

REGIONAL TRAINING COURSE ON METHODS AND TOOLS TO IDENTIFY SOURCES OF AIR POLLUTION

IAEA RER 1013: Supporting Air Quality Management

Welcome Session

Instituto Superior Técnico
Campus Tecnológico e Nuclear
Sacavém, Portugal
02 –06 June, 2014

Program

Morning sessions

	Monday, 02 June	Tuesday, 03 June	Wednesday, 04 June	Thursday, 05 June	Friday, 06 June
09:00-09:45	Welcome address(es): S.M. Almeida, Course organizer J. Marques, IST Vice-President Auditorium	Receptor models for particulate matter management (K. Eleftheriadis) Auditorium	PMF fundamentals (C. Belis) Auditorium	Supplementary tools in receptor modeling based source apportionment: air mass trajectories, cluster analysis, elemental ratios, pollution roses, enrichment factors, PSCF (P. Salvador) Auditorium	Application of PSCF (P. Salvador) Computer room
09:45-10:30	Self-Introduction of the participants: Previous experience and expectations from RTC Auditorium				
10:30-10:45	Coffee Break				
10:45 – 12:30	Atmospheric Particles: importance, size, chemical composition, sources, sinks and effects (K. Eleftheriadis) Auditorium	Source apportionment tools (CMB, PMF, PCA): advantages, limitations and complementarity of the different models (C. Belis) Auditorium	Principal errors in the application of PMF (C. Belis) Auditorium	Supplementary tools in receptor modeling based source apportionment: air mass trajectories, cluster analysis, elemental ratios, pollution roses, enrichment factors, PSCF (P. Salvador) Auditorium	Application of PSCF (P. Salvador) Computer room
12:30 – 14:00	Lunch				

Program

Afternoon sessions

	Monday, 02 June	Tuesday, 03 June	Wednesday, 04 June	Thursday, 05 June	Friday, 06 June
14:00 – 15:30	Sampling principles, methods and selection of sites (K. Eleftheriadis) Auditorium	Preparation of data bases for source apportionment (S.M. Almeida) Computer room	Application of PMF to a real database (S.M. Almeida) Computer room	Application of air mass trajectories and cluster analysis (P. Salvador) Computer room	Application of openair tools for pollution data analysis (S.M. Almeida) Computer room
15:30 – 15:45	Coffee Break				
15:45 – 16:30	The Portuguese Air Quality Monitoring Network (C. Martins) Auditorium	Preparation of data bases for source apportionment (cont.) (S.M. Almeida) Computer room	Application of PMF to a real database (cont.) (S.M. Almeida) Computer room	Application of air mass trajectories and cluster analysis (P. Salvador) Computer room	Final conclusions and closing session Computer room
16:30 – 17:15	Portuguese Strategies on Air Pollution Control (F. Ferreira) Auditorium	Visit to the Portuguese Research Reactor			

S.M. Almeida - Instituto Superior Técnico, Portugal

F. Ferreira - Universidade Nova de Lisboa, Portugal

C. Martins – Portuguese Environment Agency, Portugal

K. Eleftheriadis - Institute of Nuclear and Radiological Science & Technology, Energy & Safety N.C.S.R. "Demokritos", Greece

C. Belis – Joint Research Center, Institute for Environment and Sustainability, Air & Climate Unit

P. Salvador - Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas, Spain