

## UKSEDI 2019

Location:

- Talks: 1<sup>st</sup> floor teaching room (Department of Earth Sciences, UCL, 5 Gower Place, London WC1E 6BS)
- Posters: North Cloisters (Wilkins building, UCL, Gower Street, London WC1E 6HJ)

### Wednesday 8<sup>th</sup> May

9:30 – 10:00: Registration and coffee (next to the 1<sup>st</sup> floor teaching room, Department of Earth Sciences)

10:00 - 12:00: Morning presentations – Chair: Paula Koelemeijer

- 10:00 – 10:40: **Vedran Lekic** (Maryland) “Sequencing Seismic Data and Models”
- 10:40 – 11:20: **Jenny Wong** (IPG Paris) “A slurry model of the F-layer”
- 11:20 – 11:40: **Ana Ferreira** (UCL) “Ubiquitous lower mantle anisotropy beneath subduction zones”
- 11:40 – 12:00: **Simon Hunt** (UCL) “The anelasticity of zinc and implications for the inner core”

12:00 – 13:00: Poster session with tea / coffee / refreshments

13:00 – 14:00: Lunch in the North Cloisters (same location as posters)

14:00 - 16:00: Afternoon presentations – Chair: Sanne Cottaar

- 14:00 – 14:40: **Marie Bocher** (ETH Zurich) “Using data assimilation for the joint reconstruction of mantle circulation and surface tectonics”
- 14:40 – 15:20: **Andrew Biggin** (Liverpool) “Characterisation of the palaeomagnetic field: how and why”
- 15:20 – 15:40: **Yue-Kin Tsang** (Leeds) “Characterising Jupiter's dynamo radius using magnetic energy spectrum”
- 15:40 – 16:00: **Federico Munch** (ETH Zurich) “Mantle composition and thermal structure from joint inversion of P-to-S converted waves and Rayleigh wave dispersion curves”

16:00 - 17:30: Poster session with tea / coffee / refreshments

19:00: Dinner at Mestizo (103 Hampstead Rd, Kings Cross, London NW1 3EL)

### Thursday 9<sup>th</sup> May

9:30 – 11:30: Morning presentations – Chair: Céline Guervilly

- 9:30 – 10:10: **Veronique Dehant** (Royal Observatory of Belgium) “Earth's nutation/precession and core modelling”
- 10:10 – 10:50: **Kuangdai Leng** (Oxford) “Modelling wave scattering by small-scale mantle heterogeneities and its application to ultra-low velocity zones”
- 10:50 – 11:10: **Kathy Whaler** (Edinburgh) “Core surface flows from secular variation gradient data”
- 11:10 – 11:30: **Annemijn van Stiphout** (Utrecht) “A study of the topography of the mantle seismic discontinuities beneath the Alaskan subduction zone using receiver functions”

11:30 – 13:00: Poster session with tea / coffee / refreshments

13:00 – 14:00: Lunch in the North Cloisters (same location as posters)

14:00 – 16:00: Afternoon presentations – Chair: Andrew Thomson

- 14:00 – 14:40: **Hauke Marquardt** (Oxford) “Experimental Exploration of Earth's Mantle”
- 14:40 – 15:00: **Hannah Rogers** (Edinburgh) “Application of Spherical Slepian Functions to Decomposing Core Surface Flows”
- 15:00 – 15:20: **Radostin Simitev** (Glasgow) “Toroidal flux oscillation as a possible cause of geomagnetic excursions and reversals”
- 15:20 – 15:40: **Dan Bower** (CSH Bern) “Dynamics and chemistry of Earth's magma ocean with implications for core formation”
- 15:40 – 16:00: **Phil Heron** (Durham) “The interaction between oceanic subduction and deep mantle structures in the positioning of mantle plumes”

16:00 – 17:00: Poster session with tea / coffee / refreshments