



**The
Geological
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South East Regional Group

Meeting

Date: 10th March 2020

Horley Baptist Church, Horley

6pm for 6.30pm start

Bumps on the bottom – the impact of emplacement of the Bushveld Complex, South Africa

A talk by Brendan Clarke (CSA Global)

The 2.06 Ga Bushveld Complex in South Africa is the world's largest layered intrusion, covering an areal extent of over 66,000 km² and having an average thickness of over 8km. It is also the world's largest repository of PGE's, chromitite and vanadiferous titanomagnetite. Whereas countless petrological studies have assessed the magmatic processes associated with the emplacement of the Bushveld Complex, only a handful of studies have focussed on the physical mechanisms of emplacement. In this talk I will discuss how the Bushveld Complex was initially emplaced as sill-like body, and how the magmatic overplating resulted in profound tectonic effects on the floor rocks, and the implications that this tectonism had on the distribution of economic targets within the Complex.



Speaker

Brendan is a geologist with 20 years of experience in structural geology, mineral exploration and exploration project management and is currently the Director – Africa for CSA Global. He has designed, executed and managed exploration projects globally with a specific focus on Africa, the Middle East and India, in addition to extensive experience in the execution of regional-scale, precompetitive geological research programmes. Brendan has worked in more than 20 African countries, with a key focus on iron ore and gold projects in the African greenstone belts and is a CP/QP for orogenic gold and iron ore. He is well-versed with all the major international reporting codes and has provided technical support to IPO's on all major exchanges. He completed his PhD on the floor tectonics associated with, and resulting from, the emplacement of the Bushveld Complex in South Africa.

Location:

Horley Baptist Church, 289 Court Lodge Road, Horley, Surrey, RH6 8RG

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