

Peter Lonsdale
215 Ritter Hall
plonsdale@ucsd.edu

SIO 244 SHAPE AND STRUCTURE OF THE OCEAN FLOOR
Winter 2014
348 Vaughn Hall
Tuesday-Thursday 10:30-11:50AM

- Jan 7 Introduction, and a historical perspective on techniques
Jan 9 Plate driving forces, and plate cooling consequences
- Jan 14 Plate flexure, fracture, and
Jan 16 welding
- Jan 21 The varieties of active and
Jan 23 inactive risecrests
- Jan 28 Segmentation of risecrests and shearing at transform
Jan 30 and nontransform offsets
- Feb 04 Rise-flank fracture zones, normal and
Feb 06 oblique
- Feb 11 Patterns of rise-flank volcanism
Feb 13 Growth, collapse, and destruction of oceanic volcanoes
- Feb 18 Guyots, atolls, and drowned atolls
Feb 20 Regional patterns of abyssal sedimentation
- Feb 25 Deep sea erosion, causes and results
Feb 27 Mud drifts and their depositional bedforms
- March 4 Turbidity currents and deep-sea channels
March 6 Abyssal fans and plains
- March 11 Shape, structure and history of
March 13 the Pacific deep-sea floor