

Schedule

Groundwater Modelling School - Adelaide

Monday Day 1

8:30		Registrations Open
8:45		Welcome
9:00	1	Groundwater Flow <ul style="list-style-type: none">• What is groundwater• Aquifers & aquitards• Groundwater flow systems
10.00	2	Basic Equations of Flow <ul style="list-style-type: none">• Darcy's Law• Equations governing groundwater flow• Steady-state versus transient flow
11:00		Morning Tea
11:15	3	Analytical Groundwater Modelling <ul style="list-style-type: none">• Simple models and solutions• Applications
12:30		Lunch
1:30	4	Introduction to Numerical Modelling <ul style="list-style-type: none">• Basic concepts of running a modelling code• Introduction to Tutorial 1, Steady-state Flow
2.45		Afternoon Tea
3:00	5	Modelling Tutorial 1 <ul style="list-style-type: none">• Data entry• Model simulations
4:30		<ul style="list-style-type: none">• Discussion of tutorial 1 model
5:00		End Day 1

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Tuesday Day 2

9:00	6	Groundwater Modelling The process of modelling
10:00	7	Developing a Numerical Model <ul style="list-style-type: none">• Grid scheme• Model boundaries• Boundary conditions• Aquifer parameters• Aquifer stresses
11:00		Morning Tea
11:15	8	Introduction to MODFLOW <ul style="list-style-type: none">• MODFLOW: history• What MODFLOW is and what can it do
12:30		Lunch
1:30	9	Introduction to Tutorial 2 <ul style="list-style-type: none">• Tutorial 2 conceptual model• Discussion of tutorial 2 numerical model
2.45		Afternoon Tea
3:00	10	Modelling Tutorial 2 <ul style="list-style-type: none">• Data entry• Model simulations
4:30		<ul style="list-style-type: none">• Discussion of tutorial 2 model
5:00		End Day 2

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Groundwater Modelling School - Adelaide Wednesday Day 3

9:00	11	CODE SELECTION <ul style="list-style-type: none">• Differences between finite difference, finite volume and finite element codes• MODFLOW packages• Data input• Pitfalls and limitations
11:00		Morning Tea
11:15	12	Model Calibration and Validation <ul style="list-style-type: none">• What is Calibration and how is it used• Model Validation
12:30		Lunch
1:30	13	Introduction to Tutorial 3 <ul style="list-style-type: none">• Tutorial 3 conceptual model• Development of tutorial 3 numerical model
2.45		Afternoon Tea
3:00	14	Modelling Tutorial 3 <ul style="list-style-type: none">• Data entry• Model simulations
4:30		<ul style="list-style-type: none">• Discussion of tutorial 3 model
5:00		End Day 3

Schedule

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Thursday Day 4

9:00	15	A Real Groundwater Flow Model <ul style="list-style-type: none">• Developing a real model• Data needs• Documentation• Report review
10:00	16	Modelling Guidelines <ul style="list-style-type: none">• Presentation of Modelling Guidelines• Limitations• Management, regulatory considerations
11:00		Morning Tea
11:15	17	Advanced Topics <ul style="list-style-type: none">• Modelling 3-D Flow• Contaminant Transport Modelling• Modelling Unsaturated Zone Flow• Groundwater-Surface Water Interactions• Fracture Flow Modelling• Heat Transport
12:30		Lunch
1:30	18	Estimating Transport from Flow Modelling <ul style="list-style-type: none">• Introduction to Tutorial 4
2:45		Afternoon Tea
3:00	19	Modelling Tutorial 4 <ul style="list-style-type: none">• Data entry• Model simulations
4:30		<ul style="list-style-type: none">• Discussion of tutorial 4 model
5:00		End of School

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