



Further Reading List for London Lecture: Feeling the pressure in sedimentary basins: the periodic venting of hot fluids from within the Earth

Professor Joe Cartwright, Oxford University

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The reading list can also be found at <https://www.geolsoc.org.uk/FluidExpulsion16>

Popular Articles and Resources

1. Background Information and Resources

- a. Ask an Astronomer – How can water be chemically trapped in rocks?

<http://curious.astro.cornell.edu/our-solar-system/43-our-solar-system/the-earth/geology/96-how-can-water-be-chemically-trapped-in-rocks-intermediate>

- b. Smithsonian – All Rocks Contain Water

http://www.mnh.si.edu/earth/text/3_1_2_4.html

2. Trapping and Flow of Water in the Subsurface

- a. Oceanus Magazine – Water Flowing Underground

<http://www.whoi.edu/oceanus/feature/water-flowing-underground>

- b. Live Science – Huge ‘Ocean’ discovered inside the Earth

<http://www.livescience.com/1312-huge-ocean-discovered-earth.html>

- c. NGWA – Forces controlling water in rocks

<http://www.ngwa.org/Fundamentals/hydrology/Pages/Forces-controlling-water-in-rocks.aspx>

- d. BBC News – Earth’s underground water quantified

<http://www.bbc.co.uk/news/science-environment-34837461>

- e. CBC News – Water trapped inside rocks for billions of years

<http://www.cbc.ca/news/technology/water-trapped-inside-rocks-for-billions-of-years-1.1033330>

- f. PRI – How the Earth made its own water – out of rocks

<http://www.pri.org/stories/2015-01-10/how-earth-made-its-own-water-out-rocks>

3. 3-D Seismic Imaging

- a. YouTube – 3-D Seismic Explainer Video

<https://www.youtube.com/watch?v=hxJa7EvYoFI>

- b. Stanford University – 3-D Seismic Imaging

http://sepwww.stanford.edu/data/media/public/sep/biondo/3DSI_frame.html

4. Mud volcanoes and Methane Venting

- a. Atlas Obscura – Mud Volcanoes of Azerbaijan

<http://www.atlasobscura.com/places/mud-volcanoes-of-azerbaijan>

- b. BBC News – ‘Widespread methane leakage’ from ocean floor off US coast

<http://www.bbc.co.uk/news/science-environment-28898223>

Journal Articles and Books

1. Cartwright, J.A. 2007. Bicentennial Review: The impact of 3D seismic data on the understanding of compaction, fluid flow and diagenesis in sedimentary basins. J. Geol. Soc. Lond., 164 (5), 881-893.
2. Cartwright, J.A., Huuse, M. and Aplin, A. 2007. Seal bypass systems. AAPG Bull., 91 (8), 1141-1166.
3. Bertoni, C., Cartwright, J. and Hermanrud, C. 2013. Evidence for large-scale methane venting due to rapid drawdown of sea level during the Messinian Salinity Crisis. Geology 41 (3), 371-374.
4. Cartwright, J and Santamarina, C, 2015. Seismic characteristics of fluid escape pipes in sedimentary basins: Implications for pipe genesis, Mar. Pet. Geol. 65, 126-140