

# Geowissenschaftliches Kolloquium

## *The role of continental collision in the separation of Arabia from Africa and the formation of the Dead Sea Fault*

Donnerstag, 14. November 2013 - 16.15 Uhr

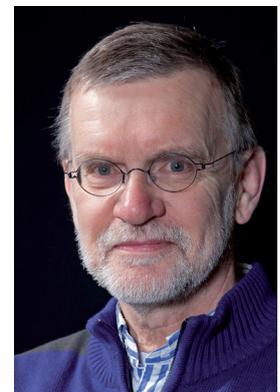
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The separation of Arabia from Africa has been proposed to result from the collision induced stress field in the NE corner of the former African plate (see Bellahsen et al., ESPL, 2003). Using this proposed mechanism as a starting point we numerically model the lithospheric stress field resulting from the collision induced changes in boundary forces, with emphasis on temporal and spatial variations. In this light we pay special attention to the process of formation of the Dead Sea Fault.



**Prof. Dr. Rinus Wortel** studied at Utrecht University, where he has been professor of Geophysics since 1989. His research is predominantly in lithosphere dynamics, with special attention for the subduction process, the evolution of convergent plate boundaries or plate boundary regions (in particular the Mediterranean region), lithospheric



stress fields, and the relation between dynamics of the lithosphere and the mantle and near-surface geological processes.

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