

Denumire proiect: „Centru de Competență în Caracterizarea Materialelor prin Tehnologii Nucleare și noi Instrumente Analitice de nivel European pentru aplicații IMS (Industrie, Mediu, Sănătate)”

Acronim: **New -Teh IMS**

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Director proiect: **Dr. Emanuela Cincu**

Lucrari publicate in cadrul proiectului (2007 – 2009)

- 1/ **Application of the INAA technique for elemental analysis of metallic biomaterials used in dentistry**
Autori: Em Cincu, L. Craciun, Ioana Manea–Grigore, I.L. Cazan, V. Manu, D. Barbos, A. Cocis
Applied Radiation and Isotopes Vol. 67 (2009) 2133–2136
- 2/ **A possible tool for checking errors in the INAA results, based on Neutron Data and Method Validation**
Autori: Em. Cincu, Ioana Manea, D. Barbos, I. L. Cazan, V. Manu.
AIP Conf. Proceedings on „Nuclear Proficiency Testing”, **Vol 1036**, pg. (67-81), New York, September 2008, ISBN 978-0-7354-0560-8, ISSN 0094-243X
- 3/ **The Prompt Gamma Neutron Activation Analysis Facility at ICN- Pitesti,**
Autori: D.Barbos, C.Paunoiu, M.Mladin, C. Cosma Nuclear Proficiency Testing Book Series:
AIP Conf. Proceedings on „Nuclear Proficiency Testing”, **Vol 1036**, pg. (180- 185), New York, September 2008, ISBN 978-0-7354-0560-8, ISSN 0094-243X
- 4/ **Holmium-loaded PLLA nanoparticles for intratumoral radiotherapy via the TMT technique: Preparation, characterization and stability evaluation after neutron irradiation**
Autori: M.Hamoudeh, H.Fessi, H. Salim, D. Barbos;
Drug Development and Industrial Pharmacy, Volume 34, Issue 8, August 2008 (796 – 806)
- 5/ **Proficiency Testing in Applications of Ionizing Radiation. Examples from practice in Romania**
Autori: Em. Cincu, Mike Woods.
Conference Proceedings, ed. CEPROCIIM București, (2007) 73 – 81, ISBN 978-973-8132-65-8
- 6/ **Comparative Performance of Nuclear INAA and other Spectroscopy Techniques in the Elemental Analysis of Stainless Steel Materials**
Autori: Em. Cincu, Ioana Manea, V. Manu, D. Barbos, O. Sima, I. Gustavsson, P. Vermaercke, Nora Vajda, Zsuzsanna Molnar, Halina Polkowska –Motrenko,
J.Radioanal. Nucl. Chem., Vol. 274, No.1 (2007) 199 – 205
- 7/ **The advantageous way in getting the lowest uncertainty values of elemental concentration by INAA**
Autori: Em. Cincu, D. Barbos, Ioana Manea, V. Manu
J.Radioanal. Nucl. Chem., 271, Vol. No. 3 (2007) 655-663

Comunicari stiintifice in cadrul proiectului

- 1/ **Metrology Requirements for Accurate Elemental Analysis by INAA at Low–Level Concentrations**
Autori: Em. Cincu, M. Woods, D. Barbos, C. Paunoiu, Ioana Manea Grigore, I. L.Cazan, K. Heydorn
In „The Second International Proficiency Testing Conference (PT-Conf 2009), 15-18 September 2009, Sibiu, Romania (oral communication); in pregatire pentru publicare.
- 2/ **The Best performance of a Laboratory taking part in International Proficiency Testing exercises.**
Autori: Em. Cincu, Ioana Manea Grigore, Mihaela Marica, I. L. Cazan, V. Manu.
In „The 6th Eurachem Workshop on Proficiency Testing in Analytical Chemistry, Microbiology and Laboratory Medicine. Current Practice and Future Directions, 5-7 October 2008, Roma, Italia.

ALTE REZULTATE:

- 1/ **Initiere & Organizare si Editare Proceedings Workshop International “Nuclear Proficiency Testing -2007”**
{*Tematică nouă / premiera mondială în domeniul nuclear* }
„Application of the Ionizing radiation and Nuclear Analytical Techniques in Industry, Health and Environment at High Performance”, 6-9 October, 2007, București, România (<http://nuclearpt-2007.nipne.ro>)
- 2/ **Proceed. Editors:** CINCU Emanuela -Chief Editor, Ioana MANEA(GRIGORE) –Editor, Mike WOODS (UK)
–Guest Editor

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