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## Universitatea Babeș-Bolyai Competiția Excelenței 2010

### Dosar individual

**Notă: Toate datele se referă la perioada 2005-2009**

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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**
2. Preliminary lung cancer risk assessment of exposure to radon progeny for Transylvania, Romania, Lucia-Adina Truță-Popa, Alexandra Dinu, Tiberius Dicu, Kinga Szacsvai, **Constantin Cosma**, Werner Hofmann, *Health Physics Journal*, acceptat în 2009 Manuscript Number HPJ-S-09-00166, publicat în 2010 - **Impact Factor 0.869**
3. Radon exposure and lung cancer risk in Romania, C. Cosma, D. Ciorbă, A. Timar, K. Szacsvai, Al. Dinu, *Journal of Environmental Protection and Ecology JEPE*, ISSN 1311-5065, Book 1, Pages 94-104, 2009- **Impact Factor 0.333**
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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**
7. Radium-226 concentration in Romanian bottled mineral waters, Moldovan M., **Cosma C.**, Encian I., Dicu T. *Journal of Radioanalytical and Nuclear Chemistry*, 279, 487-491, 2009- **Impact Factor 0.659**
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**

9. 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- **Impact Factor 0.677**
10. 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- **Impact Factor 0.577**
11. Studies on the radioactivity of lignite from the area between the Danube and Motru (South-West Romania) and the incidence on the environment, **Cosma C.**, Petrescu I., Meilescu C., Timar A., *Journal of Environmental Protection and Ecology JEPE*, ISSN 1311-5065, Book 1, Pages 192-201, 2009- **Impact Factor 0.333**
12. The Determination of Absolute Intensity of <sup>234m</sup>Pa's 1001 keV Gamma Emission Using Monte Carlo Simulation, Begy R.C., **Cosma C.**, Timar A., Fulea D., *Journal of Radiation Research*, nr. 50, 277-279, 2009- **Impact Factor 1.763**
13. Carbon Molecular Sieve for Radon and Thoron Monitoring, **Cosma C.**, Timar A., Benea V., Pop I., Moldovan M., *Romanian Journal in Physics*, nr. 3-4, vol. 54, 401-405, 2009- **Impact Factor 0.333**
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18. Quality Control in Mammography Screening, L Igna, R. Burkhardt, **C. Cosma**, *Medical Physics*, Vol. 32, Issue 6, pp. 1916, 2005- **Impact Factor 3.871**
19. Some Physical Factors Which Affect the Patient Doses and the Radiological Images Quality, Fulea D., **C. Cosma**, VA Cosma, *Medical Physics*, 32, Issue 6, pp. 1916, 2005- **Impact Factor 3.871**
20. The Use of Bluetooth Technology in Multiple Monitoring of Vital Signs-ECG and Pulse, V. Cosma, D. Ciorba, **C. Cosma**, *Medical Physics*, 32, 6, pp. 1970, 2005- **Impact Factor 3.871**
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28. Monte Carlo sampling for gamma and beta detectors using a general purpose PC program, Fulea, D., **Cosma, C.**, *Radiation Measurements*, 44 (3), pp. 278-282, 2009- **Impact Factor 1.477**

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2. **Cosma Constantin**, Simultaneous measurement of radon and thoron exhalation rate from soil and building materials, *Natural Environmental Radioactivity Series, Elsevier*, Vol. VII, ISBN 0-08-044137-8, pp. 699-706, 2005.

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2. Lung cancer risk and residential radon exposure in Romania, **Cosma C.**, Dinu A., Szacsvai K., Ciorba D., Gurzău E., *Central European Journal of Occupational and Environmental Medicine*, Argumentum Publishing and Printing House (Budapest), Hu ISSN 1219-1221, p.19, 14 (1), 2008.
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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9. The effect of non-targeted cellular mechanisms on radon-induced lung cancer risk, Truta-Popa L.-A., Hofmann W. and **Cosma C.**, *Proceedings of LOWRAD, 7th International Meeting on the Effects of Low*

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10. Pb-210 and Cs-137 dating methods applied for Red Lakes's sedimentation (Romania), R.Begy, **C.Cosma**, Z.Horvath, *Central European Journal of occupational and Environmental Medicine*, vol 14 No.1 ISSN 1219-1221, 2008.

#### **4. Alte articole științifice/capitole publicate în reviste/volume cu referenți (peer-reviewed)**

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.

3. Radonul rezidențial în România - State of the art, **C. Cosma**, A. Dinu, K. Szacsvai, *Proceedings of Conferința Internațională Environment-Research, Protection and Management 2009*, pp. 37, 05-08 Noiembrie, Cluj-Napoca, 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.

6. Estimarea riscului expunerii la radon în Oltenia, Dinu A., L. Pătruțoiu, **C. Cosma**, K. Szacsvai, *Environment & Progress* Vol. 11/2007, Cluj Napoca, p. 150-154, 2008.

7. Integrated Indoor Radon Measurements in Transylvania (Romania), **C. Cosma**, K. Szacsvai, Dinu A., D. Ciorba, *Proceedings of ESIR 2007*, p. 23-28, 2007.

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11. Radon Tracks Detectors Measurements In Agnita-Sibiu Area, Szacsvai K., Dinu A., **Cosma C.**, *Analele Universității de Vest din Timișoara* Vol. XLVII/ 2006, Seria Științe Fizice, Editura Universității de Vest Timișoara, p. 91-94, 2006.

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13. Radon and radioactivity studies from underground and surface water in Sibiu Area, M. Moldovan, A. Dinu, **C. Cosma**, *Environment & Progress* Vol. 6/2006, Cluj-Napoca, p. 309-316, 2006.

14. Radon exposure versus other sources of ionizing radiation in Belgium and Romania, **C. Cosma**, A. Poffijn, K. Hening, A. Dinu, *Environment & Progress* Vol. 6/2006, Cluj Napoca, p. 83-89, 2006.

15. Măsurători de radon cu detectori de urme în școli și locuințe din Agnita și împrejurimi, Județul Sibiu, K. Szacsvai, Dinu A., **C. Cosma**, *Environment & Progress* Vol. 6/2006, Cluj Napoca, p. 478-483, 2006.

16. Studii de evaluare a nivelului de cunoștințe despre radiații și mediu în Orașul Agnita, Dinu A., A. Constantin, **C. Cosma**, *Environment & Progress* Vol. 6/2006, Cluj Napoca, p. 70-74, 2006.

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18. Alpha Particle Dosimetry for the Assessment of Skin Cancer Risk induced by Radon and its Progeny, A.L Dinu, W. Hofmann, C. **Cosma**, *Environment & Progress* Vol. 4/2005, Cluj Napoca, p. 167-172, 2005.
19. Radon exposure in Sibiu area, A. Dinu, C. **Cosma**, *Environment & Progress* Vol. 5/2005, Cluj Napoca, p. 127-131, 2005.
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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.
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- 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.
36. A comparison of methods for external dose rate determinatin in luminescence dating of archaeological materials, Timar A., **Cosma C.**, Benea V., Begy R.C., Jabaggy V., Szeiler G., Fulea D., *Foldkergi Radioizotopok a Kornyezettunneben, Pannon Egyetemi Kiado*, Egyhazy Tiborne- Editor, p. 35-44, 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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## 5. Cărți științifice publicate în edituri internaționale

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2. **Cosma Constantin**, Cost–benefit analysis applied to indoor radon measurements and remediation measures in Romania, Philippe Burny, Dacia Petrescu (eds.), *Environmental economics, Les Presses Agronomique de Gembloux, Belgique* ISBN- 97-606-526-005-4, pp. 89-97, 2008.

## 6. Cărți științifice publicate în edituri naționale acreditate

1. **Cosma C.**, Dicu T., Dinu A., Begy R., *Radonul și cancerul pulmonar*, seria Radioactivitatea mediului II, Ed. Quantum-EFES, ISBN: 978-973-88835-2-9, 169 pp., 2009.

2. **Cosma Constantin** et al., *Construcții din beton cu impact redus asupra mediului și sănătății*, Ed. MATRIX ROM, ISBN 978-973-755-515-1, 375 pp., 2009.

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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.

2. D. Ciorba, A. Ozunu, **C. Cosma**, Environment and Progress/11: Mediul-Cercetare, protectie si gestiune/Managementul dezastrelor tehnologice, Editura EFES, 2007, pp. 521, ISSN 1584 – 6733.

3. L. Suciu, D. Ciorba, **C. Cosma**, Environment and Progress/14: Mediul-Cercetare, protectie si gestiune, 2009, pp. xxx, ISSN 1584 – 6733.

4. **Cosma Constantin** et al., Editori Studia Universitatis Babeş-Bolyai- Ambientum, Ed. EFES, ISSN: 1843-3855, 2007-2010.

5. **Cosma Constantin** et al. Editor la ECOTERRA, Numerele 1-24 anii 2004-2010, [ecoterra@yahoo.com](mailto:ecoterra@yahoo.com), ISSN 1584 – 7071.

## 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)**

<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>

### **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](http://www.elpais.com/articulo/madrid/Torrelodones/tiene/niveles/radon/superiores/recomendado/elpepiespmad/20090930elpmad_2/Tes)

<http://plataformasinc.es/index.php/esl/Noticias/Un-estudio-en-Torrelodones-confirma-al-radon-como-segunda-causa-de-cancer-de-pulmon>

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

<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
<b>9</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>17</b>	<b>2</b>
<b>4*</b>	<b>7*</b>	<b>3*</b>	<b>4*</b>	<b>7*</b>	<b>1*</b>

### **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)

<b>Lista nominală a doctoranzilor înmatriculați</b>	
1	Alida Timar Gabor
2	Ștefan Vasiliniuc
3	Botond Papp
4	Adina Popa-Truța
5	Oana Rusu
6	Dan Nița
7	Andreea Rațiu
8	Delia Marcu
9	Dan Fulea
10	Kinga Hening Szacsvai
11	Ciprian Cîndea
12	Adelina Apostu
13	Tahas Alexandru
14	Iencian Ioan
15	Liviu Suci

<b>Lista nominală a tezelor susținute</b>	
<b>Steluța Râmboiu</b>	
Efectele contaminării cu Radon-222 si produși de filiație asupra organismului	
UNIVERSITATEA BABEȘ-BOLYAI	
2001	
<b>Iosif Mendichovszky</b>	
Metode si Aplicatii in Imagistica RMN	
UNIVERSITATEA BABEȘ-BOLYAI	
2007	
<b>Ioan Suci</b>	
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	

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

- Post-doctoranzi (lista nominală):

<b>Lista nominală a Post-doctoranzilor înmatriculați (Platiti din contracte)</b>	
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, <b>BIOLOGY HEALTH AND ENVIRONMENTAL EDUCATION FOR BETTER CITIZENSHIP</b> acronim <b>BIOHEAD CITIZEN</b>	6000	Membru	2004 - 2008

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

Programul/ Proiectul	Valoarea (RON)	Funcția	Perioada
Program CEE X MENER/ Proiect Nr. 614 / 2005 <b>MONITORIZAREA ULTRASENSIBILĂ A POLUANȚILOR BAZATĂ PE SISTEME TANDEM CU DETECTORI NECONVENȚIONALI</b> acronim <b>MONUPOL</b>	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 <b>IMPLEMENTAREA TEHNICILOR DE REMEDIERE A RADONULUI ÎN LOCUINȚE DIN ZONA MINEI URANIFERE BĂIȚA</b> acronim <b>IRART</b>	1.200.000	Coordonator proiect	2009/2010 - 2013
Proiect <b>WHO-IRP (INTERNATIONAL RADON PROJECT)</b> , 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 <b>MEDIUL SI EDUCATIA PENTRU MEDIU. FORMARE SI CERCETARE PENTRU O DEZVOLTARE DURABILA</b>	4.000	Director proiect	2005 - 2008

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

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



Program CEREX INCERC, CEEEX/ Proiect Nr.1831/2005 <b>PROIECTAREA ECOLOGICĂ, O NOUĂ ABORDARE LA NIVEL EUROPEAN A REALIZĂRII ȘI REABILITĂRII CONSTRUCȚIILOR DIN BETON ARMAT</b> acronim <b>PROECO</b>	<b>130.000</b>	Responsabil proiect	2005 - 2007
Program AGRAL/ Proiect Nr. 181 <b>TEHNOLOGIE ECOLOGICA DE OXIGENARE SI DEZINFECTIE A APELOR PISCICOLE, UTILIZATA PENTRU CRESTEREA CANTITATIVA SI CALITATIVA A PRODUCTIEI DE PESTE</b>	<b>50.000</b>	Responsabil proiect	2003 - 2005
Program AGRAL/ Proiect Nr. 180 <b>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</b>	<b>52.000</b>	Responsabil proiect	2003 - 2005
Program AGRAL/ Proiect Nr. 213 <b>TEHNOLOGIE SI ECHIPAMENTE DE STERILIZARE A APEI UTILIZATE IN INDUSTRIA ALIMENTARA FOLOSIND RADIATIILE ULTRAVIOLETE IN SCOPUL CRESTERII SECURITATII ALIMENTATIEI</b>	<b>33.000</b>	Responsabil proiect	2003 - 2005
Program RELANSIN/ Proiect Nr. 1739 <b>INSTALATIE MODULARA PENTRU EPURAREA APELOR REZIDUALE</b>	<b>51.000</b>	Responsabil proiect	2003 - 2005
Program INVENT/ Proiect Nr. 124 <b>ECHIPAMENT DE DEZINFECTIE CU OZON</b>	<b>45.000</b>	Responsabil proiect	2003 - 2005
Program MENER/ Proiect Nr. 304 <b>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</b>	<b>30.000</b>	Responsabil proiect	2003 - 2005
Program AGRAL/ Proiect Nr. 276 <b>TEHNOLOGIE SI INSTALATIE DE OZONIZARE A APELOR DE PROCESS IN INDUSTRIA CARNII DE PASARE IN VEDEREA DEZINFECTIEI SI CONDITIONARII ECOLOGICE</b>	<b>75.000</b>	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 3<sup>Rd</sup> 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).***

Înainte de 1990 au existat încercări nereușite de a implementa metode de datare în România, la Cluj (datare cu radiocarbon, termoluminiscenta) și în București (potasiu-argon). După anul 2000 cu ajutorul unei instalații simple de termoluminiscenta, destinată dozimetriei medicale, primită donativ de la Universitatea din Köln, am avut îndrăzneala de a adapta această aparatură pentru datarea unor ceramici neolitice și romane. Primele rezultate au fost încurajatoare și am orientat unul din primii doctoranzi Vasile Benea pe această direcție. Ulterior, grupul a fost completat cu încă două persoane Alida Timar și Begy Robert. Metoda datării luminescente implică aplicarea simultană a două tipuri de măsurători: captarea semnalului optic indus de radioactivitatea ambientală în locul în care s-a păstrat obiectul și măsurarea exactă a dozei anuale care la rândul său este o problemă complicată, realizându-se prin măsurători care includ spectrometria gama de înaltă rezoluție, spectrometria alfa sau activarea cu neutroni. O a treia problemă ce trebuie rezolvată este legată de prelucrarea probelor în vederea măsurării semnalului optic.

Am reușit în ultimii 5 ani să rezolv toate cele 3 problemele prin:

- Achiziționarea unei instalații moderne de luminiscenta (TL și OSL) Riso TL-OSL-20/D care citește semnalul luminescent având și capacitatea de a iradia cu o sursă beta în vederea provocării artificiale a luminiscentei. Instalația lucrează fără întreruperi din mai 2008
- Procurarea a două instalații de spectrometrie gama de înaltă rezoluție HP-Ge racite electromecanic la temperatura azotului lichid, una cu performanțe deosebite în domeniul energiilor mici și de asemenea am construit 2 turnuri de plumb (2x1200Kg) pentru a reduce cât mai mult fondul și a îmbunătăți sensibilitatea de detecție. Am achiziționat de asemenea două module de spectrometrie alfa care lucrează în condiții foarte bune și suntem în fază în care ne dezvoltăm micul laborator de radiochimie pentru obținerea surselor alfa.
- A fost procurată și instalată aparatură conexasă necesară obținerii probelor în vederea datării (hote, separatoare, site, lichide grele, acizi, sticlărie, microbalanțe, etc) și s-a amenajat un laborator special din 3 componente separate. Laboratorul este funcțional de peste un an de zile.

Toate aceste instalații și aparate au fost procurate prin granturile prezentate anterior, valoarea totală investită este de peste 300.000 Euro. Au fost elaborat două teze de doctorat în 2008 și 2009, una va fi susținută în mai 2010 iar alte 2 urmează în 2011 și 2012.

Toți doctoranzii, pe baza unor legături directe pe care le-am dezvoltat cu ocazia bursei castigate prin concurs de la guvernul belgian, au efectuat stagii master sau doctoral în străinătate ceea ce a facilitat obținerea unor rezultate rapide și valoroase. Am avut colaborări deosebite cu Universitățile din Gent, Veszprem și Cantabria. În momentul de față Drd. Ștefan Vasiliniuc efectuează un stagiu de 6 luni în Gent. Am efectuat primele datări în România pe ceramici, loess și sol cu rezultate publicate în reviste ISI și comunicări la conferințe internaționale de specialitate. De asemenea prin metoda Pb-210 am datat rate de sedimentare pentru lacurile Sf. Ana și Lacul Rosu.

Lucrarea datând loes-ul românesc a obținut Premiul internațional „Vagn Mejdahl Prize” for Outstanding Presentation obținut în cadrul „12<sup>th</sup> International Conference on Luminescence and Electron Spin Resonance Dating”, 18<sup>th</sup>- 22<sup>nd</sup> September 2008, Beijing, China.

Am primit propuneri de colaborare din India, SUA, Belgia și Ungaria. Doctoranzi de la Universitățile din București și Iași au efectuat stagii doctorale pentru a se instrui în laboratorul nostru, dorind să-și dezvolte laboratoare similare de datare luminescentă.

Noi am făcut încă un pas înainte abordând datarea holocenului prin studiul dezechilibrelor în seria uraniului, direcție pe care am abordat-o în 2009 și pe care au fost angajați 2 doctoranzi noi.

#### **Publicații 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  $^{210}\text{Pb}$  and  $^{137}\text{Cs}$  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.**

**Sediment accumulation rate in the red lake (Romania) determined by Pb-210 and Cs-137 radioisotopes (2009)**

Romanian Journal in Physics, 54 (9-10), pp. 943-949.  
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**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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**3. Begy, R.-C., Cosma, C., Timar, A., Fulea, D.**

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

(2009) Journal of Radiation Research, 50 (3), pp. 277-279.  
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**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.  
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**8. Cosma, C., Petrescu, I., Meilescu, C., Timar, A.**

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**10. Timar, A., Vandenberghe, D., Panaiotu, E.C., Panaiotu, C.G., Necula, C., Cosma, C., van den haute, P.**

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