



Further Reading List for London Lecture: Fault growth and interactions - implications for earthquake hazard and risk assessment – John Walsh, University College Dublin

Wednesday 18 October 2017

The reading list can be found at <https://www.geolsoc.org.uk/EarthquakeHazard17>

Popular Articles and Resources

Background

- a. Geological Society Rock Cycle - Faults

<https://www.geolsoc.org.uk/ks3/gsl/education/resources/rockcycle/page3573.html>

- b. USGS – What is a fault?

https://geomaps.wr.usgs.gov/sfgeo/quaternary/stories/what_fault.html

- c. Live Science - Fault Lines: Facts About Cracks in the Earth

<https://www.livescience.com/37052-types-of-faults.html>

Examples of 'unrecognised' faults

- d. Gizmodo – An obscured fault in Southern California

<http://www.gizmodo.co.uk/2017/02/an-obscure-fault-in-southern-california-is-more-dangerous-than-we-thought/>

- e. GNS Science – The hidden fault that caused the February 2011 Christchurch earthquake

<https://www.gns.cri.nz/Home/Our-Science/Natural-Hazards/Recent-Events/Canterbury-quake/Hidden-fault>

- f. Inhabitat - Massive hidden faults in Bangladesh, east India and Myanmar could cause a cataclysmic earthquake, scientists warn

<https://inhabitat.com/massive-hidden-fault-could-cause-a-cataclysmic-earthquake-scientists-warn/>

Other

- g. Fault propagation and interaction

<http://folk.uib.no/nglhe/FaultInteraction.html>

- h. Growth faults

<https://www.geologyin.com/2014/03/growth-fault.html>

- i. Use of GPS to understand the behaviour of faults

<https://phys.org/news/2016-06-analysis-reveals-large-scale-motion-san.html>

Journal Articles and Books

- a. Hamling, I.J. et al. 2017. Complex multifault rupture during the 2016 Mw7.8 Kaikoura earthquake, New Zealand. *Science* 356 (6334).
- b. Mouslopoulou, V., Nicol, A., Walsh, J.J., Begg, J.G., Townsend, D.B. & Hristopulos, D.T. 2012. Fault-slip accumulation in an active rift over thousands to millions of years and the importance of paleoearthquake sampling. *Journal of Structural Geology*, 36, 71-80.
- c. Nicol, A., Walsh, J.J., Villamor, P., Seeback, H. & Berryman, K.R. 2010. Normal fault interactions, paleoearthquakes and growth in an active rift. *Journal of Structural Geology* 32, 1101-1113.