



The Geological Society

servicing science & profession

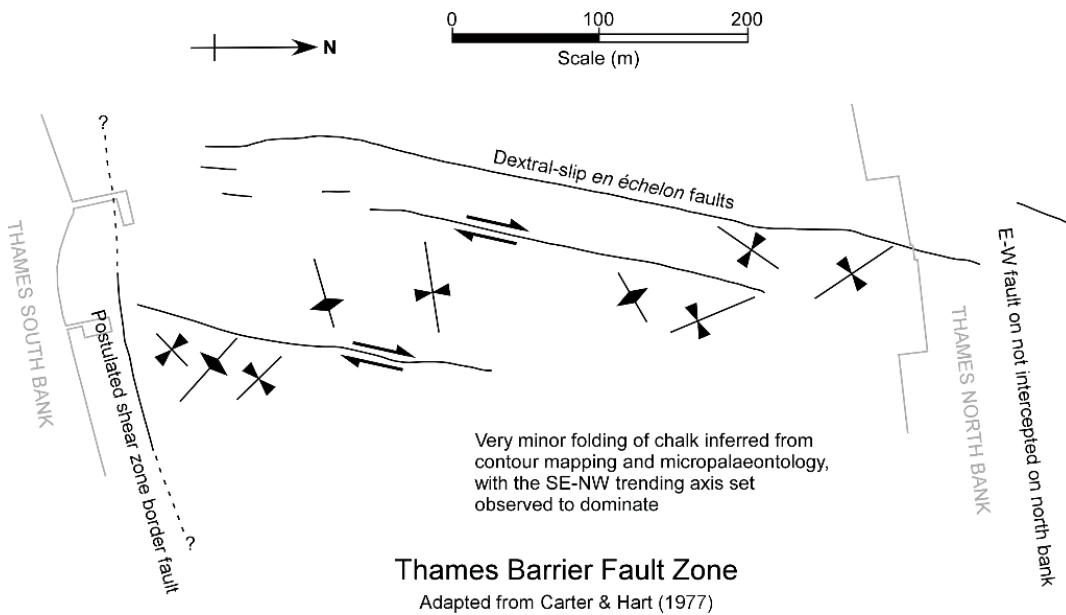
South East Regional Group

Meeting

Faulting in London: New insights into London Basin tectonics

Tom Morgan, Imperial College London

Date: 15th October 2019 Time: 18:00 for 18:30 start



The near-surface of London is faulted, however, the locations of these structures, their architecture and tectonic origins are broadly unknown. The key role of inherited faults in London from the underlying Palaeozoic basement has been identified, with three sets recorded that appear to have compartmentalised the ground. Where these faults overlap is coincident with fault zones (see figure) identified

by tunnelling projects, indicating that these zones are complex products of fault interaction and linkage.

The apparent lack of major faulting elsewhere in the London Basin indicates that the region was comparatively stable during the Alpine orogeny and is considered to reflect the role of the underlying Massif, with strain accommodated at its margins. When compared with the architecture of the neighbouring inverted basins it becomes apparent that the London Basin is tectonically different.

The talk will introduce a new structural interpretation of London including a preliminary fault map. This will be followed by review of the London Basin, raising questions about its structure and tectonic behaviour.

Tom is an engineering geologist currently undertaking a PhD at Imperial College London investigating how tectonic-scale process affect site-scale geotechnical behaviour in London. He is also a committee member for the Engineering Group of the Geological Society.

LOCATION: Atkins
One Croydon,
12-16 Addiscombe Rd,
CR0 0XT

Please let us know if you plan to attend so that we have an idea of numbers for catering.

southeastrg@googlemail.com

