

DELERY, ANNE M., Department of Geology and Geophysics, Louisiana State University, Baton Rouge, LA 70803, and ARNOLD H. BOUMA, Department of Geology and Geophysics, Louisiana State University, Baton Rouge, LA 70803

### **Aspect Ratios in Coarse-Grained and Fine-Grained Submarine Fan Channels**

Most turbidite complexes can be placed into two end-members: coarse-grained, sand-rich and fine-grained, mud-rich. These two classes display large differences in sandstone/shale ratio and in the distribution of both lithologies. Both end members geometry have channels near the base-of-slope, which become distinctly leveed on the middle fan, and are nonchannelized sheet sands in the middle and outer parts of the lower fan. The aspect ratios differ greatly, but fine-grained systems tend to have an aspect ratio of 100:1. The ratio differences and channel fill characteristics can distinguish the type of end member visible on seismic records.