

**Universitatea din Petroșani**

**Facultatea de Mine**

**Departamentul: Inginerie Minieră, Topografie și Construcții**

**Candidatură pentru abilitare**

**Domeniul: Inginerie Industrială**

**Comisia CNATDCU: Inginerie Industrială și Management**

**Candidat: Moraru Roland Iosif**

## LISTA DE LUCRĂRI

### 1<sup>0</sup> LUCRĂRI RELEVANTE PENTRU REALIZĂRILE PROFESIONALE PROPRII

1. **Moraru R.I.**, *Current Trends and Future Developments in Occupational Health and Safety Risk Management* în Roland Iosif Moraru (2012). *Current Trends and Future Developments in Occupational Health and Safety Risk Management*, **Risk Management for the Future - Theory and Cases**, Dr Jan Emblemşvåg (Ed.), , InTech, Pag. 3-28 din 496 pag. DOI: 10.5772/31577: indexed & abstracted in: EBSCO A-TO-Z; BASE - Bielefeld Academic Search Engine; SCIRUS; OCLC WorldCat; Google Scholar; Mendeley, InTech Europe, Rijeka, Croatia, Published online: 25. April, 2012, Published in print edition: April, 2012. ISBN: 978-953-51-0571-8, <http://www.intechopen.com/books/risk-management-for-the-future-theory-and-cases/current-trends-and-future-developments-in-occupational-health-and-safety-risk-management>
2. **Moraru R.I.**, *Securitate și sănătate în muncă: tratat universitar*, Editura Focus, Petroșani, ISBN 978-973-677-272-6, 2013, 537 pg
3. **Moraru, R.I.**, Băbuț, G.B., Cioca I.L., *Adressing the Human Error Assessment and Management*, ARCHIVES OF MINING SCIENCES, Volume: 55 Issue: 4, Pages: 873-878, Published: 2010  
Chemical Abstracts Service, Ulrich, DOAJ, PKP, EEV, GeoREF, U.S. Geological Survey Library, ISSN: 0860-7001, Publisher: POLISH ACAD SCIENCES, STRATA MECHANICS RES INST, UL REYMONTA 27, KRAKOW, 30-059, POLAND, Web of Science Category: Mining & Mineral Processing Subject Category: Mining & Mineral Processing, ISSN: 0860-7001, **Impact Factor** Trend Graph 2010: Archives of Mining Sciences: **0.312**, Factor de impact relativ: 0.301; Factor de impact referință: 1.015; Impact: 0.301; Impact individual: 0.100 (cf. [http://www.ad-astrea.ro/cartealba/author.php?author\\_id=18813](http://www.ad-astrea.ro/cartealba/author.php?author_id=18813)), **IDS Number: 708KA**, Factor de impact referință (Domeniu) 1.067, Factor de impact relativ (Revistă) 0.28679, Scor de influență referință (Domeniu) 0.1435 [http://apps.webofknowledge.com/full\\_record.do?product=UA&search\\_mode=GeneralSearch&qid=14&SID=X2Dlq7NpmIDa5dE1p5o&page=8&doc=71](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=14&SID=X2Dlq7NpmIDa5dE1p5o&page=8&doc=71)
4. Cioca, LI., **Moraru, RI**, *Explosion and/or Fire Risk Assessment Methodology: A Common Approach Structured for Underground Coalmine Environments*, ARCHIVES OF MINING SCIENCES Volume: 57 Issue: 1 Pages: 53-60  
Published: 2012, ISSN: 0860-7001, DOI: 10.2478/v10267-012-0004-7, Web of Science Categories: Mining & Mineral Processing Research Areas: Mining & Mineral Processing IDS Number: 936XX ISSN: 0860-7001, Update: 2012-05-31 15:54:10; BDI: [NASA Astrophysics Data System \(ADS\) http://adsabs.harvard.edu/abs/2012ArMiS..57...53C](http://adsabs.harvard.edu/abs/2012ArMiS..57...53C), Chemical Abstracts Service, Ulrich, DOAJ, PKP, EEV, GeoREF, U.S. Geological Survey Library, Factor de impact referință (Domeniu) 1.067, Factor de impact relativ (Revistă) 0.28679, Scor de influență referință (Domeniu) 0.1435, **Factor de impact 2012: 0,349**  
[http://apps.webofknowledge.com/summary.do?product=UA&search\\_mode=GeneralSearch&qid=5&SID=U1p8bNfPcEifoE72pJ&page=3](http://apps.webofknowledge.com/summary.do?product=UA&search_mode=GeneralSearch&qid=5&SID=U1p8bNfPcEifoE72pJ&page=3)
5. **Moraru, R.I.**, Băbuț, G.B., Cioca, L.I., *Rationale and Criteria Development for Risk Assessment Tool Selection in Work Environments*, *Environmental Engineering and Management Journal*, Vol. 13, No. 6, pp. 1371 - 1376, 2014, ISSN 1582 - 9596, Revistă **categorică A cotate ISI - Impact Factor 1,258**, cod CNCSIS 148; inclusă în BDI: CABI, Chemical Abstracts Service/SciFinder (ACS) (începând cu 2002), EBSCO Database (începând cu 2002), EVISA, ICAAP (International Consortium for Advancement of Academic Publications), Index Copernicus Journal Master List (ICV/2012=16,20), Journal Citation Reports® (IF=1,117, Environmental Sciences, Ranked 146 of 206, 5-Year Impact Factor: 0,970, Article Influence® Score: 0,085), MedSci, ProQuest (începând cu 2002), The National University Research Council (RO), Science Citation Index Expanded™ (Thomson ISI), SJR (SCImago Journal&Country Rank) (Environmental Sciences, Ranked 480 of 825, H=14, SJR index/2012 = 0,306, SNIP index/2012 = 0,76), SCOPUS

(începând cu 2008), Thomson ISI Master Journal List, Web of Science® (Thomson ISI) (H=17), [http://omicon.ch.tuiasi.ro/EEMJ/pdfs/vol13/no6/8\\_1080\\_Moraru\\_13.pdf](http://omicon.ch.tuiasi.ro/EEMJ/pdfs/vol13/no6/8_1080_Moraru_13.pdf)

6. Toderas, M., **Moraru, R.I.**, *Mine Pressure and Rock Displacement Temporal Variation Analysis for Jiu Valley Directional Drifts in the Context of "N" Stability Criterion/ Analiza cişnien i chwilowych przemieszczen skal w badaniach kierunkowych wyrobisk w kopalniach w dolinie jiu z uwzględnieniem kryterium stabilności 'n'*, **Archives of Mining Sciences** (Arch. Min. Sci.), Vol. 59 (2014), No 2, p. 347–358, ISSN: 0860-7001, DOI 10.2478/amsc-2014-0032, IMPACT FACTOR 2013: 0.608, 5-year IMPACT FACTOR: 0.373, Scimago Journal Ranking (2011): 0,276, Hirsh Index: 6, Electronic version (in color) of this paper is available: <http://mining.archives.pl>, <http://www.degruyter.com/view/j/amsc.2014.59.issue-2/amsc-2014-0032/amsc-2014-0032.xml?format=INT>

7. **Moraru, R.I.**, Cioca, LI, *Assessment and Reduction of Noise Levels on Romanian Oil Drilling and Production Platforms Operating in the Black Sea –Abstract*, 15-th International Conference on Noise Control NOISE CONTROL 2010, Zamek Książ - Wałbrzych, Poland, 6-9 June 2010, ARCHIVES OF ACOUSTICS DOI: 10.2478/v10168-010-0026-0 Arch. Acoust., 35, 2, 275–305 (2010), ISSN 0137-5075 Index 351873, Indexed and abstracted (from vol. 32(1) 2007) in Science Citation Index Expanded (SciSearch) and Journal Citation Reports., Chronicle, XV International Conference Noise Control 2010 – [Abstracts, Impact Factor : 0.504](http://acoustics.ippt.gov.pl/abstracts.html), <http://acoustics.ippt.gov.pl/abstracts.html>

8. Moraru, R.I., Băbuț, G.B., *Research on Methane Emission Mechanism and Pattern in a Longwall Coal Face at Livezeni Colliery*, 14th SGEM GeoConference on Science and Technologies In Geology, Exploration and Mining SGEM2014 Conference Proceedings, 17-26 June, Albena, Bulgaria, ISBN 978-954-91818-7-6 / ISSN 1314-2704, June 16-22, 2013, Vol. 1, 831 - 836 pp, DOI: 10.5593/SGEM2014/B13/S3.065, <http://sgem.org/sgemlib/spip.php?article3929&lang=en>

9. **Moraru, R.I.**, Băbuț, G.B., Cioca I.L., *The Romanian Coal Mines Closure Process: Selecting the most Fitted Hazard Assessment Method*, 11th International Multidisciplinary Scientific Geoconference SGEM 2011, Date: JUN 20-25, 2011 Albena BULGARIA, VOL I Pages: 1003 – 1010 ISSN 1314-2704 Published: 2011, CrossRef databases and ISI Web of Science, ISI Web of Knowledge, DOI: 10.5593/sgem2011/s03.147, <http://sgem.org/sgemlib/spip.php?rubrique7>

10. **Moraru, R.I.**, *From realistic safety objectives to accident scenario selection in industrial systems operation*, **Annals Of Faculty Engineering Hunedoara – International Journal Of Engineering**, Tome XI, Year 2013, Fascicule 2, pp. 63-66, AISSN: 1584-2665, (printed editions, in two fascicules), ISSN: 1584-2673, B<sup>+</sup>;BDI: Index Copernicus – Journal Master List, Genamics Journalseek DatabasE, EVISA database, Google Scholar, DOAJ – Directory of Open Access Journals, SCIRUS - Elsevier, ProQuest database, EBSCO Publishing, Chemical Abstracts Service (CAS), BASE - Bielefeld Academic Search Engine, Open J-Gate Service, getCITED: Academic research list, Electronic Journals Library.

## 2<sup>0</sup> TEZA DE DOCTORAT

**T1.** *Contribuții privind studiul recircuitării controlate a aerului ca tehnică de ventilație a fronturilor de lucru din subteran*, Universitatea din Petroșani, 1999.

## 3<sup>0</sup> CĂRȚI ȘI CAPITOLE DIN CĂRȚI PUBLICATE

### C - CĂRȚI/CURSURI (MANUALE) ȘI CĂRȚI DE SPECIALITATE PUBLICATE ÎN EDITURI RECUNOSCUTE.

**C1. Moraru R.I.**, *Securitate și sănătate în muncă: tratat universitar*, Editura Focus, Petroșani, ISBN 978-973-677-272-6, 2013, 537 pg.

**C2. Moraru R.I.**, Băbuț, C.M., Băbuț, G.B., *Aeraj, sănătate și securitate în muncă*, Focus, Petroșani, ISBN 978-973-677-253-5, 2011, 348 pg.

**C3. Moraru R.I.**, *Current Trends and Future Developments in Occupational Health and Safety Risk Management* în Roland Iosif Moraru (2012). *Current Trends and Future Developments in Occupational Health and Safety Risk Management, Risk Management for the Future - Theory and Cases*, Dr Jan Emblemvåg (Ed.), InTech, Pag. 3-28 din 496 pag. DOI: 10.5772/31577: indexed & abstracted in: EBSCO A-TO-Z; BASE - Bielefeld Academic Search Engine; SCIRUS; OCLC WorldCat; Google Scholar; Mendeley, InTech Europe, Rijeka, Croatia, Published online: 25. April, 2012, Published in print edition: April, 2012. ISBN: 978-953-51-0571-8, <http://www.intechopen.com/books/risk-management-for-the-future-theory-and-cases/current-trends-and-future-developments-in-occupational-health-and-safety-risk-management>

**C4. Moraru R.I.,** Băbuț, G.B.A *Romanian occupational health and safety risk assessment tool: premises, development and case study* (2012), in *Risk Assessment and Management*, Edited by: Prof. Zhiyong Zhang- Henan University of Science and Technology. Published by Academy Publish.org (Publishing Services LLC), 2120 Carey Avenue, Cheyenne, WY 82001, USA., ISBN: 978-0-9835850-9-1, June 2012, pp. **430 – 459** din 820 pag.

**C5. Fiță, N.D., Moraru R.I.,** Iorga, I., Breben, F., Păsculescu, D., Păsculescu, M., Mihai, N., *Electrosecuritate în muncă*, Editura Universitas, Petroșani, ISBN 978-973-741-260-7, 2011, 461 pg.

**C6. Moraru Roland,** Cioca Lucian, *Nanosecuritate*, Editura Universității “Lucian Blaga” din Sibiu, ISBN 978-606-12-0189-1, 2011, 409 pg.

**C7. Cioca Lucian, Moraru Roland,** *Managementul riscurilor profesionale psihosociale*, Editura Universității “Lucian Blaga” din Sibiu, ISBN 978-973-739-924-3, 2010, 308 pg

**C8. . Moraru R.I.,** *Climatologie*, Editura Universitas, Petroșani, ISBN 978-973-741-131-0, 2009, 342 pg.

**C9. Moraru Roland,** Băbuț Gabriel, *Managementul riscurilor: abordare globală - concepte, principii și structură*, Editura Universitas, Petroșani, ISBN 978-973-741-128-0, 2009, 142 pg.

**C10. Băbuț Gabriel, Moraru Roland,** *Evaluarea riscurilor: transpunerea cerințelor Directivei 89/391/CEE în legislațiile statelor membre ale Uniunii Europene*, Editura Universitas, Petroșani, ISBN 978-973-741-127-3, 2009, 62 pg.

**C11. Moraru Roland,** Băbuț Gabriel, Matei Ion, *Ghid pentru evaluarea riscurilor profesionale*, Focus, Petroșani, ISBN 973-8367-67-0, 2002, 59 pg.

**C12. Băbuț Gabriel, Moraru Roland,** Matei Ion, Băncilă-Afrim Nicolae, *Sisteme de management al securității și sănătății în muncă. Principii directoare*, Editura Focus, Petroșani, ISBN 973-8367-83-2, 2002, 53 pg.

**C12. Moraru Roland,** Băbuț Gabriel, *Analiză de risc*, Editura Universitas (cod CNCSIS 194), Petroșani, ISBN 973-8035-26-0, 2000, 114 pag.

**C 13.. Matei, I., Moraru, R.I.,** Samoilă, M., Băbuț, G.B., *Ingineria mediului și ventilația în subteran*, Editura Tehnică (cod CNCSIS 166), București, ISBN 973-31-1496-0, 2000, 427 pag.

**C 14. Moraru, R.I.,** Băbuț, G.B., Goldan, T., Băbuț, S.L., *Evaluarea riscului ecologic*, Editura INFOMIN (cod CNCSIS 31), Deva, ISBN 973-98552-9-6, 2000, 272 pag.

**C 15. Băbuț, G.B., Moraru, R.I.,** *Protecția muncii*, Editura Universitas (cod CNCSIS 194), Petroșani, ISBN 973-8035-07-4, 1999, 85 pag.

**C 16. Băbuț, G.B., Moraru, R.I.,** Rîșteiu, M., *Ventilația tunelurilor rutiere*, Editura Universitas (cod CNCSIS 194), Petroșani, ISBN 973-99255-3-7, 1999, 98 pag.

#### **I - CULEGERI ȘI ÎNDRUMARE PUBLICATE ( ÎN EDITURI CU ISBN)**

**I 1. Băbuț, G.B., Moraru R.I.,** *Auditarea în domeniul securității și sănătății în munca. Îndrumător*, Editura Universitas, Petroșani, ISBN 978-973-741-384-0, 2014, 334 pg.

**I 2. Moraru R.I.,** Băbuț, G.B. *Evaluarea riscurilor profesionale: îndrumător pentru aplicații practice și proiecte*, Editura Focus, Petroșani, ISBN 978-973-741-334-5, 2013, 192 pg.

**I 3. Moraru R.I.,** Băbuț, G.B. *Evaluarea și managementul participativ al riscurilor profesionale. Ghid practic*, Editura Focus, Petroșani, ISBN:978-973-677-206-1.

**4<sup>0</sup> ARTICOLE ÎN EXTENSO PUBLICATE<sup>1)</sup>:*****Risi - Reviste de specialitate de circulație internațională recunoscute (cotate ISI) și volume conferințe indexate ISI).***

**Risi1.** Toderaș, M., Moraru, R.I., *Mine Pressure and Rock Displacement Temporal Variation Analysis for Jiu Valley Directional Drifts in the Context of "N" Stability Criterion/ Analiza cișniel i chwilowych przemieszczeń skał w badaniach kierunkowych wyrobisk w kopalniach w dolinie jiu z uwzględnieniem kryterium stabilności 'n'*, **Archives of Mining Sciences** (Arch. Min. Sci.), Vol. 59 (2014), No 2, p. 347–358, ISSN: 0860-7001, DOI 10.2478/amsc-2014-0032, **IMPACT FACTOR 2013: 0.608**, 5-year IMPACT FACTOR: 0.373, Scimago Journal Ranking (2011): 0,276, Hirsh Index: 6, Electronic version (in color) of this paper is available: <http://mining.archives.pl>, <http://www.degruyter.com/view/j/amsc.2014.59.issue-2/amsc-2014-0032/amsc-2014-0032.xml?format=INT>

**Risi2. Moraru, R.I.,** Băbuț, G.B., Cioca, L.I., *Rationale and Criteria Development for Risk Assessment Tool Selection in Work Environments, Environmental Engineering and Management Journal*, Vol. 13, No. 6, pp. 1371 - 1376, 2014, ISSN 1582 - 9596, Revistă **categoria A** cotată ISI - **Impact Factor 1,258**, cod CNCIS 148; inclusă în BDI: CABI, Chemical Abstracts Service/SciFinder (ACS) (începând cu 2002), EBSCO Database (începând cu 2002), EVISA, ICAAP (International Consortium for Advancement of Academic Publications), Index Copernicus Journal Master List (ICV/2012=16,20), Journal Citation Reports® (IF=1,117, Environmental Sciences, Ranked 146 of 206, 5-Year Impact Factor: 0.970, Article Influence® Score: 0.085), MedSci, ProQuest (începând cu 2002), The National University Research Council (RO), Science Citation Index Expanded™ (Thomson ISI), SJR (SCImago Journal&Country Rank) (Environmental Sciences, Ranked 480 of 825, H=14, SJR index/2012 = 0,306, SNIP index/2012 = 0,76), SCOPUS (începând cu 2008), Thomson ISI Master Journal List, Web of Science® (Thomson ISI) (H=17), [http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol13/no6/8\\_1080\\_Moraru\\_13.pdf](http://omicron.ch.tuiasi.ro/EEMJ/pdfs/vol13/no6/8_1080_Moraru_13.pdf)

**Risi3. Moraru, R.I.,** Cioca, L.I., *Explosion and/or Fire Risk Assessment Methodology: A Common Approach Structured for Underground Coalmine Environments*, ARCHIVES OF MINING SCIENCES Volume: 57 Issue: 1 Pages: 53-60 Published: 2012, ISSN: 0860-7001, DOI: 10.2478/v10267-012-0004-7, Web of Science Categories: Mining & Mineral Processing Research Areas: Mining & Mineral Processing IDS Number: 936XX ISSN: 0860-7001, Update: 2012-05-31 15:54:10; BDI: [NASA Astrophysics Data System \(ADS\) http://adsabs.harvard.edu/abs/2012ArMiS..57...53C](http://adsabs.harvard.edu/abs/2012ArMiS..57...53C), Chemical Abstracts Service, Ulrich, DOAJ, PKP, EEV, GeoREF, U.S. Geological Survey Library, Factor de impact referință (Domeniu) 1.067, Factor de impact relativ (Revistă) 0.28679, Scor de influență referință (Domeniu) 0.1435, Factor de impact 2012: 0,349 [http://apps.webofknowledge.com/summary.do?product=UA&search\\_mode=GeneralSearch&qid=5&SID=U1p8bNfPcEifoaE72pJ&page=3](http://apps.webofknowledge.com/summary.do?product=UA&search_mode=GeneralSearch&qid=5&SID=U1p8bNfPcEifoaE72pJ&page=3),

**Risi4. Moraru, R.I.,** Cioca, L.I., *Assessment and Reduction of Noise Levels on Romanian Oil Drilling and Production Platforms Operating in the Black Sea* –Abstract, 15-th International Conference on Noise Control NOISE CONTROL 2010, Zamek Książ - Wałbrzych, Poland, 6-9 June 2010, ARCHIVES OF ACOUSTICS DOI: 10.2478/v10168-010-0026-0 Arch. Acoust., 35, 2, 275–305 (2010), ISSN 0137-5075 Index 351873, Indexed and abstracted (from vol. 32(1) 2007) in Science Citation Index Expanded (SciSearch) and Journal Citation Reports., Chronicle, XV International Conference Noise Control 2010 – [Abstracts, Impact Factor : 0.504, http://acoustics.ippt.gov.pl/abstracts.html](http://acoustics.ippt.gov.pl/abstracts.html)

**Risi5. Moraru, R.I.,** Băbuț, G.B., Cioca L.I., *Addressing the Human Error Assessment and Management*, ARCHIVES OF MINING SCIENCES, Volume: 55 Issue: 4, Pages: 873-878, Published: 2010 Chemical Abstracts Service, Ulrich, DOAJ, PKP, EEV, GeoREF, U.S. Geological Survey Library, ISSN: 0860-7001, Publisher: POLISH ACAD SCIENCES, STRATA MECHANICS RES INST, UL REYMONTA 27, KRAKOW, 30-059, POLAND, Web of Science Category: Mining & Mineral Processing Subject Category: Mining & Mineral Processing, **IDS Number: 708KA** ISSN: 0860-7001, **Impact Factor** Trend Graph 2010: Archives of Mining Sciences: **0.312**, Factor de impact relativ: 0.301; Factor de impact referință: 1.015; Impact: 0.301; Impact individual: 0.100 (cf. [http://www.ad-astra.ro/carte-alba/author.php?author\\_id=18813](http://www.ad-astra.ro/carte-alba/author.php?author_id=18813)), **IDS Number: 708KA**, Factor de impact referință (Domeniu) 1.067, Factor de impact relativ (Revistă) 0.28679, Scor de influență referință (Domeniu) 0.1435 [http://apps.webofknowledge.com/full\\_record.do?product=UA&search\\_mode=GeneralSearch&qid=14&SID=X2DIg7NpmIDa5dE1p5o&page=8&doc=71](http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=14&SID=X2DIg7NpmIDa5dE1p5o&page=8&doc=71)

1) ARTICOLE / STUDII PUBLICATE (R,V)

Risi - Reviste de specialitate de circulație internațională recunoscute (cotate ISI sau indexate în baze de date internaționale specifice domeniului).

Rsi – Alte reviste de specialitate de circulație internațională (BDI).

Rns - Reviste de specialitate de circulație națională recunoscute de CNCIS/CNCIS.

Rno - Alte reviste de specialitate de circulație națională.

Vi- Volumele unor manifestări științifice internaționale recunoscute (cu ISSN sau ISBN), din țară și străinătate, inclusiv cotate ISI sau indexate în baze de date internaționale.

Vn- Volumele unor manifestări științifice naționale.



- Risi6. Moraru, R.I.**, Băbuț, G.B., *Research on Methane Emission Mechanism and Pattern in a Longwall Coal Face at Livezeni Colliery*, 14th SGEM GeoConference on Science and Technologies In Geology, Exploration and Mining SGEM2014 Conference Proceedings, 17-26 June, Albena, Bulgaria, ISBN 978-954-91818-7-6 / ISSN 1314-2704, June 16-22, 2013, Vol. 1, 831 - 836 pp, DOI: [10.5593/SGEM2014/B13/S3.065](https://doi.org/10.5593/SGEM2014/B13/S3.065), <http://sgem.org/sgemlib/spip.php?article3929&lang=en>
- Risi7.** Cioca I.L., Popescu Stelea, M., **Moraru, R.I.**, *Occupational Safety and Health Risk Assessment in Romanian Surface Gas Extraction Facilities*, 14th SGEM GeoConference on Science and Technologies In Geology, Exploration and Mining SGEM2014 Conference Proceedings, 17-26 June, Albena, Bulgaria, ISBN 978-954-91818-7-6 / ISSN 1314-2704, June 16-22, 2013, Vol. 1, 831 - 836 pp, DOI: [10.5593/SGEM2014/B13/S3.053](https://doi.org/10.5593/SGEM2014/B13/S3.053), <http://sgem.org/sgemlib/spip.php?article3917>
- Risi8.** Goldan, T., **Moraru, R. I.** Nistor, C.M., *Assessing the Stability Safety Factor in Oltenia Lignite Opencast Mining*, 14th SGEM GeoConference on Science and Technologies In Geology, Exploration and Mining SGEM2014 Conference Proceedings, 17-26 June, Albena, Bulgaria, ISBN 978-954-91818-7-6 / ISSN 1314-2704, June 16-22, 2013, Vol. 1, 831 - 836 pp, DOI: [10.5593/SGEM2014/B13/S3.007](https://doi.org/10.5593/SGEM2014/B13/S3.007), <http://sgem.org/sgemlib/spip.php?article3871>
- Risi8.** Băbuț, G.B **Moraru, R.I.**, *Automated Monitoring and Management System for Methane Drainage Networks Operated in Jiu Valley Collieries*, 14th SGEM GeoConference on Science and Technologies In Geology, Exploration and Mining SGEM2014 Conference Proceedings, 17-26 June, Albena, Bulgaria, ISBN 978-954-91818-7-6 / ISSN 1314-2704, June 16-22, 2013, Vol. 1, 831 - 836 pp, DOI: [10.5593/SGEM2014/B13/S3.010](https://doi.org/10.5593/SGEM2014/B13/S3.010), <http://sgem.org/sgemlib/spip.php?article3874&lang=en>
- Risi9.** Goldan, T., **Moraru, R. I.** Nistor, C.M., *Ways to Improve Coal Extraction Operations in Lignite Open Pits within Oltenia Basin, Romania*, 13th SGEM GeoConference on Science and Technologies In Geology, Exploration and Mining SGEM2013 Conference Proceedings, ISBN 978-954-91818-7-6 / ISSN 1314-2704, June 16-22, 2013, Vol. 1, 831 - 836 pp, DOI: [10.5593/SGEM2013/BA1.V1/S03.081](https://doi.org/10.5593/SGEM2013/BA1.V1/S03.081), <http://sgem.org/sgemlib/spip.php?article2673&lang=en>
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## **6<sup>0</sup> PROIECTE DE CERCETARE-DEZVOLTARE-INOVAR<sup>2</sup>**

***P – Proiecte de cercetare-dezvoltare – inovare obtinute prin competiție, pe bază de contract/grant, în țară/străinatate.***

**P1. Responsabil proiect partener** Program PNCDI - MEDIU, ENERGIE și RESURSE – MENER, **Tema:** *Raționalizarea rețelelor de aeraj ale minelor din Valea Jiului în condițiile restrucurării acestora ca urmare a închiderii unor zone inactive*, Contract nr. 7483/2002 la Contract de finanțare pentru execuție proiecte nr. 231/25.09.2002, Ministerul Educației și Cercetării MENER, subprogram E, "Resurse minerale" categoria de proiect PED. Parteneri: INSEMEX Petroșani, Universitatea din Petroșani, C.N.H. Petroșani, Valoare absorbită aferentă UPET: 30.000 lei = 6.666 €, Perioada de implementare: 1 an

**P2. Director grant de cercetare multianual CNCSIS tip B, Tema:** *Studiu privind stabilirea zonei de acțiune în subteran a stațiilor principale de ventilație, cu aplicație la minele din cadrul R.A.H. România*, Contract de finanțare **369/BI/1995-1996**, 100/1996-1997, Beneficiar MCT, R.A.H. România, Valoare absorbită aferentă UPET: 70.000 lei = 15.555 €, Perioada de implementare: 2 ani

**P3. Responsabil fază: Proiectul PN 07 45 01 06 - Sistem integrat de management al riscului profesional generat de aplicațiile industriale desfășurate în medii cu pericol de explozie și/sau toxicitate, proiect de cercetare-dezvoltare din cadrul Programului NUCLEU privind „Dezvoltarea capacității naționale de evaluare, prevenire și limitare a riscurilor generate de aplicațiile industriale desfășurate în medii cu pericol de explozie și/sau toxicitate în domeniul securității și sănătății personalului, protecției mediului, resurselor minerale și materialelor/RISC MAJOR,, în baza contractului de finanțare încheiat cu Autoritatea Națională pentru Cercetare Științifică (ANCS), Contract nr. 45N/2007 (cod PN 07-45) încheiat între INCD INSEMEX Petroșani și ANCS, în valoare de 289.300 lei. Proiectul s-a desfășurat în perioada 2007 – 2009. Responsabil faza a II-a/2007, titlul: „Elaborarea modelului de sistem de management integrat al securității și sănătății în muncă la nivelul unităților din economia națională cu activitate în atmosferă potențial explozivă și/sau toxică”, <http://insemex.ro/images/pdf/Proiecte%20Program%20Nucleu%202007%202009.pdf>, Perioada de implementare = 3 ani**

**P4. Responsabil proiect partener** în cadrul proiectului POSDRU/78/3.2/65527, *Furnizarea de servicii de formare profesională în domeniul securității și sănătății în muncă pentru implementarea proiectului „AUTO SSM - Reactualizarea și optimizarea sistemului de Sănătate și Securitate în Muncă, capabil să asigure o funcționare conformă cu legislația în vigoare și fără riscuri în activitatea curentă a companiei”, proiect cofinanțat din Fondul Social European (prin Programul Operațional Sectorial „Dezvoltarea Resurselor Umane 2007-2013”), în baza contractului de finanțare încheiat cu Ministerul Muncii, Familiei și Protecției Sociale. Contract nr. 1204/08.02.2011 încheiat între S.C. H&S Consult Tg. Mureș și S.C. AUTOCAMION SERVICE S.R.L. Brad, valoare 96000 lei, Perioada de implementare = 1 an*

**P5. Membru colectiv, Contract de finanțare nr. 198/10.07.2009 POSDRU/39/3.2 /G/26581, Formare profesională în domeniul securității și sănătății în muncă, AMPOSDRU/39/3.2/G/26581 2009-2011, coordonat de Universitatea „Lucian Blaga” Sibiu, finanțat de Ministerul Muncii, Familiei și Protecției Sociale și Fondul Social European. Expert pe termen lung modulul „Evaluarea riscurilor de accidentare și îmbolnăvire profesională” Director grant: Prof.univ.dr.ing. Cioca Lucian-Ionel, Universitatea “Lucian Blaga” din Sibiu**

<sup>2</sup> CONTRACTE ȘI RAPOARTE ȘTIINȚIFICE (P,F)

P – Proiecte de cercetare-dezvoltare – inovare obtinute prin competiție, pe bază de contract/grant, in tara/strainatate (Pn – nationale, Pi - internationale).

F – Alte lucrări de cercetare – dezvoltare

Obs.-a se menționa calitatea de responsabil/director sau coautor.



**P.6 Membru colectiv, Joint Research Project R03/2008/MEDI/ANCS-2008-2009, *The environmental impact of coal mines closure and ecological rehabilitation of mining area of India and Romania* finanțat de guvernele României și Indiei. Valoare” 20.000 lei. Director: Prof.univ.dr.ing. Arad Victor**

**P7. Membru colectiv, POSDRU/13/5.2/S/11nr.106/25.09.2008 „Dezvoltarea pieței muncii prin promovarea ocupațiilor neagricole în mediul rural” AMPOSDRU/39/3.2/G/26581 2009-2011, coordonat de Universitatea de Științe Agronomice și Medicină Veterinară București, finanțat de Ministerul Muncii, Familiei și Protecției Sociale și Fondul Social European, Valoare: 567.504,50 lei; Expert pe termen lung **Modulele** „Lucrător pensiune turistică” și „Montator gips-carton” Responsabil partener: Prof.univ.dr.ing. Bușe Ioan**

**P8. Core Project PN07-45 Phase 2008: *Research concerning the migration in soils of the natural gas from distribution ducts, through the faults , according the soil's structure and the methane gas flow in various kinds of soil. Stage IV, The national capacity development for the assessment, prevention and mitigation of risk induced by industrial applications in environments characterized by explosion and/or toxicity hazards, in the field of occupational safety and health, environment, mineral resources and materials/RISCMajor Stage IV; Research regarding the methane gas dynamic movements through different types of soil. Soil sampling and rock sample permeability assessment.*, INCD-INSEMEX, contract 17/2008 with the University of Petroșani; Director: Cerc. Șt. Gr. I.dr.ing. Krausz Iuliu**

**P9. Responsabil temă: Contract de cercetare tip CNCISIS, multianual, nr. 2/1992/1993 (Ministerul Învățământului și Științei 879 C/14.05.1992), Denumire contract: *Prevenirea și controlul combustiei spontane în minele de cărbuni*; Beneficiar: Ministerul Învățământului și Științei; Valoare 600.000-1992 (F 86/25.11.1993); 1.950.000-1993 (F 82/17.12.1993) Referință: PV Avizare internă nr. 4510/06.10.1993; PV Recepție M.I.S. 2168/19.10.1993**

**P10. Membru colectiv, Contract nr. 7483/2002 la Contract de finanțare pentru execuție proiecte nr. 231/25.09.2002, Raționalizarea rețelelor de aeraj ale minelor din Valea Jiului în condițiile restructurării acestora ca urmare a închiderii unor zone inactive Ministerul Educației și Cercetării, **program MENER**, subprogram E, categoria de proiect PED. Parteneri: INSEMEX Petroșani, Universitatea din Petroșani, C.N.H. Petroșani, Valoare: 600.000 lei; Responsabil partener: Prof.univ.dr.ing. Matei Ion**

**P11. Membru colectiv, Contract nr. 369/BI/1995-1996, 100/1996-1997/ *Studiu privind stabilirea zonei de acțiune în subteran a stațiilor principale de ventilație, cu aplicație la minele din cadrul R.A.H. România* Beneficiar: Ministerul Cercetării și Tehnologiei și R.A.H. România, Valoare: 6.000.000 lei. Responsabil partener: Prof.univ.dr.ing. Matei Ion**

## **F – ALTE LUCRĂRI DE CERCETARE – DEZVOLTARE – CONTRACTE CU TERȚI**

**F1. Contract nr. 9/2003-2005/, *Studiu privind îmbunătățirea sistemului de aeraj al minei Transilvania din cadrul Sucursalei Salina Ocna Dej având în vedere dezvoltarea în adâncime a exploataării*, Beneficiar: Societatea Națională a Sării S.A. Sucursala Salina Ocna-Dej, Valoare: 50.000.000/ 2003; 95.000.000/2004; 125.000.000/2005; Total: 270.000.000, Responsabil: Prof.univ.dr.ing. Matei Ion**

**F2. Contract nr. 2/1996 (tema B.3)/ , *Influența unor factori geologico-minieri asupra circulației aerului prin spațiul exploatat, în condițiile minelor din Valea Jiului și pericolul izbucnirii focurilor subterane endogene datorită acesteia*, Beneficiar: R.A.H. România Petroșani, Valoare: 6.000.000, Responsabil: Șef lucr.dr.ing. Neag Ioan**

**F3. Contract nr. 21/1991-1992/, *Recircuitarea controlată a aerului, o soluție neconvențională pentru ventilarea fronturilor de lucru din subteran*, Beneficiar: Ministerul Învățământului și Științei (contract pe plan național), 300.000 lei/1991 (F 95/02.12.1991), Valoare: 400.000 lei/1992 (F 92/11/12.1992), Responsabil: Prof.univ.dr.ing. Matei Ion**

**F4. Contract nr. 3/1992/, *Elaborarea măsurilor de securitate pentru aplicarea operațiilor de inertizare la combaterea focurilor de mină*, Beneficiar: Ministerul Învățământului și Științei (contract pe plan național), Valoare: 600.000 (F87/26.11.1992), Responsabil: Prof.univ.dr.ing. Matei Ion**

**F5. Programul Phare 2005 CES - Infrastructura mare Regionala/locală , Contract nr.8/12.06.2008, *Creșterea atractivității turistice a zonei cu potențial balnear - Lacurile sărate în zona Durgău - Valea Sărată și Salina Turda*, ACH Cluj-Napoca, Valoare UPET: 40.000 lei, Responsabil: Prof.univ.dr.ing. Cozma Eugen**

**F6. Contract de cercetare științifică nr. 6031/2004/, *Documentare tehnică în vederea stabilirii măsurilor de prevenire și diminuare a riscurilor de la locurile de muncă aparținătoare obiectivului S.N.P. PETROM S.A. – SUCURSALA PETROMAR Constanța*, INSEMEX Petroșani, Valoare :1250 €; Responsabil: Prof.univ.dr.ing. Matei Ion**



- F7. Contract de cercetare științifică nr. 5839/2004/, Documentare tehnică în vederea stabilirii măsurilor de prevenire și diminuare a riscurilor de la locurile de muncă aparținătoare obiectivului S.C. ROȘIAMIN ROȘIA MONTANĂ S.A., INSEMEX Petroșani, Valoare: 700 €; Responsabil: Prof.univ.dr.ing. Matei Ion**
- F8. Contract de cercetare științifică nr. 9/2003-2005/, Studiu privind îmbunătățirea sistemului de aeraj al minei Transilvania din cadrul Sucursalei Salina Ocna Dej având în vedere dezvoltarea în adâncime a exploatării, Societatea Națională a Sării S.A. Sucursala Salina Ocna Dej Valoare: 270.000.000; Responsabil: Prof.univ.dr.ing. Matei Ion**
- F9. Contract de cercetare științifică nr. 5791/2004/, Documentare tehnică în vederea stabilirii măsurilor de prevenire și diminuare a riscurilor de la locurile de muncă aparținătoare obiectivului S.C. ROȘIA MONTANĂ GOLD CORPORATION S.A., INSEMEX Petroșani, Valoare :1400 €; Responsabil: Prof.univ.dr.ing. Matei Ion**
- F10. Contract de cercetare științifică nr. 4323/1997/, Stabilirea principiilor necesare pentru implementarea procedurilor de evaluare a riscului din punct de vedere exploziv, Beneficiar: INSEMEX Petroșani, Responsabil: Prof.univ.dr.ing. Matei Ion**
- F11. Contract de cercetare științifică nr. 13/1996-1997/, Proiectarea managementului în domeniul securității și sănătății în muncă la R.A.L.O. Târgu Jiu, R.A.L.O. Târgu Jiu, Responsabil: Prof.univ.dr.ing. Matei Ion**
- F12. Contract de cercetare științifică nr. 12/1996/, Elaborarea de teste de securitate și sănătate în muncă pentru evaluarea cunoștințelor în domeniu a cadrelor de conducere din cadrul R.A.L.O. Târgu Jiu, Beneficiar: R.A.L.O. Târgu Jiu, Responsabil: Prof.univ.dr.ing. Matei Ion**
- F13. Contract de cercetare științifică nr. 11/1996/, Elaborarea de teste de securitate și sănătate în muncă pentru evaluarea cunoștințelor în domeniu a personalului muncitor din cadrul R.A.L.O. Târgu Jiu, Beneficiar: R.A.L.O. Târgu Jiu, Responsabil: Prof.univ.dr.ing. Matei Ion**
- F14. Contract de cercetare științifică nr. 5/1996/, Strategia R.A.H. România pe termen scurt și modul de soluționare a problemelor de mediu în perioada de referință, Beneficiar, R.A.H. România Petroșani, Responsabil: Prof.univ.dr.ing. Matei Ion**
- F15. Contract de cercetare științifică nr. 2/1996, Metodă operativă pentru determinarea explozivității amestecurilor de gaze inflamabile din zonele izolate de foc, Beneficiar,: R.A.H. România, Stația Centrală de Salvare Minieră Petroșani, Responsabil: Prof.univ.dr.ing. Matei Ion**
- F16. Contract de cercetare științifică nr. 25/1993/, Stabilirea gradului de poluare a atmosferei subterane în cadrul minelor din Valea Jiului datorat funcționării utilajelor cu combustie internă și elaborarea măsurilor de securitate pentru diminuarea acestuia, Beneficiar:R.A.H. România Petroșani, Responsabil: Prof.univ.dr.ing. Matei Ion**
- F17. Contract de cercetare științifică nr. 3/1993/, Stabilirea gradului de poluare a atmosferei subterane datorat funcționării utilajelor cu combustie internă și a concasării minereului în subteran și evaluarea măsurilor de securitate pentru diminuarea acestora, cu aplicație la E.M. Șuior și E.M. Baia Sprie, Beneficiar: Sucursala Minieră Est - Baia Mare, Responsabil: Prof.univ.dr.ing. Matei Ion**
- F18. . Contract de cercetare științifică nr. 1/1992/, Studiu de sinteză privind degazarea stratelor de cărbune, posibilități de valorificare, Beneficiar: R.A.H. România Petroșani, Responsabil: Prof.univ.dr.ing. Matei Ion**
- F19. Contract de cercetare științifică nr. 2/1992-1993/ Prevenirea și controlul combustiei spontane în minele de cărbuni , Ministerul Învățământului și Științei, 600.000-1992 (F 86/25.11.1993), 1.950.000-1993 (F 82/17.12.1993), Responsabil: Prof.univ.dr.ing. Matei Ion**

06.04.2015

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