

### 4.2.3 CAD/GIS Integration - How to make them fit

**Presenter**

Vince Hamilton  
Michael Baker Jr. Inc.  
[vhamilton@mbakercorp.com](mailto:vhamilton@mbakercorp.com)

**Co-Presenter**

This presentation will disclose the secrets to using CAD and GIS files together. When CAD and GIS are used together, they will seldom line up properly and this presentation will address: What are they different?, What you have to know to line them up, How to determine your coordinate system, What are Projection Files?, What are World Files?, How to line up CAD files in GIS, How to line up a GIS file in CAD, Surface to Grid Transformation, Finding your combined scale factor. This will help the engineering community understand what information to ask for when requesting CAD or GIS data. It will help the technicians understand how to pinpoint the alignment problems even when not meta-data was provided.