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Year of Carbon 2019



Throughout 2019 the Society will explore the geoscience of Carbon through research conferences, lectures, our education programme and other activities.

Carbon is one of the most important elements of our planet. In the oceans and atmosphere, carbon has important consequences for the global climate system. Complex organic molecules led to life on Earth. Carbon-based energy resources remain of critical importance, both in terms of extraction and mitigation of carbon emissions, but also for planning for a future carbon-neutral society.

Carbon is central to a number of critical societal challenges. Understanding the carbon budget of our planet over long timescales requires quantification of the cycling of carbon between surface reservoirs and Earth's deep interior. On shorter timescales, complex feedbacks exist between the precise nature of our orbit around the Sun, the biosphere and solid Earth. Over the last century, the rapid increase in atmospheric CO₂, caused by the burning of fossil fuels, is one of the greatest scientific challenges of our time, and will occupy generations to come.

JOURNAL OF THE GEOLOGICAL SOCIETY THEMATIC SET

Carbon forms: paths and processes in the Earth

The Journal of the Geological Society Thematic set on Carbon is available at: <https://tinyurl.com/y645rsoj>

DECARBONISATION

At the Geological Society 2019 Bryan Lovell Meeting, delegates gathered to discuss the opportunities for decarbonisation offered by geoscience and the subsurface.



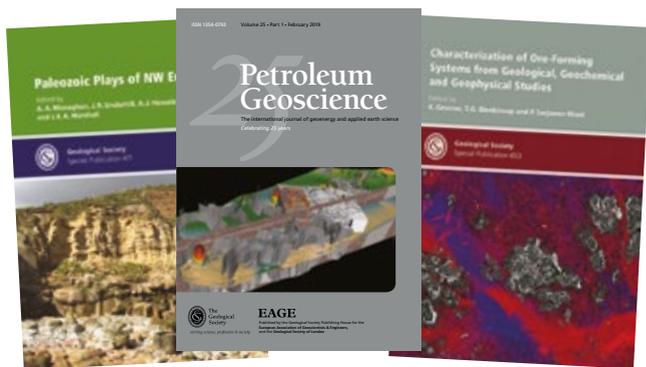
To read the full report and outcomes of the meeting please visit: www.geolsoc.org.uk/Lovell19



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**2019
YEAR OF
CARBON**

Find out more on our website: www.geolsoc.org.uk/carbon19



YEAR OF CARBON COLLECTION

A collection of papers in the Lyell Collection relating to the Year of Carbon

Ideal and real structures of different forms of carbon, with some remarks on their geological significance

Read more: jgs.lyellcollection.org/content/early/2018/10/26/jgs2018-056

Oil and gas in the Vienna Basin: hydrocarbon generation and alteration in a classical hydrocarbon province

Read more: pg.lyellcollection.org/content/early/2018/05/15/petgeo2017-056

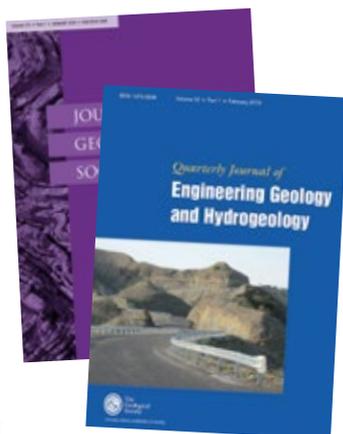
Recognizing anthropogenic modification of the subsurface in the geological record

Read more: qjgeh.lyellcollection.org/content/early/2018/09/19/qjgeh2017-007

Geological Storage of Carbon Dioxide

Read more: sp.lyellcollection.org/content/233/1/1

View all papers in the Year of Carbon Collection at www.lyellcollection.org/cc/year-of-carbon



PUBLICATIONS RELATING TO THE YEAR OF CARBON

The Geological Society online bookshop offers a variety of books in a diverse range of geological disciplines. Please see a selection of titles related to the Year of Carbon below and more online at: www.geolsoc.org.uk/publications

Palaeozoic Plays of NW Europe

View more online: www.geolsoc.org.uk/sp471

Reservoir Quality of Clastic and Carbonate Rocks: Analysis, Modelling and Prediction

View more online: www.geolsoc.org.uk/sp435

Advances in Karst Research: Theory, Fieldwork and Applications

View more online: www.geolsoc.org.uk/sp466

Characterization of Ore-Forming Systems from Geological, Geochemical and Geophysical Studies

View more online: www.geolsoc.org.uk/sp453

Petroleum Basins and Hydrocarbon Potential of the Andes of Peru and Bolivia

View more online: www.geolsoc.org.uk/1303

More journal and book content available online in the Lyell Collection

www.lyellcollection.org

EVENTS AND MEETINGS

Events and meetings will be held throughout 2019, with events regularly being added to the schedule – please visit www.geolsoc.org.uk/listings for the most up-to-date list.

Lyell Meeting 2019: Carbon: geochemical and palaeobiological perspectives

28 JUNE 2019

Venue: Burlington House, Piccadilly, London
Find out more online: www.geolsoc.org.uk/GSL-Lyell-Meeting-2019

Public Lecture: The Big Antarctic Freeze

18 SEPTEMBER 2019

Venue: Burlington House, Piccadilly, London
Find out more online: www.geolsoc.org.uk/GSL-Lecture-Sept

Public Lecture: Joint Year of Carbon and 'International Year of the Periodic Table' lecture with the Royal Society of Chemistry

16 October 2019

Venue: Burlington House, Piccadilly, London
Find out more online: www.geolsoc.org.uk/GSL-Lecture-Oct

Public Lecture: Volcanoes and past climate: adventures with deep carbon

14 NOVEMBER 2019

Venue: Burlington House, Piccadilly, London
Find out more online: www.geolsoc.org.uk/GSL-Lecture-Nov

FIND OUT MORE

Visit our website:

www.geolsoc.org.uk

Year of carbon homepage:

www.geolsoc.org.uk/carbon19

The Lyell Collection:

www.lyellcollection.org

The Online Bookshop:

www.geolsoc.org.uk/bookshop

Resources for students, teachers and anyone interested in the Earth:

www.geolsoc.org.uk/SupportingMaterials

Explore the Geological Society Library's collection of over 300,000 books and journals and 40,000 maps:

www.geolsoc.org.uk/library

Carbon themed blog post:

blog.geolsoc.org.uk/category/year-of-carbon/

Follow us to find out more throughout 2019

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