

# COUNCIL

## Te Kaunihera o Te Whare Wānanga o Waitaha

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**EMBARGOED UNTIL 2pm WEDNESDAY 30 JUNE 2021**

## Agenda

Date      **Wednesday 30 June 2021**  
Time      4.00pm  
Venue     Council Chamber, Matariki

Refer to  
Page No.

1.    APOLOGIES:
2.    REGISTER OF INTERESTS 3-5
3.    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*
4.    MINUTES  
4.1   26 May 2021 6-9
5.    MATTERS ARISING
6.    FROM THE CHANCELLOR  
6.1   Chancellor's Meetings 10  
6.2   Degrees Conferred in Absentia
7.    FROM THE VICE-CHANCELLOR  
7.1   Monthly Report 11-21
8.    FROM THE ACADEMIC BOARD  
8.1   Academic Board Report 22-29
9.    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 26 May 2021, held 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	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)
6.0 6.1	<b>From the Chancellor</b> Council Work Plan	To enable the free and frank expression of opinions by or between or to members or officers or employees of the University. To enable the University to carry out, without prejudice or disadvantage, commercial activities.	7(f)(i)  7(h)
7.0 7.1  7.2  7.3  7.4  7.5  7.6	<b>General Business</b> Health Safety and Wellbeing Report  Sustainability Annual Report  Organisational Values  Equity Review  Investment Plan 2022-2024  Governance arrangements (2022 Meeting schedule and committee review)	To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.  To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.  To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.  To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.  To enable the University to carry out, without prejudice or disadvantage, commercial activities.  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(f)(i)  7(f)(i)  7(f)(i)  7(h)  7(f)(i)
8.0 8.1  8.2  8.3  8.4	<b>Finance, Planning and Resources Matters</b> Monthly Financial Report to 31 May 2021  Financial Forecast Report  International Fees 2022  Minor Asset Valuation Realignment	To enable the University to carry out, without prejudice or disadvantage, commercial activities.  To enable the University to carry out, without prejudice or disadvantage, commercial activities.  To enable the University to carry out, without prejudice or disadvantage, commercial activities.  To enable the University to carry out, without prejudice or disadvantage, commercial activities.	7(h)  7(h)  7(h)  7(h)
9.0 9.1	<b>From the Vice-Chancellor</b> 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)

10.0	<b>Other Business</b>	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)
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**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.**

10. REPORT FROM THE PUBLIC EXCLUDED SESSION

11. GENERAL BUSINESS

12. NEXT MEETING –Wednesday 28 July 2021 at 4.00pm

**UC COUNCIL**  
**Register of Interests**  
**June 2021**

<b>Name (Council members)</b>	<b>Date notified</b>	<b>Person and/or organisation with interest</b>	<b>Nature of interest</b>
<b>Sue McCORMACK</b> <b>(Chancellor)</b>	2020	Canterbury Earthquakes Insurance Tribunal	Member
	2019	Canterbury Museum Trust Board	Trustee
	2021	CMUA Project Delivery Ltd	Director
	2009	Dress for Success	Honorary Solicitor
	2017	KiwiRail Holdings Ltd	Director, Deputy Chair
	2017	Swiftpoint Ltd	Trustee Shareholder
	2019	UC Foundation	Ex-officio Trustee
<b>Steven WAKEFIELD</b> <b>(Pro-Chancellor)</b>	2019	199 Johns Rd Ltd	Shareholder, Director
	2017	Brackenridge Services Limited	Director
	2017	CDHB – Quality, Finance, Audit and Risk Committee	Committee member
	2017	Carolina Homes Limited	Director, Shareholder
	2019	Christchurch Cathedral Reinstatement Limited	Board member (Ex officio – CPT Rep)
	2017	Church Property Trustees of Anglican Diocese	Trustee
	2020	Cookie Time Limited	Director
	2017	Court Theatre Trust	Citizens' Trustee
	2017	Crop Logic Limited	Director, Shareholder, Chair
	2017	Deloitte Limited	Former partner (now retired)
	2019	East Lake Trust	Trustee
	2018	EVNEX Limited	Shareholder, Director
	2018	Foodstuffs South Island Cooperative Limited	Independent Director
	2018	Foodstuffs South Island Properties Ltd	Director
	2017	Greater Christchurch School Network Trust	Chairman of Trustees
	2019	Health One Programme Steering Group	Independent Chair
	2021	House of Travel Wellington Limited	Director
	2017	Innovative Software Limited	Director, Shareholder
	2018	Lincoln University	Graduate (Post-Grad Diploma)
	2017	Mastaplex Limited	Shareholder
	2020	Medsalv Limited	Director
	2019	Menumaster Limited	Shareholder and Director
	2018	Murdoch Manufacturing Ltd	Director
	2017	New Zealand Health Innovation Hub	Director, Chair
	2017	Nutrient Rescue Limited	Director, Shareholder
	2020	Paenga Kupenga Limited	Director
	2017	Ravenscar Trust	Chairman
	2017	RHOAD Limited	Director
	2017	Saint Barnabas Fendalton Parish	Vestry Member, Synod Rep
	2017	Saint Barnabas Fendalton Trust	Chairman
	2017	Son, David Wakefield	Student at UC
	2017	Steve Wakefield Services Limited	Director, Shareholder

	2021	Swallowing Technologies Ltd	Director
	2017	Syft Limited	Shareholder
	2018	The Taurus Trust	Trustee
	2017	Townsend Fields Limited	Managing Director
	2017	Wakefield Holdings Limited	Director
<b>Peter BALLANTYNE</b>	2013	Canterbury District Health Board subcommittees	Member Quality, Finance, A&R
	2021	Canterbury Health Care of the Elderly Education Trust	Trustee
	2019	Canterbury Scientific Limited	Shareholder via Hawkins Family Trust
	2012	Deloitte	Consultant
<b>Liz BOND</b>	2019	Tertiary Education Union	Member
	2019	University of Canterbury	Employee
<b>Rachael EVANS</b>	2020	Kereru Trust	Trustee
	2020	Law Society	Member
	2020	Te Rūnanga o Ngai Tahu	Employee
	2020	Te Rūnanga o Ngāti Tama	Member
	2021	University of Canterbury	Guest lecturer/tutor in School of Law
	2020	Whanganui Iwi	Member
<b>Kim FOWLER</b>	2021	University of Canterbury	Student
	2021	UCSA	President
<b>Jack HEINEMANN</b>	2021	Tertiary Education Union	Member
<b>John HOLLAND</b>	2021	Craigmore Dairy II GP Ltd	Director
	2021	Craigmore Farming GP Ltd	Director
	2021	Craigmore Forestry GP Ltd	Director
	2021	Craigmore Group GP Ltd	Director
	2021	Craigmore Permanent Crop GP Ltd	Director
	2021	Craigmore Sustainables Group LP	Shareholder
	2018	Glasson Trustee Ltd	Director
	2020	Hickman Family Trustees Limited	Director
	2019	JCG Trustee Ltd	Director
	2019	SIG Trustee Limited	Director
	2018	Southbase Construction Ltd	Director
	2021	Southbase Group Ltd	Director and Shareholder
	2021	Totara Forestry GP Ltd	Director
	2019	Winders Consulting Limited	Director and Shareholder
	2019	Winders Investments Limited	Director and Shareholder
<b>Keiran HORNE</b>	2019	AJ & MJ Horne Family Trust	Trustee and Discretionary Beneficiary
	2019	CEC Charitable Trust	Trustee and Treasurer
	2019	Conductive Education Canterbury	Treasurer
	2019	Hamilton City Council	Chair, Audit Risk Committees
	2019	Horne Wildbore Family Trust	Trustee and Discretionary Beneficiary
	2019	New Zealand Lotteries Commission	Chair Audit Risk Committee, Commissioner
	2019	Quayside Holdings Ltd	Director, Chair Audit Risk Committee
	2019	Quayside Properties Ltd	Director

	2019	Quayside Securities Ltd	Director
	2019	ScreenSouth Ltd	Chair
	2021	Son	Student at UC
	2019	Spey Downs Ltd	Shareholder
	2020	Television New Zealand Ltd	Director, Chair Audit Risk Committee
	2019	Timaru District Council	Member, Audit and Risk Committee
<b>Warren POH</b>	2020	Christchurch Netball Centre	Board Member
	2018	GHD Limited	Employee
	2017	E&S Hop Holdings Limited	Director
	2021	FAN Advisory Board	Member/Independent advisor
	2018	GHD Limited	Shareholder
	2017	M&W Nominees Limited	Director and Shareholder
	2020	NOSSLO Group Limited	Director
	2018	Olsson Fire and Risk New Zealand Ltd	Director and Shareholder
	2017	Ofwarren Limited	Director and Shareholder
	2020	University of Canterbury	Husband of enrolled student
<b>Cheryl de la REY (Vice-Chancellor)</b>	2021	Academic Quality Assurance Board	Board Member
	2020	Assoc of Commonwealth Universities: Academic Quality Agency	Council Member
	2020	New Zealand Qualifications Authority	Board Member
	2019	Universities New Zealand Vice-Chancellors' Committee	Member
	2019	University of Canterbury Foundation	Trustee (Ex-officio)
	2019	University of Canterbury Trust Funds	Vice-Chancellor
<b>Gillian SIMPSON</b>	2019	Anglican Schools Board	Board member
	2019	Canterbury Rugby Football Union	Independent Director
	2019	Christ's College Canterbury	Board member
	2019	Ministry of Education Statutory Services Provider	Independent contractor
	2019	New Zealand Education Scholarship Trust	Trustee
<b>Shayne TE AIKA</b>	2020	Rannerdale Home Care Limited	Director
	2020	Rannerdale War Veterans Home Ltd	Director
	2020	The Karshay Group Ltd	Director and Shareholder
<b>Adela KARDOS (General Counsel/Registrar)</b>	2020	University of Canterbury	Staff member

# COUNCIL

## Te Kaunihera o Te Whare Wānanga o Waitaha

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### Minutes

Date	Wednesday 26 May 2021
Time	4.10 pm
Venue	Council Chamber, Level 6 Matariki
Present	Ms Sue McCormack (Chancellor), Mr Steve Wakefield (Pro-Chancellor), Professor Cheryl de la Rey (Vice-Chancellor), Mr Peter Ballantyne, Ms Liz Bond, Ms Rachael Evans, Ms Kim Fowler, Professor Jack Heinemann, Ms Keiran Horne (via Zoom), Mr Warren Poh, Ms Gillian Simpson, Mr Shayne Te Aika.
Apologies	None
In Attendance	Ms Adela Kardos, General Counsel/Registrar and Council Secretary Professor Catherine Moran, Deputy Vice-Chancellor (Academic) Professor Ian Wright, Deputy Vice-Chancellor (Research) Mr Keith Longden, Executive Director, Planning, Finance and IT Mrs Joanne Noble-Nesbitt, University Council Coordinator (Acting)
<b>REGISTER OF INTEREST</b>	The Chancellor supplied a correction to the interests register.
<b>CONFLICTS OF INTEREST</b>	There were no conflicts of interest arising.
<b>MINUTES</b>	The minutes of the meeting held on 28 April 2021 were approved and signed as a correct record.
<b>MATTERS ARISING</b>	There were no matters arising.
<b>FROM THE AUDIT AND RISK COMMITTEE</b>	
Health and Safety Report	Ms Kieran Horne, Chair of the Audit and Risk Committee presented the Health and Safety report. In presenting the report, Ms Horne: <ul style="list-style-type: none"> <li>Confirmed that the report would be brought to Council, not the ARC, for future consideration but that the Council could refer matters back to the ARC if appropriate for technical assistance.</li> </ul>

- Noted that ISO 45:2001 would be adopted as UC's preferred health and safety standard subject to it being deemed appropriate by the Director of Health and Safety. This would be confirmed in August 2021.

**FROM THE  
CHANCELLOR**

**Chancellor's Meetings**

The list of Chancellor's meetings was noted.

Moved

***That: Council note the report on the Chancellor's meetings.***

Carried

**Degrees Conferred in Absentia**

Ms McCormack advised Council of the schedule of degrees to be awarded in absentia following approval by Council. The names of the graduates would be entered into the public record.

Moved

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

Carried

**FROM THE VICE-  
CHANCELLOR**

**Monthly Report**

The Vice-Chancellor commented on a number of matters:

- UC was the first University to publish its 2020 annual report and it had been well received.
- UNZ had submitted a response on behalf of all Universities to the consultation on the Pastoral Care Code.
- Clarification was being sought as to whether the Pastoral Care Code would apply to those studying MOOC's and micro-credentials.
- Compliance with the Pastoral Care Code would be via an annual self-review process with NZQA holding responsibility for external reviews.
- Submissions had been made on the Long-term Plans for Christchurch City Council and Environment Canterbury which were subsequently followed up with presentations to both organisations, promoting opportunities for greater collaboration with UC.
- The Bishop Julius Hall of Residence was to be rebranded ahead of its next intake of students in 2022.

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:***

	<b>General Subject Matter</b>	<b>Reason for passing this resolution in relation to each matter</b>	
4.0	Minutes of the meeting held on 28 April 2021, held 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	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)
6.0 6.1 6.2	<b>From the Chancellor</b> Emeritus Professor Nomination  Council Work Plan	To protect the privacy of natural persons.  To enable the free and frank expression of opinions by or between or to members or officers or employees of the University. To enable the University to carry out, without prejudice or disadvantage, commercial activities.	7(a)  7(f)(i) 7(h)
7.0 7.1	<b>From the Vice-Chancellor</b> The Vice-Chancellor's verbal 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 8.1 8.2 8.3	<b>From the Audit &amp; Risk Committee</b> Draft minutes ARC meeting 17 May 2021  Audit New-Zealand Management Report  CAM Self-Assessment and Deloitte Report	To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.  To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.  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(f)(i) 7(f)(i)
9. 9.1 9.2 9.3	<b>From the Finance, Planning and Resources Committee</b> Draft minutes FPRC meeting 17 May 2021  Council Health and Safety Programme  Mickle Fund Proposed Amendment	To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.  To enable the free and frank expression of opinions by or between or to members or officers or employees of the University.  To enable the University to carry out, without prejudice or disadvantage, commercial activities.	7(f)(i)  7(f)(i) 7(h)
10.0	<b>General Business</b>	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 the public meeting at 5.47pm and confirmed for the public record:

- Emeritus Professor Nomination

**GENERAL BUSINESS**

There were no items of general business.

The meeting ended at 5.48pm.

**NEXT MEETING**

The next meeting was scheduled for 4.00pm on Wednesday 30 June 2021.

SIGNED AS A CORRECT RECORD: \_\_\_\_\_

DATE: \_\_\_\_\_

# Memorandum

## Chancellor's Office

Email: [chancellor@canterbury.ac.nz](mailto:chancellor@canterbury.ac.nz)



<b>To:</b>	Council Members
<b>From:</b>	Sue McCormack, Chancellor
<b>Date:</b>	23 June 2021
<b>Subject:</b>	<b>CHANCELLOR'S MEETINGS</b>

I outline for you the key events I have attended on behalf of UC since the last Council meeting:

- Regular meetings with the General Counsel/ Registrar
- Regular meetings with the Vice-Chancellor
- Officiated at the opening for Tupuānuku
- Chaired a Council Appeals Committee meeting
- Attended Council Strategy Day briefings

Meetings planned between today and the Council meeting on 30 June:

- Tokona Te Raki (Māori Futures Academy) Board Meeting

A handwritten signature in black ink that reads 'Sue McCormack'. The signature is written in a cursive style with a long, sweeping underline.

Sue McCormack  
**Chancellor**

# Vice Chancellor's Report to Council

## June 2021

### Introduction

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As we come into the middle of the year, Semester 1 has reached its conclusion with the examination period, which began in mid-June.

Quacquarelli Symonds (QS) University Rankings were released on 9 June (NZT). UC achieved a ranking of 258 – climbing 12 places on the previous year. Lincoln, Waikato, and Canterbury universities have improved their standings, with Lincoln standing at 372.

ShanghaiRanking's Global Ranking of Academic Subjects was released recently. Highlights for UC included:

- Civil Engineering: Ranked ninth in the world and first in New Zealand
- Hospitality and Tourism Management: Ranked 34th globally and second in New Zealand
- Transportation Science and Technology: Ranked in the 151–200 group globally and first in New Zealand
- Ecology: Ranked in the 151–200 group globally and first in New Zealand
- Earth Sciences: Ranked in the 201–300 group globally
- Environmental Science and Engineering: Ranked first in New Zealand.

UC student John-Paul Lay has received a Premier Award at the New Zealand Scholarship Top Scholar Awards, presented by the Prime Minister and Minister of Education at Parliament. One of 12 recipients for 2020, John-Paul also received outstanding Scholarships in Chemistry, English and Media Studies, and Scholarships in Calculus, Classical Studies, History, Physics and Statistics. In addition, he received a Top Subject Scholar Award in Chemistry. Three other UC students were also recognised at the ceremony with Top Student Scholarship awards: Kilion Tamati-Tupa'i (Kāi Tahu, Te Āti Awa Hāmoa) for Te Reo Rangatira; Aya Nichols for Printmaking; and Sylvia Otley for Sculpture.

Several academics, staff, graduates and friends of the University were on the Queen's Birthday Honours list for 2021. Among them are UC Māori education theorist Professor Angus Hikairo Macfarlane, leading plant scientist Professor Emerita Paula Jameson, Fine Arts Professor Emeritus John Simpson and Geomechanics Laboratory manager Siale Faitotonu. Graduate of the Christchurch Teachers' College (now the UC College of Education, Health and Human Technology), renowned artist Grahame Sydney, received a knighthood to add to his New Zealand Order of Merit (ONZM). Professor Carolyn Waugh was made a Dame for her ecological research.

### Engagement

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At the heart of our strategic vision is that UC is engaged and empowered and making a difference in its communities (Tangata Tū, Tangata Ora). To that end, UC has signed a three-year partnership

agreement with WORD Christchurch. This agreement will unify the partnership with WORD and greatly increase its value and visibility for both parties. Key elements include two annual events: an outreach-focused Schools Day and the Ngaio Marsh Crime Awards. The third year of the partnership refers to even closer collaboration over UC's 150th year in 2023.

UC's School of Music public and community-focused events over the past six weeks have included several key performances by students and staff that showcase its vision of being deeply integrated with the community. Among them have been a solo percussion recital by Senior Lecturer Dr Justin DeHart featuring new works from New Zealanders (including UC academics and graduates), performances of new student compositions and songs at the Arts Centre location and at the Darkroom, and two Doctor of Musical Arts recitals focusing on Balinese gamelan and on conducting Chinese choral music. Staff and students have also been involved in collaborations with other local and international musicians. Several classical voice students were selected to perform with international opera star Jonathan Lemalu in his Christchurch concert, following a masterclass he gave at UC. Further, the School's composition staff Hamish Oliver and Reuben de Lautour contributed orchestral arrangements for the New Zealand Symphony Orchestra's collaboration with Alien Weaponry and the Christchurch Symphony Orchestra's collaboration with Tiki Taane.

Kidsfirst Kindergarten Association presented the School of Teacher Education with a partnership award, honouring and acknowledging the long-standing and enduring association between Kidsfirst kindergartens and the College of Education, Health and Human Development. Lecturer Benita Rarere-Briggs was at the Association's annual general meeting to receive the trophy, which now sits proudly on level two of the Rehua building. UC was the only tertiary institution to receive this reward.

The Christchurch Maths Craft Day, an annual free event, featured a range of craft creation stations and public talks delivered by UC experts and supported by UC volunteers. Dr David Pomeroy, School of Teacher Education, and Dr Jeanette McLeod, School of Mathematics and Statistics, were just two of the UC staff who shared their passion for the creative and playful side of mathematics, proving that maths in this format appeals to all ages.

At the Canterbury Sports Awards 2021, the UC Health Outstanding Sports Coach of the Year Award was won by Peter Fulton for his excellence in coaching cricket.

As part of Techweek NZ, a festival of innovation, Associate Professor Wolfgang Rack took part in a panel to discuss and answer questions on how Aotearoa New Zealand is using satellite data today to address the climate emergency. He was joined by speakers from the Space Generation Advisory Council, New Zealand Students' Space Association, Blue Cradle Foundation, Scion and Orbica.

On Thursday 10 June the School of Earth and Environment hosted an event to mark the renaming of the Geography building as the Jane Soons building. Jane Soons was the first woman professor at UC and she is considered a pioneer not only in the field of geomorphology, where she has made major contributions to our understanding of the glacial landforms in the South Island, only for women in science.

Graduate Diploma in Sport Coaching student Francesca Howard was the feature of a UC article during May. At the age of 90, Francesca is the embodiment of lifelong learning and is passionate about challenging herself. The media article on Francesca has generated lots of media interest within New Zealand and overseas: <https://www.canterbury.ac.nz/news/2021/university-of-canterbury-student-riding-high-at-age-90.html>

The School of Teacher Education and Learning for Earth/Ako Futures (LEAF) joined up with the Ara Institute of Canterbury and EOS Ecology to learn how the Nature Agents (EOS) programme in Banks Peninsula engages ākongā | students in collecting and monitoring stream health data from their local streams (e.g., in schools). Nature Agents is a participatory community science programme in which students collect data and use online ArcGIS tools to look for patterns across their own data as well as data from other schools. On a clear, brisk morning, stream health data was collected in the Waitutuutu (Okeover) Stream on the UC campus, creating multiple connections to and new possibilities for our work with pre-service teachers. In the spirit of kotahitanga, we look forward to future collaborations with Ara and EOS.

The 2021 School of Law Open Mooting Competition Final was held. For the second consecutive year, the Judges' Cup for Best Mooter was awarded to Vincent Kenworthy, while Brett Johansen was awarded the Blue Cup for Best First Time Mooter. The bench consisted of four 'judges': the Dean Ursula Cheer, Associate Judge Dale Lester from the High Court, Grant Tyrrell (Law Society) and Tim Clarke (a Bell Gully partner), who presided over a full-to-the-brim Moot court.

At the Māori moot a week later, Adrienne Paul (School of Law) and Dee Morgan (from Lawhub solicitors) sat on the bench. All five mooters did a fabulous job. The winner was Tamahou Thoms, who will next be representing the University of Canterbury School of Law at Te Hunga Rōia Māori o Aotearoa National Kaupapa Māori Moot Final, at the Māori Land Court on 1 July. UC Law is hosting the first Aotearoa New Zealand meeting of the Australasian Law Academic's Association (ALAA) in nearly a decade next month. The current chair (Professor John Hopkins) and Treasurer (Dr Toni Collins) of ALAA-ANZ are based at UC Law and this event forms part of the relaunch of the Association.

This month, Associate Professor Kathryn MacCallum, School of Educational Studies and Leadership, ran three workshops on disseminating the outcomes of her Learning Research Initiative research project. These events were held during the Ōtautahi Learning Days and Tech Week, delivered face to face and online. The workshops were focused on giving teachers a hands-on experience with emerging technology to create student-driven virtual reality, augmented reality and digital experiences. The event was designed to support teachers to engage with the new areas of the Digital Technology curriculum (launched last year) and explore how digital technologies could be integrated across the curriculum. Across the three events, nearly 100 teachers from throughout New Zealand attended.

The UC Entrepreneurship (UCE) team has been busy delivering the regular knowledge-sharing and community events for hatchery enterprises, clubs and students to attend, but has been particularly involved with the delivery of the recent Food, Fibre and Agritech Supernode Challenge. As lead delivery partner, UCE worked with ThincLab Canterbury who designed and delivered the Accelerator programme for 25 business founders and their teams from across New Zealand. This was a highly ambitious programme with clear commercialisation goals. In seven weeks, the Challenge was able to: grow the food, fibre and agritech sector ecosystem within Aotearoa by supporting the commercialisation of research and enterprise ventures; showcase innovation within the Canterbury region in this sector with extensive media and storytelling campaigns; and connect entrepreneurs and scientists with business mentors, sector leaders and investment opportunities. The Challenge culminated in a showcase event at the Town Hall as part of *E Tipu 2021: The Boma NZ Agri Summit* (<https://etipu.boma.global>), which attracted an estimated 500 attendees. The top 10 finalists presented

their pitches, and an awards ceremony followed. ThinkLab Canterbury is currently exploring options for continuing to support some of the businesses that will benefit from further capability development to help on their growth journey.

## **Education – Accessible, Flexible Future Focussed**

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The new Bachelor of Environmental Science (Hons) has achieved accreditation by the Environmental Institute of Australia and New Zealand (EIANZ). This is the first degree in New Zealand to be accredited with EIANZ.

Recognition of excellence in teaching is an important part of supporting academic development and innovation. The committee reviewing teaching awards was impressed with the high standard of application and has determined it will award five UC teaching awards for 2021. The awards will be presented at a special ceremony at the end of the year.

The Distributed Leadership in Teaching Programme is also continuing with an award for five new projects to be developed. That gives the Programme a total of 10 projects and one of the first teams to be awarded will be hosting an ‘unconference’ next month on Post digital Pedagogies of Care. All teams of scholars will host open forums to staff to hear more about the work being produced.

The Board of Studies Tertiary Teaching (BoS) has been reconvened, with membership representing colleges and key service units across the University. The BoS is overseeing the redevelopment of the Postgraduate Certificate of Tertiary Teaching with a view to strengthening the emphasis on blended and online learning and culturally responsive pedagogies. The primary goal of this qualification is to support the teaching quality across UC. In the coming months the team will be consulting with heads of schools, departments and lecturing staff to gain feedback on and refine curriculum changes.

The Digital Education Futures Lab (DefLab) in the School of Educational Studies and Leadership hosted a seminar for over 40 colleagues from across campus on the topic “A contemporary view of mobile and blended learning”.

## **Research – Impact on a Changing World**

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Professor Adrian McDonald (Director of Gateway Antarctica, School of Earth & Environment) has recently been appointed to the Ministry for the Environment’s Science Advisory Panel to provide strategic science advice to the Secretary of the Environment. Professor McDonald’s expertise in Antarctic and climate change science will provide an important voice as New Zealand moves forward with the Climate Change Commission’s report.

Māori alumni of the Postgraduate Certificate in Antarctic Studies – Rata Pryor Rodgers, Te Rūnanga o Ngāi Tahu and Nigel Scott, Te Rūnanga o Ngāi Tahu – contributed to a paper in *Nature Ecology and Evolution*, entitled “Transforming Antarctic management and policy with an Indigenous Māori lens”. The paper argues that an Indigenous Māori framework centring relational thinking and connectedness, humans and non-human kin, and drawing on concepts of both reciprocity and responsibility, offers transformational insight into true collective management and conservation of Antarctica.

Ross Barnett, an adjunct professor in the School of Earth and Environment, in conjunction with Chinese colleagues of the School of Medicine, Zhejiang University, Hangzhou, has written a new book on *Smoking Environments in China: Challenges for tobacco control*, to be published by

Springer, New York in August. The book fills a major gap in research into smoking and tobacco control in China. Few studies have explored the significance of geographical factors and their impact on the prevalence of smoking or policy responses to the smoking epidemic in China.

Professor Jarg Pettinga was involved in a new paper published in *Tectonophysics*, “Structure and kinematics of active faulting in the Hope-Kelly and Alpine Fault intersection zone, South Island, New Zealand”. The collaboration included the University of Melbourne and GNS Science.

Associate Professor Daniela Liggett and PhD student Natasha Gardiner led a community engagement workshop by a new Scientific Research Programme under the umbrella of the Scientific Committee on Antarctic Research (SCAR). This research programme is called Integrated Science To Inform Antarctic and Southern Ocean Conservation Planning (Ant-ICON). Daniela Liggett and Natasha Gardiner are both serving on the Science Policy Interface Expert Group.

One of the latest UC Science Radio podcast episodes featured Sarah Guy, a PhD student focusing on environmental contaminants, who looked at exposure to radioactivity through ingestion of shellfish. In another episode, Gateway Antarctica PhD student Rodrigo Gomez-Fell explained what satellite imagery can tell us about sea ice movement, sea level rise and climate change. PhD student Taylor-Jane Cox also talked about her research on the risk factors that contribute to, and the protective factors that buffer against, hopelessness and suicidal ideation in young men, especially rural men.

A late-night photo of *Mycena roseoflava* (native fungi) taken by Manaaki Whenua | Landcare Research and University of Canterbury PhD student David Hera has for the first time captured the bioluminescence of this native fungi on camera. First described 60 years ago, *Mycena roseoflava* was not known to be bioluminescent until now.

UC expects to hear the outcome of the Whitinga Fellowship funding applications by the end of June. The Ministry of Business, Innovation and Employment (MBIE) announced these prestigious two-year postdoctoral fellowships in February, with the Royal Society | Te Apārangi managing the fund. Whitinga Fellowships aim to support excellent early career researchers who have been heavily impacted by COVID-19: these researchers were most likely to have won an international postdoctoral fellowship overseas but could not travel in 2020, and for this reason were potentially going to be lost to the New Zealand research base due to a lack of employment opportunity.

The user statistics of Kā Kohika, our catalogue for the UC Library's archives and art collections held at the Macmillan Brown Library, show a large increase in views from 9,012 in May 2019 to 15,747 for May 2021, which represents an 87% overall increase so far this year. Many staff in both the Macmillan Brown Library and Access and Collections team keep developing this resource, make content available and promote it in tutorials and tours. It is very pleasing to see this work being translated into increased usage of these unique collections.

Professor Ian Wright, Deputy Vice-Chancellor Research and Innovation, and Professor Adrian McDonald, Director, Gateway Antarctica, hosted about 90 members of the Christchurch Antarctic Network – a network of civil agency researcher entities, international research programmes, businesses, logistics providers, Antarctica New Zealand, and other nation states with Antarctic research programmes hosted in Christchurch. The network is growing its profile and increasing its participation, especially with the recent funding commitment to rebuild Scott Base, which will involve significant contributions from Christchurch businesses.

Building Better Homes, Towns and Cities National Science Challenge research, led by Dr Kelly Dombroski and Manaaki Whenua researcher Dr Gradon Diprose, shows that the COVID-19 global pandemic poses significant challenges to food security, particularly in regard to food access, availability and stability. Dr Dombroski and Dr Diprose have led a team of nine food researchers, who have pre-existing relationships with community food organisations, in interviewing food rescue groups, urban farms, community organisations, supermarket management, and local and central government staff. The team used its findings to re-imagine where and how the food distribution system might change to ensure resilience and care in diverse food systems in New Zealand.

Professor John Hopkins is leading a joint International Federation of Red Cross and Red Crescent Societies and UC project developing the global disaster law database. The work is being undertaken by two current LLM students, Alex Davis and Laura Braid, with funding support from QuakeCoRE and in partnership with Università Roma Tre (Italy) and University College Cork (Ireland) (<https://disasterlaw.ifrc.org/>).

On Thursday 3 June the School of Law gathered to celebrate the many books published in the School over the last two years despite lockdowns and changes to teaching methods:

- Jeremy Finn and Debra Wilson, *Sentencing Law in New Zealand* 1st edn (Thomson Reuters 2021).
- Jeremy Finn and Debra Wilson with Simon France, *Adams on Criminal Law* student edition (2021).
- Ursula Cheer: Burrows and Cheer *Media Law in NZ* 8th edn (2021).
- Philip Joseph, *Joseph on Constitutional and Administrative Law* 5th edn (2021).
- Neil Boister, *Extradition Law in New Zealand* 1st edn (2021).
- Annick Masselot and Eugenia Caracciolo di Torella, *Caring Responsibility in EU Law and Policy: Who cares?* Routledge (2020).
- James Mehigan and Jo Cecil, *Secondary Liability and Joint Enterprise Post-Jogee* (Law Brief Publishing, 2020).
- Stephen Todd, *Tort Law in New Zealand* 3rd edn (Wolters Kluwer, 2020).
- Stephen Todd with Matt Barber, *The Laws of New Zealand, Contract* (LexisNexis, 2020).
- Karen Scott with Erika Techera, Jade Lindley, and Anastasia Teletsetsky (eds), *Research Handbook on International Environmental Law* 2nd edn (Routledge, 2021).
- Karen Scott with David L VanderZwaag (eds), *Research Handbook on Polar Law* (Edward Elgar, 2020).
- Karen Scott with Kathleen Claussen, Charles-Emmanuel Côté and Atsuko Kanehara (eds), *Changing Actors in International Law* (Brill, 2020).
- Adrian Sawyer, *The Effectiveness of Tax Reviews in New Zealand: An Evaluation and Proposal for Improvement* (Centre for Corporate and Commercial Law, 2020).
- *Canterbury Law Review*, vol 26 (2020) (eds Elizabeth Macpherson and Toni Collins) and vol 27 (2021) (guest ed Natalie Baird, Special Pacific Issue from the 2018 conference).
- *New Zealand Yearbook of International Law*, vol 16 (2018) (published in 2020) (eds Jan Jacob Bornheim and Christian Riffel).

Canterbury University Press open access titles were accessed as follows:

- *Rape Myths as Barriers to Fair Trial Process: Comparing adult rape trials with those in the Aotearoa Sexual Violence Court Pilot* (2020) brought 147 total visits to UC's research repository page this month. Top country views: New Zealand, United States, Australia, United Kingdom, Canada.
- *Ngā Kōrero a Mohi Ruatapu: The writings of Mohi Ruatapu* (CUP, 1993; OA facsimile digital edition 2020) brought 62 total visits to UC's research repository page this month. Top country views: New Zealand, United States, United Kingdom, China, Germany.
- *Ngā Kōrero a Pita Kāpiti: The teachings of Pita Kāpiti* (CUP, 1997; OA facsimile digital edition 2020) brought 36 total visits to UC's research repository page this month. Top country views: New Zealand, United States, Canada, United Kingdom, China.

## People – Nurturing Staff, Thriving Students

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Te Waka Pākākano has made its biggest step forward in terms of collaboration between Māori, Pacific and Rainbow student services, with all of these student services now reporting through a single reporting line and with their staff now relocated together in Te Ao Marama to enable synergy and consistency of pastoral care. Te Waka Pākākano student services have been heavily utilised during May. Kaiurungi and Pacific advisors report that the end of the term has exacerbated medical conditions and stress for several students. As a result, these students have needed help with processes such as withdrawal, special consideration, and the effects on StudyLink. Te Waka Pākākano has had a significant rise in the number of students requesting additional tutorial support, which its office has largely been able to arrange.

Jandals 2 in Week 3 of Term 2 was a chance for Pasifika students to reconnect. The event was well attended by students, staff and community. Support for Māori postgraduate students has increased with the first MAI workshop for 2021 providing them with advice on scholarships and how to make an effective application. Mature Pasifika students had their 'Old Skool Dinner' provided, which gave them a chance to network with other mature students and to connect on the last week of the term.

The College of Education, Health and Human Development has installed two wall-sized timeline panels on level one of the Rehua building (between rooms 103 and 102). This visual artwork captures the journey of events and critical points in time from 1870 to 2018, showcasing the evolution of the Christchurch College of Education through to its current form as the UC College of Education, Health and Human Development. As well as capturing the history of the College, the artwork is significant in acknowledging the former Dovedale Avenue and Peterborough Street campuses within the College's new Rehua home. An internal event on 10 June celebrated the UC colleagues who supported the creation of the timeline. An external event will be organised for later in the year to bring together the key stakeholders in and contributors to the College's past, present and future.

On 9 June UC hosted the "UC Women: Celebrate, Connect, Collaborate" workshop. The genesis of this event was discussions with staff about gender equity for our academic workforce. About 150 women researchers from UC, Lincoln University, Ara, AgResearch, Plant and Food, Landcare, and Environmental Science and Research attended the day-long event.

In the Association of American Publishers Awards for Professional and Scholarly Excellence (PROSE Awards), Associate Professor Daniela Liggett is a Finalist and Subject Category Award

Winner for Environmental Sciences and her contribution to Global Environment Outlook – GEO-6: Healthy Planet, Healthy People.

UC graduate and statistical geneticist Professor Bruce Weir was recently elected a Fellow of the Royal Society of London. Professor Weir graduated from UC in 1965 with a BSc (Hons) and is now a professor in the Department of Biostatistics at the University of Washington School of Public Health.

To support students with examination preparation, Te Waka Pākākano (UC Māori, the Pacific Development Team) and Te Akatoki teamed up to deliver ‘study sessions’ for Māori and Pacific students during examination preparation week. In these sessions, Te Akatoki Whare is a central place for students to study and provides breakfast and lunch each day, as well as other snacks and study packs. Several tutorials have been arranged for key courses such as LAWS101, ENGR101, CRJU101 and MATH101. The aim of the programme is to get students on campus to study during the examination preparation week, which can increase their ability to study effectively.

The Mentemia app, a tool sponsored by Sir John Kirwan to assist individuals to engage in nurturing their mental health, was launched to students and staff recently. Leading up to this formal event, a ‘soft launch’ period saw over 1,000 students downloading the app. The app is a mood tracker to help notice patterns, triggers and find opportunities to change. It also has a breathing tool to control stress and bring calm among many other features.

The work on the Microsoft Dynamics 365 platform is progressing well. The first phase, a case management system, will enable a coordinated 360-degree view of interactions with students throughout their time at UC. The Kia Angitu | Student Success Programme team is working with advising staff across the University to understand and coordinate student-facing work processes and flows in preparation for the implementation of the Dynamics 365 platform.

Team members from Contact Centre and Enrolments attended the recent Pasifika Talanoa day, and found the training very insightful. They have already worked with the Kaitiaki Kohinga Toi from Te Puna Rakahau o Macmillan Brown to source artwork to display on level one of the Matariki building. Through this work, team members are intending to construct a more visual and visible environment with Pasifika art to make Pasifika students and visitors feel welcome.

## **Internationalisation – Locally Engaged, Globally Networked**

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UC continues to nominate students under the 1,000-returnee cohort, which at the time of writing still has places available due to the very strict criteria. Our first 11 returnees under this cohort arrived in the country on ENZ charter flights from Beijing on 1 June. They received upgraded service during their flights and a special pre-arrival briefing from ENZ and Air New Zealand senior leadership (plus a stuffed kiwi!). UC supports all returning students with activities and check-ins throughout their time in Managed Isolation and Quarantine; we are also providing reintegration support and preparing a welcome-back event on campus for early August. Another 54 students received their visas. During June and early July, the bulk of these students will return in readiness for Semester 2.

As the pandemic complicates arrangements for studying overseas, an increasing number of international students studying with us have engaged an agent to assist them. For these agents, that task of placing students in New Zealand is very difficult. Late last month UC held an event for New Zealand-based agents in Auckland to acknowledge our appreciation for their work in difficult circumstances, and importantly to listen to their feedback. Concerning feedback related to pastoral

care and the plight of onshore secondary school students who are looking at a second year ‘stuck’ in New Zealand.

The School of Law supported Law students Nuha Anas and Raana Zahmatkesh to attend the International Association of Women Judges Biennial Conference (IAWJ) in Auckland. Nuha reports:

Over three days in May, myself and a few other students from UC Law were privileged enough to attend the IAWJ. This conference included speeches from female Judges and legal experts from around the world, speaking on a wide range of thought-provoking topics. The conference was opened with a Pōwhiri on the Ōrākei Marae accompanied by sessions relating to indigenous legal issues. The second and third day of the conference was held at the Cordis Hotel and featured speakers from across the globe, in person as well as over Zoom. Session topics consisted of mainly Judges speaking on immigration, trafficking, gender equality, Judges in Afghanistan facing danger at work, indigenous legal systems and much more.

In attendance in person were a few New Zealand judges from across all courts, ranging from the Chief Justice to judges in other courts such as the Matariki and Rangatahi Courts. From overseas attended by Zoom, judges from various countries attended and were not limited to female judges. Countries included: Afghanistan, Australia, India, Mexico, Pakistan, South Africa, the United Kingdom and the United States – to name a few. Also attending were representatives from all over the legal profession including students. Personally, I was able to meet a range of amazing judges, from the District Court, High Court and Supreme Court. I was also able to meet Judges from courts I was not even aware of such as Coroners Court, Drug Courts and Matariki Courts. On a whim, I addressed the room of legal professionals with permission from IAWJ President Justice Glazebrook. This was regarding a human rights matter affecting pregnant prison inmates, relayed to me by my table mate Dame Silvia Cartwright. Thanks to the support of UC Law, I was also able to attend the IAWJ Gala Dinner which the IAWJ scholarship did not cover. The dinner was a great opportunity to get to know some great people making change in the legal profession from all levels. I am happy to say I left the event with some new friends and great connections. This conference has proven to me that there is a space in the law for all of us.

## **Organisational Efficacy – of a sustainable scale by 2030**

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On 3 June, the University of Canterbury participated in Power Up | Kia Hihiko, Waitaha Canterbury Careers Advice and Study Expo, a free event featuring a series of seminars delivered by industry experts at the Christchurch Town Hall. The expo gave attendees the opportunity to talk with employers and tertiary providers and get tailored advice on career and study options to help reshape their future. Targeted at the adult market, the event helped us to promote undergraduate and postgraduate study options to future students who are seeking professional development, career advancement or career change.

The official opening ceremony for Tupuānuku was celebrated together with mana whenua Ngāi Tūāhuriri, Unilodge and construction partners on 10 June to coincide with Matariki. This first-year hall of residence remains at 99% occupancy and is continuing to attract strong interest for 2022. Accommodation tours for prospective students are in high demand with increased numbers engaging in both in-person and virtual information events, supported by a new video featuring students talking

about their experiences in our halls. The new name and identity of Arcady Hall are also being introduced during these sessions.

Work has commenced on a new contract management and quality assurance framework for all accommodation partners, including enhancement processes in preparation for the introduction of a revised Code of Practice for Pastoral Care in 2022. Consultation has now been completed for the Accommodation Plan, with an initial draft expected to be completed by late July.

The University has also started the official budget process for 2022, having completed a revised 10-year student projection. This is a key input into the first bottom-up forecast for 2022, which is to be completed on 30 June as part of the wider 2021 forecast.

Alumni hosted an event in Nelson (44 attendees) and another at Mt John in collaboration with the Astronomy Department (40 attendees). Both events were very successful with excellent feedback and engagement and led to 120 record updates in the database. Lists were also provided to the Schools of Fine Arts and Music for potential school promotional posters. The open rate for Enews was 18% to young alumni compared with 31% for older alumni; the MBA cohort had an event invitation. The 5,000+ responses to the alumni survey have been added to the database, which in turn has generated 20 new members for the Alumni Book Club and follow-up with those looking for career advice. Four engineering donors were hosted at the Crusaders match as stewardship and recognition of their support. Several new profiles of international and domestic alumni have been added to the [website](#).

On 4 June 2021, the University of Canterbury's Twitter account [[@UCNZ](#)] was officially verified. A 'blue badge' now adorns UC's main Twitter profile and each of its tweets.

Verification represents a prominently recognised brand and a blue badge on this highly visible, public-facing channel tells people that the [@UCNZ](#) account is "authentic, notable and active".

## **Environmentally Sustainable**

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UC has been re-certificated under the Toitū Envirocare 'Carbon Reduce' programme, for our 11th year under the scheme. The programme helps identify the data an organisation needs to measure greenhouse gas inventory and set goals to reduce emissions and then do an audit.

Since our baseline year in 2010, UC has reduced greenhouse gas emissions by 50%. Actions in several areas have contributed to this achievement. For example, we have reduced our use of coal, our air travel and therefore accommodation use, and our vehicle use and petrol and diesel consumption. Note that these reductions do include the impact of COVID-19 on air travel and campus closures during 2020.

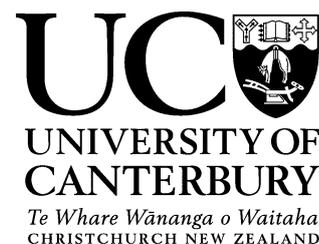
The School of Forestry, the School of Earth and Environment and Engineering Services are working together to maximise the use of any trees on campus and the Adams Arboretum for teaching and research purposes. This includes having students measuring our trees on campus to estimate how much carbon they are storing.

Professors Steven Ratuva and Bronwyn Hayward are presenting at the third online SGD Summit on 24 June, which is leading up to the main event on campus at the beginning of September.

The UC Sustainability Office submitted to Christchurch City Council on its draft Climate Change Strategy, recommending a bolder programme with clearer timeframes and measures. The submission also included an offer to support the Council's work with expertise from the University.

An all-staff Air Travel Survey will be distributed in July to understand how to better balance the need for travel with the need to reduce our carbon footprint, in the context of reduced travel during the COVID-19 pandemic.

# Memorandum/Pukapuka



<b>To:</b>	<b>Ki:</b>	University Council
<b>From:</b>	<b>Nā:</b>	Professor Cheryl de la Rey, Vice-Chancellor
<b>Date:</b>	<b>Rā:</b>	22 June 2021
<b>Subject:</b>	<b>Kaupapa:</b>	<b>Academic Board report</b>

## Recommendations:

- *that the Council approves the proposal for a minor in Aeronautical Engineering for the BE(Hons) in Mechanical Engineering and subsequent submission to CUAP for their approval*
- *that the Council notes the report of the Academic Board*

## Purpose:

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

## Executive Summary:

The Board discussed the regulation changes and CUAP proposal and agreed academic year dates for 2023.

## Attachments:

- CUAP proposal
- Academic Board report

Full papers commence overleaf.

## Paper Progress:

<b>To:</b>	<b>Date:</b>	<b>Decision:</b>
PFRC/RAC	N/A	
SLT	N/A	
FPRC/ARC	N/A	
COUNCIL	June 2021	Pending



## Minor in Aerospace Engineering

[academic-regulations-engineering-BEHons.pdf \(canterbury.ac.nz\)](#)

### Template 1.

(CUAP criterion 6.1.3 Minor New)

#### 3. Executive summary

The purpose of this proposal is to create a Minor in Aerospace Engineering as part of the BE(Hons) Mechanical Engineering degree. A new Minor in Aerospace Engineering will provide aspiring students an enhanced pathway to industry by specialisation. Market research, commissioned by the University of Canterbury in 2020, identified a gap in the undergraduate education market. This Minor would provide a pathway for aspiring students into the aerospace. The number of students this Minor will attract to the University, that would otherwise not have come to U,C is estimated to be at least 20 in the first year the Minor is offered. Filling this gap is in agreement with the key themes in the UC Strategic Vision of Future Focused Education, UC as an Engaged University, Impact in the Changing World and Thriving Students. At present, no other New Zealand university offers a Minor in Aerospace Engineering as part of an undergraduate engineering degree. The proposed minor in Aerospace engineering will prepare students for entry to industry or for further study at the postgraduate level, while still providing the core curriculum and marketability of the traditional BE (Honours) Mechanical Engineering degree.

### Justification

A new Minor in Aerospace Engineering will provide aspiring students an enhanced pathway to industry by specialisation. New Zealand's aerospace sector contributed \$1.69 billion to the economy in 2019 and employed 12,000 people, according to a recent government study<sup>1</sup> and has been identified as an area of growth for the city of Christchurch by ChristchurchNZ as part of its supernode initiative (<https://www.supernode.co.nz/aerospace-future-transport>). There is little doubt that the sector is growing with start-up companies such as Dawn Aerospace, Kea Aerospace and Wisk Aero. Rocket Lab continues to excel in its niche, along with more traditional long-established aerospace companies/organizations such as the Pacific Aerospace, RNZAF and Air New Zealand. The level of interest and passion for aerospace from students is evident by their formation of a student Aerospace club, at last count with over 200 members.<sup>2</sup> Market research<sup>3</sup> commissioned by the University of Canterbury in 2020 identified a gap in the undergraduate education market to provide a pathway for aspiring students to a career in the aerospace sector.

Aerospace Engineering is a sub-discipline of Mechanical Engineering. For example, a comparison with the first two years of study at UNSW for example<sup>4</sup> shows significant overlap between Mechanical Engineering and Aerospace Engineering, with subjects such as Fluid Mechanics, Thermodynamics, Solid Mechanics, Materials Science and Design. Aerospace engineers need this knowledge and skill set to design, construct and operate aircraft, aerospace vehicles and propulsion systems.

This will be the second minor introduced within the UC Mechanical Engineering program, after the new Biomedical Engineering minor. Consistent with that, we plan for the first differentiation from the main stream of the Mechanical Engineering to be with ENME 361 Aerospace Engineering Design Principles (new course), which will be compulsory. In addition, ENME 408 is a double-weighted Final Year Project that will have a strong

<sup>1</sup> <https://www.beehive.govt.nz/release/nz-space-economy-worth-169-billion>

<sup>2</sup> <https://www.ucaerospace.com/>

<sup>3</sup> Aerospace Engineering: researchfirst.co.nz Market Opportunity Research, April 2020.

<sup>4</sup> <https://www.handbook.unsw.edu.au/undergraduate/specialisations/2021/AEROAH>

aerospace theme, and is also compulsory. In the final year of the BE(Hons) degree, there already exist four Aerospace-related elective courses of which the students must select two: ENGR 401 Computational Fluid Dynamics, ENME 404 Aerodynamics and Ground Vehicle Dynamics, ENME 460 Aerospace Propulsion and ENME 486 Aerospace Structures (special topic 2021). We anticipate that further elective courses will become available as resources and demand evolve. However, at this time only 1 new course is necessary to introduce the minor at 75 points.

At present, no other New Zealand university offers a minor in Aerospace Engineering as part of an undergraduate engineering degree. The University of Auckland has proposed a Master of Aerospace Engineering (MAerospaceEng) and related PG certificate and diploma. The proposed minor in Aerospace engineering will prepare students for entry to industry or for further study at the postgraduate level, while still providing the core curriculum and marketability of the traditional BE (Hons) degree.

## Programme Overview

### Mechanical Engineering with Aerospace Engineering Minor:

#### **Entry:**

#### 3<sup>rd</sup> Year Engineering

Students take ENME 361 Aerospace Design Principles replacing the 3<sup>rd</sup> year 2<sup>nd</sup> semester design course ENME 311.

#### 4<sup>th</sup> Year Engineering

Students take double-weighted ENME 408 Engineering Honours R&D Project with Aerospace Engineering focus.

Plus at least two elective courses from the following:

- ENGR 401 Computational Fluid Dynamics
- ENME 404 Aerodynamics
- ENME 460 Aerospace Propulsion
- ENME 486 Aerospace Structures (currently a Special Topic)

Among the four final year electives, two elective must be from list of Aerospace Engineering topics; however, students may also take independent study/research experience to fulfil this requirement, subject to Director of Studies or Head of Department approval. Please note, ENME 486 is to become a full elective, right now it is a special topic.

## BE(Hons) Mechanical Engineering With Minor in Aerospace Engineering

### 1<sup>st</sup> Year Engineering

S1	ENGR101 Foundations of Engineering	EMTH118 Engineering Mathematics 1A	PHYS101 Engineering Physics A	COSC131 Introduction to Programming for Engineers
S2	ENGR102 Engineering Mechanics	EMTH119 Engineering Mathematics 1B	CHEM111 Chemical Principles and Processes	ELECTIVE
ENGR100 Academic Writing Assessment				

### 2<sup>nd</sup> Year Engineering

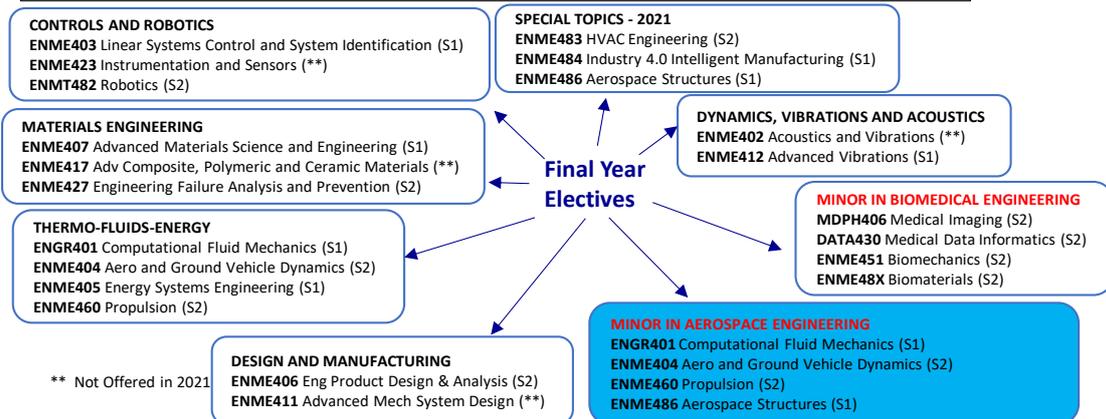
S1	ENME201 Design Communication	ENME202 Stress, Strain and Deformation in Machine Elements	ENME215 Engineering Thermodynamics	EMTH210 Engineering Mathematics 2
S2	ENME203 Dynamics and Vibrations	ENME207 Materials Science and Engineering	ENME221 Engineering Design and Manufacture	EMTH271 Mathematical Modelling and Computation 2
ENME199 Workshop Training Course for Mechanical and Mechatronics Engineering ENEL198 Electrical Workshop Training				

### 3<sup>rd</sup> Year Engineering

S1	ENME301 Engineering Design and Production Quality	ENME303 Controls and Vibrations	ENME307 Performance of Engineering Materials	ENME314 Fluid Mechanics
S2	ENME302 Computational and Applied Mechanical Analysis	ENME361 (in lieu of ENME311) Aerospace Design Principles	ENME315 Heat Transfer	ENME313 Electro Tech for Mechanical Engineers

### 4<sup>th</sup> Year Engineering

S1	ENME 408 Honours R&D Project with Aerospace Topic	ENME 401 Mechanical Systems Design	Aerospace Elective from list below (either semester)	ELECTIVE
S2		ENME 418 Engineering Management and Professional Practice for Mechanical Engineers	Aerospace Elective from list below (either semester)	ELECTIVE



*Figure 1 Four Year Mechanical Engineering with Aerospace Engineering Minor*

Practical and professional work experiences for students are being cultivated within the existing Aerospace industry in New Zealand with the Minor coordinator responsible for maintaining a

database of companies and contacts in this field that students can access when seeking out opportunities for work experience.

The Dept of Mechanical Engineering is working in parallel to develop more final year projects in the Aerospace engineering field; noting that some existing projects are already Aerospace-related and would fulfil the requirements for the Minor.

## Prescriptions for courses

### **ENME 361 Aerospace Design & Production Management** 15 points

This course covers more in-depth engineering design methods than ENME 301 and covers procedures that are not included in the engineering science subjects. The subject matter has an Aerospace design focus plus production management concepts relevant to aerospace and will cover:

Aerospace conceptual design and step-by-step design development; cost and weight estimation; configuration and layout; basic aircraft performance; aircraft subsystems; lifecycle topics, e.g. environmental issues (pollution, energy, etc.); safety and reliability certification requirements, risk analysis and management. Overall students are brought to a level where they can undertake a substantial Aerospace engineering design problem in a methodical manner, and can produce a professional quality design report. (*Substitutes for ENME 311 in BE(Hons) Mechanical Engineering*)

## Proposed new regulations

2021 UC Calendar page number 415:

### **5. Subjects**

- (a) This qualification may be awarded in the following disciplines: Chemical and Process Engineering, Civil Engineering, Computer Engineering, Electrical and Electronic Engineering, Forest Engineering, Mechanical Engineering, Mechatronics Engineering, Natural Resources Engineering, and Software Engineering.
- (b) The degree may also be completed with a minor in certain sub-disciplines.
- (c) Any given course may contribute to only one major or minor.

2021 UC Calendar page number 422-423:

### **36. Third Year**

- (1) ENME 301 Engineering Design and Production Quality
- (2) ENME 302 Computational and Applied Mechanical Analysis
- (3) ENME 303 Controls and Vibrations
- (4) ENME 307 Performance of Engineering Materials
- (5) ENME 313 Electro Technology for Mechanical Engineers
- (6) ENME 314 Fluid Mechanics
- (7) ENME 315 Heat Transfer
- (8) Either
  - (a) ENME 311 Engineering Design and Production Management, or
  - (b) ENME 351 Biomedical Design and Production Management, or
  - (c) ENME 361 Aerospace Design and Production Management

### **37. Fourth Year**

- (1) ENME 408 Honours Research and Development Project
- (2) ENME 401 Mechanical Systems Design

(3) ENME 418 Engineering Management and Professional Practice for Mechanical Engineers

(4) Sufficient courses selected from:

- (a) ENGR 401 Computational Fluid Dynamics
- (b) ENME 402 Acoustics and Vibrations
- (c) ENME 403 Linear Systems Control and System Identification
- (d) ENME 404 Aerodynamics and Ground Vehicle Dynamics
- (e) ENME 405 Energy Systems Engineering
- (f) ENME 406 Engineering Product Design and Analysis
- (g) ENME 407 Advanced Materials Science and Engineering
- (h) ENME 409 Physiological Modelling
- (i) ENME 411 Advanced Mechanical System Design
- (j) ENME 412 Advanced Vibrations
- (k) ENME 417 Advanced Composite, Polymeric and Ceramic Materials
- (l) ENME 423 Instrumentation and Sensors
- (m) ENME 460 Aerospace Propulsion
- (n) ENME 480 Independent Course of Study
- (o) ENME 481 Special Topic – Materials That Shape Civilization
- (p) ENME 484 Special Topic – Industry 4.0 Intelligent Manufacturing
- (q) ENME 486 Special Topic – Aerospace Structures
- (r) MDPH 401 Anatomy and Physiology
- (s) ENMT 482 Robotics
- (t) ENME 451 Biomechanics
- (u) Any 15 point 400-level option approved by the Director of Studies

**38. Minor in Aerospace Engineering**

- (1) ENME 361 Aerospace Design & Production Management
- (2) ENME 408 Engineering Honours Research & Development Project
- (3) Plus 30 points from the following:
  - (a) ENGR 401 Computational Fluid Dynamics
  - (b) ENME 404 Aerodynamics and Ground Vehicle Dynamics
  - (c) ENME 460 Aerospace Propulsion
  - (d) ENME 486 Aerospace Structures
  - (e) Any 15 point 400 level approved by the Director of Studies

*Note: ENME 408 Honours Research and Development Project must be taken with an approved aerospace engineering focus as approved by the Director of Studies.*

**39. Minor in Biomedical Engineering**

- (1) ENME 351 Biomedical Design & Production Management
- (2) ENME 401 Mechanical Systems Design
- (3) ENME 408 Honours Research & Development Project
- (4) ENME 418 Engineering Management and Professional Practice for Mechanical Engineers
- (5) MDPH 401 Anatomy and Physiology
- (6) Plus 15 points of the following:
  - (a) DATA 430 Medical Data Informatics
  - (b) ENME 409 Physiological Simulation
  - (c) ENME 451 Biomechanics
  - (d) MDPH 406 Medical Imaging

*Note: ENME 401 Mechanical Systems Design and ENME 408 Honours Research and Development Project must be taken with an approved biomedical engineering focus as approved by the Director of Studies.*

## **TE POARI AKORANGA | ACADEMIC BOARD**

### **REPORT TO THE COUNCIL**

### **FROM A MEETING OF THE ACADEMIC BOARD**

**HELD ON FRIDAY 11 JUNE 2021**

#### **BUSINESS FROM THE CHAIR**

The Chair:

- thanked staff for their work which had led to the University's rise of 12 places in the QS global rankings. She asked that this message be conveyed to colleagues who were not at the meeting.
- acknowledged staff who had arranged recent events on campus involving high school students. This was an important part of recruitment of future students.
- noted that she had attended the Women in Research symposium earlier in the week which had been well-attended and generated a positive buzz and it was hoped that a number of research projects would be started as a result.
- had attended the opening of Tupuānuku and had spoken to the Chair of UniLodge from Australia who had been impressed by the vibrancy of the UC campus when compared to Australian universities at a time when we continue to deal with the Covid risks.

#### **REPORT FROM THE VICE-CHANCELLOR**

The Vice-Chancellor took her report as read, noting that at the request of Council, the report was now shorter and that the format would continue to evolve. She was giving further thought to how best to communicate to staff. One possibility for Board members was to hold an annual workshop to focus on academic matters, which might for example have presentation from the portfolios of the Deputy Vice-Chancellors Academic and Research. She had seen evidence of some excellent innovative practice in her visits around the university and there did not seem an easy platform for these to be shared more widely so another possibility was that Heads of School could make interactive presentations to the Board. A number of Organisational Values workshops have been well attended, but she encouraged any staff who had not yet attended to participate.

The Vice-Chancellor said that as it was approaching mid-year, the budget was being re-evaluated, but that the University was still on track to produce a surplus. The latest information from the Ministry of Education was indicating that the border was unlikely to be open for international students for Semester 1 2022, but that Semester 2 was more likely. The Vice-Chancellor anticipated that UC would sustain its domestic student growth in 2022. The Minister had indicated that it would be timely for universities to re-set their approach to international education to concentrate on high quality and high value over volume so she was working with the Planning and Finance teams to develop long term models which would be presented to a Council meeting later in the month.

#### **REGULATION CHANGES FOR THE COLLEGE OF BUSINESS AND LAW**

The Dean of Academic Governance, Dr James, introduced the changes which he said were being considered to accommodate the dissolution of the College as agreed at a previous Council meeting

and discussions at the Board. He noted that the dissolution was due to take effect from 1 July. He said that a change proposal had been circulated to relevant staff and the final decision had been released earlier in the week. The intention of the changes was to allow for three academic divisions: Colleges, Schools and Faculties. He outlined a number of minor editorial changes which had been identified since the papers had been circulated which would be addressed.

Following discussions, and subject to minor editorial amendments, the Board endorsed the proposed changes to the University Regulations, Academic Administration Regulations and the Conferment of Qualification Regulations.