



Earth Stewardship Science



Nelson Mandela
Metropolitan
University

for tomorrow



Tshwane University
of Technology
We empower people

Call for Participation

AEON Earth Stewardship Science – Short Course I:

Connecting Earth's Mantle Events and the Critical Zone: Applications from thermochronometry, geophysics, remote sensing and genetics

12-15 August 2013

Nelson Mandela Metropolitan University (NMMU),
Summerstrand South Campus, Port Elizabeth, South Africa

DAY 1	Monday 12 August	
I.	Introduction to and connections to Earth Stewardship Science (Maarten de Wit - AEON: NMMU)	0.25d
II.	Mantle dynamics and kimberlite emplacement (David Bell - ASU)	0.5d
III.	Magnetotelluric investigations of the mantle and intrusives (Christoffel Fourie - TUT)	0.25d
DAY 2	Tuesday 13 August	
IV.	Geophysical targeting and detection of kimberlites and characterization of the critical zone (Moctar Doucouré - AEON: NMMU)	0.5d
V.	Low-temperature thermochronometry – general background and technique (Rebecca Flowers - University of Colorado)	0.5d
DAY 3	Wednesday 14 August	
VI.	Low-temperature thermochronometry - applications to erosion of the crust, kimberlites and the critical zone (Rebecca Flowers - University of Colorado)	0.75d
VII.	Cosmogenic dating of the critical zone and climatically influenced denudation rates of the southern African plateau (John Decker - PASA; Maarten de Wit - AEON: NMMU)	0.25d
DAY 4	Thursday 15 August	
VIII.	The critical zone and remote sensing applications to soil degradation and land use (Vincent Kakembo - ACE: NMMU)	0.25d
IX.	Critical Zone and Geocodynamics (Fenton Cotterill - AEON: US)	0.5d
X.	Wrap-up and future developments (Maarten de Wit - AEON : NMMU)	0.25d

Register at: <http://indico.saip.org.za/event/ess1>
Registration deadline : **Friday, 2 August 2013**