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Dosar individual

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Criteriaul I – Output

1. Articole științifice publicate în reviste indexate ISI (cu menționare factorului de impact în cazul celor cotate)

1. Comparative risk assessment of residential radon exposures in two radon-prone areas, Ștei (Romania) and Torrelodones (Spain), C. Sainz, A. Dinu, T. Dicu, K. Szacsvai, C. Cosma, L. S. Quindós, *Science of The Total Environment*, Volume 407, Issue 15, Pages 4452-4460, 2009 - **Impact Factor 2.579**
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6. Radon in water from Transylvania (Romania), **Cosma C.**, Moldovan M., Dicu T., Kovacs T., *Radiation Measurement*, 43, 1423-1428, 2008- **Impact Factor 1.477**
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8. Preliminary dating results on ancient ceramics from Romania by means of thermoluminescence, **Cosma C.**, Benea V., Timar A., Barbos D., Paunoiu C, *Radiation Measurements* nr. 41, 987-990, 2006- **Impact Factor 1.477**

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3. Sustainable development and public health in the Romanian region of the Lower Danube, **C. Cosma**, R. M. Petrescu-Mag, C. Malos, A. Dinu, A. Timar, R. Patrutoiu, *Central European Journal of Occupational and Environmental Medicine*, Argumentum Publishing and Printing House (Budapest), Hu ISSN 1219-1221, p.22, 14 (1), 2008.
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1. **Cosma Constantin**, *Recent results about Radon-Lung Cancer Risk*, capitol publicat în "Întreprinderea Sustenabilă", Vol. 1, pp. 79-85, Editura U.T.PRES, ISBN (10) 973-662-265-7, 2006.

2. Variation of outdoor radon levels in urban Areas of Cluj County, A. Dinu, I. Haiduc, M.S. Beldean-Galea, F. Cosma, **C. Cosma**, *Studia Universitatis Babeș-Bolyai, Geographia*, nr. 3, pag. 116-121, ISSN: 1221-079x, 2009.

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5. Estimarea riscului de expunere datorat radonului-studiu preliminar, Dinu A., Dicu T., Szacsvai K., **Cosma C.**, *Environment & Progress* Vol. 11/2007, Cluj Napoca, p. 147-150, 2008.

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20. Alpha Particle Skin Dosimetry for the Assessment of Skin Cancer Risk by Radon Progeny ^{218}Po and ^{214}Po , Dinu Alexandra, W. Hofmann, C. **Cosma**, *Environment & Progress* Vol. 3/2005, Editura Carpatica, Cluj Napoca, p. 147-152, 2005.
21. Health risks induced by the radon progeny radioactivity, Dinu Alexandra, C. **Cosma**, *Proceedings of International Balcanic Workshop on Applied Physics IBWAP*, Constanța, 5-7 iulie 2005.
22. Assessment of health risks to skin as an effect of radon progeny deposition for the patients during underwater radon therapy, Dinu Alexandra, C. **Cosma**, *Coferința internațională Doze mici de radiații, concepte, efecte și riscuri pentru sănătate*, Timisoara, iunie 2005.
23. Doze joase de radiație ionizantă: efectul Bystander și răspunsul adaptativ, Dicu T., Oltean A.D., **Cosma C.**, *Environment & Progress*, 9, 163-170, 2007.
24. Determinarea activității antioxidante a unor extracte naturale din plante, Dicu T., I. D. Postescu, **Cosma C.**, *EcoTerra*, 22-23, 10-11, 2009.
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32. Estimation of environmental radionuclide concentration in soils, a comparison of methods for the annual radiation dose determination in luminescence dating, Timar A., **Cosma C.**, Benea V., Begy R., Jobagy V., Szeiler G., Barbos D., Fulea D., *Studia Universitatis, Babes-Bolyai, Geologia*, 52 (1), 80-81, 2007.
- 33 Properties of lignite from Oltenia and their influence on the environment, **Cosma C.**, Petrescu I, Meilescu C., Timar A., *Studia Universitatis Babes-Bolyai, Ambientum*, I, 1—2 p.: 65-75, 2007.

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35. Datarea prin luminescenta stimulate termic (TL) si optic (OSL). Aplicatii in arheologie, **Cosma C.**, Benea V., Timar A., Gligor M., Varvara S., *ACTA MVSEI APVLENSIS*, Apulum, XLV, 579-598, 2008.
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41. Metode nucleare de datare si aplicatii in arheologie si mediu, **C. Cosma**, A. Timar, V. Benea, R. Begy, *Proceedings of Conferința internațională Environment – Research, Protection and Management 2007*.
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7. Editor de volume publicate în edituri naționale și internaționale

1. **C. Cosma**, D. Ristoiu, I. Haiduc, Environment and Progress/6: Mediul-Cercetare, protectie si gestiune, Editura EFES, 2006, pp. 532, ISSN 1584 – 6733.

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8. Brevete internaționale

9. Brevete naționale

Brevet A/00510/2008 cu titlul „Procedeu ecologic automatizat de tratare a apelor din piscinele publice în vederea creșterii siguranței utilizatorilor”, Beneficiar ICPE Bistrița

10. Impact tehnologic al brevetelor: resurse financiare extrabugetare atrase în relație cu economia

11. Realizări artistice naționale și internaționale (Domeniul Arte)

(Expoziții, spectacole, concerte, publicații, filme, înregistrări)

Criteriul II – Prestigiu profesional

1. Citări ale articolelor ISI listate la Criteriul I: (2) (Vezi Anexa 1)

2005	2006	2007	2008	2009
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2. Alte citări ale lucrărilor listate mai sus

- Lucrarea **Some Aspects of Radioactive Contamination after Chernobyl Accident in Romania** din **JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY**, 251, 221-226, 2002 este citata in: **M. L'Annunziata, Handbook of radioactivity analysis, Academic Press, Elsevier, 2004.**

- aproximativ **210 citări** în alte lucrări, reviste, volume

- **peste 11 citări** în presa internațională/ națională referitoare la articolul „Comparative risk assessment of residential radon exposures in two radon-prone areas, Ștei (Romania) and Torrelodones (Spain)”, publicat în revista ISI (Impact Factor 2.579) *Science of The Total Environment* în 2009:

http://www.elpais.com/articulo/madrid/Torrelodones/tiene/niveles/radon/superiores/recomendado/elpepiespmad/20090930elpmad_2/Tes

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http://www.stiintaazi.ro/index.php?option=com_content&view=article&id=4401:radioactivitate-cu-mult-peste-media-europeana-langa-fostele-mine-romanesti-de-uraniu&catid=52:fizica&Itemid=74

<http://www.StiintaAzi.ro/radon>

3. Citări în perioada 2005-2009 ale articolelor anterioare anului 2005: (58/26*) (Vezi Anexa 1): *- cu excluderea tuturor autocitarilor grupului

2005	2006	2007	2008	2009	2010
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4*	7*	3*	4*	7*	1*

4. Distincții, premii și alte recunoașteri naționale și internaționale

2003 - Premiul Horia Hulubei al Academiei Române în Fizica 8/I/2003

2004, 2005, 2007, 2008, 2009, Diplome și premii UBB pentru cercetare științifică

1996/1997 – Bursa de cercetare de la guvernul Belgian, Universitatea din Gent

1997 – Invitat de Academia de Stiinte din Novosibirsk la expeditia in M-tii Altai (Lacul Teleskoe) pentru cartarea radonului pe falii seismice

Reviewer/referent la urmatoarele reviste internationale cotate ISI:

- Radiation Measurements, din 2007
- Journal of Applied Radiation and Isotopes din 2008
- Acta Geophysica, din 2009
- Geofluids din 2010
- Romanian Journal of Physics din 2008

Participarea in perioada 1995-1997 ca si partener la doua proiecte europene in programul PC4 legate de radon (surse si masuri de remediere – 10.000 ECU; expunere si risc de cancer – 20.000 ECU).

Invitat in proiectul international IRP-International Radon Project (2006-2008) si contributie ca autor in monografia editata la terminarea proiectului “**Handbook on indoor radon**”, editata de World Health Organisation, ISBN 978 92 1547673, 94 pp, 2009.

Referent la teze de doctorat (Universitatea Tehnica Cluj, Universitatea din Craiova, Universitatea din Bucuresti).

5. Studenți naționali atrași (activități de coordonare științifică și didactică)

- Îndrumare lucrari de licență (număr lucrări susținute): 10 pe perioada 2005-2009; peste 50 in total
- Îndrumare lucrări de disertație (număr lucrări susținute): 24 pe perioada 2005-2009, peste 45 in total
- Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute)

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8	Delia Marcu
9	Dan Fulea
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12	Adelina Apostu
13	Tahas Alexandru
14	Iencian Ioan
15	Liviu Suci

Lista nominală a tezelor susținute	
Steluța Râmboiu	
Efectele contaminării cu Radon-222 si produși de filiație asupra organismului	
UNIVERSITATEA BABEȘ-BOLYAI	
2001	
Iosif Mendichovszky	
Metode si Aplicatii in Imagistica RMN	
UNIVERSITATEA BABEȘ-BOLYAI	
2007	
Ioan Suci	
Studierea prin metode atomice si nucleare a concentratiei de crom si metale grele in sol in zone de interes din Transilvania	
UNIVERSITATEA BABEȘ-BOLYAI	
2008	

Dumitru Bărbos
Analiza multi-elementala prin spectrometrie gama si gama promptă
UNIVERSITATEA BABEȘ-BOLYAI
2008
Tamas Neda
Migrarea izotopilor radonului in sol si in diferiti factori de mediu
UNIVERSITATEA BABEȘ-BOLYAI
2008
Vasile Benea
Aplicarea luminiscentei stimulate termic (TL) și optic (OSL) la datarea ceramicilor
UNIVERSITATEA BABEȘ-BOLYAI
2008
Mircea Moldovan
Studii asupra radonului in diferiti factori de mediu
UNIVERSITATEA BABEȘ-BOLYAI
2008
Robert Begy
Studii de mediu prin utilizarea radioizotopului PB-210
UNIVERSITATEA BABEȘ-BOLYAI
2009
Tiberius Dicu
Efecte biologice la doze joase de radiație ionizantă
UNIVERSITATEA BABEȘ-BOLYAI
2009
Alexandra Dinu
Corelații între radonul din locuințe și incidența cancerului pulmonar în zona minieră Ștei-Băița
UNIVERSITATEA BABEȘ-BOLYAI
2009

- Post-doctoranzi (lista nominală):

Lista nominală a Post-doctoranzilor înmatriculați (Platiti din contracte)	
1	Dinu Alexandra din 2009
2	Benea Vasile in perioada 2007-2008
3	Dicu Tiberius in 2009

6. Studenți internaționali atrați (activități de coordonare științifică și didactică)

- Îndrumare lucrari de licenta (număr lucrări susținute)
- Îndrumare lucrări de disertație (număr lucrări susținute)
- Doctoranzi (lista nominală a doctoranzilor înmatriculați resp. lista nominală a tezelor susținute)

Benea Vasile (Republica Moldova)/ teza “Datarea prin termoluminiscenta si luminiscenta stimulata optic a unor ceramici neolitice si romane”

- Post-doctoranzi (lista nominală)

7. Membru in comitetul de redacție la reviste ISI

Din 2006- Referent la **Radiation Measurements, Elsevier**

Din 2007- Referent la **Applied Radiation and Isotopes, Elsevier**

Din 2008- Referent la **Romanian Journal of Physics, Publishing House of the Romanian Academy**

Din 2009 - Referent la **Acta Geophysica**

Din 2010- Referent la **Geofluids**

8. Membru in comitetul de redacție la reviste BDI

Annalele Universitatii din Oradea-Seria matematica fizica (2000-2006)

Annalele Universitatii din Sibiu Seria Fizica, (2002-2005)

Environment and Progress (2003-2010)

Studia UBB – Ambientum (2007-2010)

Ecoterra (2004-2010)

9. Participări la programe/granturi de cercetare finanțate din sursă internațională (se menționează și valoarea)

Programul/ Proiectul	Valoarea (EURO)	Funcția	Perioada
Program în cadrul “Six Framework Programme Priority 7”/ Contract Nr. C506015, BIOLOGY HEALTH AND ENVIRONMENTAL EDUCATION FOR BETTER CITIZENSHIP acronim BIOHEAD CITIZEN	6000	Membru	2004 - 2008

10. Participări la programe/granturi finanțate din sursă națională (se menționează și valoarea)

Programul/ Proiectul	Valoarea (RON)	Funcția	Perioada
Program CEEEX MENER/ Proiect Nr. 614 / 2005 MONITORIZAREA ULTRASENSIBILĂ A POLUANȚILOR BAZATĂ PE SISTEME TANDEM CU DETECTORI NECONVENȚIONALI acronim MONUPOL	260000	Membru	2005 - 2008

11. Coordonări de programe/granturi finanțate din sursă internațională (se menționează și valoarea)

Programul/ Proiectul	Valoarea (EURO)	Funcția	Perioada
Programul operațional sectorial Creșterea Competitivității Economice, co-finanțat prin Fondul European de Dezvoltare Regională/ Proiect Nr. 586/ 12487 IMPLEMENTAREA TEHNICILOR DE REMEDIERE A RADONULUI ÎN LOCUINȚE DIN ZONA MINEI URANIFERE BĂIȚA acronim IRART	1.200.000	Coordonator proiect	2009/2010 - 2013
Proiect WHO-IRP (INTERNATIONAL RADON PROJECT) , FINANȚAT DE WORLD HEALTH ORGANISATION (WHO)-GENEVA-ELVETIA	2.000	Responsabil proiect	2006 - 2008
Program BILATERAL ROMANIA-BELGIA (RO-WA)/ Proiect Nr. 3/2006-2008 MEDIUL SI EDUCATIA PENTRU MEDIU. FORMARE SI CERCETARE PENTRU O DEZVOLTARE DURABILA	4.000	Director proiect	2005 - 2008

12. Coordonări de programe/granturi finanțate din sursă națională (se menționează și valoarea)

Programul/ Proiectul	Valoarea (RON)	Funcția	Perioada
Program PN II/ Proiect Nr. 32149/ 2008 STUDII EXPERIMENTALE ȘI CLINICE ASUPRA RADONULUI ÎN JUDEȚELE DIN CENTRUL TRANSILVANIEI ȘI IMPACTUL ASUPRA MORFOFIZIOLOGIEI APARATULUI RESPIRATOR LA OM ȘI ANIMAL acronim SERTIR	2.000.000	Director proiect	2008 - 2011
Program CAPACITĂȚI, BILATERAL/ Proiect Nr. 93/2008 THORON MEASUREMENTS IN RESIDENTIAL BUILDINGS AND WORKPLACES	96.000	Director proiect	2008 - 2009
Program CEEEX / Proiect Nr. 749/ 2006 VARSTE ABSOLUTE PRIN METODE NUCLEARE CU APLICATII IN ARHEOLOGIE, GEOLOGIE SI MEDIU, acronim VAMNA	1.500.000	Director proiect	2006 - 2008
Program CNCSIS/ Proiect Nr. 1730/ 2005 UTILIZAREA DETECTORILOR DE URME IN STUDII DE MEDIU SI GEOFIZICA. EXPERIMENTAREA SI TESTAREA UNOR DETECTORI DE URME INDIGENI	160.000	Director proiect	2005
Program CEEEX/ Proiect Nr. CEX 06-10-78/2006 NOI ABORDARI IN STUDII BIOMEDICALE SI DE MEDIU FOLOSIND METODE ATOMICE SI NUCLEARE acronim SANBIMED	195.000	Responsabil proiect	2006 - 2008
Program PN II/ Proiect Nr. 31034/ 2007 METODE EXPERIMENTALE CONVENȚIONALE SI NECONVENȚIONALE DE DETERMINARE A NIVELURILOR DE PERFORMANTA A MATERIALELOR, ELEMENTELOR SI STRUCTURILOR DE CONSTRUCȚII acronim METEX	100.000	Responsabil proiect	2007 - 2010
Program PN II/ Proiect Nr. 31052/ 2007 CERCETARI MULTIDISCIPLINARE IN VEDEREA STABILIRII UNOR SOLUTII PARTICULARE SI GLOBALE DE REDUCERE A IMPACTULUI REALIZARII, CONSOLIDARII SI POSTUTILIZARII CONSTRUCȚIILOR ASUPRA MEDIULUI NATURAL acronim PROMED	90.000	Responsabil proiect	2007 - 2010
Program PN II/ 2007 INVEN-INOVARE/ Proiect Nr. 273/ 2007 TEHNOLOGII ECOLOGICE AVANSATE DE TRATARE A APELOR DIN PISCINELE OLIMPICE	85.000	Responsabil proiect	2008- 2009
Program PN II- INOVARE/ Proiect Nr.1337/2008 TEHNOLOGIE PENTRU TESTAREA COMPLEXA A SCHIMBATOARELOR DE CALDURA PRIN SIMULAREA CONDITIILOR REALE DE EXPLOATARE acronim VIBRAAL	55.521	Responsabil proiect	2008- 2009
Program CEEEX - MENER/ Proiect Nr. 747/2006 CERCETARI PRIVIND CARTAREA NATIONALA A RADONULUI (IN INTERIOR SI IN DIFERITI FACTORI DE MEDIU) PENTRU PROTECTIA POPULATIEI IN CONFORMITATE CU CERINTELE NORMELOR INTERNATIONALE SI ALE UE acronim RADROM	300000	Responsabil proiect	2006 - 2008
Program CEREX INCERC, CEEEX/ Proiect Nr.1736/2005 ALINIAREA STRUCTURII SI OBIECTIVELOR CERCETARII EXPERIMENTALE LA CERINTELE PIETEI INTERNE SI A CELEI COMUNE EUROPENE PENTRU CONSTRUCȚII	90.000	Responsabil proiect	2005 - 2007

Program CEREX INCERC, CEEEX/ Proiect Nr.1831/2005 PROIECTAREA ECOLOGICĂ, O NOUĂ ABORDARE LA NIVEL EUROPEAN A REALIZĂRII ȘI REABILITĂRII CONSTRUCȚIILOR DIN BETON ARMAT acronim PROECO	130.000	Responsabil proiect	2005 - 2007
Program AGRAL/ Proiect Nr. 181 TEHNOLOGIE ECOLOGICA DE OXIGENARE SI DEZINFECTIE A APELOR PISCICOLE, UTILIZATA PENTRU CRESTEREA CANTITATIVA SI CALITATIVA A PRODUCTIEI DE PESTE	50.000	Responsabil proiect	2003 - 2005
Program AGRAL/ Proiect Nr. 180 TEHNOLOGIE DE DEZINFECTIE, CONDITIONARE SI PREZERVARE A OUALOR DE CONSUM IN SPATII DE DEPOZITARE SI PRODUCTIE UTILIZAND ACTIUNEA COMBINATA A OZONULUI, RADIATIILOR UV SI REFRIGERARII	52.000	Responsabil proiect	2003 - 2005
Program AGRAL/ Proiect Nr. 213 TEHNOLOGIE SI ECHIPAMENTE DE STERILIZARE A APEI UTILIZATE IN INDUSTRIA ALIMENTARA FOLOSIND RADIATIILE ULTRAVIOLETE IN SCOPUL CRESTERII SECURITATII ALIMENTATIEI	33.000	Responsabil proiect	2003 - 2005
Program RELANSIN/ Proiect Nr. 1739 INSTALATIE MODULARA PENTRU EPURAREA APELOR REZIDUALE	51.000	Responsabil proiect	2003 - 2005
Program INVENT/ Proiect Nr. 124 ECHIPAMENT DE DEZINFECTIE CU OZON	45.000	Responsabil proiect	2003 - 2005
Program MENER/ Proiect Nr. 304 CRESTEREA RANDAMENTULUI DE TRANSFER DE MASA PRIN UTILIZAREA COMBINATA A SISTEMELOR DE AERARE PNEUMATICA, MECANICA SI CU PELICULA BIOLOGICA IN REABILITAREA STATIILOR DE EPURARE ORASANESTI	30.000	Responsabil proiect	2003 - 2005
Program AGRAL/ Proiect Nr. 276 TEHNOLOGIE SI INSTALATIE DE OZONIZARE A APELOR DE PROCESS IN INDUSTRIA CARNII DE PASARE IN VEDEREA DEZINFECTIEI SI CONDITIONARII ECOLOGICE	75.000	Responsabil proiect	2003 - 2005

13. Profesor invitat la universitati de prestigiu, cu titlu oficial

Invited Lecturer/scientist la Washington University Seattle, Radioprotection Clinic Health Center în 2000

Invited Lecturer/scientist la Academy of Science of Novosibirsk în 1997

14. Membru în comisii profesionale relevante, cu titlu oficial

Membru fondator la International Geo-Hazards Research Society din 2008;

Membru în conducere la Romanian Radiological Protection Society din 2004;

European Physics Society din 2002;

Indoor Air Quality and Climate Society (1996-2004);

Balkan Physical Society din 2006;

American Medical Physics Society USA din 2002;

Balkan Environmental Association (B.EN.A.) din 2004.

15. Conferințe invitate internaționale

C. Cosma et al., *Radon potential from soil measurement using a special method of sampling*, lucrare invitată la INTERNATIONAL GEO-HAZARDS RESEARCH SYMPOSIUM İSTANBUL, TURKEY, 9-11 MARCH 2009 [HTTP://WWW.IGRS.MAM.GOV.TR/](http://www.IGRS.MAM.GOV.TR/)

Cosma C. et al., *Lung cancer risk and residential radon exposure in Romania*, lucrare invitată la 3Rd Central and Eastern Europe Conference on Health and Environment 19-22 Octombrie 2008 Cluj-Napoca [HTTP://WWW.CEECHE.ORG/INFO.ASPX?DP=PRELIMINARY%20PROGRAM](http://www.ceecche.org/info.aspx?dp=preliminary%20program)

C. Cosma et al., *Nuclear and Seminucler Dating Methods: Application in Archeology, Geology and Environmental Science*, lucrare invitată la Terrestrial radionuclides in the Environment, Environmental Conferences Veszprem 2008, ISBN 978 963 9696 488

C. Cosma et al., *Biology Based Lung Cancer Model for Chronic Low Radon Exposures*, lucrare invitată la 8 th International Symposium on the Natural Radiation Environment (NRE-VIII), 7 – 12 October 2007 Búzios, Rio de Janeiro, Brazil [HTTP://NREVIII.IRD.GOV.BR/](http://nreviii.ird.gov.br/)

16. Membru în comitete de organizare sau științifice ale unor conferințe internaționale

2001- Membru în comitetul științific al Conferinței Internaționale „Methodes avancees d’analyse spectroscopique” Cluj-Napoca, Romania, organizată de UJF Grenoble și UBB

2003- Membru în comitetul științific al Conferinței Internaționale „Environment & Progress”, 3st edition, Șimleu Silvaniei, Romania

2004- Membru în comitetul științific al Seminarului Internațional „Séminaire international sur le Droit nucléaire et la protection de l’environnement” Cluj –Napoca, Romania, organizat de NEA, EC, CNCAN, UBB

2005- Membru în comitetul științific/ de organizare al Conferinței Internaționale „Isotopic and Molecular Processes”, 4st edition Cluj –Napoca, Romania, organizată de INCDTIM și UBB

2007- Membru în comitetul de organizare al Congresului Internațional „Central and East European IRPA Regional Congress” Brașov, Romania, organizat de IRPA și RSRP

2007- Membru în comitetul de organizare al Conferinței Internaționale BENA-ICAI „Sustainable Development in the Balkan Area: Vision and Reality”, 18-20 iulie, 2007, Alba Iulia

2009- Membru în comitetul de organizare al Conferinței Internaționale „The 10th International Conference on Gas Geochemistry” ICGG 10, 14-21 Septembrie 2009 Cluj-Napoca

2009- Membru în comitetul științific al Conferinței Internaționale „Environment & Progress”, 9st edition, Cluj-Napoca, Romania

III. Realizare remarcabilă

Realizarea, dotarea si includerea in circuitul international a Laboratorului de datare nucleara (termoluminiscenta, luminiscenta stimulata optic si datarea sedimentelor tinere prin metoda Pb-210).

Inainte de 1990 au existat incercari nereusite de a implementa metode de datare in Romania, la Cluj (datare cu radiocarbon, termoluminiscenta) si in Bucuresti (potasiu-argon). Dupa anul 2000 cu ajutorul unei instalatii simple de termoluminiscenta, destinata dozimetriei medicale, primita donatie de la Universitatea din Koln, am avut indrazneala de a adapta aceasta aparatura pentru datarea unor ceramici neolitice si romane. Primele rezultate au fost incurajatoare si am orientat unul din primii doctoranzi Vasile Benea pe aceasta directie. Ulterior, grupul a fost completat cu inca doua persoane Alida Timar si Begy Robert. Metoda datarii luminiscente implica aplicarea simultana a doua tipuri de masuratori: captarea semnalului optic indus de radioactivitatea ambientala in locul in care s-a pastrat obiectul si masurarea exacta a dozei anuale care la randul sau este o problema complicata, realizandu-se prin masuratori care includ spectrometria gama de inalta rezolutie, spectrometria alfa sau activarea cu neutroni. O a treia problema ce trebuie rezolvata este legata de prelucrarea probelor in vederea masurarii semnalului optic.

Am reusit in ultimii 5 ani sa rezolv toate cele 3 problemele prin:

- Achizitionarea unei instalatii moderne de luminiscenta (TL si OSL) Riso TL-OSL-20/D care citeste semnalul luminiscent avand si capacitatea de a iradia cu o sursa beta in vederea provocarii artificiale a luminiscentei. Instalatia lucreaza fara intreruperi din mai 2008
- Procurarea a doua instalatii de spectrometrie gama de inalta rezolutie HP-Ge racite electromecanic la temperatura azotului lichid, una cu performante deosebite in domeniul energiilor mici si de asemenea am construit 2 turnuri de plumb (2x1200Kg) pentru a reduce cat mai mult fondul si a imbunatati sensibilitatea de detectie. Am achizitionat de asemenea doua module de spectrometrie alfa care lucreaza in conditii foarte bune si suntem in faza in care ne dezvoltam micul laborator de radiochimie pentru obtinerea surselor alfa.
- A fost procurata si instalata aparatura conexas necesara obtinerii probelor in vederea datarii (hote, separatoare, site, lichide grele, acizi, sticlarii, microbalante, etc) si s-a amenajat un laborator special din 3 componente separate. Laboratorul este functional de peste un an de zile.

Toate aceste instalatii si aparate au fost procurate prin granturile prezentate anterior, valoarea totala investita este de peste 300.000 Euro. Au fost elaborat doua teze de doctorat in 2008 si 2009, una va fi sustinuta in mai 2010 iar alte 2 urmeaza in 2011 si 2012.

Toti doctoranzii, pe baza unor legaturi directe pe care le-am dezvoltat cu ocazia bursei castigate prin concurs de la guvernul belgian, au efectuat stagii master sau doctoral in strainatate ceea ce a facilitat obtinerea unor rezultate rapide si valoroase. Am avut colaborari deosebite cu Universitatile din Gent, Veszprem si Cantabria. In momentul de fata Drd. Stefan Vasiliniuc efectueaza un stagiu de 6 luni in Gent. Am efectuat primele datari in Romania pe ceramici, loess si sol cu rezultate publicate in reviste ISI si comunicari la conferinte internationale de specialitate. De asemenea prin metoda Pb-210 am datat rate de sedimentare pentru lacurile Sf. Ana si Lacul Rosu.

Lucrarea datand loes-ul romanesc a obtinut Premiul international „Vagn Mejdahl Prize” for Outstanding Presentation obtinut in cadrul „12th International Conference on Luminescence and Electron Spin Resonance Dating”, 18th- 22nd September 2008, Beijing, China.

Am primit propuneri de colaborare din India, SUA, Belgia si Ungaria. Doctoranzi de la Universitatile din Bucuresti si Iasi au efectuat stagii doctorale pentru a se instrui in laboratorul nostru, dorind sa-si dezvolte laboratoare similare de datare luminiscenta.

Noi am facut inca un pas inainte abordand datarea holocenului prin studiul dezechilibrelor in seria uraniului, directie pe care am abordat-o in 2009 si pe care au fost angajati 2 doctoranzi noi.

Publicatii relevante:

1. Preliminary dating results on ancient ceramics from Romania by means of thermoluminescence, **Cosma C.**, Benea V., Timar A., Barbos D., Paunoiu C., *Radiation Measurements* nr. 41, 987-990, 2006
2. Luminescent dating of Neolithic ceramics from Lumea Nouă, Romania, Benea V., Vandenberghe D., Timar A., Van den Haute P., **Cosma C.**, Gligor M., Florescu C., *Geochronometria*, 28, 9-16, 2007
3. Using natural luminescent materials and highly sensitive sintered dosimeters MCP-N (LiF:Mg,Cu,P) in radiation dosimetry, **Cosma C.**, Timar A., Benea V., Pop I., Jurcut T., Ciorba D., *Journal of optoelectronics and advanced materials*, 10, nr 3, 573-577, 2008
4. The Determination of Absolute Intensity of 234mPa's 1001 keV Gamma Emission Using Monte Carlo Simulation, Begy R., **Cosma C.**, Timar A., Fulea D., *Journal of Radiation Research*, nr 50, 277-279, 2009

5. Recent changes in Red Lake (Romania) sedimentation rate determined from depth profiles of ^{210}Pb and ^{137}Cs radioisotopes, Begy R., **Cosma C.**, Timar A., *J. of Enviro. Radioactivity*, 100, 644-648, 2009
6. Optical dating of Romanian loess using fine-grained quartz, Timar A., Vandenberghe D., Panaiotu E.C., Panaiotu C.G., Necula C., **Cosma C.** and Van den haute P., *Quaternary Geochronology*, doi: 10.1016/j.quageo.2009.03.003. Available online 2 April 2009
7. Sediment accumulation rate in the red lake (Romania) determined by Pb-210 and Cs-137 radioisotopes, Begy, R., **Cosma, C.**, Horvath, Z., *Romanian Journal in Physics*, 54 (9-10), pp. 943-949, 2009
8. Alte 3 lucrari sunt trimise spre publicare

Data: 22.03.2010

Semnătura:

Prof. Dr. Constantin Cosma

Certific validitatea datelor prezentate

Sef de catedră,

Scopus
19 March 2010

1. Begy, R., Cosma, C., Horvath, Z.

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DOCUMENT TYPE: **Article**/ SOURCE: Scopus

2. Dicu, T., Postescu, I.D., Foris, V., Brie, I., Fischer-Fodor, E., Cernea, V., Moldovan, M., Cosma, C.

The effect of a grape seed extract on radiation-induced DNA damage in human lymphocytes (2009) AIP Conference Proceedings, 1131, pp. 181-186.

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[70450207159&partnerID=40&md5=393e5ed7c221ef78b25ddfb5d11f5976](http://www.scopus.com/inward/record.url?eid=2-s2.0-70450207159&partnerID=40&md5=393e5ed7c221ef78b25ddfb5d11f5976)

DOCUMENT TYPE: **Conference Paper**/ SOURCE: Scopus

3. Begy, R.-C., Cosma, C., Timar, A., Fulea, D.

The determination of absolute intensity of ^{234m}Pa 's 1001 keV gamma emission using monte carlo simulation

(2009) Journal of Radiation Research, 50 (3), pp. 277-279.

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DOCUMENT TYPE: **Article**/ SOURCE: Scopus

4. Fulea, D., Cosma, C., Pop, I.G.

Monte Carlo method for radiological X-ray examinations

(2009) Romanian Journal in Physics, 54 (7-8), pp. 629-639.

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5. Cosma, C., Szacsvai, K., Dinu, A., Ciorba, D., Dicu, T., Suci, L.

Preliminary integrated indoor radon measurements in Transylvania (Romania)

(2009) Isotopes in Environmental and Health Studies, 45 (3), pp. 259-268.

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1. Sainz, C., Dinu, A., Dicu, T., Szacsvai, K., Cosma, C., Quindós, L.S.

Comparative risk assessment of residential radon exposures in two radon-prone areas, Ștei (Romania) and Torrelodones (Spain)

(2009) Science of the Total Environment, 407 (15), pp. 4452-4460.

[http://www.scopus.com/inward/record.url?eid=2-s2.0-](http://www.scopus.com/inward/record.url?eid=2-s2.0-67349147049&partnerID=40&md5=2e3ee160d16be0dff673356a489827f6)

[67349147049&partnerID=40&md5=2e3ee160d16be0dff673356a489827f6](http://www.scopus.com/inward/record.url?eid=2-s2.0-67349147049&partnerID=40&md5=2e3ee160d16be0dff673356a489827f6)

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6. Cosma, C., Timar, A., Benea, V., Pop, I., Moldovan, M.

Carbon molecular sieve for radon and thoron monitoring

(2009) Romanian Journal in Physics, 54 (3-4), pp. 401-405.

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[68749108140&partnerID=40&md5=de98d0464b075e92ca954e6aad257712](http://www.scopus.com/inward/record.url?eid=2-s2.0-68749108140&partnerID=40&md5=de98d0464b075e92ca954e6aad257712)

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**7. Sainz, C., Dinu, A., Dicu, T., Szacsvai, K., Cosma, C., Quindós, L.S.
Comparative risk assessment of residential radon exposures in two radon-prone areas, Ștei (Romania) and Torrelodones (Spain)**

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DOCUMENT TYPE: Article/ SOURCE: Scopus

**8. Cosma, C., Petrescu, I., Meilescu, C., Timar, A.
Studies on the radioactivity of lignite from the area between the Danube and Motru (South-West Romania) and the incidence on the environment**

(2009) Journal of Environmental Protection and Ecology, 10 (1), pp. 192-200.
<http://www.scopus.com/inward/record.url?eid=2-s2.0-64649091999&partnerID=40&md5=027ded1c2371ac71d054f610605114b4>
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**9. Cosma, C., Ciorba, D., Timar, A., Szacsvai, K., Dinu, Al.
Radon exposure and lung cancer risk in Romania**

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11. Fulea, D., Cosma, C.

Monte Carlo sampling for gamma and beta detectors using a general purpose PC program

(2009) Radiation Measurements, 44 (3), pp. 278-282.
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12. Moldovan, M., Cosma, C., Encian, I., Dicu, T.

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13. Dicu, T., Brie, I., Virag, P., Fischer, E., Perde, M., Foriș, V., Cernea, V., Cosma, C.

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1. Dicu, T., Postescu, I.D., Foris, V., Brie, I., Fischer-Fodor, E., Cernea, V., Moldovan, M., Cosma, C.

The effect of a grape seed extract on radiation-induced DNA damage in human lymphocytes
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