Figure E.1 shows the markers arrays used in the COM study of posterior leaflet dynamics. The COM DATAFILES folder contains files from 6 control runs: com01r04.1E, com02r02.1E, com03r04.1E, com04r01.1E, com06r01.1E, and com07r04.1E. Frame Rate = 60 frames/sec (16.667 msec/frame); Each Row in the Datasets is a frame; ECG Voltage is in Dataset Column 4; LVP in Column #5; Marker #1X(cm) is in Column 11, #1Y(cm) in Column 12, #1Z(cm) in Column 13; Marker #2X(cm) is in Column 14, #2Y(cm) in Column 15, #2Z(cm) in Column 16; ETC., ETC.

Markers #15, 22, and 21 are trigonal, Marker #16 is at the anterior commissure, Marker #20 at the posterior commissure, Markers #17, 18, and 19 are on the contractile portion of the mitral annulus, Markers #1, 4, 7, 10, and 13 are on the anterior leaflet edge, Marker #2 is on the anterior commissural leaflet of the posterior leaflet complex, Marker #14 is on the posterior commissural leaflet of the posterior leaflet complex, Markers #3, 5, and 6 are at the P1-P2 boundary, Marker #8 is on the central meridional edge of the P2 scallop of the posterior leaflet, Markers #9, 11, and 12 are at the P2-P3 boundary, Markers #26, 27, and 28 are on the anterior papillary muscle tip, Marker #29 is the point of insertion of the strut chord from anterior papillary muscle tip Marker #26 to the anterior leaflet, and Markers #23, 24, and 25 are on the posterior papillary muscle tip, with Marker #30 at the point of insertion of the strut chord from the posterior papillary muscle tip Marker #23 to the anterior leaflet.

Various PowerPoint animations are provided in this Appendix to illustrate leaflet movements, shapes, and folding patterns in 3D space relative to timing points on the left ventricular pressure curve.