**Introduction to Groundwater Modeling with MODFLOW 6**

**Agenda**

**June 6, 2019**

**MODFLOW and More Workshop, Golden, Colorado**

Course Instructors: Joe Hughes, USGS

Chris Langevin, USGS

Alden Provost, USGS

Sorab Panday, GSI Environmental, Inc.

**Thursday, June 6, 2019**

8:30 AM – Part 1: Introductions and Overview (**Langevin**)

8:45 AM – Part 2: Building, Running, and Post-Processing MODFLOW 6 Models (**Langevin**)

10:00 AM – Break

10:15 AM – Part 3: Advanced Package Capabilities (**Hughes**)

11:15 AM – Part 4: Newton Raphson Formulation for Water Table Aquifers (**Hughes**)

12:00 PM – Lunch

1:00 PM – Part 5: XT3D (**Provost**)

2:30 PM – Part 6: Alternative Discretization Approaches (DISV, DISU, and Multi-Model LGR Coupling) (**Langevin**)

3:00 PM – Break

3:15 PM – Part 7: Real-World MODFLOW 6 Example (**Panday**)

4:15 PM – Part 8: Future Directions: (1) new skeletal storage, Compaction and SUBsidence (CSUB) Package (**Hughes**), (2) Groundwater Transport (GWT) model (**Langevin**), (3) Buoyancy (BUY) Package for density dependent groundwater flow (**Langevin**), (4) the Linear Network Flow (LNF) Model (**Panday**), and (5) MODPATH development (**Provost**)

5:00 PM – Class Adjourn