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## **DATE PERSONALE**

privind activitatea științifică și didactică în anul 2013

### **Volume editate sub coordonare, publicate prin edituri centrale (1):**

1. **I. SANDU** (editor), **Scientific, Technological and Innovative Research in Current European Context** (Euroinvent, International Workshop), Alexandru Ioan Cuza University Publishing House, (ISBN: 978 - 973 - 703 - 891 - 3), 2013, 276p. FIN = 2.76x0,05/1 = 1,380;

### **Lucrări științifice publicate (97):**

#### **a. Lucrări publicate în reviste de specialitate cu factor de impact ISI (30)**

1. D. DANA, I.G. SANDU, P. VIZUREANU, **I. SANDU**, *Study on the Corrosion Resistance of Welded-Brazed Joints*, **REVISTA DE CHIMIE**, (Bucharest), 64, 12, 1465-1467, 2013, Impact Factor = 0,538, Author Factor = **0,135**;
2. G. ROMANESCU, M.A. CRETU, I.G. SANDU, E. PAUN, **I. SANDU**, *Chemism of streams within the Siret and Prut drainage basins: water resources and management*, **REVISTA DE CHIMIE**, (Bucharest), 64, 12, 1416-1421, 2013, Impact Factor = 0,538, Author Factor = **0,108**;
3. E.A. TULBURE, **I. SANDU**, N. MUNTEANU, I.G. SANDU, G.-V. ATODIRESEI, N.C.FORNA, *3D Modelling of Pressure Exerted by Polymeric Knittings with Increased Elasticity on Cylindrical Surfaces*, **MATERIALE PLASTICE**, Bucharest, 50, 4, 274-278, (2013); Impact Factor = 0.387/2011 (2012 0.379/0.036), Author Factor = 0.0645;
4. V. TOMA, R.M. DIACONESCU, **I. SANDU**, V. VASILACHE, E. BERCU, *Optimization of the process of melana fibers dyeing with methylene blue in the presence of maleic copolymers*, **MATERIALE PLASTICE**, Bucharest, 50, 4, 264-268, (2013); Impact Factor = 0.387/2011 (2012 0.379/0.036), Author Factor = **0,0774**;
5. **I. SANDU**, M. CANACHE, T. LUPASCU, M. CHRAZI, I.G. SANDU, C. PASCU, *The influence of physically doping of NaCl with other salts on aerosols generation*, **AEROSOL AND AIR QUALITY RESEARCH**, **13**, 6, 1731-1740, (2013), Impact Factor = **2.827**/2011, Author Factor = **0.471**;
6. V. POPESCU, E.VASLUIANU, N.-C. FORNA, **I. SANDU**, E. BERCU, *Comparative study of the FTIR analysis and the performances of N,N-trimethyl chitosan as wrinkle-proofing agent*, **REVISTA DE CHIMIE**, (Bucharest), 64, 11, 1284-1294, 2013, Impact Factor = 0,538, Author Factor = **0,108**;
7. L.G. BAHRIN, N.C. LUNGU, N.C. FORNA, **I. SANDU**, M.L. BIRSA, *Zwitterionic 3-(1,3-Dithiol-2-yl)phenolates Fenolati Zwitterionici de 3-(1,3-Ditioliu)*, **REVISTA DE CHIMIE**, (Bucharest), 64, 11, 1343-1346, 2013, Impact Factor = 0,538, Author Factor = **0,108**;
8. D. DANA, I.G. SANDU, P. VIZUREANU, I. SANDU, *Metal Inert Gas Welding-Brazing Technological Development and Experimental Results*, **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS**, 15, 9-10, 2013, pp.1153-1161, Impact Factor = 0.516, Author Factor = **0,129**;
9. E. VASLUIANU, V. POPESCU, A. GRIGORIU, N.C. FORNA, I. SANDU, *Comparative Study Concerning the FTIR Analysis and the Performances of Chitosan-Based Wrinkle-Proofing Agents*, **REVISTA DE CHIMIE**, (Bucharest), 64, 10, 1104-1115, 2013, Impact Factor = 0,538, Author Factor = **0,108**;
10. E. BERCU, **I. SANDU**, H.-A. ALDEA, V. VASILACHE, V. TOMA. *Interaction of Maleic Acid Copolymers with Cationic Dyes in Aqueous Solution. Influence of Chemical Structure of the Partners*, **REVISTA DE CHIMIE**, (Bucharest), 64, 10, 1121-1126, 2013, Impact Factor = 0,538, Author Factor = **0,108**;
11. M. POIANA, M. DOBROMIR, V. NICA, **I. SANDU**, V. GEORGESCU, *Microstructure, magnetic and electronic transport properties of Co-TiO<sub>2</sub> nanocomposite films in metal matrix*, **JOURNAL OF**

- SUPERCONDUCTIVITY AND NOVEL MAGNETISM**, 26, 10, 2013, pp. 3105-3114, DOI: 10.1007/s10948-013-2126-3, Impact Factor = **0,702/SRI = 0.65539**, Author Factor = **0,130**;
12. V. COPCIA, C.M. HRISTODOR, S. DUNCA, R. IORDANOVA, A. BACHVAROVA-NEDELICHEVA, N.C. FORNA, I. SANDU, *Synthesis and Antibacterial Properties of ZnO/Clinoptilolit and TiO<sub>2</sub>/ZnTiO<sub>3</sub>/Clinoptilolite Powders*, **REVISTA DE CHIMIE**, (Bucharest), 64, 9, 978-981, 2013, Impact Factor = 0,538, Author Factor = **0,077**;
  13. E. VASLUIANU, A. GRIGORIU, I.G. SANDU, C. GHERASIMESCU, I. SANDU, *Studies of Effects of Fireproofing and Anti-creasing Simultaneous Technology on Cellulose Materials*, **REVISTA DE CHIMIE**, (Bucharest), 64, 9, 955-959, 2013, Impact Factor = 0,538, Author Factor = **0,108**,
  14. I.V. ASAFTEI, N. BILBA, I. SANDU, *Aromatization of n-Heptane over Modified Metal-MFI Zeolite Catalysts*, **REVISTA DE CHIMIE**, (Bucharest), 64, 8, 838-843, 2013, Impact Factor = 0,538, Author Factor = **0,178**;
  15. D. GHERCA, R.-G. CIOCARLAN, D.-G. COZMA, N. CORNEI, V. NICA, I. SANDU, A. PUI, *Influence of surfactant concentration (carboxymethylcellulose) on morphology and particles size of cobalt nanoferrites*, **REVISTA de CHIMIE**, (Bucharest), 64, 8, 848-851, 2013, Impact Factor = 0,538, Author Factor = **0,090**;
  16. E.A. TULBURE, I.G. SANDU, G.V. ATODIRESEI, I. SANDU *Polyurethanic Yarns with Elastomeric Core*, **REVISTA DE CHIMIE**, (Bucharest), 64, 7, 736-738, 2013, Impact Factor = 0,538, Author Factor = **0,135**;
  17. N.C. LUNGU, I. SANDU, P. CHIRITA, M.L. BIRSA, *New Water Soluble 1,3-Dithiolium Salts Noi Saruri de 1,3-Dithiolu Solubile in Apa*, **REVISTA DE CHIMIE**, (Bucharest), 64, 7, 697-700, 2013, Impact Factor = 0,538, Author Factor = **0,135**;
  18. R. ABDUL RAZAK, M. MUSTAFA AL BAKRI ABDULLAH, H. KAMARUDIN, K. NIZAR ISMAIL, I. SANDU, D. HARDJITO, Z. YAHYA, *Study on Radioactivity Components, Water Quality and Microstructure Characteristic of Volcano ash as Geopolymer Artificial Aggregate*, **REVISTA DE CHIMIE**, (Bucharest), 64, 6, 593-598, 2013, Impact Factor = 0,538, Author Factor = **0,077**;
  19. C. ADOMNITEI, D. LUCA, M. GIRTAN, I. SANDU, V. NICA, A.V. SANDU, D. MARDARE, *Nb-Doped TiO<sub>2</sub> Thin Films Deposited by Spray Pyrolysis Method*, **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS**, 15, 5-6, 2013, pp.519-522, Impact Factor = 0.457, Author Factor = **0,065**;
  20. A.M. SAVIUC-PAVAL, A.V. SANDU, I.M. POPA, I.C.A. SANDU, A.P. BERTEA, I. SANDU, *Colorimetric and Microscopic Study of the Thermal Behaviour of New Ceramic Pigments*, **MICROSCOPY RESEARCH AND TECHNIQUE**, 76, 6, 564-571, (2013), DOI 10.1002/jemt.22201, Impact Factor = **1.792**, Author Factor = **0,298**;
  21. I.V. ASAFTEI, N. BILBA, I. SANDU, *Synthesis, Characterization and Catalytic Activity of Gallium-Modified ZSM-5 (MFI) Zeolites in n-Heptane Aromatization*, **REVISTA de CHIMIE**, (Bucharest), 64, 5, 509-515, 2013, Impact Factor = 0,599, Author Factor = **0,200**;
  22. I. SOLOMON, A.M. RIBEIRO, J.C. SANTOS, J.M. LOUREIRO, A. RODRIGUES, I. SANDU, I. MAMALIGA, *Adsorption equilibrium of water vapor onto activated carbon, activated alumina, carbon and alumina impregnated with hygroscopic salt*, **TURKISH JOURNAL OF CHEMISTRY (ISSN 1300-0527)**, 37, 3, 2013, pp. 358-365, DOI: 10.3906/kim-1206-40, Impact Factor = **0,943/SRI = 0.203**, Author Factor = **0,135**;
  23. E. BERCU, I. SANDU, C.-D. RADU, V. VASILACHE, V. TOMA, *Interaction of Maleic Acid Copolymers with Methylene Blue in the Presence and Absence Melana Fibers*, **MATERIALE PLASTICE**, Bucharest, 50, 3, 215-219, (2013); Impact Factor = **0.387/2011**, Author Factor = **0.0774**;
  24. AHMAD AZREM AZMI, NIK NORIMAN ZULKEPLI, MUHAMMAD RAZIF NORDIN, MOHD MUSTAFA AL BAKRI ABDULLAH, ION SANDU, MOHD ARIF ANUAR MOHD SALLEH, ISMAIL HANAFI, *The Effects of Cure Characteristics, Mechanical and Morphological Properties of Styrene Butadiene Rubber/Recycled Chloroprene Rubber (SBR/CRr) Blends*, **MATERIALE PLASTICE**, Bucharest, 50, 3, 171-174, (2013); Impact Factor = **0.387/2011**, Author Factor = **0.0774**;
  25. R.M.HLIHOR, M. DIACONU, D. FERTU, C. CHELARU, I. SANDU, T. TAVARES, M. GAVRILESCU, *Bioremediation of Cr(VI) Polluted Wastewaters by Sorption on Heat Inactivated Saccharomyces cerevisiae Biomass*, **INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH (ISSN 1735-6865)**, 7, 3, 581-594, 2013, Impact Factor = **1.462/SRI = 0.137**, Author Factor = **0,209**;

26. V. VASILACHE, O. MIRCEA, I.G. SANDU, A.M. VLAD, **I. SANDU**, *Assesment of the conservation state for the preservation and restoration of an archaeological iron artifact*, **REVISTA DE CHIMIE**, 64, 3, (2013), pp. 294-297, Impact Factor = 0,599, Author Factor = **0,119**;
27. V. POPESCU, L.R. MANEA, I.G. SANDU, A.I. CHIRCULESCU, **I. SANDU**, *Eco-friendly physico-chemical stimuli and their impact upon the tinctorial capacity of acrylic fibers*, **REVISTA DE CHIMIE**, 64, 3, (2013), pp. 281-286, Impact Factor = **0,693**, Author Factor = **0,138**;
28. V. VASILACHE, D. BOGHIAN, A.I. CHIRCULESCU, S.-C. ENEA, **I. SANDU**, *Conservation state assessment and the determination of certain archaeometric characteristics for two bronze items from the early hallstatt period*, **REVISTA DE CHIMIE**, 64, 2, (2013), pp.152-157, Impact Factor = 0,693, Author Factor = **0,138**;
29. A.-A. TUDUCE TR ISTARU, I.C.A. SANDU, M.C. TIMAR, G.L. DUMITRESCU, **I. SANDU**, *SEM-EDX, water absorption and wetting capability studies on evaluation of the influence of nano-Zinc oxide as additive to Paraloid B72 solutions used for wooden artifacts consolidation*, **MICROSCOPY RESEARCH AND TECHNIQUE**, 76, 2, 209-218, (2013), DOI 10.1002/jemt.22155, Impact Factor = **1.792**, Author Factor = **0,358**;
30. D.L. BURUIANA, M. BORDEI, I.G. SANDU, A.I. CHIRCULESCU, **I. SANDU**, *Recycling waste grit in mix asphalt*, **MATERIALE PLASTICE**, 50, 1, 36-39, (2013); Impact Factor = 0.387/2011, Author Factor = **0.0774**.

**b. Articole publicate în reviste interna ionale in BDI, f r factor de impact (15):**

1. **I. SANDU**, O. MIRCEA, I.G. SANDU, V. VASILACHE, *The Liesegang Effect on Ancient Bronze Items Discovered in Romania*, **INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE**, 4, SI, 2013, pp. 573-586;
2. O. MIRCEA, **I. SANDU**, V. VASILACHE, A.V. SANDU, *Applications of Optical Microscopy and Energy-Dispersive X-ray Spectroscopy in the Study of a Pendant from the IInd-IIIrd Century AC*, **INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE**, 4, SI, 2013, pp. 701-709;
3. V. VASILACHE, **I. SANDU**, O. MIRCEA, A.V. SANDU, *Study on the Conservation State of a Gilded Silver Coin From XVTH Century, Discovered in Romania*, **INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE**, 4, SI, 2013, pp. 710-714;
4. K.I. KOUAME, L.K. KOUASSI, B. DIBI, I.D. RASCANU, G. ROMANESCU, I. SAVANE, **I. SANDU**, *Assessment of soil toxicity in intensive agricultural area: study case of suburban area of Songon (Abidjan-Cote d'Ivoire)*, **JOURNAL OF ENVIRONMENTAL PROTECTION**, 4, 12, (2013), pp. 1441-1448;
5. I.C.A. SANDU, **I. SANDU**, *New Interdisciplinary Aspects on Science for Conservation of Cultural Heritage (I)*, **EGYPTIAN JOURNAL OF ARCHAEOLOGICAL AND RESTORATION STUDIES** (ISSN 2090-4932), 3, 1, 3013, pp. 1-12.
6. **I. SANDU**, I.C.A. SANDU, *New Interdisciplinary Aspects on Science for Conservation of Cultural Heritage (II)*, **EGYPTIAN JOURNAL OF ARCHAEOLOGICAL AND RESTORATION STUDIES** (ISSN 2090-4932), 3, 2, 3013, pp. 73-83.
7. HAGIU B.A., RUSU O., COJOCARU A., IACOB R.M., OPREAN A., **SANDU I.**, SANDU A.V., VIZITIU I.C., *Studiu pilot privind utilizarea unor aparate inovative în educarea for ei*. **SPORT SI SOCIETATE. REVISTA DE EDUCATIE FIZICA, SPORT SI STIINTE CONEXE**, 2013, 14(2): 182-86;
8. **I. SANDU**, A. STANILA *Factori de sustinere si dezvoltare a creativității tehnice autohtone ca vector activ în relansarea economic . I.*, **INTELLECTUS**, (ISSN 1810-7079), Chi in u, vol. 19, nr. 4, 2013, 82-86;
9. A.M. BUDU, **I. SANDU**, V. VASILACHE, I.C.A. SANDU, *Studies regarding the deterioration and degradation of old panel paintings, under the influence of environmental factors*, **PROLIGNO** (ISSN 2069-7430), 9, (4), 2013, pp. 236-241.
10. S. PRUTEANU, **I. SANDU**, V. VASILACHE, L. SCUTARITA (GHERMAN), I.C.A. SANDU, R.A. CRISTACHE, *Integrated analytical study for the evaluation of cleaning effectiveness on old wood romanian icons*, **PROLIGNO** (ISSN 2069-7430), 9, (4), 2013, pp. 242-250.

11. S. PRUTEANU, L. SCUTARITA (GHERMAN), **I. SANDU**, M. HAYASHI, D.G. COZMA, V. VASILACHE, I.C.A. SANDU, *Ecological materials used in preservation and restoration of old wood from an artefact*, **PROLIGNO** (ISSN 2069-7430), **9**, (4), 2013, pp. 265-275.
12. **I. SANDU**, L.G. SCUTARITA (GHERMAN), R.A. CRISTACHE, M. HAYASHI, I.C.A. SANDU, V. VASILACHE, *Applications of the normal range of hydric-equilibrium variation in old wood*, **PROLIGNO** (ISSN 2069-7430), **9**, (4), 2013, pp. 276-281
13. L. NICA, **I. SANDU**, V. VASILACHE, I. HUTANU, I.C.A. SANDU, *Involvement of new treatment materials and unharmed processes for the paintings, on old wooden substrates from XIX<sup>th</sup>- XX<sup>th</sup>*, **PROLIGNO** (ISSN 2069-7430), **9**, (4), 2013, pp. 306-311.
14. R.A. CRISTACHE, **I. SANDU**, V. VASILACHE, O.G. CRISTACHE, *Anatomical studies used in the evaluation of a panel painting from the sixteenth century*, **PROLIGNO** (ISSN 2069-7430), **9**, (4), 2013, pp. 291-298.
15. HUTANU, **I. SANDU**, V. VASILACHE, L. NICA, *Studies on consolidation of polychrome sculptures and wood paintings, completing the gaps in the panel*, **PROLIGNO** (ISSN 2069-7430), **9**, (4), 2013, pp. 299-305.

**c. Articole publicate în volumele simpozioanelor interna ionale, cu ISBN sau ISSN, f r factor de impact (6):**

1. M. ALEXIANU, O. WELER, R. BRIGAND, **I. SANDU**, G. ROMANESCU, R. CURCA, V. COTIUGA, R. BALAUR, S. CALINIUC, F. TENCARIU, *Natural brine or rock salt exploitation? Ethnoarchaeological researches in the extracarpadian area of Romania*, **19<sup>th</sup> EAA Annual Meeting**, (European Association of Archaeologists), Pilsen, Czech Republic, E05.11, 2013, p. 137;
2. **I. SANDU**, O. MIRCEA, I.G. SANDU, V. VASILACHE, *Liesegang Effect Types Identified on Ancient Bronze Objects Found in Romania*, **1<sup>st</sup> International Conference on Innovation in Art Research and Technology, InART 13**, Evora, 10th – 13th of July 2013, SESSION 1: Surfaces and Interfaces in Conservation – Poster, Ed. StudIS (ISBN 978-606-624-441-1), Iasi, 2013, p. 44;
3. **I. SANDU**, D. BOGHIAN, V. VASILACHE, S.-C. ENEA, *Assessment of Some Ancient Pigments from Cucuteni B1 Culture*, **1<sup>st</sup> International Conference on Innovation in Art Research and Technology, InART 13**, Evora, 10th – 13th of July 2013, SESSION 3: Conservation Science from the Lab to the Field – Poster, Ed. StudIS (ISBN 978-606-624-441-1), Iasi, 2013, p. 114;
4. O. MIRCEA, **I. SANDU**, V. VASILACHE, A. V. SANDU, *Applications of OM and SEM-EDX on a Pendant from II-III Century A.D.*, **1<sup>st</sup> International Conference on Innovation in Art Research and Technology, InART 13**, Evora, 10th – 13th of July 2013, SESSION 3: Conservation Science from the Lab to the Field – Poster, Ed. StudIS (ISBN 978-606-624-441-1), Iasi, 2013, p. 148;
5. V. SIRBU, **I. SANDU**, N. COSTICA, *Multidisciplinary Education Through Forensic Biology*, **Proceedings of the International Journal of Arts & Sciences (IJAS)** Multidisciplinary Conference held at the Austria Trend Hotel Ananas, Sonnenhofgasse 8-10, 1050 Vienna, Austria, from 14 to 18 April, 2013.  
<http://ijas2013vienna.sched.org/>
6. R.A. CRISTACHE, **I. SANDU**, I. CORTEA, O.G. CRISTACHE, V. VASILACHE, *Study of the conservation state and of some archeometric characteristics of a panel painting icon from the XIXth century*, **Proceedings of the International Scientific Conference “Tree Rings in Archaeology, Climatology and Ecology 2013 (TRACE 2013)”**, Session 3 “DENDROARCHEOLOGY AND ENVIRONMENTAL HISTORY”, Viterbo, Italia, 8-11 May, 2013, p.45-72.

**d. Articole publicate în volume române ti, cu ISBN sau ISSN, ale simpozioanelor interna ionale, f r factor de impact (41):**

1. D. BOGHIAN, S.-C. ENEA, C.-C. LAZANU, L. BEJENARU, S. STANC, V. VASILACHE, I. SANDU, F.-A. TENCARIU, A. AS NDULESEI, *Rezultate preliminare ale investiga iilor interdisciplinare din situl de la T cuta-Dealul Miclea-“Paic” (jud. Vaslui)*, **ARHEOVEST I - IN MEMORIAM LIVIU M RUIA. Interdisciplinaritate în Arheologie i Istorie**, (ISBN 972-963-315-153-2), Vol. I, JATEPress Kiadó Szeged, 2013, pp. 487-508;

2. I. SANDU, C.-C. LAZANU, V. VASILACHE, *Analize compozi ionala pe un lot de piese din bronz descoperite pe teritoriul jude ului Vaslui*, **ARHEOVEST I - IN MEMORIAM LIVIU M RUIA. Interdisciplinaritate în Arheologie i Istorie**, (ISBN 972-963-315-154-9), Vol. II, JATEPress Kiadó Szeged, 2013, pp. 537-568;
3. R.A. CRISTACHE, **I. SANDU**, P. SPIRIDON, *Analysis and identification of the paint layer for the authentication of a painting*, **The 1<sup>ST</sup> International Conference for Doctoral Students, ICP2013** (Editor: R. PETRUSE), ISSN 2344-3448, ISSN-L 2344-3448, Lucian Blaga University of Sibiu, 2013, pp. 623-629;
4. P. SPIRIDON, **I. SANDU**, R.A. CRISTACHE, *The paticipative conservation of the cultural Heritage*, **The 1<sup>ST</sup> International Conference for Doctoral Students, ICP2013** (Editor: R. PETRUSE), ISSN 2344-3448, ISSN-L 2344-3448, Lucian Blaga University of Sibiu, 2013, pp. 468-472;
5. M.A. BUDU, **I. SANDU**, R.A. CRISTACHE, *The effects of high teperature on gessos with different admixtures*, **The 1<sup>ST</sup> International Conference for Doctoral Students, ICP2013** (Editor: R. PETRUSE), ISSN 2344-3448, ISSN-L 2344-3448, Lucian Blaga University of Sibiu, 2013, pp. 209-213;
6. S. PRUTEANU, P. SPIRIDON, A.M. BUDU, V. VASILACHE, **I. SANDU**, *Cleaning Procedure for Old Paintings*, **International Conference of Young Researchers New Trends In Envernonmental and Materials Engineering (TEME 13)**, 28-30 Oct. 2013, Dunarea de Jos University of Galati, Romania, P77.
7. P. SPIRIDON, **I. SANDU**, V. VASILACHE, I.C.A. SANDU, *Contributions Concerning Integrated Scientific Conbervation of Cultural and Natuiral Heritage*, **International Conference of Young Researchers New Trends In Envernonmental and Materials Engineering (TEME 13)**, 28-30 Oct. 2013, Dunarea de Jos University of Galati, Romania, P76.
8. **I. SANDU**, O. MIRCEA, I.G. SANDU, V. VASILACHE, A.V. SANDU, *Liesegang Effect Typology on Ancient Bronzes Discovered in Romania*, **International Conference of Young Researchers New Trends In Envernonmental and Materials Engineering (TEME 13)**, 28-30 Oct. 2013, Dunarea de Jos University of Galati, Romania, P75.
9. O. MIRCEA, **I. SANDU**, V. VASILACHE, A.V. SANDU, *Study on the Conservation State of a Coin Discovered at „George Radu Melidon” Library, Roman*, **International Conference of Young Researchers New Trends In Envernonmental and Materials Engineering (TEME 13)**, 28-30 Oct. 2013, Dunarea de Jos University of Galati, Romania, P74.
10. R.A. CRISTACHE, **I. SANDU**, V. VASILACHE, I. HUTANU, L. NICA, A.M. BUDU, *The Study of Dendrochronology as an Archaeometric Methods for Characterizing Old Wooden Artifacts*, **International Conference of Young Researchers New Trends In Envernonmental and Materials Engineering (TEME 13)**, 28-30 Oct. 2013, Dunarea de Jos University of Galati, Romania, P73.
11. I. HUTANU, L. NICA, R.A. CRISTACHE, V. VASILACHE, **I. SANDU**, *The Consolidation of Degraded Paint Layer: Thechniques and Methodologies*, **International Conference of Young Researchers New Trends In Envernonmental and Materials Engineering (TEME 13)**, 28-30 Oct. 2013, Dunarea de Jos University of Galati, Romania, P64.
12. L. NICA, I. HUTANU, R.A. CRISTACHE, V. VASILACHE, **I. SANDU**, *Materials Used for Consolidation of Old Wooden Artifacts*, **International Conference of Young Researchers New Trends In Envernonmental and Materials Engineering (TEME 13)**, 28-30 Oct. 2013, Dunarea de Jos University of Galati, Romania, P63.
13. A.M. BUDU, S. PRUTEANU, V. VASILACHE, **I. SANDU**, *Investigation Methods and Techniques for Analysis of Panel Paintings state of Conservation*, **International Conference of Young Researchers New Trends In Envernonmental and Materials Engineering (TEME 13)**, 28-30 Oct. 2013, Dunarea de Jos University of Galati, Romania, P62.
14. A. LASZLO, V. MERLAN, **I. SANDU**, A.V. SANDU, *Un topor de lupta cu disc si spin descoperit in Moldova, Semper fidelis. In honorem magistri Mircea Ignat* (coord. B.P. Niculica, D. Boghian), (ISBN 978-606-654-070-4), Ed. Istros a Muzeului Br ilei, Suceava, 2013, pp. 215-224.
15. M. ALEXIANU, A. ASANDULESEI, R. BALAUR, R. BRIGAND, S. CALINIUC, V. COTIUGA, R.G. CURCA, G. ROMANESCU, **I. SANDU**, F. TENCARIU, O. WELLER, *Diachronica (from the paleolithic to 5<sup>th</sup> C.A.D.) site density around the salt springs from the Romanian Easter Carpathians. An Ethnoarchaeological model*, **Third Arheoinvest Congress. Interdisciplinary Research in**

- Archaeology** (Editor: V. Cotiuga), Ed. „Alexandru Ioan Cuza” University of Iasi (ISSN2285-2018) 6-8 June, 2013, Iasi, p. 58;
16. V. VASILACHE, **I. SANDU**, D. BOGHIAN, S.C. ENEA, C.C. LAZANU, *Investigations ob Batches of Ceramic Fragments and Mineral Pigments from the Cucutenian Site of Tacuta – Dealul Miclea/Paic, Vaslui Conty*, **Third Arheoinvest Congress. Interdisciplinary Research in Archaeology** (Editor: V. Cotiuga), Ed. „Alexandru Ioan Cuza” University of Iasi (ISSN2285-2018) 6-8 June, 2013, Iasi, p. 62-63;
  17. B.P. NICULICA, V. VASILACHE, D. BOGHIAN, **I. SANDU**, *An archaeometric Study of Several Ceramic Fragments from the Komariv (Komarow) Settlement of Adancata – Sub Padure, Suceva Conty, Fragments and Mineral Pigments from the Cucutenian Site of Tacuta – Dealul Miclea/Paic, Vaslui Conty*, **Third Arheoinvest Congress. Interdisciplinary Research in Archaeology** (Editor: V. Cotiuga), Ed. „Alexandru Ioan Cuza” University of Iasi (ISSN2285-2018) 6-8 June, 2013, Iasi, p. 67-68;
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## Membru în comisii europene i na ionale de evaluare, titularizare/atestare

1. **Evaluator proiecte Comisia European** , solicitant **Netherlands Organisation for Scientific Research** (NWO, pentru cererea de finanare înregistrată cu no. SFA-11-16, cu titlul: *Re-imagining Alloy Analysis of Western Bronze Sculpture: Building the foundations for collaborative study by enhancing scientific rigor and defining the historical/technological context for interpretation* propus de Prof. dr. F.T. Scholten, prin **Science4Arts**.
2. **Expert evaluator programe na ionale de cercetare: CNCSIS** (2),
3. **Membru în comisia de doctorat în calitate de conducător (1)**, în baza:
  - Decizia Rectorului Universității Alexandru Ioan Cuza nr. 2703/27.02.2013, pentru teza *Cercetări privind influența aerosolilor salini asupra îmbunătățirii activității școlare a elevilor, elaborată de Maria BUȘILĂ (CANACHE)*, la data de 08.05.2013.
4. **Membru în comisia de doctorat în calitate de referent oficial (4)**, în baza:
  - Ordinului Senatului Universității Tehnice „Gh. Asachi” Iași nr. 1861/03.09.2013, pentru teza *"Contribuții la îmbunătățirea conținutului și a modului de predare a disciplinelor de protecție a*

- mediului utilizând noile tehnologii informaționale*”, elaborat de ing. Armand Florin BERTEA, sub conducerea prof.univ.dr.ing. Romen BUTNARU, la data de 18.09.2013;
- Ordinului Senatului Universității Tehnice „Gh. Asachi” Iași nr. 562/13.07.2013, pentru teza "*Biomateriale cu aplicații în medicină și protecția mediului*" elaborat de Ana Simona ILISEI, sub conducerea prof.univ.dr.Constantin LUCA, la data de 11.10.2013;
  - Ordinului Senatului Universității „Alexandru Ioan Cuza” Iași nr. 11324/24.07.2013 a Rectorului Universității „Al.I.Cuza” din Iași de numire ca membru în Comisia de analiză și susținere a tezei de doctorat elaborat de Drago POPA, cu titlul de "*Cercetări privind regimul metalelor grele în sistemul sol-plantă din zona Copp a Mic - Mic sdașă*", conducător științific prof.univ.dr. Radu L C TU U, la data 18.09.2013;
  - Ordinului Senatului Universității „Alexandru Ioan Cuza” Iași nr. 11337/24.07.2013 a Rectorului Universității „Al.I.Cuza” din Iași de numire ca membru în Comisia de analiză și susținere a tezei de doctorat elaborat de Alexandra CIOMAGA, cu titlul de "*Studii electrochimice ale coroziunii metalelor și aliajelor în diferite medii*", conducător științific prof.univ.dr. Gheorghe NEMTOI, la data 13.09.2013;
5. **Președinte al Juriului** la Concursul Național Tehnic-științific „Invenția și Inventivitatea”, Ediția a VIII-a, Septembrie 2013, Palatul Copiilor Iași;

### **Director de proiecte prin programe naționale (1):**

**1. Proiect de cercetare cofinanțat din Fondul Social European prin POSDRU/86/1.2/S/62307, PROMOVAREA CERCETĂRII ȘTIINȚIFICE DIN DOMENIUL CRIMINALISTICII ÎN ACTIVITATEA JUDICIARĂ**  
Management proiect Academia de Poliție „Al.I.Cuza” București,  
Cordonator partener UAIC, prof.univ.dr. Ion SANDU

### **Membru în colectivul de cercetare a unor proiecte naționale (1):**

- 1. Proiect de cercetare IDEI – prof.univ.dr. Marius ALEXIANU**
- 2. Proiect de cercetare cofinanțat din Fondul Social European prin POSDERU – prof.univ.dr. Dorin POPA**

### **Recunoașteri internaționale și naționale:**

#### **Medalii (35):**

- Aur: 20 (Seoul – 1; Macau – 1, Seoul –1, Zagreb - 3, Taipei - 1 Chisinau – 1; Sevastopol –5 , Cluj-Napoca – 1, Iași - 6);
- Argint: 10 (Zagreb – 2, Chisinau – 3; Sevastopol- 1 , Cluj-Napoca -2, Iași – 2);
- Bronz: 5 (Chisinau – 4; Cluj-Napoca – 1);

**Ordine și Distincții:** 13 (Seoul – 1; Zagreb - 4, Taipei – 2, Chisinau – 1; Iași – 5)

**Diplome de Excelență:** 4 (Chisinau – 1; Sevastopol –1, Bacau - 1, Iași - 1).

### **Ordine și distincții:**

1. **Honorary Professor** – Dunărea de Jos University of Galați, nov. 2013;
2. **Special Award, CIGIF 2013**, Seoul, Korea, 23.nov.2013;
3. **Grand Prix** at Moldavian Technical University, INFOINVENT 2013, Chișinău;
4. **Leading Innovation Award** for New procedure on potabilization water, Invention Show & Technomart, IIPNF – International Intellectual Property Network Forum, Taipei, Nov. 2013;
5. **Leading Innovation Award** for Device of administration phytosanitary substances in ligneous plants, Invention Show & Technomart, IIPNF – International Intellectual Property Network Forum, Taipei, Nov. 2013;
6. **INOVA Best International Exhibitor Award**, International Invention Show - INOVA, Zagreb, 12-17 Nov. 2013;
7. **Award for International Innovation Achievements** – HALLER ProInventio Foundation, International Invention Show - INOVA, Zagreb, 12-17 Nov. 2013;
8. **Honor of Invention** – WIIPA for New Procedure on potabilization water, International Invention Show - INOVA, Zagreb, 12-17 Nov. 2013;

9. **Honor of Invention – WIIPA** for Device of administration phytosanitary substances in ligneous plants, International Invention Show - INOVA, Zagreb, 12-17 Nov. 2013;
10. **Medalia Jubiliara** a Academiei de Stiinte din Republica Moldova, EUROINVENT, Ia i, 2013;
11. **WIIPA Order**, World Invention Intellectual Property Association, Taiwan;
12. **Diplom of the Honor of Invention**, World Invention Intellectual Property Association, Taiwan;
13. **Special Priz Best Invention**, Istambul Aydin University.

#### **Manifest ri tiin ifice interna ionale (17):**

1. **Expozitia Specializata INFOINVENT Chi in u, nov. 2013**, 2013 (7 grupe de inven ii, o medalie de aur, 3 de argint si 4 de bronz, al turi de Marele Premiu al Universitatii Tehnice a Moldovei si Diploma Uniunii Inventatorilor si Rationalizatorilor din Rep. Moldova „INOVATORUL”);
2. **INST 2013-11-26 Taipei INT’L Invention Show & Technomart, IIPNF** – International Intellectual Property Network Forum, Taipei, Nov. 2013 (trei grupe de inven ii, o medalie de aur, al turi de Leading Inovation Award for New procedure on potabilization water Leading Inovation Award for Device of administration phytosanitary substances in ligneous plants);
3. **Croatian Invention Show 2013 INOVA**, Zagreb, 12-17 Nov. 2013 (cinci grupe de inven ii, 3 medalii de aur, 2 de argint, al turi de INOVA Best International Exhibitor Award Award for International Innovation Achieveniments – HALLER ProInventio Foundation Honor of Invention – WIIPA for New Procedure on potabilization water Honor of Invention – WIIPA for Device of administration phytosanitary substances in ligneous plants);
4. **The 1<sup>ST</sup> International Conference for doctoral Students, ICP2013** Lucian Blaga University of Sibiu, 22-23 nov. 2013 (comunicat 3 lucr ri)
5. **International Conference ICAICTE 2013**, Shanghai, 1-2 Oct., 2013 (o comunicare, comitetul stiintific);
6. **International Conference ICWSE**, 07-09 November, 2013, Brasov (Comitetul stiintific, 7 comunicari publicate);
7. **International Conference TEME 2013**, Universitatea „Dun rea de Jos” Gala i, 28-30 oct, 2013 (Award Professor Honoury, Comitetul tiin ific, 2 conferin e ca profesor invitat, 7 postere);
8. **IX<sup>th</sup> International Salon of Inventions and New Technologies „New Time”**, Sevastopol, 27-29 September, 2013 (6 grupe de inventii – 5 medalii de aur, una de argint si Diploma de Excelenta a Institutului Ukrainean de Proprietate Industriala);
9. **International Innovation and Invention Expo, Macau, 28-30 june, 2013**, Fisherman s Wharf Convention and Exhibition Centre, Macau (un grup de inventii – omedalie de aur);
10. **1<sup>st</sup> International Conference on Innovation in Art Research and Technology, InART 13**, Evora, 10th – 13th of July 2013 (Comitetul de Organizare);
11. **7<sup>th</sup> International Symposium „Contemporary Chemistry Conferences”** (Academia Româna i Revista de Chimie), Hotel Athenee Palace Hilton, Bucure ti, 14-15 may 2013 (Comitetul de Organizare);
12. **Thrid Arheoinvest Congres, Interdisciplinary Research in Archaeology**, Iasi, 6-8 June, 2013 (3 comunicari),



13. **A VIII-a Edition International Simposium PRESENT ENVIRONMENT & SUSTAINABLE DEVELOPMENT**, „Al. I. Cuza” University of Iași, 31 may- 2 JUNE 2013 (trei poster);
14. **24<sup>th</sup> International Invention, Innovation and Technology Exhibition, ITEX 2013**, Kuala Lumpur, Malaysia, 9- 11 May 2013(1 poster, diploma de participare);
15. **Expoziția Europeană a Creativității și Inovării – EUROINVENT**, Iași, 9 – 11 mai 2013 (11 postere cu invenții și teme de cercetare + First European Master School in Criminalistics, 7 comunicari);
16. **International Salon PROINVENT 2013**, Cluj-Napoca, 19-23 martie 2013 (2 medalii de argint/4 invenții);
17. **POSDRU\_63663 CONCLUDING WORKSHOP**, Section B, 16-19 Martie 2013, Iași, p.4.

#### **Manifestări științifice naționale (4):**

1. **In memoriam Margareta PONI, Masa rotunda - Complexul Muzeal National Moldova Iași, Muzeul Poni-Cernatescu**, Iași, 24 septembrie, 2013 (conferința, Evocarea vieții și activității profesoarei Margareta Poni - rolul său în dezvoltarea învățământului superior din România);
2. **Expotehnica – Salonul național al cercetării și inovării**, Bacău 19-23 septembrie 2013 (Central Plaza), (cuvânt de deschidere, președinte – Comitetul Științific, 7 grupe de invenții);
3. **In memoriam Petru Bogdan, 140 de ani de la naștere**, Masa rotundă – Muzeul Poni-Cernatescu, 30.ian.2013 (invitat – o conferință, Evocarea vieții și activității chimistului Petru Poni - rolul său în dezvoltarea învățământului superior din România);
4. **Scientific, Technological and Innovative Research in Current European Context** (International Workshop EUROINVENT), Alexandru Ioan Cuza University Publishing House, (ISBN: 978 - 973 - 703 - 891 - 3), 2013 (12 comunicari);

#### **Activități ca membru în asociații științifice și profesionale din țară și străinătate:**

- *Forumul Inventatorilor Români (Președinte);*
- *Societatea Română de Chimie (membru);*
- *Societatea EURACHEM – România (membru);*
- *Clubul Internațional de Inovare ARCHIMEDES, Moscova (membru fondator);*
- *Asociația Internațională a Inventatorilor (AI), Moscova (membru fondator);*
- *Groupe des Méthodes Pluridisciplinaires Contribuant à l'Archéologie (GMPCA) – Liege (Membru activ din 2011).*

#### **Activități în colectivul redacțional al unor reviste din țară și străinătate:**

- **INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE**, (Print ISSN 2067-533X, Online 2067-8223), „Al.I.Cuza” University of Iași, (grupa CNCSIS B+/SCOPUS) – **Editor Șef**;
- **INTERNATIONAL JOURNAL OF CRIMINAL INVESTIGATION**, (Online ISSN:2247-0271), „Al.I.Cuza” Police Academy Bucharest and AIT SRL Laboratories, (grupa CNCSIS BDI) – **Senior Editor**;
- **OPEN JOURNAL OF ARCHAEOLOGY** (PAGEPress Publications, Pavia, Italy), (eISSN 2038-1956), (grupa CNCSIS BDI) 2011 – **Editor și referent științific**;
- **REVISTA DE CHIMIE** (ISSN 0034-7752), București (cotat ISI Thomson, **Factor Impact 0.538/2012**) – **membru colegiul de redacție și referent științific**;

- **MATERIAL CHEMISTRY AND PHYSICS**, (ISSN: 0254-0584), ELSEVIER SCIENCE SA (cotat ISI Thompson, **Factor Impact 2.356/2010**) - referent tiin ific;
- **DESALINATION AND WATER TREATMENT**, (ISSN: 1944-3994), (cotat ISI Thompson, **Factor Impact 0.852/2012**) - referent tiin ific;
- **DESALINATION**, (ISSN: 0011-9164), (cotat ISI Thompson, **Factor Impact 3.041/2012**) - referent tiin ific;
- **JOURNAL OF ARCHAEOLOGICAL SCIENCE**, (ISSN: 0305-4403), Elsevier, (cotat ISI Thompson, **Factor Impact 1.710/2010**) – referent tiin ific;
- **JOURNAL OF APPLIED ELECTROCHEMISTRY**, (ISSN: 0021-891X - print version, ISSN: 1572-8838 - electronic version), Springer Netherlands, (cotat ISI Thompson, **Factor Impact 1.496/2010**) - referent tiin ific;
- **JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY**, (ISSN: 1388-6150 Print version si 1572-8943 Online version) Springer Budapest, (cotat ISI Thompson, **Factor Impact 1.752/2010**) - referent tiin ific;
- **THERMOCHIMICA ACTA**, (ISSN: 0040-6031), Elsevier, (Cotata ISI Thompson, **Factor impact 1.908/2010**) - referent stiintific;
- **WOOD AND FIBER SCIENCE**, (ISSN: 0735-6161), (Cotata ISI Thompson, **Factor impact 0.717/2012**) - referent stiintific;
- **AFRICAN JOURNAL OF AGRICULTURAL RESEARCH (AJAR)** (ISSN 1991- 637X), (Cotata ISI Thompson, **Factor impact 0.263/2010**) - referent stiintific, [www.academicjournals.org/ajar](http://www.academicjournals.org/ajar);
- **AFRICAN JOURNAL OF MICROBIOLOGY RESEARCH (AJMR)**, (ISSN 1996-0808), (Cotata ISI 0031 Thompson, **Factor impact 0.528/2010**) - referent stiintific, [www.academicjournals.org/ajmr](http://www.academicjournals.org/ajmr);
- **AFRICAN JOURNAL OF ENGINEERING RESEARCH (AJER)**, (non-ISI Thompson, Grupa CNCSIS BDI), 2013, - referent stiintific, [www.netjournals.org/](http://www.netjournals.org/);
- **BASIC RESEARCH JOURNAL OF SOCIAL AND POLITICAL SCIENCE (BRJSPS)**, (non-ISI Thompson, Grupa CNCSIS BDI), 2013 - referent stiintific, [www.basicresearchjournals.org](http://www.basicresearchjournals.org)
- **BIORESOURCES (BR)**, (ISSN: 1930-2126), (non-ISI Thompson, Grupa CNCSIS BDI), 2013- referent stiintific,
- **JOURNAL OF PETROLEUM AND GAS EXPLORATION RESEARCH (JPGER)**, (ISSN 2276-6510), (non-ISI Thompson, Grupa CNCSIS BDI), 2011 - referent stiintific, <http://interesjournals.org/JPGER/index.htm;#>
- **JOURNAL OF ENGINEERING AND TECHNOLOGY RESEARCH (JETR)** (ISSN:2006-9790), (Grupa CNCSIS BDI) 2011 - referent stiintific, , [www.academicjournals.org/jetr](http://www.academicjournals.org/jetr);
- **RECENT PATENTS ON CORROSION SCIENCE JOURNAL/INNOVATIONS IN CORROSION AND MATERIALS SCIENCE** (Bentham Science Publishers, New York), (ISSN 1877-6108), (grupa CNCSIS BDI) 2011 – membru colegiul de redac ie i referent tiin ific;
- **EGYPTIAN JOURNAL OF ARCHAEOLOGICAL AND RESTORATION STUDIES**, (print ISSN 2090-4932, eISSN 2090-4940), (grupa CNCSIS BDI) 2011 – membru colegiul de redac ie i referent tiin ific, <http://ejars.sohag-univ.edu.eg/>;
- **STUDIA ANTIQUA ET ARCHAEOLOGICA**, Universitatea „Al. I. Cuza” Ia i, ISSN (Grupa B+ CNCSIS, 2010-2011) – membru colegiul de redac ie i referent tiin ific;
- **ACTA UNIVERSITATIS CIBINIENSIS, Seria F CHEMIA** (ISSN 1583-5030), Universitatea „Lucian Blaga” Sibiu (grupa CNCSIS B+) – membru colegiul de redac ie i referent tiin ific;
- **ANALELE UNIVERSIT II „DUN REA DE JOS” DIN GALA I, Fascicula IX METALURGIE I TIIN A MATERIALELOR** (ISSN 1453-083X), (grupa CNCSIS B+) – membru colegiul de redac ie i referent tiin ific;
- **PRO-LIGNO** (ISSN 2069-7430), (grupa CNCSIS B+) – membru colegiul de redac ie;
- **REVISTA DE INVENTIC** (ISSN 1210-3084), Institutul Na ional de Inventic Ia i (grupa CNCSIS B) – membru colegiul de redac ie;
- **REVISTA DANUBIUS** (ISSN ), Muzeul de Istorie Gala i, (grupa CNCSIS C) – membru colegiul de redac ie;

- **REVISTA CERCETĂRII ȘTIINȚIFICE** (ISSN 2066-6713), Ed. Performanța Iași, - **membru în colegiul de redacție**;
- **PATRIMONY BOOK**, „Al.I.Cuza” University Publishing House, - **coordinated series**.

#### **Membru în Juriile Internaționale (5):**

- a. **Croatian Invention Show INOVA 2013**, Zagreb, 12-16.nov. 2013.
- b. **Mejdunarodni Salon Izobretenii i Novih Tehnologii „Novoe Vremea”**, Sevastopol, septembrie 2013;
- c. **Expoziția Europeană a Creativității și Inovării – EUROINVENT**, Iași, 9 – 11 mai 2013
- d. **International Salon PROINVENT 2013**, Cluj-Napoca, 19-23 martie 2013
- e. **Salonul Internațional de Proprietate Industrială și creativitate tehnică „ARCHIMEDES 2013”**, Moscova, Rusia, martie 2013.

#### **Membru în comitetul de organizare/comitetul științific/chairman manifestări științifice internaționale și naționale (8):**

1. **1<sup>st</sup> International Conference on Innovation in Art Research and Technology, InART 13**, Evora, 10th – 13th of July 2013 (Comitetul de Organizare, Coorganizator);
2. Sesiunea de Comunicări Științifice a Studenților, Masteranzilor și Doctoranzilor **„Chimia-frontier deschis spre cunoaștere”**, Ediția a IV-a, Universitatea „Alexandru Ioan Cuza” Iași, 28.06.2013 – Membru în Comitetul Științific;
3. **Third Arheoinvest Congress, Interdisciplinary Research in Archaeology**, Iași, 6-8 June, 2013 - membru în Comitetul de Organizare;
4. **Simpozionul Internațional „Conferința de Chimie Contemporană”** (Academia Română și Revista de Chimie), Hotel Athenee Palace Hilton, București, 23 iunie 2013 – membru în Comitetul de Organizare;
5. **Expoziția Europeană a Creativității și Inovării – EUROINVENT**, Iași, 9 – 11 mai 2013 – președintele Salonului, membru în juriu pe cele trei saloane;
6. **International Salon PROINVENT 2013**, Cluj-Napoca, 19-23 martie 2013 - Membru în Comitetul de Organizare;
7. The 2nd Edition of **The International Conference Of Young Researchers, NEW TRENDS IN ENVIRONMENTAL AND MATERIALS ENGINEERING - TEME 2013**, Universitatea “Dunarea de Jos” Galați, 28-30, oct. 2013 (comitetul științific, profesor emeritus, laudatio + 4 comunicări);
8. **Concursul Național Tehnic-științific “Inventivitatea”**, Palatul Copiilor Iași, 7-8 septembrie 2013 (Președintele Juriului)

#### **Activitate didactică :**

În anul universitar 2012 – 2013 am de efectuat un număr total mediu de 15,75 ore/săptămână activități didactice, din cele 24,15 ore/săptămână total activități, după cum urmează :

##### **- Cursuri:**

1. Expertiză științifică a operelor de artă (anul II Master) 3,75 ore;
2. Chimie pentru conservare-restaurare (anul II Licență) 4,00 ore;
3. Restaurare metal (anul III Licență) 1,00 ore.

##### **- Lucrări practice:**

1. Expertiză științifică a operelor de artă (anul II Master) 4,5 ore;
2. Chimie pentru conservare-restaurare (anul II Licență) 2,00 ore;
3. Restaurare metal (anul III Licență) 0,50 ore.

- **Alte activități** cumulate însumând 8,4 ore, cuprind:
  1. *Examene:* 0,9 ore/s pt mân (ce corespund pentru 38 de studenți în loc de 48 efectiv pentru 2009-2010 );
  2. *Consultații:* 3,00 ore/s pt mân (1,00 ore dizertații și 2,00 ore licențe );
  3. *Participare la Consiliul Profesional:* 0,5 ore/s pt mân
  4. *Cercetare:* 4,00 ore/s pt mân .

**Titular la alte discipline din Universitatea „Al.I.Cuza” Iași:**

- **Ecologia sistemelor sportive**, Master, anul I, sem I (Facultatea de Ed. Fizică și Sport) 2,5 ore/s ptamân curs și 1,5 ore/s ptamân seminar;
- **Tendințe actuale în cercetarea fundamentală și aplicativă, anul I, Școala Doctorală de Știință a Mediului** (Facultatea de Geografie și Geologie), 3,2 ore/s pt mân ;
- **Factorii de mediu și impactul lor asupra sistemelor biotice și abiotice, Școala Doctorală de Știință a Mediului** (Facultatea de Geografie și Geologie), 3,2 ore/s pt mân
- **Modulul de pregătire complementară** (Facultatea de Geografie și Geologie), 3,2 ore/s pt mân
- **Conducere teme de doctorat**, anul I, II și III, Școala Doctorală de Știință a Mediului (Facultatea de Geografie și Geologie)  $0,5 \times 12 = 6,00$  ore/s pt mân .

**Titular la discipline de la Masterul „Cercetări criminalistice” din Academia de Poliție „Al.I.Cuza” București, unde Universitatea „Al.I.Cuza” Iași este partener:**

- **Cercetarea criminalistică a bunurilor de patrimoniu și a documentelor falsificate**, Master, anul I, sem II (Facultatea de Poliție) 4 ore/s ptamân curs și 0,75 ore/s ptamân laborator;
- **Conservarea urmelor formale și a urmelor materice**, Master, anul I, sem II (Facultatea de Poliție) 2 ore/s ptamân curs și 0,75 ore/s ptamân seminar;
- **Bazele cercetării în domeniul științelor naturii**, Master, anul I, sem II (Facultatea de Poliție) 4 ore/s ptamân curs

**Activități de expertizare:**

- Executarea expertizelor pentru 3 lucrări de restaurare și pictură frescă ;
- Executarea expertizelor pentru 5 probe de var utilizate la realizarea frescelor;
- Executarea expertizelor de autentificare pentru 6 viole Stradivarius;
- Executarea expertizelor de autentificare pentru 7 picturi de sec. XVII și XIX.