

INTERNATIONAL WORKSHOP

on

“Applications of the Ionising-Radiations to Industry, Health and Environment” “IWIRAD 2005”

Monday, June 20, 2005

8:15-9:00	Registration: Hotel Capitol - București, str. Calea Victoriei 29 - Conference Hall
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Opening Session

Chairperson: Dr. Nicolae V. Zamfir (IFIN-HH, Romania)

9:00- 9:40	<p>◆ Welcome . The meeting objectives. Emanuela Cincu - Workshop Director (IFIN-HH)</p> <p>◆ Opening Remarks: Nicolae Victor Zamfir - Director General, IFIN HH - the Organizing Institute</p> <p>Olivia Comsa - Ministry of Education & Research, Director - Div. of European Integration Message on behalf of Prof. Dr. Anton Anton - the State Secretary (Romania)</p> <p>Anton Coroianu – CNCAN*, Director, Division of the Ionising Radiation (Romania)</p> <p>Peter Bode – Head, NAA Laboratory, IRI TU Delft, IAEA Expert (The Netherlands)</p> <p>Teodor Chirică - Director General, SN Nuclearelectrica SA (Romania)</p> <p>Ulrich Wiener – President, Romanian Commission for Accreditation (Romania)</p>
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*CNCAN : National Commission for Control of Nuclear Activities

Session 1 : Quality Requirements in Measurements

Chairperson: Prof. Dr. Ulrich Wiener (Romania)

9:40-10:05	<p>◆ Key conditions to get a high quality in measurements according to international Standards and EU requirements Ionel Urdea Marcus (National Institute of Metrology, Romania)</p>
10:05 -10:30	<p>◆ Capacity building in QA/QC supported by the IAEA. Recent and running TC projects on QA/QC. Nuclear Analytical Laboratories with Accreditation and Quality Systems. Peter Bode (The Netherlands)</p>
10:30-11:00	Coffee Break

Session 2: Continuation

Chairpersons: Dr. Maria Sahagia & Dr. Leon Grigorescu (Romania)

11:00-11:25	<p>◆ On the Role of Proficiency Testing Schemes in Laboratory Accreditation Peter Bode (The Netherlands)</p>
11:25-11:50	<p>◆ Role of RENAR and the Ministry of Research in Promoting Interlaboratory Comparisons (ILCs). Daniela Eugenia Cucu (RENAR - Romania)</p>
11:50-12:15	<p>◆ The ‘English Model’ – a model to follow in Romania. A short presentation of some tools employed in UK in the nuclear field, which contribute to creation of an unitary Measurement System in the whole country, and –based on research- have a high impact and usefulness in the country industry, trade and development (from the NPL website) Em. Cincu (IFIN-HH, Romania)</p>
12:15-12:20	Secretariat : Announcements on upcoming Exhibition and Forum
12:20-14:00	Lunch Break

**Session 3: Accreditation and participation in ILC's and PT's exercises
in the field of Ionising Radiation Measurement in Romania**

Chairperson: Drd. Daniela Cucu (RENAR)

14:00-14:35	<p><u>IFIN – HH</u></p> <ul style="list-style-type: none"> ◆ <i>Accreditation of the “ACTIVA-N” Laboratory and participation in ILC's and PT's exercises</i> <u>Em. Cincu, Ioana Manea</u>, Manu Valentin, Sibila Brancovici, Alexandru Rusu ◆ <i>Accreditation of the Radionuclide Metrology Laboratory</i> <u>Maria Sahagia</u>, A.C. Razdolescu, Aurel Luca, Sibila Brancovici ◆ <i>Role of the Radionuclide Metrology Laboratory in organization of the Interlaboratory Comparisons for measurement of activity (Becquerel)</i> Maria Sahagia, <u>Anamaria Cristina Razdolescu</u>
14:35- 14:50	<p><u>Other Institutes</u></p> <ul style="list-style-type: none"> ◆ <i>Coincidence -summing in Gamma -ray spectrometry. IEC Standard 1452:1995 Standard. GESPECOR software</i> <u>Octavian Sima</u> (Univ. of Bucharest)
14:50- 15:30	<ul style="list-style-type: none"> ◆ <i>CERNAVODA NPP Environmental Laboratory</i> <u>Bucur Cristina</u> (NPP, Cernavoda) ◆ <i>High Resolution Gamma-Ray Spectrometry and Neutron Activation Analysis Laboratory</i> <u>Dumitru Bărbos, Constantin Păunoiu</u> (INR –Pitesti) <p>..... * Nuclear Power Plant Cernavoda</p>
15:30 – 16:00	<p>Exhibition – Offers of Products, Equipment and Service and Training</p> <ul style="list-style-type: none"> • <i>Radioactive sources for equipment and activity calibration</i> <u>Maria Sahagia</u> (IFIN-HH) • <i>Equipments and service</i> <u>Dr. Alexandru Drucker</u> (MECRO SYSTEM Ltd. Co.)
16:00 -16:30	Coffee Break. <i>Visit of Exhibition, discussion with Labs./Company representatives</i>

Session 4: Continuation

Chairpersons: Dr. Em. Cincu, Dr. Maria Sahagia, Eng. Sibila Brancovici (IFIN-HH)

16:30-18:00	<ul style="list-style-type: none"> ◆ <i>Status of performance in Nuclear Laboratories from Romania. ‘Problems and needs’</i> • <i>Plans for organizing national ILC schemes in 2006</i> <u>Em. Cincu</u> and <u>Maria Sahagia</u> • <i>Implementation of the QM/QC requirements in the laboratory activity</i> <u>Sibila Brancovici</u> • <i>Training courses in Applications of Nuclear Techniques and Ionising Radiation</i> <u>Camelia Avădanei</u> (the Training Center CPSCDN) • <i>Strategy of Education and Training in Romania concerning use /applications of the ionising nuclear radiation (in Romanian)</i> <u>Niculae Ghiordănescu, Camelia Avădanei</u> (the Training Center CPSCDN) • <i>Romanian Portal for Nuclear Education and Training</i> <u>Camelia Avădanei, Olivia Comșa, Niculae Ghiordănescu, M. V. Paraschiva, C. Mircioiu</u> (Univ. of Bucharest) <p>◆ <i>About the usefulness of a Forum of Nuclear Analysts in Romania – the first attempt to identify common activities for nuclear analysts in Romania following the ‘English Model’, aiming at helping harmonization of our works with international Standard requirements.</i></p> <p><u>Free discussion - all participants involved</u></p>
18:00	Cocktail Party

Tuesday, June 21 2005

Applications of Nuclear Analytical Techniques (Part I)

Session 5 : Chairperson- Dr. Peter Vermaercke (Belgium)

8:45 - 9:25	♦ <i>Commercial opportunities for Nuclear Analytical Techniques</i> Dr. Peter Bode (The Netherlands)
9:25 – 9:55	♦ <i>Performance of the analytical techniques employed in characterization and certification of stainless steel materials</i> Dr. Ingemar Gustavsson (Sweden)
10:00 - 10:25	♦ <i>Epithermal INAA for determination of iodine in food samples</i> Dr. Peter Vermaercke (Belgium)
10:30-11:00	<i>Coffee Break</i>

Session 6: Applications of Nuclear Analytical Techniques (Part II - NAA)

Chairperson: Dr. Peter Bode (The Netherlands)

11:00 - 11:15	♦ <i><u>NAA Applications at the INCT</u></i> (Poland) Dr. Halina Polkowska - Motrenko
11:15- 11:30	♦ <i><u>NAA at the Radiochemical Laboratory, Institute of Nuclear Techniques Budapest University of Technology and Economics</u></i> (Hungary) <u>Nora Vajda</u>, Zsuzsanna Molnár, M. Balla, D. Bódizs
11:30- 12:30	♦ <i><u>NAA Applications in Romania</u></i> ♦ <i>Neutron activation analysis on slurry resulted from waste water conditioning</i> <u>Dumitru Barbos</u>, Constantin Paunoiu (INR) ♦ <i>Nuclear Analytical Techniques applied to Element Analysis of the Danube Delta Lacustrine Sediments and Soil</i> Lucreția C. Dinescu (IFIN-HH) ♦ <i>Gamma Spectrometry and NAA used in Pharmaceutical products quality control</i> Cătălina Câmpeanu (IFIN-HH) ♦ <i>Experience of using neutron activation analysis on mineral and biological samples: environmental and medical studies.</i> Ana Pantelică (IFIN-HH)
12:30- 14:00	<i>Lunch Break</i>

Session 7: Round table - PT Exercise on Stainless Steel by INAA

Chairpersons: Dr. Ingemar Gustavsson & Prof. Dr. Octavian Sima

14:00 -16:00	♦ <i><u>NAA European network - Applications on the Swedish Stainless Steel SS-1 . IFIN-HH (NIPNE) Report on Inter-Laboratory Comparison of elemental composition in Stainless Steel SS 1 determined by Laboratories from Belgium, Hungary, Poland and Romania using the INAA analytical technique</u></i> <i>Part I: Report on results by comparison with the SIMR (KIMAB) reference values</i> <u>Em. Cincu, Ioana Manea</u> (IFIN-HH) <i>Part II : Statistical interpretation of results on SSI Stainless Steel measurements</i> <u>Octavian Sima</u> (Univ. of Bucharest) ♦ <i>Keeping under control the INAA uncertainty sources. Free discussion.</i> Dr. P. Vermaercke, Dr. P. Bode, Dr. H.Polkowska - Motrenko, Dr. Nora Vajda, Dr. Dumitru Barbos, and Dr. Emanuela Cincu
16:30 – 17:00	<i>Coffee Break</i>

Session 8: Closing the Workshop**Chairpersons: Dr. Peter Bode & Dr. Em. Cincu**

17:00 – 17:30	◆ <i>Closing Remarks - General discussion</i>
17:30 – 18:00	◆ <i>Summary of the Workshop</i>