Second Technical Meeting on the Development, Testing and Harmonization of Models and Data for Radiological Impact Assessments (MODARIA II)

IAEA Headquarters
Vienna, Austria

30 October–3 November 2017

Ref. No.: J9-TM-55078

Prospectus

A. Background Information

The International Atomic Energy Agency’s (IAEA’s) Modelling and Data for Radiological Impact Assessments (MODARIA II) programme was launched during a Technical Meeting in November 2016, and will run until the autumn of 2019. In common with earlier IAEA programmes in the area of environmental modelling, such as the Validation of Model Predictions (VAMP) programme, the Biosphere Modelling and Assessment (BIOMASS) programme, the two Environmental Modelling for Radiation Safety (EMRAS I and EMRAS II) programmes as well as the first MODARIA programme, the MODARIA II programme has the following general objectives: (i) to improve environmental assessment models and modelling methods through model testing and comparison; (ii) to harmonize, where appropriate, environmental modelling philosophies, approaches, and parameter values; (iii) to address radionuclide transfer in a wide range of environmental conditions, including those prevailing in subtropical and tropical regions; (iv) to provide an international focal point for the exchange of information on environmental assessment modelling; and (v) to assist Member States in implementing the IAEA safety standards relevant to the control of exposures to the public and the environment.
The MODARIA II programme was initiated in order to continue the IAEA’s activities in the field of testing and comparing models to assess exposures to humans and radiological impacts on the environment, as well as in the development of guidance on the application of such models. The results of radiological assessments are used, for example, in the evaluation of the radiological relevance of routine and accidental releases of radionuclides, to support decision-making in remediation work and for the performance assessment of radioactive waste disposal facilities.

During the First MODARIA II Technical Meeting, the following seven working groups were established and work plans for the programme’s duration until 2019 were outlined:

- Working Group 1 — Assessment and Decision Making of Existing Exposure Situations for NORM and Nuclear Legacy Sites;
- Working Group 2 — Assessment of Exposures and Countermeasures in Urban Environments;
- Working Group 3 — Assessments and Control of Exposures to the Public and Biota for Planned Releases to the Environment;
- Working Group 4 — Transfer Processes and Data for Radiological Impact Assessment;
- Working Group 5 — Exposure and Effects to Biota;
- Working Group 6 — Biosphere Modelling for Long Term Safety Assessments of High Level Waste Disposal Facilities;
- Working Group 7 — Assessment of Fate and Transport of Radionuclides Released in the Marine Environment.

The First MODARIA II Technical Meeting was attended by 145 participants from 47 Member States. Information about the programme and the activities of the specific working groups can be found on the MODARIA II webpage: https://www-ns.iaea.org/projects/modaria/modaria2.asp?s=8&l=129

B. Purpose

The purpose of this second MODARIA II Technical Meeting is to analyse the progress made so far by the seven working groups; to explore the dissemination of the results of the MODARIA II programme through publication in scientific journals dealing with the various subject areas covered by the programme; and to discuss open questions on environmental modelling.

C. Scope

Like previous IAEA environmental modelling programmes, MODARIA II serves as an international focal point in this field and will help Member States to develop and maintain knowledge and competence in the areas of environmental modelling and radiological impact assessment.

D. Meeting Outputs

This meeting is intended to continue the ongoing work of the MODARIA II programme, to analyse the progress made so far and to discuss the way forward regarding the programme’s roadmap until the conclusion of MODARIA II in 2019.
Participation Form

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To be completed by the participant and sent to the competent official authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA, or National Atomic Energy Authority) of his/her country for subsequent transmission to the International Atomic Energy Agency (IAEA), Vienna International Centre, PO Box 100, 1400 Vienna, Austria, either electronically by email to: Official.Mail@iaea.org or by fax to: +43 1 26007 (no hard copies needed). Kindly send also a copy to the Scientific Secretary of the meeting, Mr Gerhard Proehl, by email: G.Proehl@iaea.org or by fax: + 43 1 26007 22692, as well as to the Administrative Secretary for the meeting, Ms Claire Halsall (Email: C.Halsall@iaea.org).

Deadline for receipt by IAEA through official channels: 18 September 2017

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