

Workshop
on
Nuclear Analytical Methods and Applications
“NAMA 2010”

Bucharest, Romania, November 3-4, 2010


Tuesday, November 2, 2010

17:00 – 19:00	Registration: Hotel IBIS - Palatul Parlamentului, Strada Izvor, Nr. 82-84
20:00	<i>Welcome party:</i> Hotel IBIS

Wednesday, November 3, 2010


6:30 – 7:30	<i>Breakfast:</i> Hotel IBIS
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Morning session

8:30 – 9:00	Registration: Faculty of Physics
9:00 – 9:30	Alexandru Jipa, Cristina Oprea, Alexandru Mihul - Opening of the Workshop
 Methodological aspects: Chairpersons: Prof Tatiana Angelescu, Dr. Georg Steinhauser	
9:30 – 10:00	Georg Steinhauser (Vienna University of Technology) - " Neutron Absorption Activation Analysis "

10:00 - 10:30	Angela Vasilescu (NIPNE-HH) - “Analytical techniques in the NIPNE Applied Nuclear Physics Department: developments, current and future applications”
10:30 – 11:00	Octavian Sima (University of Bucharest) - "Progress in modeling detection efficiency in gamma ray spectrometry"
11:00 – 11:30	<i>Coffee break</i>
11:30 – 12:00	Rares Suvaila (University of Bucharest) - “Paleodose evaluation using gamma ray spectra analysis”
12:00 – 12:30	Elena Stancu (University of Bucharest) - “On homogeneity of volume sources in gamma ray spectrometry”
12:30 – 13:00	Oleg D. Maslov (FLNR, JINR) - “New advances in photon activation analysis methodology”
13:00 – 14:30	<i>Lunch (Faculty of Physics pub, by TravelBiz Agency)</i>

Afternoon session

 Material sciences: Chairpersons: Dr. Melissa Anne Denecke, Dr. Johannes Sterba	
14:30 – 15:00	Johanes Sterba (Vienna University of Technology) – “NAA in experimental Archaeology”
15:00 – 15:30	Melissa Anne Denecke (INE - FZK Karlsruhe) - “Application of X-ray spectroscopy methods at ANKA to issues concerning nuclear waste disposal”
15:30 – 16:00	Atanas I. Velichkov (DLNP, JINR) - “TDPAC method in condensed matter science”
16:00 – 16:30	<i>Coffee break</i>
16:30 – 17:00	Zhaohui Song (FLNP, JINR) – “Analyzing the linear responses of inorganic crystals exposed to high dose rate by Lissajous figures”



17:00 – 17:30	Dmitri Filossofov (DLNP, JINR) - ”The PAC studies of water solutions physicochemical organization at temperature below 0⁰C”
18:00 – 19:00	Scientific committee meeting
19:30	<i>Gala dinner: <u>Restaurant “Caru’ cu bere”</u></i>

Thursday, November 4, 2010

6:30 – 7:30	<i>Breakfast: Hotel IBIS</i>
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Morning session

Applications in agriculture, medicine and pollution problems: Chairpersons: Dr. Song Zhaohui, Dr. Cosma Constantin	
8:30 – 9:00	Constantin Cosma (University in Oradea) - “Natural radioactivity - Implications in life and earth sciences”
9:00 - 9:30	Cristiana Oprea (FLNP, JINR) - “Activation analysis methods applied for traceability of pollution trends. Biomonitoring approach”
9:30 – 10:00	Marina V. Gustova (FLNR, JINR) – “Researches of microelemental contents of tomatoes resistant to ‘root-knot’ nematodes by X-Ray fluorescence analysis”
10:00 – 10:30	Ioan Alexandru Oprea (FLNP, JINR) – “PCA based neural network used in interpretation of data sets obtained in multielemental analytical measurements”
10:30 – 11:00	Carmen Varlaam (ICSI, Rimnicu Vilcea) – “Low level tritium measurements in environmental water sampoles by liquid scintillation counting”
11:00 – 11:30	<i>Coffee break</i>

11:30 – 12:00	<p style="text-align: center;"> Poster session:</p> <ul style="list-style-type: none"> ✘ Anatoly G. Belov (FLNR, JINR) – <i>Microtron MT-25</i> ✘ Cristiana Oprea (FLNP, JINR) – <i>Microanalysis investigations of human teeth</i> ✘ Pavel V. Sedyshev (FLNP, JINR) - <i>On the possibility of use of the neutron spectroscopy methods for elemental/isotopic analysis at IREN</i> ✘ Oleg D. Maslov (FLNR, JINR) - <i>“New advances in photon activation analysis methodology”</i> ✘ Ioan Stefanescu, Marian Curuia (ICSI RO) - <i>Vacuum technology by ICSI employed at the reactor IBR-2</i> ✘ Mirela Niculescu (Craiova University) - <i>XRF of medicinal herbs of Bucegi Mountains</i> ✘ Alecsandru Chiroasca (Dept of Nuclear Physics, UB) - <i>Radiological Protection Research Center</i> ✘ Mariana Nicolescu (Valahia University) - <i>Neural network modeling of elemental content in human biosubstrata</i> ✘ Constantin Cosma (Babes-Bolyai University) - <i>Estimation of environmental radionuclide concentration in soils, a comparison of high resolution gamma spectrometry, alpha spectrometry and instrumental neutron activation methods</i> ✘ Sanda Filip (University in Oradea) - <i>Monitoring of atmospheric pollution in Transylvania regions. Public health and risk factors</i> ✘ Silvia Coroian (IOCN Cluj-Napoca) - <i>Elemental content of herbal tea used in treatment of several diseases</i>
12:00 – 12:30	<p style="text-align: center;"> Round table</p>
12:30 – 13:30	<p><i>Lunch (Faculty of Physics pub, by TravelBiz Agency)</i></p>
13:30 – 17:30	<p><i>Excursion (Bucharest tour by bus and visit of Village Museum by TravelBiz Agency)</i></p>
17:30	<p>Closing of the Workshop</p>