



Local Chapter Activity Report

at the 9th UNISEC–Global Meeting



Jim Hefkey
New Zealand POC



UNISEC-Global Activities in 2023



UNISEC-NZ formed in November 2023



Initial Member Universities:

The University of Canterbury, South Island NZ

The University of Auckland, North Island NZ

Students: determined after summer break

Staff:

Dr Sarah Kessans, University of Canterbury

Jim Hefkey, University of Auckland



History of Local Chapter Activities

University of Auckland

APSS Became Active in 2016

- *Participated in CLTP6 in 2015*
- *Attended UNISEC-Global Meeting in 2017, 2019 and 2022*



- *Held 6 MIC style local competitions*

- *Held 6 P-Sat Competition and Launch events*



History of Local Chapter Activities

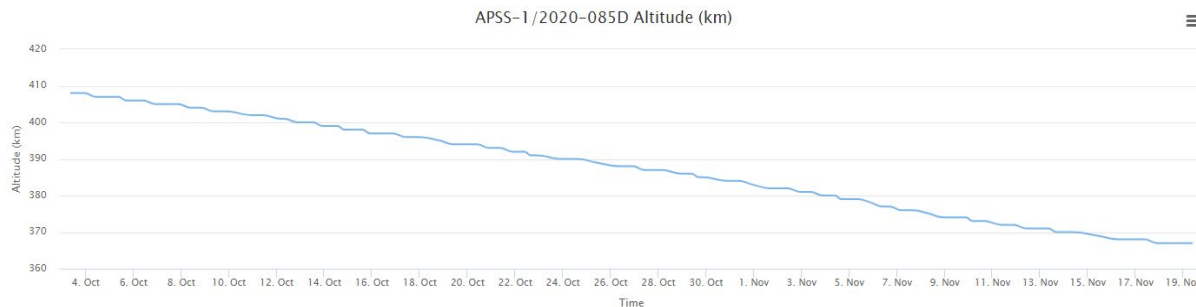
University of Auckland

November 20, 2020

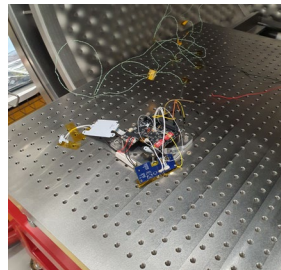
APSS-1 became the first New Zealand satellite with a scientific payload to launch into space



From an initial sun synchronous orbit in excess of 500km, APSS-1 will soon de-orbit helped by recent solar activity.



<https://orbiting-now.com/satellite/46932/2020-085d/2020-085d/>



APSS-2 currently undergoing TVAC payload testing. Anticipated launch Q1 2025

History of Local Chapter Activities

University of Canterbury

UC Aerospace rocketry team won the 30K COTS competition and placed 3rd overall in Spaceport America Cup in 2023. They placed 8th overall in 2022.



UC research due to fly to ISS on Axiom-3 mission January 2024

Dr Sarah Kessans discusses the value of microgravity protein crystallisation with NASA Administrator Bill Nelson, who was one of the first to perform these experiments in space, at the University of Canterbury in March. (Photo credit: U.S. Embassy photographer Ola Thorsen).



Plan for 2024 and beyond

Introduce MIC for national competition between member universities.

Promote UNISEC-NZ to other universities in NZ

Host UNISEC-Global Meeting #10 

Thank you very much / Nga Mihi Nui