

SIO224 Internal Constitution of the Earth

Guy's part, 2018 – note that this is subject to change

Guy's lectures are from 9am to 10:20am on Tuesday and Thursday

Lecture	Topic	Lecturer
1, 3 Apr	Formation of the Earth and Moon, Bulk composition	Guy
2, 5 Apr	1D Earth structure and resolution	Guy
3, 10 Apr	Thermodynamics review	Guy
4, 12 Apr	P and T in deep Earth, materials at high T	Guy
5, 17 Apr	Equations of state – Mie Gruneisen theory	Guy
6, 19 Apr	Fitting the lower mantle (spin transition)	Guy
7, 24 Apr	Phase transformations, phase diagrams, mantle discontinuities	Guy
8, 26 Apr	Melting, phase diagram of iron, T profiles	Guy
9, 1 May	3d Earth structure, thermal + compositional	Guy
10, 3 May	Isotopic constraints on mantle convection	Guy
11, 8 May	Rheology I	Guy
12, 10 May	Rheology II	Guy