fair trade tea (% units)							10	94	94	94.00
fair trade sugar (% units)			0%	5%	3%	5.00%	5	13	11	14.00

1.6 Sustainability Assessment

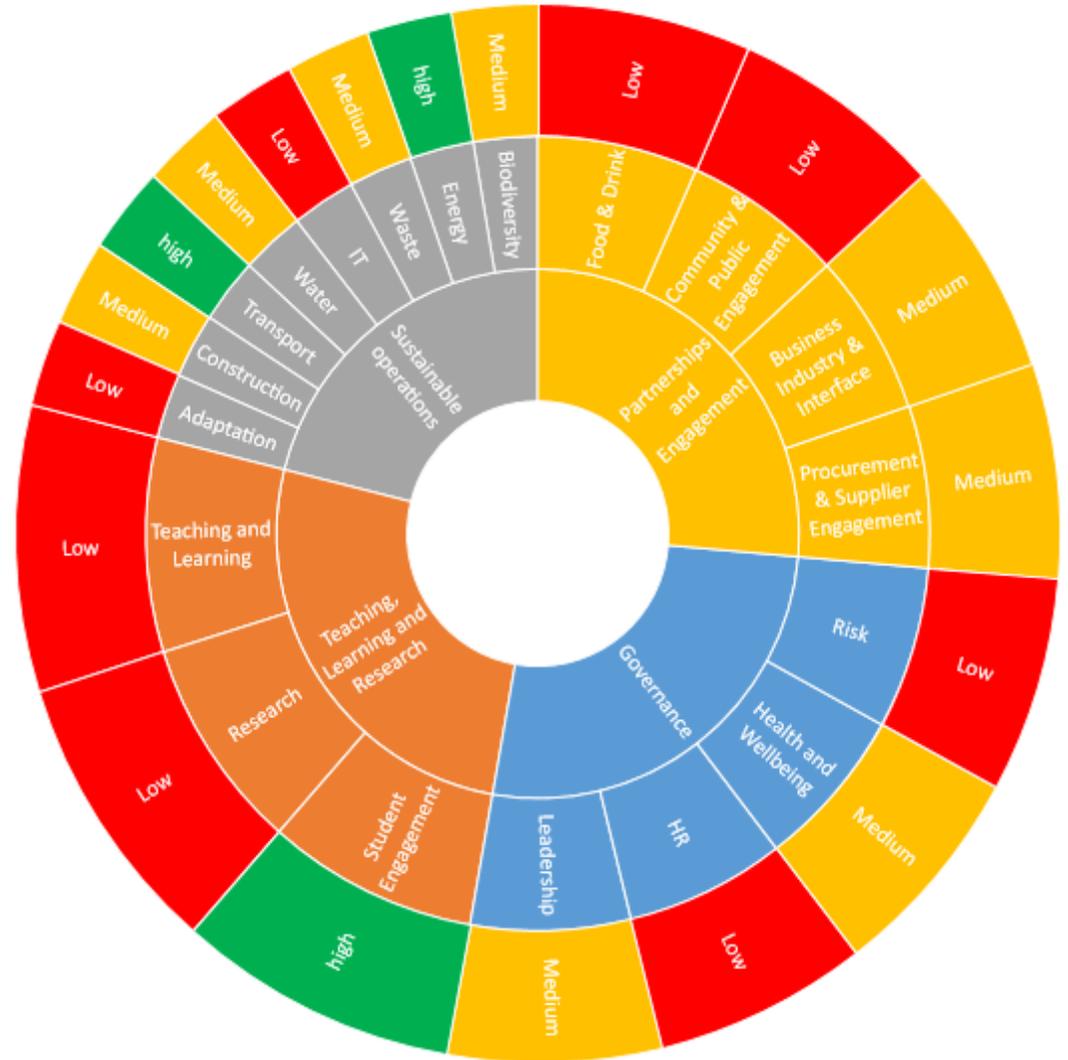
UC's sustainability performance has been assessed using the Learning in Future Environments frameworks. The elements in the 'second wheel' have all been assessed using the following criteria:

- Policy & Strategy
- Action Planning
- Stakeholder Engagement
- Measurement
- Communications
- Training & Support
- Implementation
- Links to the Curriculum

Each criterion, for each activity area, has been scored on a scale of 0-4 with these scores added up to give a traffic light assessment of low, medium or high scores.

Many of these areas have been assessed with input from staff across the university. Best practice is for these scores to be determined through a round of workshops on the different areas. However, UC does not currently have capacity to do this. Therefore, these scores should be considered as indicative. They show that there appears to be significant room for improvement.

2019 UC Sustainability Scores



2 Whakaarotau | Priorities for 2020

In 2019, UC Council approved the following sustainability priorities for 2020. Some details are still to be worked out at the time of publication of this report.

Priority Action & VC Priority	1. Replace boilers with Biomass Boilers.	ES SG3 3.1	3.1 Replace Ilam and Dovedale Coal Boilers with Biomass Boilers)	TBD
Priority Actions	2. Map relevant taught courses against the United Nations SDGs.	ES SG1 1.3	1.3 Map relevant courses against the United Nations SDG's	TBD
Priority Actions	3. Establish a Carbon sequestration programme with the School of Forestry.	ES SG3 3.3	3.3 Establish a Carbon sequestration programme with the School of Forestry	Prof. Jan Evans Freeman PVC Engineering
Priority Actions	4. Work to reduce waste to landfill and increase use of reusable, compostable and recyclable materials, and reduce water consumption.	ES SG4 4.1	4.1 Reduce waste to landfill and increase use of reusable, compostable and recyclable materials	TBD
Priority Actions	5. Invest in key areas of research to help solve global sustainability challenges.	ES SG2 2.2	2.2 Invest in key areas of research that might assist UC, to solve global sustainability challenges	Prof. Jan Evans Freeman PVC Engineering
Priority Actions	6. Benchmark UC sustainability.	ES SG4 4.6	4.6 Benchmark UC Sustainability	Sustainability office

Appendices

UC Sustainability Indicators

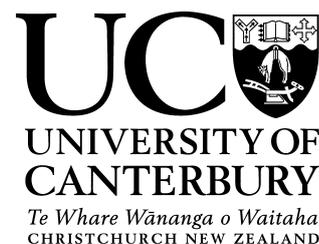
Category	Name	Project Title
ACADEMIC STAFF - INDIV	Susan Krumdieck	Transition Engineering, Building a Sustainable Future (book published Oct 2019)
	Sally Gaw	Microplastics in Aotearoa New Zealand
	Tim Huber	Waste reduction through design
	Bronwyn Hayward	IPCC Land Climate Meeting and Side Events
	Bronwyn Hayward	Services to IPCC
	Piers Locke	Pedogogy of hope - teaching that inspires engagement in environmental action
ACADEMIC STAFF - TEAM	HydroEco Engineering Research Group [Aisling (Ash) O'Sullivan, Tom Cochrane, Frances Charters, Peter McGuigan, Aude Thierry and research students] with support from Facilities Management	THE STORMINATOR™ - A Sustainable Stormwater Treatment Solution Using Food Waste Shells
	EPECentre Joule log heating team: Dr Bill Heffernan, Dr Nurzhan Nursultanov, Mr Ryan van Herel	Electric alternative to toxic chemical fumigation for export logs
	Pieter Pelser, Jim Briskie, helen Warburton	BIOL 273 Campus Biodiversity inventory
	Environmental Science staff Team	Environmental Science
	NZPSA 2019 Organising Committee	Developing a Sustainable Conference Model for UC
	The Chemical and Process Engineering Academic Team	Sustainability is embedded in Chemical and Process Engineering teaching at UC
STUDENT - RESEARCH	Mehrnoush Tangestani	Omega-3 fatty acid production from New Zealand algae
	Emma Rees	Keeping the Kaupokonui Stream Cool
	Daniel Smith and Mehrnoush Tangestani	Sustainable production of Omega-3 fatty acids by algae
	Sergio Hansen, Julian Maranan (Project Team: AOS01)	Treatment Performance of an Innovative Downpipe Stormwater Treatment Solution
	Helena Ruffell	Wastewater treatment plans as a source of microplastics to the environment
	Felix Morgenstern and Etienne Gil-Goldsbrough	Degradation Characteristics of Compostable Plastics in Controlled and Uncontrolled Composting Environments
STUDENT-LED PROJECT	Amelia Dewhurst	Christchurch Climate Challenge

	Amelia Dewhurst, Rose Bayldon, Florence Ferguson, Josh Watson	Christchurch Climate Challenge
	Harjot Gill	Sustainability and Waste Management
	Ella Knobloch	Personal sustainability passion
	Niebert Blair, PhD Student	Discovery of the dynamic balance of sustainability - Lessons learned from Amerindian hinterland villages in the Amazon region of Guyana, South America
	Rose Bayldon	Christchurch Climate Challenge Conference
	Patricio Gallardo Ocampo	Transition of Freight Transportation to Zero Carbon
	Courtney Wright-Watson	Establishing EnviroSoc
	Varvara Sidorenko	Eco Volunteering
	Abby Robertson	Te Ao Māori in Waitutuutu Community Garden
	UC For Climate Core Team	UC For Climate
	UC Bike: Bikefest Group	Encouraging commuter cycling at UC
GENERAL STAFF - INDIVID	Isabel Andrade	The Role of Adaptive Capacity: Transition Engineering of Zero Carbon Building Retrofits
	Lauralee Mather	Eathly
	Linda Morris	Life time of Reusing, Re purposing and Re cycling
GENERAL STAFF - TEAM	UCSA Food and Beverage	Coffee Price structure change
	UCSA Events Team	Globlets
	Mt Barker Forestry	Mt Barker Forestry
	Haere-Roa/UCSA Building Project Team	Wellbeing Precinct Low Carbon Energy Scheme
	Procurement	Supply Chain Influence

Sustainable Development Goals



Memorandum/Pukapuka



To:	Ki:	University Council
From:	Nā:	Professor Cheryl de la Rey, Vice-Chancellor
Date:	Rā:	16 June 2020
Subject:	Kaupapa:	Academic Board report

Recommendations:

- *that Council notes the report of the Academic Board;*
- *that Council approves the discontinuation of the Master of Bicultural Co-Governance of Natural Resources (MBCNR) and forwards the proposal to CUAP and TEC for their approval*

Purpose:

To advise Council on the Academic Board proceedings at its June meeting.

Executive Summary:

The Board considered various items including the University's response to COVID-19, an update on the Joint Postgraduate School and Scholars at Risk programme.

Key Points/Strategic fit:

The discussions encompassed the strategy's aims of being an Accessible, Flexible Future-Focussed education provider, nurturing staff, thriving students with organisational efficacy.

Financial implications:

None.

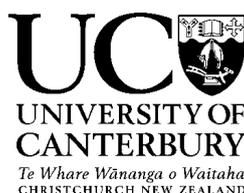
Attachments:

- **Discontinuation Proposal**
- **Academic Board report**

Full papers commence overleaf.

Paper Progress:

To:	Date:	Decision:
PFRC/RAC	N/A	
SLT	N/A	
FPRC/ARC	N/A	
COUNCIL	June 2020	Pending



Report to CUAP-Discontinuations only

(Academic Quality to add CUAP criterion)

Department or School	School of Earth and Environment		
College	Science		
Contact person	Anna Chapman	Phone number	

1. Name of Qualification(s)

Master of Bicultural Co-Governance of Natural Resources (MBCNR)

2. CUAP Unique Identifier (Academic Quality to provide)

3. Rationale

There have not been any enrolments in this qualification since it has been offered at UC. The programme is currently closed to new enrolments. There are no students to manage in this process.

Furthermore, a key member of staff who was to teach one of the core courses, GEOG460 has now left the University; this course hasn't been offered since 2018.

It has been decided that this qualification be discontinued following consultation with the Head of the School of Earth and Environment.

4. Impact on Tertiary Sector

The discontinuation of this qualification will not have a significant impact on the Tertiary Sector.

5. Will the qualification/subject be available at another NZ University?

This qualification does not have an equivalent at another NZ University.

6. Calendar changes

Identify the Regulations (including page numbers) to be deleted from the Calendar.

Pp 531 – 532 of the 2020 UC Calendar

Delete all regulations and mention of the MBCNR from the document.

RECOMMENDATIONS TO THE COUNCIL FROM A MEETING OF THE ACADEMIC BOARD HELD ON FRIDAY 12 JUNE 2020

BUSINESS FROM THE CHAIR

The Chair welcomed New Zealand's move to level 1 and thanked the university community for their cooperation during the previous months. She particularly acknowledged her appreciation for all those in the Incident Management Team and work streams which had kept business running. UC had been advised to keep online teaching capability until level 0 or equivalent indication from Government was announced.

She reminded members of the half day workshop on 25 June to discuss curriculum-related matters including academic promotions and teaching quality. She also encouraged members to nominate colleagues for UC teaching awards and teaching medal (deadline 10 July).

APPOINTMENT OF DEPUTY CHAIR

Associate Professor Horton and Professor Turnbull were recused from the meeting.

The Chair reminded members of the discussion at the February meeting around the establishment of the new position of Deputy Chair. Two nominations had subsequently been received and she had decided to continue working with both whilst the Board was meeting via zoom. She asked members for their thoughts on continuing with two Deputy Chairs. In response to a question, she reminded members of the duties of the role.

Views from the floor included:

- An initial comment from one of the members was that two Deputies had been appropriate and effective to date, so providing that the Vice-Chancellor was content then the member would be happy to put a motion to that effect;
- A contrary view was that the Board's discussion in February had been around diversifying leadership, choosing someone from outside of the managerial structure and only one should be chosen;
- The majority of the speakers indicated that for the sake of consistency and efficiency a single person should be selected.

The Chair summarised the majority view that the original decision to appoint a single Deputy Chair should stand. By the July meeting, an appointment would be confirmed.

Associate Professor Horton and Professor Turnbull re-joined the meeting. Professor Turnbull assumed the Chair.

REPORT FROM THE VICE-CHANCELLOR

The Vice-Chancellor took her report as read. She reiterated her thanks for the significant efforts made to ensure the continuity of teaching. She highlighted:

- the results of the second student survey had shown that about a third of students had wanted to return to campus even knowing that teaching would continue to be delivered online until Semester 2. The Library had become the busiest place on campus. Members joined the Vice-Chancellor in thanking Library staff for their hard work. Further reflection would be needed on UC's holistic on-campus student experience going forward.

- the ongoing discussions with the other Vice-Chancellors and officials in Wellington about how to allow international students to study in New Zealand in the time of a global pandemic without compromising safety. A phased approach was likely, aiming for Semester 1 2021.

- UC Foundation's unqualified audit from Audit New Zealand;

- the Council Strategy Day on 28th May. This had considered: what is a good university? Is UC a good university? In what areas is it world class and what will it take for other areas to reach that status? Is the strategy still relevant in the wake of COVID 19? How can UC thrive given the financial pressures on the university?

Questions and comments from the floor included:

- Have any decisions been taken on the likely consequences for staffing and for programmes as a result of the pandemic? The Vice-Chancellor replied that global QS surveys indicate that students are still interested in international opportunities, but that the current situation reinforces that this is not sustainable and UC needs to diversify its international education and find more creative ways to combine technology with on campus teaching. In the short term no decisions have been made on staffing or programmes, however members will be aware of the call for cost saving measures.
- There appear to be pressures facing UC from two different perspectives – there is an attempt to rationalise courses with low enrolments to reduce the need for expensive staff time but the recent QS rankings report showed that one of the categories where UC scored less well was average class size – staff student ratio. The Vice-Chancellor replied that 50% of the ranking was based on academic and employer surveys and that for UC both the reputation survey results had declined. Professor Wright added that reducing the number of low enrolment courses would not change the QS staff/student ratio calculation as this was based on an overall ratio of staff and students, and not the number of contact hours. He added that he had been disappointed in UC's QS outcome including the drop in score for citation impact of research and that he felt other universities were progressing faster. UC has the second highest number of Scopus papers per academic, but these are not converted into highly cited work, or international collaboration or major multi-author papers.
- A member raised concerns over the current emphasis on teaching which he felt was at the expense of research. Another member raised concerns about research groups reducing in size and a lack of strategic use of funding and investment. He suggested that scholarships should be awarded in a more flexible way, devolved to Schools and that UC should more publically promote its successes, in line with recent television news items from other New Zealand universities.
- One of the members commented that now no longer includes even the limited financial data of the past. Data requested by the member at departmental level is classed as confidential so is not released and the annual report does not include a full analysis - where is the accountability? The Vice-Chancellor said that the university publishes financial statements in compliance with regulations and these are available. Monthly reports are made available too and she will speak to the CFO on how best to do this at various levels of the University.
- Thanks to the Incident Management Team and also to technical staff across the Colleges who have worked long and hard over recent weeks.
- The recent lockdown period will have disproportionately impacted young researchers with home schooling/family responsibilities and higher teaching loads. What can be done to support those staff and is UC aware of where they are? Professor Wright said he had seen research from Australia and the UK which confirmed that women with young families have

been the most impacted by lockdown. This would also need to be considered in the promotion process at UC. Professor Evans-Freeman said that the College of Engineering had opened a short term publications scholarship for those effected over and above others by the COVID-19 pandemic. Initial applications had shown fewer females than males had been applying for the fund, but it would remain open for another two months and she would report back later in the year.

REPORT FROM THE UCSA

Ms Mills felt that the lockdown period had allowed the UCSA to build student engagement and that there were lessons they would carry forward to Semester 2. There was a new focus on the Course Creation tool and discussions about a possible first year core course to cover things that all students would benefit from including elements of bicultural competence and confidence and the care and support available to them. She commended the work of Colleges who were introducing more transdisciplinary and online options which aligned with UCSA's values. She thanked staff for their interaction with the class reps who had been able to triage issues during lockdown and for all members who had been championing the student voice.

Professor Moran thanked Ms Mills for her work with the Academic Liaison Group and the Student Learning Working Group during lockdown. A member asked how students had found the quality of teaching using various technologies. She responded that each tool had its advantages – Zoom was useful for direct engagement with staff and better for a tutorial experience, Echo360 allowed students to go back and review material for revision at a time of the student's choosing which was useful for the many students who needed to work or had other commitments and was preferred for large lectures. A member added that Echo livestream could allow for greater interaction with a lower bandwidth demand. Ms Mills said that students would be happy to let staff know their thoughts on what had worked well.

A member asked whether social events were being planned to celebrate the return to campus. Ms Mills confirmed that the Re-Ori event had been planned which would include gigs, wellness information, a clubs' day and an end of exams party in Haere-roa.

UPDATE ON THE DEVELOPMENT OF A JOINT POSTGRADUATE SCHOOL

Professor Lawson gave a presentation on the development which was a proposed collaboration between UC, Lincoln University, Ag Research, Manaaki Whenua | Landcare Research, and Plant and Food Research. She explained that the development came about following discussions with the Minister in 2018 around a closer partnership between UC and Lincoln University, but that this also aligned with UC's Strategic Vision and other national strategic signals and would provide a regional opportunity for critical mass. The initiative was envisaged as a virtual community of practice, including a set of projects by PhD students and a supervisory team linked by the theme of Food Transitions 2050. Doctoral students would enrol either at UC or Lincoln with two start dates a year. Consideration was being given to a 'PhD plus' model – a three year research project plus additional learning or experience which would allow students to be better placed for subsequent employment. Discussions had begun with local mana whenua and a Māori-led hui would take place on 15 June. The CRIs were particularly passionate about growing Māori research capability in issues of sustainability.

The intention was for a gradual launch, with a call for projects by the end of July with the first students beginning in February 2021. Three phases were planned: establishment from now until the end of 2021, development and growth from 2022 to 2025 and refresh and renew in 2026. UC would set aside five scholarships in 2020, Lincoln had committed to ten to launch the project. Some of the detail was still to be worked through.

A member asked what additional benefits the development would bring, as staff were already working closely with research students and these organisations. Professor Lawson replied that the CRIs would be bringing an in kind contribution of time for student supervision and students would be part of a wider cohort working in a coherent theme without a large bureaucratic overhead. A question was also

asked about the cost of the scheme and the expected financial and EFT returns and about the expense of running a PhD plus model. Other members endorsed the cohort model as an opportunity to bring students from different disciplines together in a community, citing a parallel with the Child Wellbeing Research Institute.

In response to a question about the UC Graduate School, Professor McAuliffe said that a great deal of work was being done in the postgraduate research space including distance options, bridging scholarships, professional doctorates and revitalising the website and more information about these developments would be considered at the Board in coming meetings.

REPORT FROM THE ACADEMIC ADMINISTRATION COMMITTEE

Professor Moran asked the Dean of Science to speak to the proposal to discontinue the Master of Bicultural Co-Governance of Natural Resources. Associate Professor Conradson said that as there had been no students, the discontinuation was not expected to have any consequences for community partnerships.

Moved

That the proposal to discontinue the Master of Bicultural Co-Governance of Natural Resources be accepted and forwarded to the University Council and CUAP for approval.

Carried

SCHOLARS AT RISK UPDATE

Professor Heinemann highlighted three activities which members might be interested in contributing to:

- Academic Freedom Monitoring project
- Scholars in Prison project
- A MOOC: Dangerous Questions: Why Academic Freedom Matters

He noted that with the current limitations on international travel, UC could act as a virtual host with an adjunct relationship which would allow a scholar access to library rights for example in return for teaching via zoom to UC students.

UPDATE ON UCIC PROGRESSION QUERY

Professor Moran said that this report was supplied in response to a question raised at the previous meeting. The tracer report had been produced earlier in the year with the intention of more work, but the lockdown had slowed progress. More work was being carried out with the Business Insight team to ensure that data going forward would be easily accessible, ideally by the development of a dashboard for all staff to interrogate.

REPORT FROM THE ACADEMIC ADMINISTRATION COMMITTEE

A member queried the communication of the decisions taken around grade scaling. Associate Professor Mackey said that the decisions were taken in unprecedented circumstances and that she felt confident that UC's policy would take into consideration the actual impacts for each student which would not be captured by a blanket grade raise put in place by other universities. UC had had sufficient time to rethink assessment design and was asking individual course coordinators to access grade data from previous years and ensure that no student is disadvantaged by the pandemic. Members applauded this pragmatic approach which trusted staff to take a common sense and compassionate approach without the risk of devaluing degrees. Original grades would also be retained to ensure statistical analysis in future. A suggestion was made that although communication in such times was welcomed, slowing down messaging to ensure all parties were receiving the same communication would be helpful.

Moved

That the Board thanks both IT staff and students for all of their hard work during the lockdown period.

Carried with acclamation