

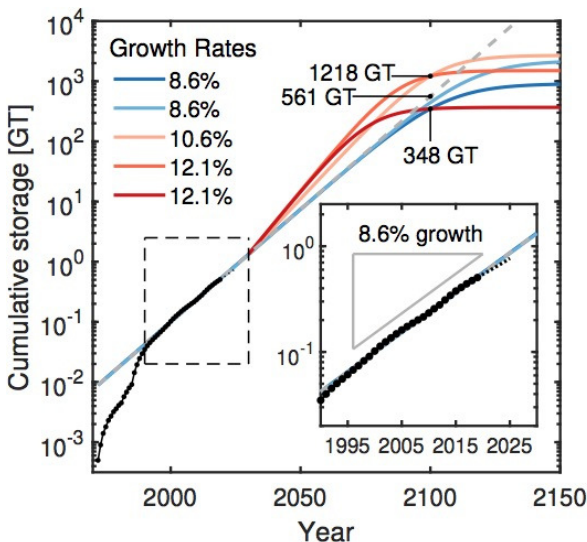
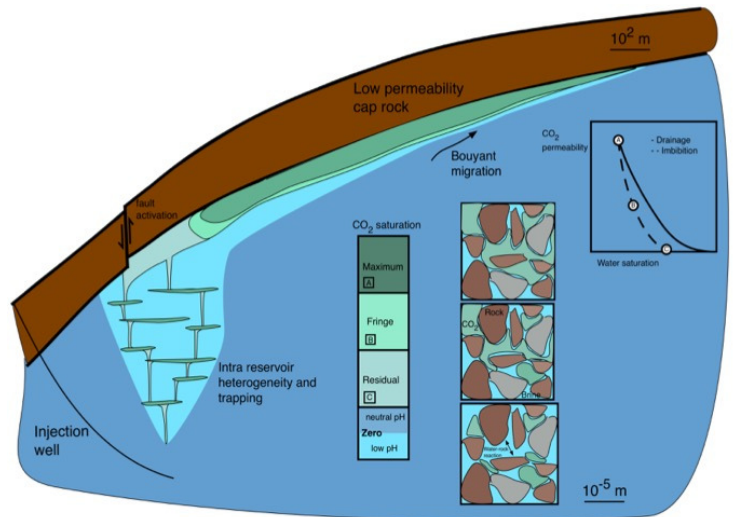
# The role of CO2 Storage in Achieving Climate Change Targets

Samuel Krevor (Imperial College London)

3<sup>rd</sup> December 2019 | The Deritend Room, St Martin in the Bullring, Edgbaston Street, Birmingham, B5 5BB | Refreshments and networking from 6.00pm for a 6:30pm start

December's meeting will be the West Midlands Regional Group AGM followed by the evening lecture.

A number of assessments suggest that the widespread storage of CO2 in deep subsurface sedimentary rocks will be needed to avoid dangerous climate change. It is estimated that storage rates will need to be in the order of 1-10 Gt CO<sub>2</sub> per year by 2050, with cumulative storage of over 1000 Gt CO<sub>2</sub> by the end of the century. The management of individual storage sites is increasingly understood with a number of projects injecting at rates around a million tonnes CO<sub>2</sub> per year. However, challenges remain for the scale-up of injection rates from megatonnes to gigatonnes per year. In this presentation Samuel will provide an overview of the technology and discuss key incentives and potential limitations to achieving large scale storage targets.



**About the Speakers:** Sam Krevor is a Senior Lecturer in the Department of Earth Science & Engineering at Imperial College London. He leads the Subsurface CO2 Research group which combines laboratory observations and numerical modelling to understand the fluid dynamics of CO2 injection, migration, and trapping for CO2 storage. Prior to starting at Imperial College in 2012 he was a postdoctoral scholar in the Energy Resources Engineering Department at Stanford University. He received his bachelors, masters, and PhD in Environmental Engineering from Columbia University.

**Forthcoming Talks:** The WMRG is constantly on the lookout for fascinating talks. If you would like to present, or know someone who is willing, please contact the WMRG committee (details below) and we will try our very best to accommodate your requests.

**Contact:** For all enquiries regarding the West Midlands Regional Group and events please contact us using the details below.

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