

# Activities

## Long-term storage of carbon in peat

You will learn more about peat cores using samples that have been collected from Kirkconnel Flow. Soils play a vital role in long-term storage of carbon. Learn about how peat accumulates, the differences between peat at different depths and much more.

## The active role of soils in the carbon cycle

Soils aren't only a long-term store of carbon; they also play an active role in the cycling of carbon between reservoirs. In this activity, investigate how human actions might influence soil carbon storage and how climate change could alter the way soils function.

## Tree Planting – 12pm and 2pm

In this activity you will help staff and students from the University to plant trees in the Crichton grounds. You will also learn about the importance of planting trees and how different species are positioned during the activity.

## Creating a Bestiary

There are a wide range of flora (plants) and fauna (animals) present in the Crichton University Campus. You will be led through our Teaching Garden and beyond identifying, photographing and drawing the wildlife to create a bestiary (encyclopedia) of wildlife at the Crichton. All the data collected on that day will be curated into a bestiary at the Glasgow School of Art.

## Exploring alternative energy sources

Burning fossil fuels for energy produces high amount of carbon dioxide, a greenhouse gas that intensifies climate change. In this activity you will explore how easy it is to make hydrogen, learn why it is a cleaner alternative to fossil fuels and consider how hydrogen or other alternative fuel sources can be used to power our modern way of life.

## D&G College Green Energy Centre

D&G College are dedicated to providing the training required to aid a green recovery through their Green Skills Academy. Come along to the College's Green Energy Centre to see how the College provides training on new and emerging technologies such as EV charging, Wind Turbines and Hydrogen Cells. You are welcome to take a look at the innovative facilities the College has available within the Green Skills Hub.

# Activities

## Greenhouse gas (GHG) emission reduction: Your choice?

Help our team to understand what you feel are the top priorities to reduce Greenhouse Gas emissions by answering two questions.

## Ecosystem Explorers

Discover the hidden world of insects and their homes in all the green spaces around you. Climate change and other human activities are threatening the homes of our insects and other wildlife. Through exploring the needs of these small creatures, we can learn how to map and protect their environment.

## Picturing Polar Bears: Art, Creativity, Climate Change

This activity explores the potential role of art, creativity, and environmental humanities in conversations about climate change. During this event you will have an opportunity to draw your own polar bear and the option to share on social media #picturingpolarbears

## What can be done in Dumfries and Galloway to help mitigate climate change?

Once you have explored the different activities available throughout the event, give us your ideas for how changes could be made locally to combat climate change.

## Puppet Show: SeedHeart by Indigo Moon Theatre – 11am / 1pm / 3pm

SeedHeart tells the important tale of human impact on our once green planet, with interactive chaos in the laboratory along the way! Watch as the story unfolds (literally) from a single suitcase and follow Grey's journey to a better future with magical pop-ups, puppetry and interactive scenes.

## Story Weaving performances by Moat Brae 10.30am, 12.30pm and 2.30pm

Performances by Moat Brae story weavers. Moat Brae is Scotland's National Centre for Children's Literature and Storytelling, right here in Dumfries.



# COP26

## Climate Action in South Scotland

Saturday  
6 November 2021  
10am - 4pm

**FREE ENTRY**

Look out for our student ambassadors in blue t-shirts with pink lanyards and badges - ask for help!

University of Glasgow Dumfries Campus,  
Rutherford McCowan Building, Crichton  
University Campus, Dumfries, DG1 4ZL

# Talks & Presentations

R127	
10:00 - 11:15	<b>Professor Carol Hill (Head of School, University of Glasgow)</b> Welcome
	<b>Green Politics Round Table</b> With academics, politicians, and activists
11:15-11:35	<b>BREAK</b>
11:35 - 13:00	<b>Dr Benjamin Franks (University of Glasgow)</b> Capitalism and Environmental Values: The search for rapprochement
	<b>Dr Chris Leakey (Marine Alliance for Science and Technology for Scotland)</b> The Science We Need for the Ocean (and Climate) We Want
	<b>Toby McCartney (MacRebur®)</b>
	<b>Professor Fabrice Renaud (University of Glasgow)</b> Scientific evidence for ecosystem-based disaster risk reduction
	<b>Dr Emilie Cremin (University of Glasgow)</b> River deltas at risk
	<b>Christopher Masafu (University of Glasgow)</b> Flood hazard mapping using a novel artificial intelligence approach
	<b>Khaled Alghafli (University of Glasgow)</b> Groundwater estimation from the space
13:00 - 13:30	<b>BREAK</b>
13:30 - 15:00	<b>Professor Cecilia Tortajada (University of Glasgow)</b> Reused water for potable purposes
	<b>Colin Ferguson (National Farmers Union)</b> Farming for a better climate
	<b>Graham Taylor (Crafty Distillery)</b>
	<b>Professor Patrizia Riganti (University of Glasgow)</b> Circular Tourism as an ecosystem
	<b>Sam Gallacher (National Trust for Scotland)</b> Threave Landscape Restoration Project
15:00 - 15:15	<b>BREAK</b>
15:15 - 16:00	<b>Panel Discussion</b> With a range of speakers from throughout the day
	<b>Professor Carol Hill (Head of School, University of Glasgow)</b> Closing remarks and Prize Winners

R232	
10:00 - 11:20	<b>Dr Erwan Saouter (Saouter Consulting)</b> On the Road to a Resilient, Zero-Carbon Future, We Must Do It Right!
	<b>Dr Lizanne Henderson (University of Glasgow)</b> Picturing Polar Bears: Artistic Responses to Climate Change
11:20-11:35	<b>BREAK</b>
11:35 - 13:00	<b>Professor Virginia Murray (UK Health Security Agency)</b> "Is academic research useful, usable and used" in the context of climate change
	<b>Dr Tony Robertson &amp; Dr Sandra Engstrom (University of Stirling)</b> (NCR Funded) Building a Movement: Community Development and Community Resilience in Response to Extreme Events
12:05 - 12:20	<b>BREAK</b>
12:20 - 13:00	<b>Dr Leslie Mabon (Open University)</b> (NCR Funded) 3D virtual reality flooding model
	<b>Carol Raeburn (Director of the Scottish Flood Forum)</b> Experiences of climate related flooding
	<b>Martin Ogilvie (Dumfries &amp; Galloway Council)</b> Reflections of a practitioner and life as an emergency response manager in Dumfries & Galloway
	<b>Lee Shannon (University of Glasgow)</b> Indispensable - a pilot project exploring mental health resilience from the perspective of essential services workers.
	<b>BREAK</b>
13:00 - 13:30	<b>Heather Hall (The Usual Place)</b> The word is not enough
	<b>Dr Sandy Whitelaw &amp; Anthony Bell (University of Glasgow)</b> Fostering Resilience in Young People with Additional Support Needs Using a 'Settings' Approach
	<b>Dr David Borthwick (University of Glasgow) &amp; Kate Foster (Artist)</b> Earth Words - Conversation and creating a legacy piece

## COVID Guidance

In accordance with Scottish Government guidance, and policies developed by the University of Glasgow, we will be continuing to implement a 1-metre distancing policy for this event. Each room will have a maximum capacity based on 1-metre distancing and will be monitored throughout the event. There will be sanitising stations throughout the building and masks must be worn at all times when indoors, apart from when eating/drinking.

R236	
11:20-11:35	<b>BREAK</b>
11:35 - 13:00	<b>Dr David Lundie (University of Glasgow)</b> The Minors' Strike: The politics and ethics of school climate strikes
	<b>Jeremy Sainsbury (Natural Power)</b> What can Dumfries and Galloway's natural capital provide the Scottish Government and UK in terms of carbon sequestration or reduction by 2030?
	<b>Dr Mohammad Aminur Rahman Shah (University of Glasgow)</b> Global mapping of human adaptation to climate change
	<b>McNabb Laurie (Galloway Glens Team Leader)</b> How can our amazing Natural & Cultural Heritage help Dumfries & Galloway become a Net Zero Carbon Region?
	<b>Dr Michelle Bloor (University of Glasgow)</b> The EU Green Deal's ambition for a toxic-free environment: Filling the gap for science-based policymaking
13:00 - 13:30	<b>BREAK</b>
13:30 - 15:00	<b>Dumfries and Galloway Education</b> Introduction to Schools and work taking place in Dumfries & Galloway
	<b>Wallace Hall Academy</b> Whapples Community Orchard
	<b>Annan Academy</b> Bee Keeping / Apiary Project
	<b>Beattock Primary School / ELC</b> Eco School Green Flag Activity
	<b>Gretna Primary School</b> UNCRC

## What's On?

**Panels & Academic Talks**  
R127, R232, R236

**Business Partnerships**  
R245

**Experiments & Demonstrations**  
Marquee/Teaching Garden

**Moat Brae Storytelling**  
R149 10.30am,  
12.30pm + 2.30pm

**Seed Heart Puppet Show**  
R151 11am, 1pm + 3pm  
**Schools & Academic Poster Comp.** R204 & R206

**Hunterian Exhibit**  
Ground & 1st Floor -  
Hunterian in the South

Please note that while we endeavour to run all events as advertised, all are subject to change or cancellation if deemed necessary by University Staff.