Workshop on Biostratigraphic Micropaleontology

Scientific Program — Schedule
17-19 August 2010

Department of Earth and Planetary Sciences
Rutgers University

August 16: Arrival of participants in New Brunswick. Closest airport is Newark International Airport, with an array of convenient transportation possibilities: Car rental, limousine, rail.


August 17. 8.30 to 17.30. Basic elements of biostratigraphic micropaleontology

8.15 – 8.30 Welcome
Objectives of the course (M.-P. Aubry)

8.30 – 9.30 Introduction. Micropaleontologic stratigraphy (M.-P. Aubry)

9.45 – 14.45 Introduction to the main taxonomic groups

9-45 – 10.45 Benthic foraminifera (M. Katz)

10.30 – 11.45 Planktonic foraminifera (R. K. Olsson)

12.45 – 13.45 Coccolithophorids and calcareous nannofossils (M.-P. Aubry)

13.45 – 14.45 Dinoflagellates, Pollens and spores (P. McLaughlin)

14.45 – 15.45 Biostratigraphy and chronostratigraphy (M.-P. Aubry)

16.00 – 17.30 Geochronology (the time scale) (W. A. Berggren)

August 18: 8.30 to 18.00. Isotope stratigraphy; Theoretical models; Case history studies

8.30 – 10.45 Isotope stratigraphy

8.30 – 9.30 Isotope stratigraphy (J. Wright/K. G. Miller)

9.45 – 10.45 Isotope stratigraphy (J. Wright/K. G. Miller)
10.45 – 11.45 The K/P boundary in the coastal plain of the New Jersey (R. K. Olsson)

12.45 – 17.00 Sequence stratigraphy and Eustasy
   12.45 – 13.45 Sequence stratigraphy (K. G. Miller)
   13.45 – 14.45 Palynomorphs and sequence stratigraphy: case studies (P. McLaughlin)
   14.45 – 15.45 Eustasy (K. G. Miller)
   16.00 – 17.00 From chronology to stratigraphy: Testing eustasy (M.-P. Aubry)

17.00 – 18.00 Stratigraphic exercises and microscope study

August 19: 8.30 to 18.00. Case history studies (continued); syntheses

8.30 – 13.30: Case history studies
   8.30 – 9.30 Integrated stratigraphic and paleobathymetric study of the Neogene of the Gulf
           of Mexico—part 1 (M.-P. Aubry, W. A. Berggren, M. Katz)
   9.45 – 10.45 Integrated stratigraphic and paleobathymetric study of the Neogene of the
           Gulf of Mexico—part 2 (M.-P. Aubry, W. A. Berggren, M. Katz)
   10.45 – 11.15 Characterisation of Potential gas bearing units (D. Mosher)
   11.15 – 11.45 Morphoclines and stratigraphic resolution (D. Bord)

12.45 – 3.45 Syntheses
   12.45 – 13.45 Allostratigraphy versus sequence stratigraphy (M.-P. Aubry)
   13.45 – 14.45 History of sea level changes and global warming (K. G. Miller)
   14.45 – 15.45 Stratigraphic interpretation in industry (K. Johnson)

August 20: leaving New Brunswick