

Curriculum vitae



Informații personale

Nume / Prenume ONICA, ILIE
Adres No.65, Str. Maleia, cod poștal 332 047, Petroșani, România
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Naționalitate român
Data nașterii 07.07.1956
Sex masculin

Locul de muncă / Domeniul ocupațional

Funcția sau postul ocupat Profesor universitar
Activități și responsabilități principale Cadru didactic
Numele și adresa angajatorului Universitatea din Petroșani, No.20, Str. Universității, Petroșani, România

Experiența profesională

1982-1984: inginer stagiar - I. M. Lonea;
1984-1985: inginer cercetător - I.C.P.M.C. Petroșani;
1985-1990: asistent universitar - Universitatea din Petroșani;
1990-1996: șef de lucrări - Universitatea din Petroșani;
1996-2001: conferențiar universitar - Universitatea din Petroșani;
2001-prezent: profesor universitar - Universitatea din Petroșani, Facultatea de Mine, Departamentul de Inginerie Minieră, Topografie și Construcții.
2016 – prezent, coordonator de doctorat în domeniul Mine, Petrol și Gaze

Educație și formare

Perioada 11.08.2016
Calificarea / diploma obținută Teza de abilitare în Mine, Petrol și Gaze
Numele și tipul instituției de învățământ / furnizorului de formare Universitatea din Petroșani
Perioada 01.1990 -06.1995
Calificarea / diploma obținută Diplomă de doctor inginer în ramura de știință „Tehnică”
Numele și tipul instituției de învățământ / furnizorului de formare Universitatea din Petroșani
Perioada 09.1990-11.1991
Calificarea / diploma obținută Masterat / Diplôme d'étude approfondies (Master of Ph.) de „Génie Civil et Minier”
Numele și tipul instituției de învățământ / furnizorului de formare L'Institut National Polytechnique de Lorraine Nancy, République Française
Perioada 09.1977 - 06.1982
Calificarea / diploma obținută Diplomă de inginer, Profilul Mine, Specializarea Mine

Numele și tipul instituției de învățământ / furnizorului de formare	Institutul de Mine (Universitatea) din Petroani – Facultatea de Mine
Numele și tipul instituției de învățământ / furnizorului de formare	Politecnico di Torino, Italy, Dipartimento del Territorio, dell'Ambiente e delle Geotecnologie
Perioada	01.05.1998 - 01.08.1998
Calificarea / diploma obținută	Stagiul de documentare în domeniile: „Impactul tehnologiilor miniere asupra mediului” și „Reutilizarea excavărilor miniere subterane”
Aptitudini și competențe personale	
Limbile străine cunoscute	
Autoevaluare	
Nivel european (*)	
Limba	
Limba	
Limba	
Competențe și aptitudini profesionale și științifice	<p>Domenii de competențe:</p> <p>Exploatarea zăcămintelor de carbuni de minereuri; Ingineria rocilor cu aplicații în minerit; Modelarea numerică a fenomenelor geomecanice miniere; Mecanizarea tehnologiilor de extragere a substanțelor minerale utile și a tehnologiilor de execuție a lucrărilor miniere subterane.</p>
Informații suplimentare	<p>Membri în asociații profesionale și științifice:</p> <p>Asociația Generală a Inginerilor din România (AGIR); Societatea Română de Geotehnic și Fundații (SRGF); Comitetul Național Român al Consiliului Mondial al Energiei (CNR-CME); Societatea Internațională a Profesorilor de Exploatare și Miniere (SOMP); Societatea Internațională de Mecanica Solului și Inginerie Geotehnică (ISSMGE).</p>

(*) [Nivelul Cadrului European Comun de Referință Pentru Limbi Străine](#)

LISTA LUCRĂRILOR SEMNIFICATIVE ELABORATE

- TEZE (total 3):

ONICA, I., Studiul stabilității galeriilor dreptunghiulare scufundate în medii stratificate. Aplicație la minele de huii din Provence / Etude de la stabilité de toit des galeries quadrangulaires creusées dans des milieux stratifiés. Application aux houillères de Provence, L'Institut National Polytechnique de Lorraine Nancy, France, Masterat științific în Geniu civil și minier / Diplôme d'étude approfondies de „Génie Civil et Minier” 1991.

ONICA, I., Contribuția la perfecționarea tehnologiilor de exploatare cu fronturi lungi de abataj a straturilor groase de carbune din Valea Jiului, prin utilizarea unor susineri mecanizate adecvate condițiilor geominiere, Teză de doctorat, Universitatea din Petroani, 1995.

ONICA, I., Contribuția la modelarea și analiza stabilității terenurilor aflate sub influența excavărilor miniere subterane și perfecționarea sistemelor de exploatare a zăcămintelor de substanțe minerale utile, Teză de abilitare - Domeniul Mine, Petrol și Gaze, Universitatea din Petroani, 2016.

- C R I (total 9):

ONICA, I., Introducere în modelarea cu elemente finite. Stabilitatea excavărilor miniere, Ed. Universitas, Petroani, 2016, ISBN 978-973-741-509-7.

ONICA, I., Hidrodinamica mediilor poroase. Fundamente teoretice, Ed. Universitas, Petroani, 2016, ISBN 978-973-741-503-5.

ONICA, I., Exploatare miniere, Ed. Universitas, Petroani, 2016, ISBN 978-973-741-471-7.

ONICA, I., MARIAN, D.P., Aplicații ale metodei elementelor finite în analiza stabilității terenurilor și structurilor subterane, Ed. Universitas, Petroani, 2016, ISBN 978-973-741-473-1.

ONICA, I., Stabilitatea excavărilor miniere subterane executate în medii stratificate, Editura Universitas, Petroani, 2006, ISBN (10) 973-8260-89-2; ISBN 978-973-8260-898-4.

ONICA, I., CHIRIL, G., Exploatarea cu banc subminat în abataje frontale Editura AGIR, București, 2005, ISBN 973-720-022-5.

ONICA, I., Impactul exploatareii zăcămintelor de substanțe minerale utile asupra mediului, Editura Universitas, Petroani, 2001, ISBN 973-8260-15-9.

ONICA, I., Introducere în metode numerice utilizate în analiza stabilității excavărilor miniere, Editura Universitas, Petroani, 2001, ISBN 973-8260-16-7.

POPA,A., ILIA ,N., GRUNEAN U,I., ONICA,I.,RADU,S., Metode i tehnologii de exploatare a z c mintelor de substan e minerale utile, Editura Didactic i Pedagogic , Bucure ti, 1996, ISBN 973-30-4898-4.

- PUBLICA II (total 180):

Onica,I. et.al., Economical Optimization of the Longwall Faces with Top Coal Caving Mining, in Horizontal Slices, Archives of Mining Sciences, Vol.61(2012), No.3, p.651-676, DOI: 10.1515/amsc-2016-0046.

Mihu ,S., Marian D.P., Onica I., Cozma E., Reducing Environmental Impact Generated by the Extraction of Rock Salt in Solution at the Ocnele Mari, Romania, Proceeding of the 15th International Multidisciplinary Scientific Geo-Conference & EXPO - SGEM 2015, ISSN: 1314-2704, <http://www.sgem.org/sgemlib/spip.php?article5518&lang=en>

Mihu ,S., Marian D.P., Cozma E., Onica I., Stability Analysis of the Underground Structures from the Ocnele Mari Saline, Proceeding of the 15th International Multidisciplinary Scientific Geo-Conference & EXPO - SGEM 2015, ISSN: 1314-2704, <http://www.sgem.org/sgemlib/spip.php?article5525&lang=en>

Floarea D., Marian D.P., Onica I., Cozma E., Necessity of Following up the Land Surface Deformation For Closed Mining Areas, Proceeding of the 15th International Multidisciplinary Scientific Geo-Conference & EXPO - SGEM 2015, ISSN: 1314-2704, <http://www.sgem.org/sgemlib/spip.php?article6491&lang=en>

Mihu ,S., Marian,D.P., Onica,I., Cozma,E. Reducing Environmental Impact Generated by the Extraction of Rock Salt in Solution at the Ocnele Mari, Romania, Proceeding of the 15th International Multidisciplinary Scientific Geo-Conference & EXPO - SGEM 2015, Sofia, Bulgaria, June 16-25 2015, Book1 Vol. 3, 543-550 pp ISSN: 1314-2704; DOI: 10.5593/SGEM2015/B13/S3.071, <http://www.sgem.org/sgemlib/spip.php?article5518&lang=en>

Mihu ,S., Marian,D.P., Cozma,E., Onica,I. Stability Analysis of the Underground Structures from the Ocnele Mari Saline, Proceeding of the 15th International Multidisciplinary Scientific Geo-Conference & EXPO - SGEM 2015, Sofia, Bulgaria, June 16-25 2015, Book1 Vol. 3, 595-602 pp, ISSN: 1314-2704, DOI:10.5593/SGEM2015/B13/S3.078, <http://www.sgem.org/sgemlib/spip.php?article5525&lang=en>

Floarea, D., Marian, D.P., Onica, I., Cozma, E. Necessity of Following up the Land Surface Deformation For Closed Mining Areas, Proceeding of the 15th International Multidisciplinary Scientific Geo-Conference & EXPO - SGEM 2015, Sofia, Bulgaria, June 16-25 2015, Book5 Vol. 2, 733-738 pp, ISSN: 1314-2704. DOI: 10.5593/SGEM2015/B52/S23.097 , <http://www.sgem.org/sgemlib/spip.php?article6491&lang=en>

Onica,I., Cozma,E., Marian,D.P., tefan,N. Prognosis of the Maximum Subsidence and Desplacement of the Ground Surface in the Jiu Valley Coal Basin Conditions, 14th International Multidisciplinary Scientific Geo-Conference & EXPO SGEM 2014 Modern Management of Mine Producing, Geology and Environmental Protection, 17 – 23 June, 2014, Bulgaria. ISBN 978-619-7105-09-4 / ISSN 1314-2704, June 19-25, 2014, Vol. 3, 465-472 pp. DOI: 10.5593/SGEM2014/B13/S3.061. (<http://sgem.org/sgemlib/spip.php?article3925>).

Lupuleac,R.F., Cozma,E., Onica,I. Considerations on the Hard Coal Mining Reorganization In Jiu Valley Since 1990, 14th International Multidisciplinary Scientific Geo-Conference & EXPO SGEM 2014 Modern Management of Mine Producing, Geology and Environmental Protection, 17 – 23 June, 2014, Bulgaria. ISBN 978-619-7105-09-4 / ISSN 1314-2704, June 19-25, 2014, Vol. 3, 155-162pp. DOI: 10.5593/SGEM2014/B13/S3.021. (<http://sgem.org/sgemlib/spip.php?article3885>).

Onica, I., Cozma, E., Mih ilescu,V. Technical and Economic Optimization of the Parameters of the Top Coal Caving Mining Method in the Jiu Valley Basin, Proceeding of the 13th International Multidisciplinary Scientific Geo-Conference & EXPO - SGEM 2013 Sofia, Bulgaria, June 16-22 2013, pag. 749-756; Published by STEF92 Technology Ltd., 14 Kl. Ohrdiski Blvd., Sofia, ISBN 978-954-91818-7-6, ISSN 1314-2704; DOI:10.5593/SGEM2013/BA1.V1/S03.070: (<http://sgem.org/sgemlib/spip.php?article2662>).

One ,D., Semen,C., Cozma,E.,Onica,I. Protection of the Underground Mining Structures Against the Rock Blasting Effects in the Case of Rosia Poieni Open Pit, Proceeding of the 13th International Multidisciplinary Scientific Geo-Conference & EXPO - SGEM 2013 Sofia, Bulgaria, June 16-22 2013, pag. 625-632; Published by STEF92 Technology Ltd., 14 Kl. Ohrdiski Blvd., Sofia, ISBN 978-954-91818-7-6, ISSN 1314-2704; DOI:10.5593/SGEM2013/BA1.V1/S03.053: (<http://sgem.org/sgemlib/spip.php?article2645>).

Onica,I., Cozma,E. Finite Element Method Analysis of the Crown Pillar Stability in the Case of the Rosia Poieni Copper Deposit, Proceeding of the 13th International Multidisciplinary Scientific Geo-Conference & EXPO - SGEM 2013 Sofia, Bulgaria, June 16-22 2013, pag. 477-484; Published by STEF92 Technology Ltd., 14 Kl. Ohrdiski Blvd., Sofia, ISBN 978-954-91818-7-6, ISSN 1314-2704; DOI:10.5593/SGEM2013/BA1.V1/S03.034; (<http://sgem.org/sgemlib/spip.php?article2626>).

Onica,I., Marian,D. Ground Surface Subsidence as Effect of Underground Mining of the Thick Coal Seams in the Jiu Valley Bassin, Archives of Mining Sciences, Vol.57(2012), No.3, p.547-577, DOI: 10.2478/v10267-012-0036-z. (http://mining.archives.pl/index.php/component?option=com_remository/Itemid,0/func,select/id,76/orderby,2/page,2/lang,en/)

Onica,I., Cozma.E., Mih ilescu,V. Improvement of economic efficiency of longwall mining, in short panels, in the case of Jiu Valley thick coal seams, Proceeding of the 11th International Multidisciplinary Scientific Geo-Conference & EXPO - SGEM 2011, Sofia, Bulgaria, June 19-25 Vol.I, Section "Exploration and Mining", 2011, pag. 801-808; Published by STEF92 Technology Ltd., 14 Kl. Ohrdiski Blvd., Sofia, Bulgaria ISSN 1314-2704; DOI: 10.5593/sgem2011/s03.120, (<http://sgem.org/sgemlib/spip.php?article110>).

Onica, I., Cozma, E., One ,D. Considerations on the mining evolution of Ro ia Poieni copper deposit, Proceeding of the 11th International Multidisciplinary Scientific Geo-Conference & EXPO - SGEM 2011, Sofia, Bulgaria, June 19-25.06., Vol.I, Section "Exploration and Mining", 2011, pag.743-750; Published by STEF92 Technology Ltd., 14 Kl. Ohrdiski Blvd., Sofia, Bulgaria ISSN 1314-2704; DOI: 10.5593/sgem2011/s03.112; (<http://sgem.org/sgemlib/spip.php?article102>).

Onica, I., Cozma, E., Marian, D.P. Analysis of the Ground Surface Subsidence in the Jiu Valley Coal Basin by using the Finite Element Method, Proceeding of the 11th International Multidisciplinary Scientific Geo-Conference & EXPO - SGEM 2011, Sofia, Bulgaria, June 19-25.06. Vol.I, Section "Exploration and Mining", 2011, pag.685-692, Published by STEF92 Technology Ltd., 14 Kl. Ohrdiski Blvd., Sofia, Bulgaria ISSN 1314-2704; DOI: 10.5593/sgem2011/s03.104; (<http://sgem.org/sgemlib/spip.php?article94&lang=en>).

Arad,S., Arad,V., Onica,I., Oprina,A., Chipe iu,F., Mitric ,B., Apostu,A., Margineanu,R. Stability Study for a Large Cavern in Salt Rock from Sl nic Prahova, Acta Physica Polonica, B., No.7, Vol.41/2010, pag.1791-1801. <http://www.actaphys.uj.edu.pl/old/vol41/pdf/v41p1789.pdf>.

Marian D.P., Onica I., Cozma E., Mihu S. SOCON Cavern's Stability Analysis by using Finite Element Numerical Modelling, Annals of the University of Petro ani – Mining Engineering , Vol. 15 (2014), ISSN: 1454-9174, pag.73. (revist categoria B+, cod CNC SIS 22; MKPERIODICA - Rusia, ULRICH'S - Germania i EBSCO Publishing Inc. - SUA; SUWECO - Cehia) http://www.ulrichsweb.com/ulrichsweb/ulrichsweb_news/ulrichslb3u.asp.

Floarea D., Onica I., Cozma E., Marian D.P. Necessity of Subsidence Phenomenon Monitoring in the case of Sustainable Development of Jiu Valley Coal Basin Conditions, Annals of the University of Petro ani – Mining Engineering , Vol. 15 (2014), ISSN: 1454-9174, pag.65. (revist categoria B+, cod CNC SIS 22; MKPERIODICA - Rusia, ULRICH'S - Germania i EBSCO Publishing Inc. - SUA; SUWECO - Cehia) http://www.ulrichsweb.com/ulrichsweb/ulrichsweb_news/ulrichslb3u.asp.

Onica,I. Cozma,E. Analysis of mechanized mining technologies for the Romanian rock salt deposits, Annals of the University of Petro ani – Mining Engineering Vol. 15 (2014), ISSN: 1454-9174, pag.29. http://www.ulrichsweb.com/ulrichsweb/ulrichsweb_news/ulrichslb3u.asp.

Onica,I., Cozma,E. Stability analysis of the Praid Saline strength structures in the conditions of the roadheaders rocks salt cutting, Mining Revue, Vol.20, No. 3/2014, pag. 15-22, ISSN-L 1220-2053/ISSN 2247-8590, <http://www.ebscohost.com/titleList/a9h-journals.pdf>.

Onica, I., Cozma,E., Rusu,A. Stability Analysis of the Settling Underground Reservoir - Hydroelectric Arrangement of the Jiu River, Annals of the University of Petro ani, Mining Engineering, Vol.13 (XXXX), 2012, pag.78-89, (<http://upet.ro/anale/mine/pdf/Annals-Mining-Engineering-2012.pdf>)

Onica,I., Cozma,E., One ,D. Assessment of the Safety Factor of the Crown Pillar Between Open Pit and Underground Mining in the Case of the Ro ia Poieni Copper Deposit, Annals of the University of Petro ani, Mining Engineering, Vol.13 (XXXX), 2012, pag.63-77, (<http://upet.ro/anale/mine/pdf/Annals-Mining-Engineering-2012.pdf>).

Onica,I., Cozma,E., Marian,D. Roadheaders Selection for the Technical and Geo-Mining Conditions of the Romanian Salt Mines, Annals of the University of Petro ani, Mining Engineering, Vol.13 (XXXX), 2012, pag.42-50, (revist categoria B+, cod CNC SIS 22; MKPERIODICA - Rusia, ULRICH'S - Germania i EBSCO Publishing Inc. - SUA; SUWECO - Cehia) (<http://upet.ro/anale/mine/pdf/Annals-Mining-Engineering-2012.pdf>).

One ,V.D., Onica,I., Cozma,E. Mining Parameters Determination in the Case of the Open Pit and Underground Mining of the Ro ia Poieni Copper Deposit, Annals of the University of Petro ani, Mining Engineering, Vol.13 (XXXX), 2012, pag.35-41, (<http://upet.ro/anale/mine/pdf/Annals-Mining-Engineering-2012.pdf>).

Onica,I., Cozma,E., Marica,D. Stability Analysis of the Rock Salt Rooms and Pillars of the Ocele Mari Saline with the Aid of the 2D Finite Element Modelling, Annals of the University of Petro ani, Mining Engineering, Vol.12 (XXXIX), 2011, pag.7-17 (<http://upet.ro/anale/mine/pdf/Annals-Mining-Engineering-2011.pdf>).

Marian,D.P., Onica,I., Cozma,E. 2D and 3D Finite Element Modelling of the Jiu Valley Subsidence Phenomenon, Annals of the University of Petro ani, Mining Engineering, Vol.12 (XXXIX), 2011, pag.18-31, (<http://upet.ro/anale/mine/pdf/Annals-Mining-Engineering-2011.pdf>).

Marian, D.P., Onica, I., Cozma, E. New profile function for ground subsidence assessment in the case of underground coal mining, Revista Minelor Vol. 17, Nr. 4/2011, pag.24-33, , revist categoria B+, cod CNC SIS 293, ISSN-L 1220-2053 / ISSN 2247-8590; BDI: EBSCO Publishing Inc. - SUA; (www.upet.ro/revista/revistaminelor.html).

Onica,I., Semen,C., Cozma,E., Rusu,A. Support Structure Stability Analysis of the Valve House of the Bottom Discharge, R stoli a Dam, Annals of the University of Petro ani, Mining Engineering, Vol.XI, 2010, pag. 116-126, (<http://upet.ro/anale/mine/pdf/Annals-Mining-Engineering-2010.pdf>).

Onica,I., Semen,C., Cozma,E., Rusu,A. Stability Analysis On The Stages of the Underground Large Excavations With the Aid of Axial-Symmetry Finite Elements, Revista Minelor No.7, 2010, , revist categoria B+, cod CNC SIS 293, ISSN-L 1220 -2053/ISSN 2247-8590; BDI: EBSCO Publishing Inc. - SUA; (www.upet.ro/revista/revistaminelor.html).

Onica,I., Cozma,E. Kinetostatic Analysis of Tiered Powered Supports In Longwall Mining Faces, Vol.16, Revista Minelor Nr.4 /2010, pag.12-15, , revist categoria B+, cod CNC SIS 293, ISSN-L 1220-2053/ISSN 2247-8590; BDI: EBSCO Publishing Inc. - SUA; (www.upet.ro/revista/revistaminelor.html).

Badulescu,D., Onica,I. Influence of top coal height on the performances of top coal caving mining methods in Jiu Valley coal basin, Revista Minelor, Nr.11/2009, pag.14-16, , revist categoria B+, cod CNC SIS 293, ISSN-L 1220-2053/ISSN 2247-8590; BDI: EBSCO Publishing Inc. - SUA; (www.upet.ro/revista/revistaminelor.html).

Cozma,E. Onica,I., Hirian,C. Stability analysis of the bell-shape room (Turda saline), Revista Minelor, Vol.15, Nr.9/2009, pag.11-14, , revist categoria B+, cod CNC SIS 293, ISSN-L 1220-2053/ISSN 2247-8590; BDI: EBSCO Publishing Inc. - SUA; (www.upet.ro/revista/revistaminelor.html).

Cozma,E., Hirean,C., Semen,C., Onica,I. Study of Phenomena that Generated the Spontaneous Damage of Extraction Main well of Baia Nou Mine from August 7, 2006 (IV), Revista Minelor, Nr.1 / 2008, pag.11-16, ISSN 1220-2053, revist categoria B+, cod CNC SIS 293, ISSN-L 1220-2053/ISSN 2247-8590; BDI: EBSCO Publishing Inc. - SUA; (www.upet.ro/revista/revistaminelor.html).

Cozma,E, Onica,I. Collapse risk assessment of Anton mine, Turda saline, Annals pf the University of Petrosani, Mining Engineering, 2008, , <http://www.upet.ro/annals/mining/>.

Rsi32. Cozma,E., Hirean,C., Semen,C., Onica,I. Study of Phenomena that Generated the Spontaneous Damage of Extraction Main well of Baia Nou Mine from August 7, 2006 (III), Revista Minelor, Nr.12 / 2007, pag.6-9, , revist categoria B+, cod CNC SIS 293, ISSN-L 1220-2053/ISSN 2247-8590; BDI: EBSCO Publishing Inc. - SUA; (www.upet.ro/revista/revistaminelor.html).

Cozma,E., Hirean,C., Semen,C., Onica,I. Study of Phenomena that Generated the Spontaneous Damage of Extraction Main well of Baia Nou Mine from August 7, 2006 (II), Revista Minelor, Nr.8 (194) / 2007, pag. 21-26, ISSN 1220-2053 (www.upet.ro/revista/revistaminelor.html).

Onica,I., Cozma,E., Goldan,T. Statistical models of supports' behaviour in longwall mining faces of coal seams, Annals of University of Petro ani, Mining Engineering, vol.8 (XXXV), Universitas Publishing House, Petro ani-Romania, 2007, pag.70-75, (revist categoria B+, cod CNC SIS 22; MKPERIODICA - Rusia, ULRICH'S - Germania i EBSCO Publishing Inc. - SUA; SUWECO - Cehia, <http://www.upet.ro/annals/mining/>).

Onica,I., Cozma,E., Goldan,T., Rosioru,I. Analysis of the stress and strain state around the top coal caving faces, in the case of coal seam no.3, from Jiu Valley coal basin, using the finite element method, Annals of University of Petro ani, Mining Engineering, vol.8 (XXXV), Universitas Publishing House, Petrosani-Romania, 2007, pag.43-50, <http://www.upet.ro/annals/mining/>).

Goldan,T., Cozma,E., Onica,I. Environmental pollution interact with the innovation and diffusion of new technologies, Annals of University of Petrosani, Mining Engineering, vol.8 (XXXV), Universitas Publishing House, Petrosani, 2007, p.174-181, ISSN 1454-9174, <http://www.upet.ro/annals/mining/>.

Onica,I., Cozma,E., Goldan,T. The stowing process of Sfânta Varvara and Ida adits in view of ensuring the ground surface and roadways stability from the Cozla mine perimeter; Annals of University of Petrosani, Mining Engineering, vol.8 (XXXV), <http://www.upet.ro/annals/mining/>.

Cozma,E., Hirean,C., Semen,C., Onica,I., Arad,V. Study of Phenomena that Generated the Spontaneous Damage of Extraction Main well of Baia Nou Mine from August 7, 2006 (I), Revista Minelor, Nr.6 (192) / 2007, pag.13-17, (www.upet.ro/revista/revistaminelor.html).

Onica,I., Cozma,E., Goldan,T. Fatal accidents in the top coal caving mining of Jiu Valley basin (Romania), Journal of Mines, Metals&Fuels, 2006, vol.5, (no.12), ISSN: 00222755/ Proceedings of International Conference on New Technology for Surface and Underground Mining, Kolkata (India), 2006, pag.114-121, Journal of Mines, Metals and Fuels, 2006, 54(12): 300-304. ISSN: 00222755 (Scopus, Wanfang Data). [http://www.safetylit.org/citations/index.php?fuseaction=citations.viewdetails&citationIds\[\]=citjournalarticle_70169_34](http://www.safetylit.org/citations/index.php?fuseaction=citations.viewdetails&citationIds[]=citjournalarticle_70169_34).

Onica,I., Cozma,E., Goldan,T., Ro ioru,I. Considerations concerning the determination of top coal caving height, Annals of the University of Petro ani, Mining Engineering, vol.7 (XXXIV), 2006, University Publishing House, pag.44-54, ISSN 1454-9174, <http://www.upet.ro/annals/mining/>.

Onica,I., Cozma,E., Neag,I. Determination of Decalage Between two Longwall Faces, in the Case of Thick Coal Mining with Sublevel Caving, Revista Minelor, Nr.9-10 (147-148)/2003, pag.83-90., revist categoria B+, cod CNCIS 293, ISSN-L 1220-2053/ISSN 2247-8590; BDI: EBSCO Publishing Inc. - SUA; (www.upet.ro/revista/revistaminelor.html). (<http://www.agir.ro/buletine>)

Oncioiu,G., Onica,I. Ground Deformation in the Case of Underground Mining of Thick and Dip Coal Seams in Jiu Valley Basin, Annals of University of Petro ani, Mining Engineering, Vol.1 (XXVIII), Petro ani 2000, pag.32-42., ISSN 1454-9174, (revist categoria B+, cod CNCIS 22: MKPERIODICA - Rusia, ULRICH'S - Germania i EBSCO Publishing Inc. – SUA; SUWECO – Cehia, (<http://www.upet.ro/annals/mining/>).

Oncioiu,G., Onica,I. Roof Strata Stability Analysis with the Aid of Analytical Model. Application for the Case of Jiu Valley Coal Basin (Romania), Zeazity Naukowe Politechniki Slaskiej, Seria Gornictwo z.246, Nr.kol.1480,2000, pag.415-426, ISSN 0372-9508, Open Access System, BazTech, CrossRef, Google Scholar, Index Copernicus, ICM, POL-index, PBN, SHERPA/RoMEO (<http://sjsutst.polsl.pl>) (http://yadda.icm.edu.pl/baztech/element/bwmeta1.element.baztech-article-BSL5-0006-0079?q=bwmeta1.element.baztech-volume-0372-9508-zeszyty_naukowe_gornictwo_politechnika_slaska-2000-z_246:174&qt=CHILDREN-STATELESS)

Onica,I., Cozma,E., Marian,D.P. Ground Surface Deformation as Effect of Longwall Mining of the Coal Seam No. 3 of the Livezeni Mine, Proceeding of the 22nd International Mining Congress and Exhibition of Turkey, May 11-13, 2011, Ankara, Turcia. (<http://www.scopus.com/ux4ll8xu6v.useaccesscontrol.com/record/display.url?eid=2-s2.0-84923104670&origin=AuthorNamesList&txGid=D5A4FC3E00700059D4FA6B108758649F.Vdktq6RVtMfaQJ4pNtC0%3a67>).

Onica,I., Cozma,E., Marica,D. Stability of the underground rock salt support structures of the Ocnele Mari Saline (Romania), Proceeding of the 22 World Mining Congress & EXPO 2011, Istanbul, September 11-16, 2011, pag.259-266 Published by Aydo du Ofset, Ankara-Turkey, ISBN : 978-605-01-0146-1 (Takim)978-605-01-0147-8 (www.maden.org.tr).

Onica,I., Cozma,E., Marian,D.P. Prediction of the Surface Subsidence in the Jiu Valley Coal Basin, Proceeding of the 20th International Symposium on Mine Planning and Equipment Selection, Almaty, Kazakhstan, October 12-14, 2011, (<http://www.mpes2011.cmrp.kz/images/PROGRAM.pdf>).

Onica, I., Semen,C., Cozma, E. Stability Analysis of the Valve House of the Bottom Discharge, on the Excavation Stages, with the Aid of Axial-Symmetry Finite Elements, Geotechnik-Kolloquium "Moderne Bodenmechanik in der Geotechnik" -im Rahmen des 62. Berg- und Hüttenmännischen Tages der TU Bergakademie Freiberg, 17. Juni 2011, Heft 2011-4, Herausgeber: H. Klapperich, pag.457-467, ISSN 1611-1605 (<http://tu-freiberg.de/fakult3/gt/veroeff/2011-4.html>).

Onica,I., Andras,I., Cozma,E. Tiered powered supports in longwall mining faces, Proceedings of Mine Planning & Equipment Selection, 2009, November 16-19, Banff, Alberta, Canada (<http://www.mpes-cami-swemp.com/listingmpes.pdf>).

Onica,I., Cozma,E. 3D finite element analysis in the rock salt structures stability of the Romanian salines, Proceedings of Mine Planning & Equipment Selection, 2009, November 16-19, Banff, Alberta, Canada (<http://www.mpes-cami-swemp.com/listingmpes.pdf>).

Onica,I., Cozma,E., Jujan,C. Geomechanical phenomenon of the fatal accident produced in the top coal caving mining face no.431, Petrla mine (Romania), Proceedings of Mine Planning & Equipment Selection, 2009, November 16-19, Banff, Alberta, Canada (<http://www.mpes-cami-swemp.com/listingmpes.pdf>).

Onica,I., Cozma,E. Performances and failures in the top coal caving mining, Proceedings of 21s World Mining Congress&Expo 2008, Krakow-Poland, Sobczyk&Kicki (eds) © 2008 Taylor&Francis Group, London, UK, pag.143-151.

Onica,I., Cozma,E. Stress and strain developed around the longwall faces in the Jiu Vasley coal basin, Proceedings of 21s World Mining Congress&Expo 2008, Krakow-Poland, Sobczyk&Kicki (eds) © 2008 Taylor&Francis Group, London, UK, pag.153-163.

Onica,I., Cozma,E., Goldan,T. The Ground Surface and Roadways Stability Analysis under the Sfanta Varvara and Ida Adits Influence (Cozla Mine Perimeter-Romania); Proceedings of microCAD 2008, International Scientific Conference, University of Micolc, 20-21 March 2008.

Onica,I., Cozma,E. et.al. Determination of Decalage Between Two Longwall Faces in the Case of Thick Coal Mining with Sublevel Caving, Proceedings of 9-th International Mining, Petroleum and Metallurgical Engineering Conference, Cairo University, February 21-24, 2005, pag.101-106.

Cozma,E.,Onica,I.,Cozma,B. Analysis of Shock Bumps Possibilities Occurrence in the Conditions of Some Coal Seams of Jiu Valley Basin (Romania), Proceedings of the 9-th National Mine Surveying Conference, Analysis, Modeling and Monitoring of Geological Risk in Hazardous Areas, Varna, Bulgaria, June 17-21, 2002.

Boyte,A., Onica,I., B dulescu,D. Hard rocks slope stability analysis of Ro ia Poieni open-pit mining (Romania), Proceedings of the 14th International Conference on Automation in Mining, Tampere, Finland, 3-5 September, 2001.

Onica,I., B dulescu,D. Boyte,A. Roof support stability analysis of the sublevel workings in the Fagu Cet ii -B lan mine (Romania), Proceedings of the 14th International Conference on Automation in Mining, Tampere, Finland, 3-5 September, 2001.

Oncioiu,G., Onica,I. Ground deformation in the case of underground mining of thick and gentle inclined coal seams in Jiu Valley basin (Romania), Proceedings of the 14th International Conference on Automation in Mining, Tampere, Finland, 3-5 September, 2001.

Oncioiu,G., Onica,I. Ground Deformation in the Case of Underground Mining of Thick and Dip Coal Seams in Jiu Valley Basin (Romania), Proceedings of 18th International Conference on Ground Control in Mining, 3-5 August, 1999, Morgantown WV, USA., pag.334-342.

Oncioiu,G., Onica,I. Roof Stability Srata Analysis with the Aid of Analytical Model. Application for the Case of Jiu Valley Coal Basin (Romania), Proceedings of European Coal Conference'97, Izmir-Turkey, 5-10 May, 1997, pag. 123-129.

Le u,N., Onica,I., Madear,G. The Stabillity Modelling of the Rectangular Underground Wide Excavations in Layered Rocks Using the Finite Element Method, Proceedings of MicroCAD'94, International Computer Science Conference, Miskolci, 3 March,1994, pag. 7-13, ISBN 963-661-4571.

Ilia ,N., Onica,I. Analyse de l'influence de l'espace exploité sur les zones approchées des longues tailles d'abattages, dans les conditions des couches poussees et pantées de charbon de la Vallée de Jiu, III Congresso Italo Brasiliano di Ingegneria Mineraria, Verona, 26-27 Settembre, 1994, Edizia da EDIZIONI DEI PARMA, pag. 73-76.

Le u,N.,Onica,I.,Madear,G., Radermacher,L. The Use of the Bolted Supports for the Difficult Geomechanics Conditions of the Underground Roadways from the Jiu Valley Coal Basin, Proceedings of International Seminar: Gap Between Demand and Realization of Uderground Traffic Projects in Countries of Central and Eastern Europe, Budapest, 28-30 January, 1994, pag. 57-70.

- CONTRACTE DE CERCETARE (total 65):

ONICA,I., ILIA ,N. .a., Perfec ionarea metodelor de exploatare mecanizat a stratelor groase din Valea Jiului, utilizând sus ineri mecanizate reversibile, Contract UTP cu MIS, nr.23/1992 (1992-1995).

ONCIOIU,G., ONICA,I., .a., Perfec ionarea schemelor de deschidere i de preg tire, a metodelor i tehnologiilor de abataj pentru minele din Valea Jiului (Lonea, Petrila, Dâlja i Aninoasa), Contract U.P. cu R.A.H. România, nr.31/1996.

ONCIOIU,G., ONICA,I. .a., Perfec ionarea schemelor de deschidere, preg tire i exploatare a minelor Paro eni, Valea de Brazi i Uricani, Contract U.P. cu R.A.H. România, nr.32/1997.

ONCIOIU,G., ONICA,I. .a., Perfec ionarea schemelor de deschidere, preg tire i a tehnologiilor de abataj pentru minele: Vulcan, B rb teni, Câmpu lui Neag, Contract U.P. cu R.A.H. România, nr.33/1998.

ONICA,I., ONCIOIU,G., .a., Studii aplicabilit ii unor metode de exploatare în corela ie cu condi iile de z c mânt, în vederea cre terii productivit ii muncii i reducerii pierderilor de exploatare din zona B i a Bihor , Contract U.P. cu C.N. MINVEST Deva, nr.10/1999.

COZMA,E., ONICA,I. .a., Reconsiderarea proiectului de deschidere, preg tire i exploatare a rezerv. de sare gem de la Salina Ocnele Mari, oriz.209, 225 i 241, Contract cu E.M.Râmnicu Vâlcea, nr.01/2001

HIRIAN,C., ONICA,I. .a., Analiza factorilor care au condus la producerea evenimentului din 22.05.2004, în blocul III, str.3, panoul 5, de la E.M.Uricani , Contract E.M.Uricani, Nr.24/2004

COZMA,E., ONICA,I. .a., Studiul fenomenelor care au generat avarierea spontan a pu ului principal de extrac ie al Minei Baia Nou din data de 07.08.2006 , Contract cu Sucursala Minier Banat-Anina, Nr12/2006.

ONICA,I., COZMA,E., .a., Analiza stabilit ii camerelor trapezoidale din complexul minier Unirea utilizate în scop turistic i sportiv din cadrul Salinei SI nic Prahova; Contract nr.6/2008.-SNS Bucuresti.

ONICA,I., COZMA,E., .a., Cre terea atractivit ii turistice a zonei cu poten ial balnear zona Durg u -Valea S rat i Salina Turda, Contract nr.8/2008- SC ACI Cluj-Napoca.

ONICA,I., COZMA,E. .a., Studii privind influen a exploat rii subterane asupra suprafe ei, zonare i condi ii de execu ie a lucr rilor de închidere i ecologizare a câmpului minier B rb teni, Contract Nr.7/03.06.2008 – ICPM SA Petro ani.

ONICA,I, COZMA,E. .a., Cre terea atractivit ii turistice a zonei cu poten ial balnear zona Durg u -Valea S rat i Salina Turda. Detalii de execu ie Contract nr.21/2008- SC ACI Cluj-Napoca.

ARAD,V., ONICA,I. .a., Cauzele geominiere care au condus la producerea accidentului din data de 15.11.2008 de la E.M.Petrila, Expertiza tehnica, Contract Nr.1/2009, cu CNH Petro ani.

ARAD,V., ONICA, I. .a., Studiul de stabilitate i modelul 3D al unei excava ii de mari dimensiuni executate în z c mântul de sare SI nic Prahova. Acest studiu este suport pentru FP7 212343 DESIGN OF APAM – EUROPEAN. INFRASTRUCTURE FOR LARGE APPARATUS STUDYING GRAND UNIFICATION AND NEUTRINO ASTROPHYSYCS – LAGUNA, Contract Nr. 2/2009.

ONICA,I., COZMA,E. .a., Analiza stabilit ii excava iilor subterane de la Salina Ocnele Mari, Contract Nr.36 / 31 mai 2010, cu S.N.S rii S.A. Bucure ti, Sucursala Râmnicu Vâlcea.

ONICA,I., COZMA,E. .a., Proiect tehnic - Exploatarea s rii cu combina la Salina Praid, Contract nr.19/12.12.2011 cu SNS SA Sucursala Salina Praid

ONICA,I., COZMA,E. .a., Proiect tehnic - Exploatarea s rii cu combina la Salina Ocna Dej, Contract nr.40/21.06..2012 cu SNS SA Sucursala Salina Ocna Dej.

ONICA,I., COZMA,E. .a., Proiect tehnic - Exploatarea s rii cu combina la Salina SI nic Prahova, Contract no. 7858, din data 10. 07. 2012 cu SNS SA Sucursala Salina SI nic Prahova.

ONICA,I., COZMA,E. .a., Studiul de fezabilitate: „Lucr ri pentru dezvoltarea capacit ii de produc ie la E.M. Lonea, jud.Hunedoara”- lot I (Etapa I i Etapa II), Simbol: 40-285/ R, Contract nr. 4375 /2014, Universitatea din Petro ani - Societatea Complexul Energetic Hunedoara S.A.

ONICA,I. .a., Studiul de fezabilitate: „Lucr ri pentru dezvoltarea capacit ii de produc ie la E.M. Lupeni, jud.Hunedoara”- lot I (Etapa I i Etapa II), 44-386/I, Contract nr. AP 4378 /10.11.2014, S.C. Universal CERC Proiect S.R.L. - Societatea Complexul Energetic Hunedoara S.A.

VERE ,I., ONICA,I. .a. Studiu de cercetare privind amplasarea conductelor de transport gaze naturale în zone cu posibile fenomene de subsiden . Etapa I – Studiu privind amplasarea conductei de transport gaze naturale Bulgaria-România-Ungaria - Austria în zona de exploatare minier Valea Jiului, Contract UP cu S.N.T.G.N. TRANSGAZ S.A. Media , nr.634 / 09.12.2015.

- BREVETE DE INVEN IE (total 7)::

ONICA,I., BURDEA,I., Dispozitiv de montat elemente prefabricate de sus inere a lucr rilor miniere orizontale s pate cu combina, Brevet de inv. 90477 / 30.05.1986.

ONICA,I., Sclerometru electromagnetic cu recul, Brevet de inv. 91201 / 30.08.1986.

ONICA,I., DR GAN,D., Ma in pentru sus inerea cu bol ari a lucr rilor miniere orizontale, Brevet de inv. 91535 / 28.11.1989.

ONICA,I., *Procedeu de exploatare cu subminare a stratelor groase de cărbune și susținere mecanizată pentru aplicarea procedului*, Brevet de inv. 93430 / 27.07.1987.

ILIAȘ,N., ONICA,I.ș.a., *Metodă și secție de susținere a fronturilor de abataj*, Brevet de inv. RO106440 B1 /30.04.93.

ILIAȘ,N., ONICA,I.ș.a., *Procedeu de exploatare cu subminare a stratelor groase de cărbune și susținere mecanizată pentru aplicarea procedului*, Brevet de inv. RO105304 / 30.10.1992.

ILIAȘ N., ONICA I.ș.a., *Combină minieră*, Brevet de inv. RO105305-A / 30.10.1992.

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