

IWFM Training

This is a three-day training. The attendees will learn the basic concepts and mathematical methods used in IWFM, and will have hands-on exercises that will teach them how to build models from scratch. The concepts used in IDC (the root zone component of IWFM) to compute water demands, and to route water through the land surface and root zone will also be covered briefly (a companion training on IDC covers these concepts in more detail). The software tools that are developed to aid IWFM users in pre- and post-processing model data will also be covered.

The following lists a draft schedule, topics that will be covered, and software requirements for the training.

A. Schedule:

- **Day 1:**

1. Introduction to IWFM-2015
2. Introduction to software tools to be used during training (TextPad, IWFM Tools for Excel)
3. Simulation of groundwater flow
4. Stream flow, stream-groundwater interaction, lakes, lake-groundwater interaction

- **Day 2:**

1. Tile drains, subsidence, pumping and recharge of groundwater
2. Land use and soil moisture routing
3. Computation of agricultural and urban water demands

- **Day 3:**

1. Stream diversions and pumping as water supply
2. Automated adjustment of diversions and pumping to meet agricultural and urban water demands

3. Demonstration of IWFEM pre-processor tools: IWFEM Mesh Generator, Soil Data Builder tool, Land Use Developer tool
4. Upcoming enhancements to IWFEM

B. Software Requirements

1. Windows 7 operating system
2. Excel 2007, 2010 or 2013
3. TextPad (or an equivalent high-power text editor)