TELEFAX MESSAGE OAH-175-4/2010

From: Hungarian Atomic Energy Authority (HAEA) H-1539 Budapest 114, P.O.Box 676	*To:* **I A E A** IAEA Laboratories Seibersdorf, Chemistry Unit
Name: Mr. András MOLNÁR head, External Relations	*Attention:* **Ms Alessia Ceccatelli** Scientific Secretary
Fax: +361-436-4843 +361-436-4866	Date: 22 February 2010
Phone: +361-436-4862 E-Mail: haea@haea.gov.hu	*No. of pages (incl. this):* 1 + 3

P.P. Szabó

File reference: IAEA-TM-38924 Circ.

Subject: Technical Meeting on In-situ Methods for Characterization of Contaminated Sites, IAEA, Vienna, Austria, 5 - 9 July 2010

Dear Ms. Ceccatelli,

Reference is made to the Agency's letter concerning the above-mentioned Technical Meeting. I have the honour to inform you that Hungary officially nominates:

- **Mr. Károly Balázs BODOR** from the Environmental Dosimetry Service, MTA KFKI-Atomic Energy Research Institute of the Hungarian Academy of Sciences - AEKI (Postal address: H-1525 Budapest 114, P.O.Box 49, Hungary, Telephone: **+361-392-2222/1169**, Telefax: **+361-395-9293**, E-mail: **bodor@aeki.kfki.hu**, URL: **www.kfki.hu**)

to take part in the above mentioned Technical Meeting. He intends to submit a paper entitled to "*Measurements with the Mobile laboratory of the Atomic Energy Research Institute*". Please find enclosed hereby his "*Participation Form*". It would be highly appreciated if the Agency could support his participation by providing financial assistance for him.

Yours sincerely,

ORSZÁGOS ATOMENERGIA HIVATAL -2-

András Molnár

Encl.

FAX_NENP_TM_42

IAEA
International Atomic Energy Agency

Form A
F1-TM-38924

Participation Form

IAEA Technical Meeting on
***In-situ* Methods for Characterization of Contaminated Sites**

5 – 9 July 2010
IAEA Headquarters, Vienna, Austria

To be sent to the competent official authority (Ministry of Foreign Affairs, national atomic energy authority) for transmission to the International Atomic Energy Agency, Vienna International Centre, Wagramer Strasse 5, P.O. Box 100, A-1400 Vienna, Austria (Telefax No. +43 1 26007)

Family name: **Bodor**	Given name(s): **Károly Balázs**	Mr/Ms **Mr.**
Institution: **Hungarian Academy of Sciences KFKI Atomic Energy Research Institute**	Full address: **Konkoly Thege Miklós street 29-33** **H-1121, Budapest** **Hungary**	
	For urgent communications please indicate: Telephone No.: **+36-1-392-2222/1169** Telefax No.: **+36-1-395-9293** Email address: **bodor@aeki.kfki.hu**	
Nationality: **Hungarian**	Designating government or organization: **Hungarian Atomic Energy Authority (HAEA)**	
Mailing address (if different from address indicated above): **H-1525 Budapest 114, P.O.Box 49, Hungary**		

Title of paper: **Measurements with the Mobile laboratory of the Atomic Energy Research Institute**

IAEA
International Atomic Energy Agency

FORM B

IAEA-TM-38924

IAEA Technical Meeting on *In-situ* Methods for Characterization of Contaminated Sites

05 – 09 July 2010

IAEA Headquarters, Vienna, Austria

FORM FOR SUBMISSION OF A PAPER

TITLE OF THE PAPER:

AUTHOR(S) INITIAL(S) AND FAMILY NAME(S)	SCIENTIFIC ESTABLISHMENT(S) IN WHICH THE WORK HAS BEEN CARRIED OUT	COUNTRY
1.KÁROLY BODOR	Hungarian Academy of Sciences KFKI Atomic Energy Research Institute	HUNGARY
2.		
3.		
4.		

AUTHOR WHO WILL PRESENT THE PAPER: Károly Bodor	Mailing Address: Konkoly Thege M. street 29-33 1121, Budapest Hungary
Mr./Ms. Mr.	
Initial(s): Károly	
Family Name: Bodor	Phone No.:+36-1-392-2222/1169 Fax No.:+36-1-395-9293 E-Mail Address : bodor@aeki.kfki.hu

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Date: 2010-02-09

Bodor Károly
(Signature of Main Author)

To be sent to: Ms. Alessia Ceccatelli
International Atomic Energy Agency
P.O. Box 100
A-1400 Vienna, Austria
Fax: +431-2600 28222
Email: A.Ceccatelli@iaea.org

Presentation abstract

Technical Meeting on In-situ Methods for Characterization of Contaminated Sites

5 to 9 July 2010
Vienna, Austria

Presentation title:

Measurements with the Mobile laboratory of the Atomic Energy Research Institute

Presenter:

Mr. Károly Bodor
Hungarian Academy of Sciences KFKI Atomic Energy Research Institute

In the presentation the following topics will be reviewed:

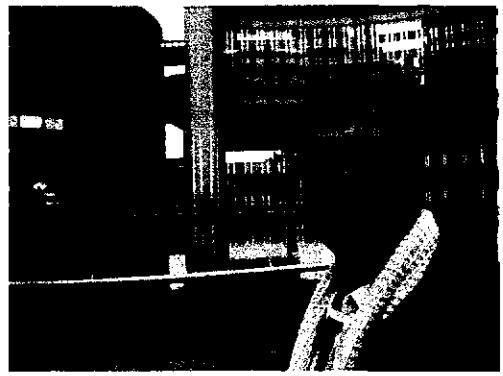
- Route monitoring
- The latest on line route monitoring development
- Dose rate measurements
- Sample (soil, plant, liquid) assay with gamma spectrometry
- In-situ gamma spectrometry
- Atmospheric radioactive concentration measurements
- Personal dosimetry
- Measurements with the nanoSPEC instrument (A handheld gamma spectroscopy system)
- Lost radioactive source exploration exercise in the KFKI campus
- Calibration & angle dependence determination of the BNS 98 dose rate meter
- Efficiency determination of the In-situ gammaspectrometer
- In – situ radioactive Iodine measurements in the human thyroid gland
- Determination of the NORM contamination of the Hungarian Coal Power Plants in the environment

Work abstract

Technical Meeting on In-situ Methods for Characterization of Contaminated Sites

5 to 9 July 2010
Vienna, Austria

My name is Károly Bodor. I work for the Hungarian Academy of Sciences KFKI Atomic Energy Research Institute. I'm the commander of the mobile laboratory.



My scope of activities:

Characterization of Contaminated Sites:

- Near the KFKI campus every two year the radioactive contamination are determined with the equipments of the mobile laboratory
- Near the Hungarian Coal Power Plants the NORM contamination was determined in 2009

Calibration of the equipments of the mobile laboratory:

- Calibration & angle dependence determination of the BNS 98 dose rate meter
- Efficiency determination of the In-situ gammaspectrometer

Environmental monitoring methods:

- Route monitoring
- Dose rate measurements
- Measurements with the nanoSPEC instrument (A handheld gamma spectroscopy system)
- In-situ gamma spectrometry

Emergency exercises:

- Lost radioactive source exploration exercise in the KFKI campus

Sampling:

- Soil, plant & liquid assay with gamma spectrometry
- Atmospheric radioactive concentration measurements

Other:

- Personal dosimetry
- In – situ radioactive Iodine measurements in the human thyroid gland

Developments:

- The latest on line route monitoring development:

A new central environment control system has been developed at the Environmental Protection Service (EPS). One of the goals of this development is to simultaneously display the BNS 98 dose rate meter data and the data provided by the non-mobile stations. This development is made possible by a wireless internet connection between the main server and the Mobile laboratory. The main task of the Mobile laboratory is to locate and identify radioactive sources in case a radioactive material is lost or an emergency situation occurs. With the help of this new complex environment control system wirelessly connected to the BNS 98 dose rate meter of the Mobile laboratory the route and measured data of the Mobile laboratory will be traceable on the main screen of the EPS. This development will be able to extend to Hungary.