**TW 1408: Coordinate Systems and Datum Transformations in Action**

**Goals of the workshop**

Understand coordinate systems and geographic/datum transformations.

**Major topics covered**

- Geographic versus projected coordinate systems
- Identifying an unknown coordinate system (also see related demonstration below)
- Picking a geographic/datum transformation

Demonstrations will include

- Comparing different coordinate systems with ArcMap
- Explaining how the ‘prj’ files are organized in ArcGIS Desktop
- Choosing an appropriate geographic transformation

**Related sessions**

**NOTE: Sessions occur before this session**

Wednesday, 10:30AM – 11:00AM: *Working with Map Projections*. SDCC, Demo Theater - Technical Support Exhibit Hall B.

Wednesday, 2:00PM – 2:30PM: *Lining up CAD data in ArcGIS*. SDCC, General Theater 2 Exhibit Hall A.

**Reference Material**

Flacke & Kraus. *Coordinate Systems in ArcGIS*.
Elithorp & Findorff. *Geodesy for Geomatics and GIS Professionals*.
Iliffe and Lott. *Datums and Map Projections*.
Maher. *Lining Up Data in ArcGIS*.
Meyer. *Introduction to Geometrical and Physical Geodesy*.

Knowledge Base articles at [http://support.esri.com](http://support.esri.com) (enter the ID numbers as a search term)

**23025, 29129, 24893, 29035, 17420**

[http://www.epsg.org](http://www.epsg.org) and [http://www.epsg-registry.org](http://www.epsg-registry.org)

Database of coordinate systems and datums *Guidance Notes*