

2nd INTERNATIONAL WORKSHOP

"NUCLEAR PT - 2007"

on

*„Applications of the Ionizing Radiation
& Nuclear Analytical Techniques
in
Industry, Health & Environment
at High Performance”*

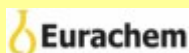
*Proficiency Testing for...
Performance & Excellence*

October (6)7 - 9, 2007, Bucharest – Romania

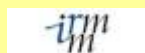
Organized by - "Horia Hulubei" National Institute for Physics &
Nuclear Engineering IFIN-HH, Bucharest - ROMANIA

Endorsed by: RENAR, MEdC- ANCS, Rom Nuclear Agency,
CNCAN, National Institute for Metrology

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Site address: <http://nuclearpt-2007.nipne.ro>

GENERAL INFORMATION

Workshop objectives

☒ The public credibility of the scientific community's results and the quality of products & services on the European/international market depend critically on the ability to demonstrate the accuracy and integrity of measurements. 'Proficiency Testing' plays a central role in this process as the *best tool* that can assure *Credibility* by proving *Competence* and *Testing Performance*.

☒ The *first Workshop on Proficiency Testing (PT)* in the field of *Nuclear Applications* is primarily intended as a 'School in PT', since it will provide an opportunity for clarifying aspects concerning the criteria for evaluating performance and interpreting experimental results with experts involved in the development of International and National Standards and organization of international Inter-Laboratory Comparison (ILC) and Proficiency Testing (PT) exercises.

☒ The main objective of our Workshop is to help people learn the basic aspects in theory and practice, researchers and analysts from nuclear laboratories involved in routine applications.

☒ The 'Nuclear PT' meeting is a unique opportunity for learning 'how to fit' the laboratory's performance objectives with the **rigor** of international 'Proficiency Testing' evaluation.

☒ Special talks will focus on **C**ertified **R**eference **M**aterials, and other talks will address the issue of personnel competence, which Standard 17025 regards as a crucial factor for assuring the high quality of results.

☒ The **Workshop on 'Nuclear PT'** is a framework for participants to present their latest results and developments related to proving performance.

*The time for learning about performance
is NOW!*

Topics and fields of interest

- ☒ Theory: Principles & requirements for Testing Performance
 - Approaches according to the ISO standards and guides
 - Fitness – for - purpose statistical quantities & criteria for evaluating results from ILC/ PT exercises
- ☒ Radionuclide metrology supporting high quality performance in applications of the Ionising Radiation (IR) and Nuclear Analytical Techniques (NAT)
- ☒ Use of CRMs to prove Laboratory performance
- ☒ Experimental results from ILC /PT exercises in IR and NAT applications, envisaging: environmental, water & food analysis, materials analysis, radiation Dosimetry
- ☒ Performance based on PT of methods, equipment and personnel in nuclear analytical laboratories.

Fields of interest:

- ◆ *radionuclide metrology,*
- ◆ *gamma - ray spectrometry,*
- ◆ *Neutron Activation Analysis,*
- ◆ *ionizing radiation dosimetry,*
- ◆ *beta- and alpha - ray spectrometry,*
- ◆ *XRF spectrometry,*
- ◆ *applications of other nuclear techniques*

Scientific Advisory Committee

Invited lecturers

Mike Woods	-	President	(UK, ICRM & IRMC)
Mike Thompson			(Birkbeck College -University London, United Kingdom)
Umberto Sansone			(IAEA-Seibersdorf Labs, Austria)
Abdulghani Shakhshiro			(IAEA - Seibersdorf Labs., Austria)
Uwe Waetjen			(JRC – IRMM, Belgium)
Peter Bode			(TU Delft, The Netherlands)
Brian Brookman			(LGC, United Kingdom)
Peter Vermaercke			(SCK- CEN, Belgium)
Tony H.L. Aalbers			(EUROMET, The Netherlands)
Fanel Iacobescu			(RENAR- Romania)
Daniela Cucu			(RENAR, Romania)
Halina Polkowska -Motrenko			(INCT- Poland)
Em. Cincu			(IFIN-HH, Romania)
Maria Sahagia			(IFIN-HH, Romania)
Octavian Sima			(University of Bucharest)
Kaj Heydorn			(TU, Denmark)
Zeev Alfassi			(Ben Gurion University, Dept of Bio-medical Engineering, Israel)

Local Organizing Committee (Full team)

Phys. Olivia Comsa	-	President	EURATOM Counsellor, National Authority for Scientific Research, Department of European Integration & International Cooperation
Dr. Emanuela Cincu			Workshop Director (IFIN-HH, ,ACTIVA-N' Laboratory)
Drd. Ioana Manea			Workshop Secretary (IFIN-HH, ,ACTIVA-N' Laboratory)
Ec. Alexandra Olteanu			Financial Manager of IFIN-HH
Eng. Sibila Brancovici			(IFIN-HH, Head, QA Department)
As. Mariana Cristofan			(IFIN-HH, ,ACTIVA-N' Laboratory)
Eng. Ioan Lucian Cazan			(IFIN-HH, ,ACTIVA-N' Laboratory)
As. Luminita Mischie			(IFIN-HH, QA Department)
As. Mihaela Zodila			(IFIN-HH, Marketing)
Drd. Carmen Cristache			(IFIN-HH, Waste Department)
Drd. Magdalena Toma			(IFIN-HH, Waste Department)
Webmaster,			(IFIN-HH, Dept. of Information Technology & Communications)
Laurentiu Serban			
Designer, Adrian Socolov			(IFIN-HH, Editorial Department)
Editor, Margareta Oancea			(IFIN-HH, Editorial Department)

Abstracts and Papers Instructions

The Abstract must be submitted electronically in PDF format or Word format, according to the instructions below (**Abstract Instructions**).

The Abstract will be prepared/ presented according to the following conditions: 3cm to the upper, left and bottom margins, and 2.5 cm to the right margin (gutter 0).

Title: Arial 14, bolded and first letter of the important words will be capitalized.
After a single free line, the Authors names will be indicated in Arial 12 bolded, and the name of the main author will be underlined and his e-mail address will be indicated as a footnote.

After another free line spacing the **Affiliation** will be detailed using the italic Times New Roman 11. The Abstract body will start at 4 cm length and will be written as 12 Times New Roman normal font, single spaced.

The text body will be restricted to 400 words, or at the 20 cm length on page.

The Abstract content will comprise (as a guide) the following items: **Objective(s)**, **Experimental Method(s)** employed, **Results**, **Conclusions**, and **References**.

Every paragraph will be marked by 3 free spaces before the first letter. In case the Abstract includes figures / pictures, one may use the entire page in the same format. Finally, the body text will be justified.

Persons submitting an Abstract must accept the deadline conditions, and decisions of the 'Nuclear PT' Program Committee.

All submitters of Abstracts are to attend the meeting. If an emergency arises and the presenter is unable to attend, he/she should notify the 'Nuclear PT' Secretariat in writing prior to the meeting that he/she is withdrawing the abstract or naming a substitute presenter, who must be a co-author.

All participants are highly advised and encouraged to use the on-line Abstract submission procedure is opened on this web-site at the address

[<activa-n@nipne.ro>](mailto:activa-n@nipne.ro)

Proceedings

The Workshop Proceedings will be published by the experienced American Institute of Physics {<http://proceedings.aip.org>} which has a long tradition in publishing Proceedings of many, various Scientific Conferences, Symposia, Workshops. By consequence, the papers have to comply with the ethical standards of AIP, as described at:

<http://www.aip.org/pubservs/ethics.html>, and with the specific Instructions for Authors, which may be found at the mentioned address; after signing the Contract, the AIP rules will be here detailed explicitly, as well as other necessary information.

The price per-copy was agreed 26 USD (approx. 20 Euro)

The authors instructions for publication may be found at:

www.aip.org/proceedings/

Registration - Important dates:

Abstract submission and Registration	July 30, 2007	Participants
Acceptance of works (oral or poster presentation)	August 15, 2007	Organizers
2nd Circular and Notification to Authors and Preliminary Agenda	August 25, 2007	Organizers
3rd Circular - Final announcements	September 10 - 15, 2007	Organizers

Registration fee

	Before May 20, 2007	After May 20, 2007 *
Regular participant	320 EUR	420 EUR *
Student *	170 EUR	270 EUR *
Accompanying person	150 EUR	250 EUR *

*Take **contact** with us ! You may have **facilities** for payment !

* An official recommendation of the Univ. leadership is obligatory

The fee includes:

- ◆ Admission to all sessions ,
- ◆ Morning and afternoon coffee breaks,
- ◆ Participation to the 'Welcome Party',
- ◆ Workshop Dinner,
- ◆ Participation in some social events,
- ◆ Participation Diploma.

The opening session will take place on October 6 in the afternoon. Authors must attend the **W.** location, register their names, receive a copy of the **Workshop Program** and **Book of Abstracts** and present their accepted paper and ppt presentation, or poster}. The Registration fee should be sent to the: Romanian Commercial Bank from Bucharest, BCR Unirii, Account no: **IBAN RO80 RNCB008 2044 1736 10007**, for Workshop Nuclear PT.

Take contact with us, URGENTLY !

Venue

The **International Workshop 'Nuclear PT'** will be held in the I. L. Caragiale Conference Hall of the new Hotel **'Ramada Majestic' (2003)**, is located in the heart of the city, in the nice small square of the ODEON Theatre.

Our partner **'DOMINO TRAVEL AGENCY'** will offer special, advantageous rates for participants to the Workshop; in this regard it is necessary to **send your request to the address: www.nuclearpt2007.dominotravel.ro** , or to the Agency e-mail address < **nuclearpt2007@dominotravel.ro**>.



Hotel 'Ramada Majestic' - Bucharest

Contact

"Horia Hulubei" National Institute for Physics and Nuclear Engineering IFIN-HH,
Bucharest, Str. Atomistilor 407, Magurele, jud. Ilfov,
P.O.Box MG-6, code R-077125
Tel. : (+40 21) 404.23.00,
Fax : (+40 21) 457.44.32 / 457.44.40

Applied Nuclear Physics Department
'ACTIVA-N' Laboratory
Tel. : (+40 21) 404.23.73

Dr. Em. Cincu - Workshop Director
Drd. Ioana Manea - Workshop Secretary

E-mail: activa-n@nipne.ro

