

# Solid Earth Doctoral School – Grenoble, Lyon 19-23/10/2020

## Monday 19/10

- 10:15 Inaugural talk *A subjective promenade in 50 years of geophysics (Ricard)*  
14:00 Seismology *A general introduction to seismology (Durand)*  
15:45 Core dynamics *Core structure and geomagnetic field (Deguen)*
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## Tuesday 20/10

- 9:00 Core dynamics *Energetics of the geodynamo (Deguen)*  
10:15 Mantle dynamics *TBA (Ricard)*  
11:30 Student presentations  
14:00 Core *Core flows (Nataf)*  
15:45 Mantle dynamics *TBA (Ricard)*  
17:15 student presentations
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## Wednesday 21/10

- 9:00 Seismology *Seismic tomography (Durand/Bodin)*  
10:15 Mantle dynamics *TBA (Ricard).*  
11:30 Geochemistry *Planets: condensation, volatiles, early crust (Albarède)*  
14:00 Mineralogy *Tools and Diagnostics for Mineral Physics (Morard)*  
15:45 Seismology *Bayesian inference (Bodin)*  
17:15 Discussion *Scientific communication (all)*
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## Thursday 22/10

- 9:00 Core dynamics *Dynamos (Nataf)*  
10:15 Geochemistry *Mantle: outputs (volcanism), input (subduction), mixing (Albarède)*  
11:30 Mineralogy *Upper mantle (Morard)*  
14:00 Geochemistry *Ocean+Atmosphere: how the mantle controls ocean and atmospheric chemistry. The Great Oxidation Event. (Albarède)*  
15:45 Mantle dynamics *TBA (Ricard)*
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## Friday 23/10

- 9:00 Seminar seismology *Seismic evidence of partial melt below tectonic plates (Debayle)*  
10:15 Mineralogy *Lower mantle and D'' (Morard)*  
11:30 Discussion *Working in academia (all)*  
14:00 Mineralogy *Core – and exoplanets if time allows (Morard)*  
15:45 Special ending seminar *From mines to money: when silver became money (Albarède)*