Institute for Nuclear Research and Nuclear Energy BEO Centre of Excellence

BEOBAL FP6 project Small portable devices training seminar

"In situ measurements for complex environmental monitoring using portable equipment "

27 Feb 2006, 9h00, Hall 300, INRNE

<u>A. von Zweidorf</u> ITU (DG JRC), Karlsruhe, Germany

<u>B.Vachev, M.Gelev</u> INRNE, BAS, Bulgaria

14h00, Hall 300, <u>A. Strerzov</u> INRNE, BAS, Sofia, Bulgaria

28 Feb 2006, 9h00, Hall 300 <u>Ts. Dachev</u> CLSTR, BAS, Sofia, Bulgaria

14h00, Hall 300

In situ environment radioactivity measurements basic ideas and principles. New and untraditional applications.

Consequences of a terrorist attack with a Radiological Dispersal Device ("Dirty Bomb"). Characterisation of the dispersion of radioactive and nuclear material using a complex model for the prediction of consequences related to population, environment and infrastructure. An overview about recent JRC/ITU activities.

Some INRNE activities in the field of Radiological Dispersal Device ("Dirty Bomb")

Mobile nuclide identification techniques application for gamma-spectroscopic analysis of seized nuclear and radioactive materials. Gamma Detective (portable high purity Germanium detector) demonstration in seminar room.

"Liulin" portable device – High Altitude and Latitude ground based and Air/Space applications (High Altitude Research Stations Jungfraueuch and Gornegrad, ALOMAR and BEO observatories, transcontinental air jets, spaceships, space stations and satellites)

BEO Centre of Excellence and BEO Integrated Environmental Centre in situ measurements – applications of small portable devices. Round discussion.

Small devices seminar is organised in the framework of INRNE BEOBAL FP6 EC project INCO-CT-2005-016663

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