



Curio: *Cutting Edge Science and Innovation Research Seminar Series for Teachers, Careers Advisors, Technicians and STEM Ambassadors*

CLIMATE AND COP26 SPECIAL- Celebrating STEM Ambassador researchers

Excellent opportunity to improve subject knowledge on cutting edge science and engineering research from senior researchers across the UK. This short seminar series gives STEM teachers and careers leads an opportunity to hear from leading academic and industrial researchers about their work, its relevance today and for the societies of tomorrow.

The seminars will also highlights the different careers in research and routes into them through the speakers own journeys. For more details and to book follow the links below.

DATE & TIME: Thursday October 7th 2021: 15.30 -16.15

TITLE: “**Net Zero by 2050 – but can we keep the lights on?**”

STEM Ambassador Researcher: **Allison Strachan**

OUTCOMES:

- Improved subject knowledge on the move to a ‘net zero carbon’ world and its impact on electricity supplies to your home; low carbon heating and transport
- Understanding of research and careers in engineering and energy systems

SUMMARY:

Short seminar from University-based, industry-facing researcher about the COP-backed move to a ‘net zero carbon’ world by 2025, and what that means for electricity supplies. What becomes electric that is not electric now? How does that affect electricity networks? And can we keep the lights on, or are power cuts inevitable? Come along and find out!

AUDIENCE: Teachers, School Career Advisors, Technicians,

CPD TYPE: Remote via MS Teams (link will follow after registration)

Booking Link: <https://www.stem.org.uk/cpd/501605/curio-net-zero-2050-%E2%80%93-can-we-keep-lights>

DATE & TIME: Thursday November 4th 2021: 15.30 - 16.15

TITLE: “Watching the Earth quake from space”

STEM Ambassador Researcher: Dr Ruth Amey

OUTCOMES:

- Improved subject knowledge on earthquakes, remote sensing of our planet using satellites and why studying this is relevant for everyone.
- Understanding of careers in environmental science, geography and space science research.

SUMMARY:

This talk will give an overview of how we use satellites to observe, monitor and understand earthquakes. This includes identifying where earthquakes have occurred in the past, how we use satellites to understand earthquakes as they happen today, and how we try to identify areas potentially at risk of earthquakes in the future..

AUDIENCE: Teachers, School Career Advisors, Technicians,

CPD TYPE: Remote via MS Teams

Booking Link: <https://www.stem.org.uk/cpd/501606/curio-watching-earth-quake-space>

DATE & TIME: Thursday 9th December 2021: 15.30 - 16.15

TITLE: “Transforming Waste – using CO2 to make chemicals”

STEM Ambassador Researcher: Dr. Daniel Stewart

OUTCOMES:

- Improved subject knowledge on the use of catalyst technology to turn waste carbon dioxide into high-value chemicals that find use in everyday items.
- Understanding of research and opportunities in Chemistry and Chemical engineering.

SUMMARY:

Short seminar from the CEO of an innovation driven start-up, and former University-based researcher discussing the opportunities that exist for chemistry to make an impact on one of the greatest challenges facing humans –CO2 emissions. Learn how chemical technologies can be developed to reduce CO2 emissions, fossil fuel reliance, and make for a sustainable, cleaner future.

AUDIENCE: Teachers, School Career Advisors, Technicians,

CPD TYPE: Remote via MS Teams

Booking Link: <https://www.stem.org.uk/cpd/501615/curio-transforming-waste-%E2%80%93-using-co2-make-chemicals>

