

# HY HUf] D \Ub[UD fYfYpMechanical Engineering Department



Friday, 3 May 2024 3 pm E16 (R t Bldg)

# Investigating the efficacy of subsurface drip irrigation in Canterbury

### **Gussy Collett**

Master Student, Department of Mechanical Engineering, University of Canterbury

#### Abstract:

Subsurface drip irrigation is a high-precision, high-efficiency irrigation system. In contrast to spray irrigation typically used in Canterbury agriculture, this technology offers advantages such as avoiding wind and evaporation losses, preventing runoff and excessive water seepage, and reducing crop disease. It can also be used for precise nutrient application, which can mitigate the environmental risks associated with nutrient runoff and leaching. However, strong evidence of the financial efficacy of subsurface drip irrigation is needed for farmers to invest in this technology. This presentation covers the hard-won learnings of a mechanical engineer installing and running a comparative irrigation field trial for arable crops.



# **P** ruru - a cultural journey for young Chinese New Zealanders to the Hokianga and Waitangi

## **Emily Young**

PhD Candidate, Department of Mechanical Engineering, University of Canterbury

Abstract:

weekend with the New Zealand Chinese Association. The motivation and

and Chinese, forged due to the sinking of the SS Ventnor off the coast of the Hokianga in 1902. I will discuss highlights from the journey, including travelling to Waitangi to attend Waitangi Day commemorations, and conclude with my

