1037-35-175 **Gregory C Verchota*** (gverchot@syr.edu), 215 Carnegie, Syracuse University, Syracuse, NY 13244, and Moises Venouziou, 215 Carnegie, Syracuse University, Syracuse, NY 13244. The mixed boundary value problem in the sense of nontangential limits for harmonic functions in polyhedra.

R. M. Brown's theorem on mixed Dirichlet and Neumann boundary conditions is extended in two ways for the special case of polyhedral domains. A (1) more general partition of the boundary into Dirichlet and Neumann sets is used on (2) manifold boundaries that are not locally given as the graphs of functions. Examples are constructed to illustrate necessity and other implications of the geometric hypotheses. (Received February 01, 2008)