

Mjukvarukurs i Stockholm 2 - 5 nov 2010



GEAWELLTECH

Geowelltech erbjuder, i samarbete med Schlumberger Water Services (SWS), en fyradagars mjukvarukurs i grundvattenmodellering mha Visual MODFLOW och Visual Modflow 3D Builder. Kursen kommer inledas med 3D Builder för utformning av en konceptuell modell

men fokus är Visual MODFLOW för numerisk grundvattenmodellering och simulering. Geowelltech är extra stolta att årets instruktör är Miln Harvey, se separat presentation nedan. Kursen hålls på engelska.

Kursinnehåll

- Background theory and applications of ground water flow and transport modeling
- Conceptual model development using Hydro GeoBuilder
- Fundamental concepts and theory of MODFLOW, MODPATH, ZoneBudget and MT3D
- Simulating groundwater flow in multiple aquifer systems using MODFLOW
- Particle tracking and capture zone analysis using MODPATH
- Sub-regional water budget analysis using ZoneBudget
- Contaminant transport processes and simulations using MT3D
- Heat and Density-dependent modeling using SEAWAT
- Calibration and verification of 3D flow and transport models
- Prediction and visualization of results in 2D and 3D
- Techniques for calibrating and optimizing models using WinPEST

Note: Course topics may be amended / changed based on the level of students at the course

Instruktör

Miln Harvey, Ph.D., P.Eng. is a Senior Hydrogeologist with Schlumberger Water Services and the Manager of the Training Division. He is a specialist in finite difference and finite element groundwater modeling using MODFLOW and FEFLOW, and in the integration of GIS data for groundwater model development and the visualization of model results. Dr. Harvey has more than 18 years experience as a hydrogeologist and environmental engineer, of which the past 10 years have been spent at Schlumberger Water Services developing groundwater models to assess regional groundwater protection strategies through WHPA delineation and groundwater contamination impacts through fate and transport modeling. Over this period, he has delivered more than 80 professional groundwater short courses in North America and abroad. They have included open enrolment courses for groundwater flow and contaminant transport modeling using Visual MODFLOW and FEFLOW, GIS data management and analysis, aquifer performance test analysis, groundwater modeling for mining applications and water quality data management and modeling, as well as specialized on-site custom courses using a variety of software tailored to specific client training needs.



Kostnad: 14 420 SEK

I priset ingår luncher, fika och tillgång till dator med installerad mjukvara.

Sista anmälningsdag: 30:e september

Frågor och anmälan

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Prel. kursschema

Dag 1, tisdag 2:e november

Lecture:		Course Introduction
Lecture:		An Introduction to Groundwater Modeling
Exercise:	Intro1:	An Introduction to Visual MODFLOW
Lecture:		How to Build a Groundwater Model
Exercise:	Intro1:	An Introduction to Visual MODFLOW
Lecture:		3D Conceptual Modeling using 3D-Builder

Dag 2, onsdag 3:e november

Exercise:	Tier3:	An Introduction to 3D-Builder
Lecture:		Principles of USGS MODFLOW
Exercise:	Tier3:	An Introduction to 3D-Builder
Lecture:		USGS MODPATH and ZoneBudget
Exercise:	Chemwest:	the Groundwater Flow Model

Dag 3, torsdag 4:e november

Lecture:		Principles of Contaminant Transport Modeling
Exercise:	Chemwest:	the Groundwater Transport Model
Lecture:		Density-dependent and Heat Transport Modeling with SEAWAT
Exercise:	Seawell:	Coastal Pumping Well Modeling

Dag 4, fredag 5:e november

Exercise:	Geothermal:	Heat Transport Modeling using SEAWAT 4
Lecture:		Groundwater Model Calibration
Exercise:	Valley:	Calibrating a Transient Flow Model
Exercise:	Channel:	Calibrating a Flow and Transport Model

Optional: Freyberg: Calibrating a Groundwater Flow Model

Var?

Kursen kommer hållas vid Stockholms Universitet i deras seminarierum vid Aula Magna.

Man tar sig enklast till universitetet med tunnelbana (Station Universitet) eller buss 40.

Från tunnelbanan är det ca 200 m fram till Aula Magnas huvudentré.

Med bil/taxi är besöksadressen: Frescativägen 6, 114 18 Stockholm



Förslag på boende, hotell Elite Arcadia

En tunnelbanestation bort från Stockholms Universitet finns Hotell Elite Arcadia. Ett antal rum finns reserverade med grupp Rabatt, 1150 SEK/natt i Superiorrum inkl. frukost.

Ange bokningsnummer: GESY100927

Närmsta tunnelbanestation är Tekniska Högskolan

Elite Hotel Arcadia

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114 23 Stockholm

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Bokningen direkt: 08-566 217 40, fax 08-566 21 711

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