



Preconference workshop: Geoprocessing Techniques

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NOTE: Participants **must** bring their own notebook computer with ArcGIS 9.3.1 installed. We will send a CD with the needed GeoDatabases for the course before the conference so that participants can install the data before arriving for the course.

Learning Objectives:

This hands-on workshop will enable the participants to carry out geoprocessing (analysis, modeling) using a sample of geoprocessing techniques. Upon completion participants should feel comfortable with geoprocessing techniques in ArcGIS. Each of the topics listed below consists of a short Power Point of the concepts in the topic and a demonstration of those concepts. The topics to be presented are:

- ✓ Setting up ArcGIS for modeling – an important first step
- ✓ Using the selection tools (Select By Attribute and Select By Location) to solve problems
 - Stressing the importance of planning
 - Demonstrating the lesson that doing an analysis this way has both advantages and disadvantages.
- ✓ Overview of the Modeler
- ✓ Solving the Selection Tools exercise using the modeler
 - Uses the Select Layer by Location, the Make Feature Layer, and the Copy Feature tools
 - This involves the definition of “layers” and how they are used in the tools.
- ✓ Restatement of the Selection problem and planning so that it can be solved through the use of the Analysis Tool sets (Extract, Overlay, and Proximity)
- ✓ Summary

Materials supplies:

Notebook containing PowerPoints and Exercise documents
CD containing the GeoDatabases needed for the exercises

Software Experience: Participants must be experienced in the use of ArcGIS but extensive knowledge of analysis and use of the modeler is not expected.

Teaching Time: 3 hours consisting of lectures and exercises. There will be one 15-minute break,