

Application for Funds to Support Visit of Zhengtang Guo

PI: Pierre E. Biscaye

Prof. Guo is prepared to give seminars while visiting Lamont. His subjects would be as follows:

- (1) Eolian deposition in northern China and Asian aridification.
- (2) Evolution of Asian monsoon climate viewed from the eolian deposition in China.

While he is at Lamont, we would work together in three temporal areas of loess research: the last 2.6 Ma (the familiar CLP loess-paleosol sequence); the underlying Red-Earth (or Hipparion Red Earth) sequence from 2.6 to 6.2 Ma; and an older section of Miocene-Pliocene eolian deposition in northern China.

The specific objectives in these studies would be:

- (1) to document the history and evolution of Asian aridification and the potential dynamic causes of these variations;
- (2) to characterize the Late Cenozoic evolution of the Asian paleomonsoon based on these eolian sequences.
- (3) to explore how these events may be linked with the Tibetan uplift and other forcing functions of global import.