

Members attending are welcome to wear masks.

U3A lectures are for members only.

We regret we're unable to welcome visitors to our lectures – to do so would be unfair to those on the waiting list.

5 May **What do net-zero, the green energy transition and the tooth fairy have in common?** **Mike Joy**

The net energy of fossil energy is declining fast as is the mineral and metal energy return on energy invested. These two act in tandem meaning exponentially more of the planet must be destroyed just to maintain our current consumption levels let alone the other gadgets added to modern living. The process of trying to transition to “clean” energy will mean more and more mining and fossil fuel use pushing teetering planetary boundaries over the edge.

12 May **What caused the eruption that sent shock-waves around the world?** **Marco Brenna**

The catastrophic eruption of the Hunga volcano (Tonga) on 15th January 2022 took the world by surprise as it followed a month-long mild eruptive period. I will introduce the geological history of the Hunga volcano from an expedition there in 2015. I will then review the results of petrological and chemical analyses of the 2022 eruption products and present some hypotheses on the potential drivers of the most explosive eruption of the 21st century.

19 May **How much ice is (still) out there?** **Wolfgang Rack**

Understanding the mass balance of Antarctic ice, both land ice and sea ice, is the important task of polar glaciology. Relatively speaking, small differences between large annual gains and losses determine the overall balance, which makes its measurement a difficult undertaking. It can only be solved with a variety of modern technologies. This presentation will provide an overview of these challenges and its global relevance.

2025 PROGRAMME DATES:

SERIES 1: Mar 3 10, 17

SERIES 2: Apr 7, 14

SERIES 3: May 5, 12, 19

SERIES 4: Jun 9, 16, 23

SERIES 5: Jul 7, 14, 21

SERIES 6: Aug 4, 11, 18

SERIES 7: Sep 1, 8, 15

SERIES 8: Oct 6, 13, 20

SERIES 9: Nov 3, 10, 17

Meetings

**are held at The West End Hall,
35a Maltby Avenue, Timaru.**

Lectures may start a few minutes before
1.30 pm and conclude about 2.30 pm,
with questions to follow.

Coffee/tea will be provided
after the meeting.

**As a courtesy to our speakers
and other members, please**

be seated by 1.20 pm. wear your name tag.
turn your cell phone off. no talking during lectures.
wait until the end of the lecture before asking questions.
stand when asking a question, and wait for the microphone.
*Lectures may start a few minutes before 1.30 pm and
conclude about 2.30 pm with questions to follow.*

OFFICE BEARERS AND COMMITTEE

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PLEASE NOTE:
**Series 3 begins Monday
5 May 2025
at The West End Hall.**