



**IAEA**

International Atomic Energy Agency

*Atoms for Peace*

**DIVISION OF RADIATION TRANSPORT AND WASTE SAFETY**



**EduTA**

**EDUCATION AND TRAINING APPRAISAL MISSION**

**IN**

**KOREA**

**20 - 24 June 2011**

## COMPOSITION OF THE IAEA APPRAISAL TEAM

1. Andrea Luciani, Team Coordinator, IAEA
2. Michèle Coeck, Senior Expert, Team Leader, Belgium

## PERSONS MET DURING THE APPRAISAL MISSION

Name	Title
<b>Korea Atomic Energy Research Institute</b>	
Seong Won Park	Vice President of Strategic Program
Kibog Lee	Director, Nuclear Training & Education Center
Youngmi Nam	Head, International Education Team
Byung-Chull Noh	Management Advisor, International Education Team
Hyunkee Kim	Senior Researcher, International Education Team
Bong Joon Lee	Senior Administrator, International Education Team
Kyong-Won Han	Principal Researcher, International Education Team
Eui-Jin Lee	Head, Overseas Project Development Team
Kwon Lee Jae	Head, HANARO Management Team
Jun Sik Lee	Principal Researcher, Division of Radioisotope Applications Research
Jang-Iyul Kim	Principal Researcher, Radiation Protection Team
Jong Il Lee	Principal Researcher, Radiation Protection Team
Jang Ho Ha	Manager, Advanced Radiation Detection Instrument & Sensor Laboratory
Han Soo Kim	Senior Researcher, Advanced Radiation Detection Instrument & Sensor Laboratory
Wanno Lee	Senior Researcher, Environment Radiation Assessment Laboratory
Kyung-Won Seo	Principal Researcher, Education Management Team
<b>Korea Institute of Nuclear Safety</b>	
Yong Ho Ryu	Director, International Nuclear Safety School
Dae-Hyung Cho	Head, Radiation Protection & Safety Management Department
Chang-Kyu Kim	Principal Researcher, Living & Environment Radioactivity Assessment Laboratory
Hong-Suk Kim	Principal Researcher, Radiological Emergency & Security Preparedness Department
Dewhey Lee	Guest professor, International Nuclear Safety School
<b>Korea Institute of Radiological &amp; Medical Sciences</b>	
Seung-sook, Lee	General Director of National Radiation Emergency Medical Center
Jin Keoung Lee	Head, Bio-dosimetry Team

Wiho Ha	Head, Health Physics Team
Hyo Rak Lee	Head, Radiation Emergency Medical Service Team
Ilhan Lee	Director, Department of Nuclear Medicine
Donghan Lee	Medical Physicist, Department of Radiation Oncology
Jaehong Kim	Senior Researcher, Radiopharmaceutical Production Team
<b>Hanyang University</b>	
Jaeki Lee	Professor, Nuclear Engineering Department
Chan Hyeung Kim	Professor, Nuclear Engineering Department
<b>Ministry of Education, Science and Technology</b>	
In Ho Park	Space and Nuclear Cooperation Division

## **BACKGROUND**

In October 2010 the Korean Atomic Energy Institute (KAERI) wrote to IAEA to receive an EduTA, particularly in view of its intention to host the IAEA Postgraduate Educational Course in radiation protection and safety of radiation sources. The KAERI offered to fully support the appraisal mission.

An EduTA mission was organized from 20 to 24 June 2011 with external experts and an IAEA Technical Officer.

The principal Agency publications used as a basis for the appraisal were:

- The Education and Training Appraisal in Radiation Protection and the Safety of Radiation Sources (EduTA) (Working Material July 2008);
- The International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources (SS No. 115);
- The Safety Guide, Building Competence in Radiation Protection and the Safe Use of Radioactive Sources (RS-G-1.4);
- Safety Report, Training in Radiation Protection and the Safe Use of Radioactive Sources (SRS-20);
- Standard Syllabus Postgraduate Educational Course in Radiation Protection and then Safety of Radiation Sources (Training Course Series 18);
- Draft Syllabus for the Training of Radiation Protection Officers.

## **TERMS OF REFERENCE OF THE APPRAISAL**

The terms of reference for this appraisal were:

- To carry out an education and training appraisal mission to review the status of the provision for education and training in radiation protection, including:
  - legislative and regulatory framework with particular reference to education and training;
  - guidance material relevant to education and training;
  - the national training programme in radiation safety or similar document;
  - approved /accredited training course providers /centres and /accredited training courses, if approval/accreditation procedures/systems exist;

- annual reports from accredited training course providers/centres; recognition/approval/accreditation procedures for education and training providers;
  - courses held in the past calendar year and the numbers of participants attending;
  - list of education and training events planned;
  - the facilities used for educational and training programmes;
  - available human resource and national lecturers.
- To outline an Action Plan, together with the counterparts, to address improvements, if any, identified during the assessment.

## **CONDUCT OF THE APPRAISAL**

The Director of the Nuclear Training and Education Center (NTC) of KAERI Dr Kibog Lee welcome the EduTA team in the Headquarters of NTC in presence of the Head of the International Education Team of NTC Dr Youngmi Nam, the management, advisors, administrators and researchers of NTC, and expressed his wishes for a fruitful mission and the commitment of KAERI to host a PGEC under the auspices of the IAEA. The EduTA also paid a courtesy call on the Vice President of KAERI, Dr Seong Won Park. At the exit meeting the EduTA team met also representatives from the Ministry of Education, Science and Technology.

EduTA team was briefed with a video on the general activities of KAERI and presentations were provided by NTC staff and management about the education and training activities at NTC/KAERI, the general status for education and training in radiation protection in Korea and the relative legislative and regulatory framework.

The EduTA team generally briefed the hosts about the mission. The objectives were presented and the procedure for the conduct of the mission with its agenda was agreed.

The pre-appraisal information provided to the team was discussed in detail and additional information was requested where necessary. During the mission, numerous documents were provided to the team.

During the five day mission, the EduTA team continued discussions with the host and visited facilities/laboratories. The team visited the facilities at KAERI (Daejeon) including the HANARO research reactor, the radioisotopes production facilities (hot cell), the radiation protection services (calibration facility, dosimetric service and internal contamination laboratory), and the environmental radiation laboratories. In Daejeon the EduTA team also visited the Korean Institute of Nuclear Safety (KINS) and its facilities for education and training and the radiological emergency centre. On Wednesday the EduTA team moved to Seoul to visit the Korea Institute of Radiological and Medical Sciences (KIRAMS) with its facilities for emergency medical care, nuclear medicine, radiation oncology, and the Hanyang University where the team was received by Prof. Jai-Ki Lee, Member of the Main Committee of the International Commission on Radiological Protection (ICRP).

An exit meeting was held at NTC/KAERI to present the Appraisal Team's preliminary conclusions. The recommendations and the action plan were agreed with the local counterpart.

A full technical report with the findings, recommendatins and a work plan was provided to the mission's counterpart and the national authorities.