

Program COMET Workshop 3, June 15-17, 2016.

## Models fit for purpose

***The objective of this workshop is to discuss modelling as fit for purpose, by organizing a dialogue and obtaining feedback from modellers, experimentalists and stakeholders on this subject.***

Time	Lecturer	Title
<b>June 15<sup>th</sup>, 2016</b>		
14:00 – 14:15	Lindis Skipperud	Welcome and scope of the workshop
<b>Purpose: Why do we need radioecology models? (Chair: Lindis Skipperud)</b>		
14:15 – 14:35	Jordi Vives i Batlle	Models: What are they for?
14:35 – 14:55	Martin Steiner	What should an ideal radioecological model look like?
14:55 – 15:15	Igor Linkov	Top-down and Bottom-up Approaches for Integrating Judgment in Environmental Models: Methodology and Case Studies
15:15 – 15:45	Coffee and tea	
15:45 – 17:00	Group work	<b><i>Purpose of radioecology models</i></b>
17:00 – 17:30	Group work reports and discussion	
<b>June 16<sup>th</sup>, 2016</b>		
<b>Interaction between modellers and experimentalists (Chair: Marie Simon Cornu)</b>		
09:00 – 09:30	Rafael G-Tenorio	The need of interaction between modellers and experimentalists – from the experimentalists' point of view
09:30 – 10:00	Juan Carlos Mora Cañadas	The need of interaction between modellers and experimentalists – from the modellers' point of view
10:00 – 10:30	Coffee and tea	
10:30 – 11:30	Group work	<b><i>Interaction modellers – experimentalists: Defining each other's requirements</i></b>
11:30 – 12:00	Group work reports and discussion	
12:00 – 14:00	Lunch	

<b>Fit: How should an ideal radiological model look like? (Chair: Jordi Vives i Batlle)</b>		
14:00 – 14:20	Martin Steiner	Are probabilistic models always the better choice? or: Deterministic vs. probabilistic models: Are probabilistic models always the better choice?
14:20 – 14:40	Céline Duffa / Marie Simon Cornu	Which models should be used to support a technical crisis centre
14:40 – 15:00	Marc-André Gonze	Fit-for-purpose spatial modelling of environmental systems
15:00 – 15:20	Juan Carlos Mora Cañadas	Understanding uncertainties in models
15:20 – 15:50	Coffee and tea	
15:50 – 17:00	Group work	<i>Fit for purpose</i>
17:00 – 17:30	Group work reports and discussion	
<b>June 17<sup>th</sup>, 2016</b>		
<b>Needs: Model/data requirements (Chair: Juan Carlos Mora Cañadas)</b>		
09:00 – 09:20	Philippe Ciffroy	Stakeholder's experience in assessing exposure to chemicals, the case of MERLIN-EXPO
09:20 – 09:40	Russell Walke	So you want to build a model: platforms and implementation
09:40 – 10:00	Jorge Molinero	Innovative approaches to modelling the transport of contaminants in groundwaters
10:00 – 10:20	Coffee and tea	
10:20 – 10:40	Brit Salbu	Uncertainties in source term and dynamic transfer of radionuclides
10:40 – 11:00	Wolfgang Raskob	Model validation – how do we do this?
11:00 – 12:00	Discussions	
12:00 – 14:00	Lunch	

<b>Model-specific session - parallel sessions</b>				
14:00 – 15:00	<i>Fit for purpose models and data for the atmospheric environment</i>		<i>Fit for purpose models and data for the atmospheric environment transfer to humans</i>	
Introduction lectures	Jerzy Bartnicki (15 min)	Nuclear emergency dispersion modelling	Marie Simon Cornu (15 min)	Modelling transfer to humans - possibilities and uncertainties
Discussions	Debate between modellers and experimentalists on key input data/factors required for the models		Debate between modellers and experimentalists on key input data/factors required for the models	

15:00 – 15:30	Coffee and tea			
15:30 – 17:00	<b><i>Fit for purpose models and data for the marine environment</i></b>		<b><i>Fit for purpose models and data for terrestrial forests</i></b>	
Introduction lectures	Raul Perianez (20 min)	Marine transport models - possibilities and uncertainties	Jordi Vives i Batlle (15 min)	Process and data identification in a radionuclide transfer model for pine forests
			Philippe Calmon (15 min)	Data/model intercomparison with post-Fukushima measurements in forests.
Discussions	Debate between modellers and experimentalists on key input data/factors required for the models		Debate between modellers and experimentalists on key input data/factors required for forest models. Listing of the main experimental measurements required to link to forest model parameters.	
17:00 – 17:30	Wrap-up session			
17:30	Closing workshop			