Using MODFLOW-USG with Groundwater Vistas & PEST

Webinar

Instructors:

Jim Rumbaugh
Environmental Simulations, Inc.
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Sorab Panday
GSI Environmental, Inc.
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Location:

Your Home or Office!

Cost

Individual: $950
Office: $1,900

Contact Jim Rumbaugh (see above) to Register

Instructor Bio:

Jim Rumbaugh, hydrogeologist and groundwater modeler, has over 30 years of experience in application of groundwater models and in development of groundwater modeling software tools. He is the co-author of the Groundwater Vistas software and is President of Environmental Simulations, Inc., a company that specializes in groundwater modeling. Jim teaches groundwater modeling seminars throughout the USA, Europe, Australia, and New Zealand. The Australia and New Zealand seminars are co-taught with John Doherty, author of the PEST calibration software. Jim has an active consulting practice and has worked on hundreds of groundwater modeling projects throughout the world.

Sorab Panday is Principal Engineer at AMEC Environment & Infrastructure in Herndon, Virginia. Dr. Panday is also Adjunct Professor in the Department of Earth Sciences at the University of Waterloo in Ontario, Canada. Sorab has spent the last 24 years developing and applying models to a wide range of water resource problems. He is the primary author of the new MODFLOW-USG for unstructured grids and was also one of the lead authors of MODFLOW-Surfact. Sorab also has extensive experience in solving variably-saturated flow and transport, multi-phase flow and transport, dual-domain flow and transport, and geothermal problems.

Registration:

To register for this seminar, simply send Jim an email at **JRumbaugh@GroundwaterModels.com,** give us a call at (610) 670-3400, or pay by credit card on our web site at www.groundwatermodels.com and click Online Store. Registration is not confirmed until we receive payment for the Webinar.

Webinar Information:

- The Webinar is divided into 6 lectures lasting between 1 and 2 hours. After each lecture, there will be computer exercises that you may work on at your own pace. Help with exercises is provided by email (support@groundwatermodels.com).

- Lectures are live **but will be recorded** in case you cannot attend all of them. There will be periodic question/answer sessions during the lecture. You will call into the Webinar using either VoIP (provided) or telephone. Optional Question & Answer sessions are held periodically.

- Computer exercises are based on the Advanced Version of ESI's Groundwater Vistas Version 6 software. If you do not currently have Groundwater Vistas 6 Advanced or if you have an older version, you may purchase a new license or upgrade with a 20% discount. You must order the software prior to the start of the Webinar to receive the discount.

- ESI reserves the right to cancel the Webinar if there are less than 6 participants

- Each lecture will start at 3:00 pm Eastern Time. Webinar Lectures will be on Monday, Tuesday, and Wednesday for 2 consecutive weeks. Question & Answer sessions will be held on Thursdays. Consult our webinar schedule for exact dates

Course Description:

Using MODFLOW-USG with Groundwater Vistas & PEST

MODFLOW-USG, recently released by the USGS, is a version of the popular MODFLOW model for unstructured grids. The unstructured grid concept allows modelers to create models that conform to complex boundaries and are refined only in areas of interest. Groundwater Vistas supports most of the capabilities of MODFLOW-USG, including the advanced version. This Webinar will cover the theory behind MODFLOW-USG, how to create unstructured grids in Groundwater Vistas, suggested solver settings under a variety of conditions, and how MODFLOW-USG interfaces with PEST for model calibration.

The following topics will be covered in the Webinar:

Lecture 1:
Introduction to MODFLOW-USG (Sorab Panday)

Lecture 2:
Using MODFLOW-USG in Groundwater Vistas (Jim Rumbaugh)

Lecture 3:
Designing Nested Grids with MODFLOW-USG (Jim Rumbaugh)

Lecture 4:
The Beta Version of MODFLOW-USG (Sorab Panday)

Lecture 5:
Beta MODFLOW-USG in Groundwater Vistas (Jim Rumbaugh)

Lecture 6:
Using PEST with MODFLOW-USG (Jim Rumbaugh)