

4 QUALITY EDUCATION



8 DECENT WORK AND ECONOMIC GROWTH



11 SUSTAINABLE CITIES AND COMMUNITIES



University of  
**Kent**

# Sustainability in Maths

## Sustainability lecture series

### School of Mathematics, Statistics & Actuarial Sciences

The role that mathematics plays is essential: every phenomena on Earth is subject to mathematics, which is the only language we can use to describe them. Moreover, mankind must factor mathematics into any approach it takes in addressing said challenges. Climate change, protecting biodiversity, tackling pollution, controlling epidemics, ocean sustainability, averting natural disasters (volcanoes, earthquakes, tsunamis), and manmade disasters (fires) are all subject to equations. In short, the sustainability of planet Earth depends on mathematical science.

In 2022 SMASS launched its Sustainability series of lectures aimed at exploring the various ways in which the disciplines of maths are being used to understand and to address global challenges.

The series began with a talk from Louise Pryor, President of the Institute and Faculty of Actuaries (IFoA), titled "Can Actuaries save the world?"

The world has begun to unite in an attempt to prevent the climate emergency turning into climate catastrophe.....

Come and listen to how the actuarial profession is embracing this challenge.

*Sustainability series event flyer*

Subsequent talks in the series:

Dr Thomas Winyard, former SMSAS Lecturer in Mathematics, "Solitons: How studying Tsunamis lead to levitation".

Dr Eleni Matechou, SMSAS Senior Lecturer in Statistics "Environmental, ingested, ancient: how DNA-based surveys are changing the way we monitor biodiversity".

Dr Melania Nica, former SMSAS Senior Lecturer in Actuarial Science "Catastrophe Insurance"

