

3rd TIDES Training School: Seismic tomography and uncertainties. Wolfson College Oxford, July 9-14 2017

	Monday 10 July		Tuesday 11 July		Wednesday 12 July		Thursday 13 July		Friday 14 July	
8:30 (L)	A. Morelli et al (Bologna) Introduction to TIDES, logistics, tomography & uncertainties		J. Trampert (Utrecht) Solving geophysical inference problems using machine learning		A. Ferreira (UCL) Mapping mantle (an)isotropy with big data and novel seismic observables		P. Koelemeijer (Oxford) An introduction to normal modes and their use in imaging Earth structure		J. Rickett (Schlumberger) Inversion of optical waveforms in a distributed acoustic sensing system	
9:15 (L)	K. Mosegaard (Copenhagen) Probabilistic Inversion - Methods and Limitations		A. Curtis (Edinburgh) Nonlinear Spatial Inversion Avoiding Markov Chain Monte Carlo		S. Lebedev (Dublin) Global waveform tomography with massive datasets		A. Fichtner (ETH) Full-waveform inversion - quo vadis ?		J. Robertsson (ETH) Wavefield gradiometry and immersive wave experimentation	
10:00										
10:30 (L)	N. Rawlinson (Cambridge) Seismic tomography: Solving linear and non-linear inverse problems and assessing uncertainty		T. Bodin (Lyon) Transdimensional Inference in the Geosciences		Valerie Maupin (Oslo) Crustal corrections in frequency-dependent body wave tomography		D. Bowers (AWE Blacknest) Monitoring nuclear tests using seismology		J. Virieux (Grenoble) Challenges for needed multi-parameter imaging for the upper crust	
11:15 (L)	D. Storchak (ISC) The ISC datasets and services J. Weston (ISC) ISC-EHB: reconstructing the EHB earthquake database		Y. Capdeville (Nantes) Elastic full waveform inversion and homogenisation		H. Peters (Güralp) Advances in seismic instrumentation (30 min)		Poster session II (Haldane room)		Contributed Talks A. Berbellini (15 min) J. Jenkins (15 min) C. Nunn (15 min) J. Zeiß (15 min)	
12:00 (L)	A. Ferreira & panel 40 years of seismic tomography		Poster session I (Haldane room)		Contributed Talks N. Luca Celli (20 min) K. Hosseini (20 min) R. Orsvuran (20 min)				A. Morelli wrap-up	
12:45										
14:15 (H)	Rawlinson practical Surface wave tomography	Tides WG1 WG2 WG5	Bodin practical McMC sampling methods	Tides WG1 WG2 WG5	Oxford practical AxiSEM3D & model assessment	Tides MC meeting	Excursion afternoon Punting, museums, geology walks, colleges, pubs	Tides WG3 WG4	ETH practical Salvus & adjoint approaches	Tides WG3 WG4
17:30	Poster session I (Haldane room)		Walk to White Hart, Wytham (leaving lodge 5:15, 5:30pm)		Football match UK vs EU				Informal discussion	
18:45										
20:45 (L)	Informal discussion		The White Hart of Wytham 6:30pm-11pm		A. Fichtner How to write a successful proposal		Panel Career paths in Academia and industry		Final social dinner and events	

Locations: Leonard Auditorium, **Hall**, **Haldane Room**, elsewhere

Drinks:
Icebreaker Sunday, 17:30-18:45, Wolfson Cafe
Coffee breaks Daily 10:00-10:30, 15:30-16:00 courtyard near lodge
Evening drinks Daily 20:30-23:00, **Hall/Haldane**

Breakfast Monday-Saturday 7:30-8:30, **Hall**
Lunch Monday-Friday, 12:45-14:00, **Hall** & Buttery
Dinner Daily 18:45-20:15, Hall, **EXCEPT:**
Social dinner Tuesday 18:30-23:00; White Hart pub, Wytham
BBQ dinner Friday 18:00, **Wolfson Hall**