

Climate Related Events at British Science Festival 2019

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Climate rebellion

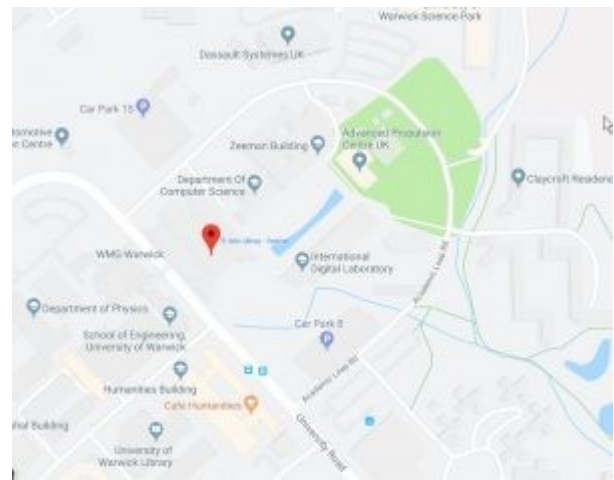
Date(s) - 10/09/2019
13:00 - 14:00

Join this conversation between Serena Bashal from the UK Youth Climate Coalition and Ross Hatton, a renewable energy researcher from the University of Warwick, as they look at the rise in youth-led climate activism and what science is doing to tackle the challenge we face.

This event is part of the British Science Festival to be held at Warwick University and Coventry 10 – 13 September.

Venue: IMC 02, International Manufacturing Centre, University of Warwick, Coventry CV4 7HP

Book your tickets at britishsciencefestival.org/event/climate-rebellion/



Driverless Pod Demonstration

Date(s) - 10/09/2019

11:00 - 18:00

Aurrigo's Pod Zero driverless pods are set to change the way we transport people efficiently on the last stage of their journey from transport hubs to and from a wide range of destinations.

You order a pod on your mobile via the app. Four people can ride. The vehicles are monitored in the Aurrigo control room to ensure the safety of passengers and other road users.



Venue: You can try out a Pod Zero during the British Science Festival at the University of Warwick. Visit the Dome from 11:00 to 18:00 on 10 September 2019.

It's electrifying!

11:00 - 12:00 11/09/2019

By 2030, 75% of vehicles on UK roads could be run by electricity. Drastic changes are needed to solve the carbon dioxide emissions crisis in transport.

David Greenwood, leader of the Advanced Propulsion Systems team at the University of Warwick, is paving the way developing systems for electric vehicles, but there are currently critical barriers stopping the industry from really taking off. In this talk, find out if the need for electric vehicles is so pressing, why we are still waiting – and what needs to be done about it?

Venue: IDL 03, University of Warwick, International Digital Laboratory, University of Warwick Campus CV4 7HP

Book tickets at britishsciencefestival.org/event/its-electrifying/

Wasteworld

15:00 - 16:00 11/09/2019

Ever wondered where your unrecycled rubbish goes? As new evidence of plastic waste in the ocean surfaces and unrecyclable electronics increases, the need to solve the global trash pandemic intensifies.

While these pollutants move through the environment, **Simon Dixon** (Birmingham University), **Simon George** (Keele University) and **Deirdre McKay** (Keele University) discuss how the solution may lie in chemistry.

Venue: Zeeman MS 02, Zeeman, University of Warwick CV4 7HP

Book your tickets at britishsciencefestival.org/event/wasteworld/

The future of heat

16:00 - 17:00 11/09/2019

We rely on heating at home and in the workplace; and yet, it is the largest source of our greenhouse gas emissions.

Whilst we are seeing more renewable energy on the grid, and cleaner cars on our roads, heat remains one of the UK's biggest decarbonisation challenges, and one that is all too often overlooked.

How are we planning on solving this grand challenge facing society and what low-carbon measures are already in place?

Event supported by Cadent.

Venue: MS 01, Zeeman Building, University of Warwick CV4 7HP

Book tickets at britishsciencefestival.org/event/the-future-of-heat/

Farming for the future

11:00 - 12:00 Date(s) - 12/09/2019

Owning livestock such as cows, chickens, yaks and llamas, can reduce poverty in rural families and grow economies in low- and middle-income countries.

Appolinaire Djikeng, who leads the Centre for Tropical Livestock Genetics & Health at the University of Edinburgh, discloses how livestock farming impacts people, the planet and the processes required to achieve global sustainability.

With livestock farming under fire for its damaging effects on the environment, how can we improve processes so small holder farmers are part of the solution and not the problem.

Venue: IDL 03, IDL, University of Warwick Campus CV4 7HP

Book tickets at britishsciencefestival.org/event/farming-for-the-future/

The geopolitics of the energy transition

13:00 - 14:00 12/09/2019

This year, electricity in the UK ran for 6 days without burning coal.

Energy security and climate change are just some of the challenges that are facing the global energy system.

Join **Michael Bradshaw**, **Caroline Kuzemko** and **David Elmes**, all from the University of Warwick, as they discuss current and possible future trends in energy consumption and the issues associated with the UK's low-carbon energy transition.

Venue: IMC 02, International Manufacturing Centre, University of Warwick CV4 7HP

Book tickets at britishsciencefestival.org/event/the-geopolitics-of-the-energy-transition/

Huxley debate: smart cities, smarter decisions?

15:00 - 16:00 12/09/2019

The urban dream of a 'smart' city is slowly becoming a reality, thanks to advances in technologies such as the Internet of Things, 5G and artificial intelligence. But do these technologies always make smarter decisions?

As cities like Coventry trial driverless vehicles and smart bins, our panel discuss the benefits for residents as well as the risks of relying on new digital technologies.

This event is supported by Coventry and Warwickshire Local Enterprise Partnership.

Venue: Warwick Arts Centre Theatre, University of Warwick

Book tickets at britishsciencefestival.org/event/huxley-debate-smart-cities-smarter-decisions/

Presidential address: Alice Roberts

17:00 - 18:00 12/09/2019

On an individual level it often feels like we are too small to effect change. This feeling of hopelessness is not new and has been discussed throughout the ages.

Fifty years ago, in 1969, Sir Peter Medawar gave his presidential address to the British Society for the Advancement of Science, quoting from a utopian novel by Francis Bacon, published in 1627. In his address, Medawar compared the philosophical landscape of the seventeenth century to that of the late 60's – exploring how Bacon's belief in the capacity of humans to effect change emerged amidst a general gloomy sense of melancholy, even despair – which seemed to have reappeared in the 20th century. Jump to the present day and it seems we're still surrounded by that despair.

Professor Alice Roberts, incoming President of the British Science Association, reflects on whether we can drag ourselves out of this mire and whether we can or should let ourselves believe in our capacity to make the world a better place.

Venue: Warwick Arts Centre Theatre, University of Warwick

Book your tickets at britishsciencefestival.org/event/presidential-address-alice-roberts/

5G: advancing the self-driving car

11:00 - 12:00 13/09/2019

Do you know your 4G from your 5G? Probably not, but many companies boast that their devices are '5G enabled'. In reality, the technology to produce 5G networks isn't fully available yet. But, beyond watching films on your phone, the development of a better mobile network is vital for the next steps in autonomous vehicles. The speed and connectivity 5G would enable will allow cars to 'speak' and learn from one another in real-time, allowing them to avoid accidents.

In this future-facing event, **Erik Kampert** from the University of Warwick considers the steps required to crack the next generation of mobile networks and how they could unleash self-driving cars on UK roads.

Please note that the Tour of Britain will be passing through the University of Warwick campus between 10:45 and 11:00 so please plan your journey accordingly.

Venue: IDL 03, International Digital Laboratory, University of Warwick Campus CV4 7HP

Book tickets at britishsciencefestival.org/event/5g-advancing-the-self-driving-car/