

Agenda

Joint ICTP-IAEA International School on the Physical Basis for Radionuclide Migration (storage, disposal & contaminated sites)

Details:			
Date:	7 – 11 November 2022	Scientific Secretary:	Mr Willie Meyer (IAEA)
Location:	Lectures : Kastler Lecture Hall, Adriatico Guest House / Hybrid via Cisco WebEx Interactive sessions: Informatic Denardo InfoLab, Adriatico Guest House	Local organiser:	Ms Nicola Seriani (ICTP)
		Event number:	ICTP smr3751 & IAEA EVT2102939

Virtual participants are welcome to join the sessions shaded in green in the agenda.



Monday 7th November			
No.	Title	Facilitator/Presenter	Time (CET)
01	Opening & welcome	Prof Nicola Seriani (ICPT) & Ms Kim Baines (IAEA)	09:00 - 09:15
02	Introduction & background	Ms Kim Baines	09:15 - 09:45
03	Interactive session: Basic concepts	Ms Vicky Freedman	09:45 - 10:30
	COFFEE BREAK		10:45 - 11:00
04	3751 (pico presentation)	Participants in Trieste only	10:45 - 11:30
05	Model applications and objectives	Ms Vicky Freedman	11:30 - 12:30
	LUNCH		12:30 - 13:30
06	Conceptual Site Models	Ms Kim Baines	13:30 - 14:00
07	Conceptual models for groundwater modelling	Ms Vicky Freedman	14:00 - 14:45
08	Interactive session: Creating a conceptual Site Model	Ms Vicky Freedman	14:45 - 15:30
	COFFEE BREAK		15:30 - 15:45
09	Interactive session: creating a Conceptual model for groundwater modelling	Ms Vicky Freedman	15:45 - 16:30
10	Chemical reactions of radionuclides during implementation of transport modelling. Case study from a Russian site	Ms Anna Romanchuk (virtual)	16:30 - 17:15
11	Participants daily 'take home'	Ms Kim Baines	17:15 - 17:30



Tuesday 8th November			
No.	Title	Facilitator/Presenter	Time (CET)
12	Review session	Ms Vicky Freedman	09:00 - 09:30
13	Modelling terminology and approaches	Mr Rodolfo Avila	09:30 - 10:30
14	COFFEE BREAK		10:30 - 10:45
15	Model complexity, linkages and code selection	Ms Vicky Freedman	10:45 - 11:45
16	Parameter selection and input data	Mr David Bennett (virtual)	11:45 - 12:30
	LUNCH		12:30 - 13:30
17	Overview on treatment of uncertainties	Mr Rodolfo Avila	13:30 - 14:00
18	Model output and visualization	Ms Vicky Freedman	14:00 - 14:45
	COFFEE BREAK		14:45 - 15:00
19	Interactive session: Visualization tools	Ms Vicky Freedman	15:00 - 15:45
20	Interactive session: Modelling approaches (Part 1)	Mr Rodolfo Avila	15:45 - 16:30
21	Interactive session: Modelling approaches (Part 2)	Ms Vicky Freedman	16:30 - 17:15
22	Participants daily 'take home'	Ms Kim Baines	17:15 - 17:30
	Participants group photograph (in person & virtual)		17:30



Wednesday 9th November			
No.	Title	Facilitator/Presenter	Time (CET)
23	Review session	Mr Rodolfo Avila	09:00 - 09:30
24	Introduction to flow modelling	Ms Vicky Freedman	09:30 - 10:15
	COFFEE BREAK		When required
25	Interactive session: Flow modelling - theory (Part 1)	Ms Vicky Freedman	10:15 - 11:00
26	Interactive session: Flow modelling - models (Part 2)	Ms Vicky Freedman	11:00 - 11:45
27	Interactive session: Flow modelling - practice (Part 3)	Ms Vicky Freedman	11:45 - 12:30
	LUNCH		12:30 - 13:30
28	Introduction to transport modelling	Ms Vicky Freedman	13:30 - 14:15
	COFFEE BREAK		When required
29	Interactive session: Transport modelling - theory (Part 1)	Ms Vicky Freedman	14:15 - 15:00
30	Interactive session: Transport modelling - models (Part 2)	Ms Vicky Freedman	15:00 - 15:45
31	Interactive session: Transport modelling - practice (Part 3)	Ms Vicky Freedman	15:45 - 16:30
32	The use of simple models to quantify radionuclide migration	Ms Rehab Rahman (virtual)	16:30 - 17:15
33	Participants daily 'take home'	Ms Kim Baines	17:15 - 17:30



Thursday 10th November			
No.	Title	Facilitator/Presenter	Time (CET)
34	Review session	Ms Vicky Freedman	09:00 - 09:30
35	Introduction to performance level modelling - theory (Part 1)	Mr Rodolfo Avila	09:30 - 10:15
	COFFEE BREAK		When required
36	Introduction to performance level modelling - model (Part 2)	Mr Rodolfo Avila	10:15 - 11:00
37	Introduction to performance level modelling - practice (Part 3)	Mr Rodolfo Avila	11:00 - 11:45
38	Cementation analogues confirming sorption of actinides by argillaceous and carbonate rich rocks	Mr Pranesh Sengupta (virtual)	11:45 - 12:30
	LUNCH		12:30 - 13:30
39	Interactive session: Using NORMALYSA - theory (Part 1)	Mr Rodolfo Avila	13:30 - 14:15
40	Interactive session: Using NORMALYSA - model (Part 2)	Mr Rodolfo Avila	14:15 - 15:00
	COFFEE BREAK		15:00 - 15:15
41	Interactive session: Using NORMALYSA - practice (Part 3)	Mr Rodolfo Avila	15:15 - 16:00
42	Interactive session: Using NORMALYSA - advanced (Part 4)	Mr Rodolfo Avila	16:00 - 17:15
43	Participants daily 'take home'	Ms Kim Baines	17:15 - 17:30



Friday 11th November			
No.	Title	Facilitator/Presenter	Time (CET)
44	Review session	Mr Rodolfo Avila	09:00 - 09:30
45	An introduction to geochemical modelling	Mr David Bennett (virtual)	09:30 - 10:45
	COFFEE BREAK		10:30 - 10:45
46	Modelling colloid facilitated transport	Mr David Bennett (virtual)	11:00 - 11:30
47	Geostructural & mineral-chemical input parameters for modelling uranium transfer in the vadose zone: case study of the Tulukuyevsky deposit	Mr Vladislav Petrov (virtual)	11:30 - 12:15
	LUNCH		12:00 - 13:00
48	Actinide colloids and nanoparticles formation, properties and migration	Mr Stepan Kalmkov (virtual)	13:15 - 14:00
49	Generation of colloidal particles by highly radioactive ceramic waste forms	Mr Michael Ojovan (virtual)	14:00 - 14:45
50	Workshop Q&A Session	Ms Kim Baines	14:45 - 15:15
51	Certificate presentation for in person participants, acknowledgements & meeting close	Ms Kim Baines	15:15 - 15:30