

MacEachren, A.M., 2000. Representations to Mediate Geospatial Collaborative Reasoning: A Cognitive-Semiotic Perspective, **invited keynote address**, Diagrams 2000, Edinburgh, Scotland, Sept. 2, 2001 [abstract published in Anderson, M., Cheng, P., and Haarsleve, V. (eds), *Theory and Application of Diagrams*, Lecture Notes in Artificial Intelligence, 1889, Berlin: Springer, p. 1].

Abstract: This presentation will address the representation of geospatial information in the context of group work. The focus is on visual representations that mediate between human collaborators who are participating in a joint reasoning process, within a place and/or space-based problem context. The perspective developed for addressing the challenges involved builds upon the cognitive-semiotic approach outlined in *How Maps Work*, extending it to consider the issues that underlie creation of maps and related diagrams that *work* in a *group work* context. This context requires representations that depict not only geospatial information but also individual perspectives on that information, the process of negotiation among those perspectives, and the behaviors (work) of individuals participating in that negotiation.