



Raport privind activitatea Școlii Doctorale din Universitatea Petrol - Gaze din Ploiești pentru anul universitar 2019-2020

Metodologii și regulamente elaborate/actualizate

- modificarea Metodologiei de organizare și desfășurare a concursului pentru funcția de Director al Consiliului Studiilor Universitare de Doctorat de la IOSUD - Universitatea Petrol-Gaze din Ploiești (art.9 din HS nr.16/29.11.2018)
- Metodologia de organizare a alegerilor și de numire a membrilor Consiliului pentru Studiile Universitare de Doctorat din cadrul Universității Petrol-Gaze din Ploiești (art.1 din HS nr.3/07.02.2019)
- Regulamentul de organizare și desfășurare a studiilor universitare de doctorat la Universitatea Petrol-Gaze din Ploiești (valabil pentru studenții doctoranzi înmatriculați înainte de anul universitar 2019-2020), Revizia 2, Ediția a 3-a (art.1 din HS nr.5/14.03.2019)
- Regulamentul privind organizarea și desfășurarea studiilor universitare de doctorat la Universitatea Petrol-Gaze din Ploiești (valabil pentru studenții doctoranzi înmatriculați începând cu anul universitar 2019-2020) (art.2 din HS nr.5/14.03.2019)
- Metodologia de organizare și desfășurare a concursului de admitere la studii universitare de doctorat 2019t.5 din HS nr.15/18.07.2019)
- Elaborarea Procedurii de presuținere și de susținere a tezelor de doctorat pe durata stării de urgență – art.1 din HS nr.15/24.04.2020
- Modificarea Procedurii de presuținere și de susținere a tezelor de doctorat pe durata restricțiilor impuse de pandemie – art.4 din HS nr.16/11.05.2020

Creșterea numărului de conducători de doctorat abilitați

Susținerea unui număr minim de 3 teze de abilitare

Număr de teze de abilitare susținute (nume, prenume cadru didactic abilitat, facultatea):

Număr de teze de abilitare susținute (nume, prenume cadru didactic abilitat, facultatea): 2019/2020

- ALBULESCU MIHAI ADRIAN – Ordin 4049/09.04.2020 – afiliat la domeniul de doctorat MINE, PETROL ȘI GAZE
- STOICESCU MARIA – Ordin 4050/09.04.2020 – afiliat la domeniul de doctorat MINE, PETROL ȘI GAZE
- DRAGOMIR FLORIN (Universitatea Valahia din Târgoviște) – Ordin nr. 4059/09.04.2020 domeniul de doctorat INGINERIA SISTEMELOR

Grad de realizare: ÎNDEPLINIT 100%

Atragerea de granturi doctorale anuale

Admitere 2019

Ingineria sistemelor = 2 admiși bugetați

Inginerie mecanică = 3 admiși bugetați

Inginerie chimică = 3 admiși buget + 1 taxa

Mine, petrol și gaze = 2 admiși buget + 1 taxa CPV + 1 străin bursier al statului român

Atragerea de granturi doctorale anuale

Doctoranzi cu și fără frecvență bugetați – 15

Realizarea indicatorului de performanță A pentru activitatea 4.3.

Facultatea/Departamentul/ Universitatea Petrol –Gaze din Ploiești	Locuri scoase la admitere pentru doctoranzi cu și fără frecvență bugetați 2019-2020	Număr doctoranzi cu și fără frecvență bugetați admiși 2019-2020	Grad de realizare
Ingineria Petrolului și Gazelor	2	2 + 1 bursier al statului român	
Inginerie Mecanică și Electrică	5	3+2=5	
Tehnologia Prelucrării Petrolului	3	3	
Științe Economice	0	0	
Litere și Științe	0	0	
Universitatea Petrol – Gaze din Ploiești	10	11	73,3 %

Număr de doctoranzi bugetați: 10 (conform cifrei de școlarizare primite de la M.E.N. cu adresa nr. 8869 din 15.05.2019).

Grad de realizare: 73,3 %

Asigurarea de resurse financiare suplimentare prin atragere doctoranzi plătitori de taxe.

Doctoranzi cu taxă (români și străini) – 5

Facultatea/Departamentul/ Universitatea Petrol –Gaze din Ploiești	Locuri scoase la admitere pentru doctoranzi cu taxă 2018-2019	Număr doctoranzi cu taxă admiși 2018-2019	Grad de realizare
Ingineria Petrolului și Gazelor	4	2 CPV	
Inginerie Mecanică și Electrică	6	0	
Tehnologia Prelucrării Petrolului	2	1 + 1 CPV	
Științe Economice	0	0	
Litere și Științe	0	0	
Universitatea Petrol – Gaze din Ploiești	12	4	

Număr de doctoranzi cu taxă: 4

Grad de realizare: 80 %

Teze de doctorat susținute:

Domeniul de doctorat: Mine, petrol și gaze

1. CONSTANTINESCU CONSTANTIN / 13 DECEMBRIE 2019 / prof.univ.dr.ing. GHEORGHİȚOIU Mihai
2. STOIAN G. ION (căș. STOIAN-ALBULESCU) / 29 septembrie 2020 / Prof.univ.habil.dr.ing. DINU Florinel
3. TABATABAI SEYEDMEHDI (IRAN) / 10 iunie 2020 / Prof.univ.dr.ing. MINESCU Florea
4. DINU F. ROBERT-VALENTIN / 31 iulie 2020 / Prof.univ.dr.ing. AVRAM Lazăr
5. RĂDĂCINĂ (RĂDĂCINĂ-RUSU) M. DAN / 25 septembrie 2020 / Prof.univ.dr.ing. AVRAM Lazăr

Domeniul de doctorat: Inginerie chimică

1. ION DAN / 11 DECEMBRIE 2019 / Prof.univ.dr.ing. ROȘCA Paul

Domeniul de doctorat: Ingineria sistemelor

2. BĂRBOS MIHAI EMILIAN / 3 DECEMBRIE 2019 / Prof.univ.dr.ing. PARASCHIV Nicolae
3. NGUYEN HOANG VIET (VIETNAM) / 24 septembrie 2020 / Prof.univ.dr.ing. PARASCHIV Nicolae
4. CAO MINH ANH (VIETNAM) / 24 septembrie 2020 / Prof.univ.dr.ing. PARASCHIV Nicolae

Domeniul de doctorat: Inginerie mecanică

1. PĂȚÎRNAC G. IULIAN / 17 septembrie 2020 / Prof.univ.habil.dr.ing. RÎPEANU Răzvan George

ACTIVITATEA DE CERCETARE 2019-2020

Domeniul de doctorat: MINE, PETROL ȘI GAZE 2019-2020

Teza abilitare

1. *ALBULESCU MIHAI ADRIAN, Contributii la studiul fenomenelor ce insotesc miscarea fluidelor prin conducte, Teza de abilitare, Universitatea Petrol-Gaze, Ploiești, 2019*
2. *STOICESCU MARIA, Cercetări teoretice și experimentale în domeniul comportării complexe a soluțiilor de polimer și a țiteiului, Teza de abilitare, Universitatea Petrol-Gaze, Ploiești, 2019*

1.1. Cărți și capitole în cărți de specialitate

1. **M. Albulescu**, C. Trifan, D. Stoianovici, *Distributia gazelor naturale prin rețele de conducte*, Editia 2, Editura Universității Petrol-Gaze din Ploiești, Ploiești, România, 2019.
2. Popescu, C., **Avram, L.**, *University Partnership for Sustainable Development*, [Sengupta, E.](#), [Blessinger, P.](#) and [Yamin, T.S.](#) (Ed.) *University Partnerships for Sustainable Development (Innovations in Higher Education Teaching and Learning, Vol. 20)*, Emerald Publishing Limited, pp. 31-43. <https://doi.org/10.1108/S2055-36412020000020006>, ISBN: 978-1-78973-644-1, eISBN: 978-1-78973-643-4; ISSN: 2055-3641, 2020.

3. **Avram, L.**, Stoica, M., Maloș, M., "Tehnologia forării sondelor". Editura Universității Petrol-Gaze din Ploiești, 2020 (374 pag.).
4. Fîță Daniel Nicolae, Bădică M. N., **Bădică Carmen Matilda**, Vișan N., *Evaluarea riscurilor asociate infrastructurilor critice din sectorul energetic*, Petroșani, Editura Universitas, 2019;
5. Bădică M. N., **Bădică Carmen Matilda**, *Managementul riscurilor oleoductelor/gazoductelor și îmbunătățirea calității apei de zăcământ*, Petroșani, Editura Universitas, 2019;
6. **Carmen Matilda Bădică**, M. N. Bădică, *Infrastructuri critice naționale din sectorul energetic. Apa de zăcământ, oleoductele și gazoductele*, Petroșani, editura Universitas, 2020;
7. **Carmen Matilda Bădică**, *Tratarea apei în industria petrolieră*, Petroșani, Editura Universitas, 2020.
8. **Timur Chis-Optimizarea proceselor chimice și biotehnologice, Aplicații seminar**, Editura Stef, 2020, 100 pagini, I.S.B.N.978-606-028-402-4,
9. **Renata Radulescu, Timur Chis-Controlul automat al proceselor de transport fluide petroliere, (Elemente SCADA)**, Editura Universitatii Petrol-Gaze, 2020, 161 pagini, I.S.B.N. 978-973-719-786-3,
10. **Timur-Vasile Chis, Cercetari privind optimizarea proceselor din transportul și depozitarea titeiului, produselor petroliere și a gazolinei**, Editura Estfalia, 2019, 376 pagini, I.S.B.N. 978-606-757-026-7,
11. Stoianovici, D. **Stoicescu, Maria**, 2019, *Dinamica fluidelor prin medii poroase*, p. 243; Editura Universității Petrol – Gaze din Ploiești, ISBN 978-973-719-766-5.
12. **Stoicescu, Maria**, Stoianovici D., 2019, *Dinamica gazelor prin conducte*, p. 283; Editura Universității Petrol – Gaze din Ploiești, ISBN 978-973-719-757-3

1.2. Suport didactic

1. **M. Albulescu**, R.Radulescu, T.Chis, *Procese hidrodinamice, Imdrumar de laborator, Aplicații numerice*, Editura PIM, Iasi, România, 2020

(C) Articole

C.1 Articole publicate în reviste cotate ISI

1. Mhanna, A., Dinu, F., Avram, L., Halafawi, M., - Compositional Simulation of GasCondensateWells from Tintea – Astra Field, Revista de Chimie București, March 2020, Vol. 71, nr. 3, p. 466-479, Rev.Chim. Bucharest 71 (3)-2020, ISSN Online 2668-8212, ISSN Print 00347752; <https://doi.org/10.37358/R.C.20.3.8021>; Factor Impact IF 2018-2019: 1,605; SJR: 0,294; Cite Score: 1,23; 5-Years IF: 1,34; SNIP: 0,710.
2. Dinu, R. V., Halafawi M., Dinu F., Lazăr A.: "A comparative model to differentiate between the production from vertical and horizontal wells in Bilciuresti gas field", Petroleum & Coal, International Journal for Petroleum Processing, Petrochemistry and Coal Processing, 62(4), 2020, p.1523-1532 ISSN 1337-7027, P&C is an Open Access Journal published online quarterly at www.vurup.sk website.
3. **Panaitescu, C., Stoicescu, M., Ponea, M.G., Nancu, D., Nguyen, D.N.**, 2020, *Biomass Valuation in the Context of Sustainable Agricultural Development in Romania*, Economics of Agriculture, Belgrade, Vol. 67, Nr. 3, p. 699 – 717, ISSN 0352-3462; eISSN 2334-8453, 2020, <http://ea.bg.ac.rs>
4. **Timur Chis, Renata Rădulescu- Mathematic modeling of corrosion in petrochemical instalations, OXIDATION COMMUNICATIONS**, ISNN 0209-4541, Year 2020, Book 4, *Impact factor 0,289*,

C.2 Articole în reviste indexate în alte baze de date internaționale de referință pentru domeniu, care fac un proces de selecție a revistelor pe baza unor criterii de performanță,

- C2.1 Lungu, I., Frunzescu, D., Dinu, F., Brănoiu, G., Jugăstreanu, C., Some aspects regarding the underground storage of natural gas in saline deposits, GEOLINKS International Conference on GeoSciences

C.3 Articole publicate în reviste naționale de categoriile B+ și B, în cotarea CNCSIS,

1. C3.1 Albulescu- Stoian, I., Dinu, F., Pana I., Aspects regarding the use of dynamic models in the study of volumic losses between piston and barrel at borehole pumps, Aspecte referitoare la utilizarea modelelor dinamice în studiul pierderilor volumice dintre piston și cilindru la pompele de extracție, , Buletinul UPG Ploiești Seria Tehnică, vol. LXXI, nr.3, 2019;
2. C3.2 Albulescu- Stoian, I., Dinu, F., Pana I., Influence of the pressure and temperature on volume losses between piston and barrel at the oil extraction pumps, Influența temperaturii și presiunii asupra pierderilor de lichid dintre pistonul și cilindrul unei pompe de extracție a petrolului, , Buletinul UPG Ploiești Seria Tehnică, vol. LXXI, nr.3, 2019.
3. 1. *Timur Chiș, Renata Rădulescu-Mathematic modeling of catalytic cracking*, Romanian Journal of Petroleum & Gas Technology VOL. I (LXXII) No. 2/2020, 9371.

E3. Articole publicate în alte reviste de specialitate naționale cu ISSN sau ISBN

E3.1. Dinu, F., Panaitescu, Cașen, **Stoicescu, Maria**, 2020, *O abordare pragmatică a internaționalizării învățământului superior în domeniul petrolului și gazelor*, Monitorul de petrol și gaze, Nr. 8/2020, p. 13 – 17, Revista editată de Societatea Inginerilor de Petrol și Gaze din România, ISSN 1583-0322; Fondată în 1900 ca: Moniteur du Pétrole Roumain; rédié en roumain et en français; ISSN 0369-1594.

ARTICOLE

1. Halafawi, M., **Avram, L.**, *Wellbore trajectory optimization for horizontal ells: the plan vs. the reality*, Journal of Oil, Gas and Petrochemical Sciences, Citation – 2 (1), 2019: 49-54, DOI:10.3088/jogps.00024.

2. Halafawi, M., **Avram, L.**, *Borehole insitu stress stability analysis of RBS-9 field utilizing the inversion technique*, **Journal of Engineering Sciences and Innovation**, București, Volume 4, Issue 1 / 2019, ISSN-L 2537-320X, ISSN 2601-6699, pp. 67 - 78.

3. **Avram, L.**, Lupu, D., *Potențialul energetic al zăcămintelor de gaze naturale din bazinul Transilvaniei – situația actuală și de perspectivă / The energy potential of natural gas fields from transylvanien basin – current and future trends*, **GAZELE NATURALE – RESURSA VITALĂ DE ENERGIE PENTRU ROMÂNIA** (organizatori: CNR-CME, OMV Petrom, UPG Ploiesti și SNGN ROMGAZ SA.), OMV Petrom, 23 mai 2019. Publicat în EMERG 9 (Editura AGIR), Seria nouă, An V, 2019, pp. 156-162.

4. Halafawi, M., Stan, M., **Avram, L.**, *Prediction modeling for platforms' network vessels performance*, Petroleum and Coal, Pet Coal (2019); Volume 61, 2019, Issue 5 61(5): 983-997 ISSN 1337-7027, indexat SCOPUS.

5. Antonescu, N. N., Tudorache, V., **Avram, L.**, *Considerații privind creșterea capacității de stocare subterană a gazelor naturale în câmpurile de petrol și gaze depletate*, Conferința Internațională - Zilele Academiei de Științe Tehnice din România 2019, Ediția a XIV-a, „Creativitatea în Dezvoltarea Societății Cunoașterii”, 17-18 octombrie, 2019, Chișinău, România.

6. **Avram, L.**, Stan, M., *Application of the similitude theory with establishment of a method of drilling for water wells on the Mars surface*, Conferința Internațională - Zilele Academiei de Științe Tehnice din România 2019, Ediția a XIV-a, „Creativitatea în Dezvoltarea Societății Cunoașterii”, 17-18 octombrie, 2019, Chișinău, România.

7. Antonescu, N. N., **Avram, L.**, Calcan, Ghe., *Resursele de petrol și gaze între reflecție și acțiune*, Conferința Internațională - Zilele Academiei de Științe Tehnice din România 2019, Ediția a XIV-a, „Creativitatea în Dezvoltarea Societății Cunoașterii”, 17-18 octombrie, 2019, Chișinău, România.

8. El Gaburi, H., Halafawi, M., **Avram, L.**, *Improving Drilling Wellbore Stability and Practices of Zubair Field Based on Offset Data*, Oil and Gas Journal, 2019 ??
9. Felecan, N., **Avram, L.**, *Antroponimia, indice al multiculturalismului. Studiu de caz: Gimnaziul latino-catolic din Bistrița (1729-1779)*, Conferința Internațională de Onomastică „Numele și numirea”, Ediția a V-a, Multiculturalism în onomastică, Baia Mare, 3-5 septembrie 2019 (ISI).
10. Ulloa Gutiérrez, Jiménez Requena, J. M., J. V., Pozo Al. O., **Avram, L.**, *Successful Water Shut Off Treatment Of An Offshore Extended-Reach Well Led To Maximize Hydrocarbons Production*, Revista minelor, Petroșani, 2019, pag. 6-10.
11. Pozo Al. O., Ulloa Gutiérrez J. V., **Avram, L.**, Brezeanu, C. M., *Offshore Pipeline Chemical Cleaning Technological Solution Executed On An Artificial Island*, Revista minelor, Petroșani, 2019, pag. 11-14.
12. Olar, H-R, **Avram, L.**, Stan, M., *Management of rehabilitation of productive infrastructure of sections with high risk of degradation* IJESR (ISSN: 2581-4591), vol 3, issue 5, decembrie 2019, pag 43-52.
13. Olar, H-R, **Avram, L.**, Stan, M., *The inspection, maintenance and usage of the equipments from areas with potentially explosive atmosphere within the gas production department // Inspecție și întreținere, utilizare / exploatare instalații și echipamente din zone cu atmosferă potențial explozivă în cadrul secției de producție gaze*, Acta tehnica napocensis, Technical University of Cluj-Napoca, Series: Applied mathematics, mechanics, and engineering, vol. XX, issue XX, month, 2020.
14. Halafawi, M., **Avram, L.**, *Trajectory Optimization for Drilling Long Horizontal Wells*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnică, vol. LXXI, ISSN (Online) 2247-8574, ISSN-L 1224-8495, no. 1, 2019, pg. 72-80.
15. Halafawi, M., **Avram, L.**, *Wellbore, BHA, Motor / Rotary Streerable and Bits Statistical Performance Analyses for Drilling Horizontal Wells*, Buletinul Universității Petrol-Gaze din Ploiești, Seria Tehnică, vol. LXXI, ISSN (Online) 2247-8574, ISSN-L 1224-8495, no. 2, 2019, pg. 47-55.
16. Halafawi, M., **Avram, L.**, *Wellbore instability prediction and performance analysis using Poroelastic modeling*, Journal of Oil, Gas and Petrochemical Sciences, Ology, Open Access, July 11, 2019, 2(2):93-106. DOI: 10.30881/jogps.00028
17. Stan, I. G, Bucur, A, **Avram, L.** *Influența fluidizantilor asupra pastelor de ciment ușoare*, Revista minelor / Mining Revue, Vol. 25 Nr. 4 / 2019 ISSN-L 1220 – 2053 / ISSN 2247 -8590, pg. 29-34.
18. Halafawi, M., Popovici, D., Charif, M., **Avram, L.**, *Hazards Identification and Quality Control for LNG Plant*, Petroleum and Coal Journal, Pet Coal (2020); 62(2): 453-476, 6 ISSN 1337-7027 (an open access journal), May, 2020.
19. Olar, H-R, **Avram, L.**, Stan, M., *Environmental protection within a gas production section*, International Journal of Engineering Research & Technology (IJERT), ISSN 2581-4591, Volume 4, Issue 2, March-April, 2020.
20. Olar, H-R, **Avram, L.**, Stan, M., *Comparative study on the introduction of solid foam substances in gas wells to remove water from the bottom of the well*, International Journal of Engineering Research & Technology (IJERT), ISSN 2581-4591, Volume 4, Issue 2, March-April, 2020.
21. Mhanna, A., Dinu, F., **Avram, L.**, Halafawi; M., *Compositional Simulation of Gas Condensate Wells from Tintea*, Revista de Chimie -Bucharest- Original Edition- 03/2020; 71(3):466-479.
22. Olar, H-R, **Avram, L.**, Stan, M., *Gas diffusions in flexible pipelines*, IJESR (ISSN: 2581-4591), vol 4, issue 2, aprilie 2020, pag 6-11.
23. Olar, H-R, **Avram, L.**, Stan, M., *Determination of the foam and freezing point of the solutions in the mix for evacuation of liquids from the bottom of the well using the automatic devices to introduce foam - ACTA TECHNICA NAPOCENSIS*, Technical University of Cluj-Napoca, Series: Applied mathematics, mechanics, and engineering, vol. 83, No 2, 2020 (atna-mam.utcluj.ro). (ISI)
24. Halafawi, M., Mhanna, A., **Avram, L.**, *Tackling Wellbore Difficulties for Drilling Deviated and Horizontal Wells*, **Journal of Engineering Sciences and Innovation**, București, Petroleum and Mining Engineering Section (F), 2020. (submitted)
25. Halafawi, M., Abdulrahman, N., **Avram, L.**, *External and Internal Cathodic Protection of Storage Oil Tanks*, **Journal of Engineering Sciences and Innovation**, București, Petroleum and Mining Engineering Section (F), 2020. (submitted)
26. Halafawi, **Avram, L.**, *Anti-Collision System Management Improves The Development Well Placement*, EMERG, Volume VI, Issue 2/2020, ISSN 2668-7003, ISSN-L 2457-5011, August, 2020.

27. Halafawi, M., Rădăcină, D., **Avram, L.**, *Casing Wear Prediction In Horizontal Wells*, Petroleum and Coal Journal, ISSN 1337-7027, 2020 April 2020. 62(2):395-405
28. Halafawi, M., **Avram, L.**, *Complex BHA Mechanics and Performance Optimization for Horizontal Wells*, Petroleum and Coal Journal, ISSN 1337-7027, 62(3):858-875, July 2020.
29. Halafawi, M., Tahair, M., Wiercigroch, M., **Avram, L.**, *Optimum Well Trajectory Design Based on Numerical Optimization Method PSO Algrithm and Wellbore Stability*, Petroleum and Coal Journal, 62(1) 114-128, 2020.
30. Halafawi, M., El Gabouri, H., **Avram, L.**, *Offset-well data improve Zubair wellbore stability*, Oil and Gas Journal, 118(1), Jan. 6, 2020.
31. Halafawi, M., Mhanna, A., Charif, M., **Avram, L.**, *Troubleshooting Identification and Upset Conditions Effect of LNG Plant*, Petroleum and Coal Journal, 62 (1): 220-232, Jan, 2020.
32. Halafawi, M., **Avram, L.**, El Dilbani, A., Mhanna, A., *Integrated risk assessment improves drilling performance*, 22 Oil & Gas Journal | Sept. 7, 2020.
33. Tudorache, V., Stan, M., **Avram, L.**, Antonescu, N.N., *Elements for the preventing and combating corrosion to cylindrical metal tank for destined storage of liquid hydrocarbons*, Conferința internațională ENERGY TRANSITION IN SOUTH EAST EUROPE: OPPORTUNITIES, CHALLENGES, PERSPECTIVES, FOREN 2020 (on line), 7 - 10 septembrie, 2020.
34. Stan, M., Tudorache, V., **Avram, L.**, Antonescu, N.N., *Analysis of the risks of the exploitation of the new gas discovery in the black sea*, Conferința internațională ENERGY TRANSITION IN SOUTH EAST EUROPE: OPPORTUNITIES, CHALLENGES, PERSPECTIVES, FOREN 2020 (on line), 7 - 10 septembrie, 2020; Presidium member DS3: OIL AND GAS: CONVENTIONAL AND UNCONVENTIONAL.
35. Stan, M., Tudorache, V., **Avram, L.**, Halafawi, M., Tănasă, C., *Elements constituent for the design of a riser system in areas deep water and extreme deep water applied for offshore drilling*, Conferința internațională ENERGY TRANSITION IN SOUTH EAST EUROPE: OPPORTUNITIES, CHALLENGES, PERSPECTIVES, FOREN 2020 (on line), 7 - 10 septembrie, 2020.
36. Olar, R. H., **Avram, L.**, Stan, M., Tudorache, Gherman, P., *Determination of foams and the congelation point of mixed solutions for evacuate of the liquids from the bottom of the well the with aid of automated devices introduction foaming on the winter period*, Conferința internațională ENERGY TRANSITION IN SOUTH EAST EUROPE: OPPORTUNITIES, CHALLENGES, PERSPECTIVES, FOREN 2020 (on line), 7 - 10 septembrie, 2020.
37. **Avram, L.**, Lupu, D. A., *Influența dificultăților tehnologice ale sondelor asupra potențialului energetic al zăcămintelor de gaze naturale*, Conferința internațională ENERGY TRANSITION IN SOUTH EAST EUROPE: OPPORTUNITIES, CHALLENGES, PERSPECTIVES, FOREN 2020 (on line), 7 - 10 septembrie, 2020.
38. [Younus](#), S., El Gburi, H., Halafawi, M., **Avram, L.**, *A comparative Approach to Differentiate Between the Amount of Rock Cuttings Generated in ERD and Conventional Drilling*, Petroleum and Coal 62(4):1346-1355, October 2020.
39. Halafawi, M., Mhanna, A., **Avram, L.**, *The Impact of Marine Environment on Jackup Rig Stability*, Petroleum & Petrochemical Engineering Journal, ISSN: 2578-4846, Volume 4, Issue 5, october, 2020.
40. Tudorache, V., **Avram, L.**, Antonescu, N.N, *Asupra densității echivalente a fluidului de foraj în procesul de forare a sondelor în ape ultra adânci (Concerning the equivalent density of drilling fluid, in the process of drilling wells in ultra deep waters)*, A XV-a ediție a Conferinței „Zilele Academiei de Științe Tehnice din România”, cu tema „**ECONOMIA CIRCULARĂ – model strategic în abordarea provocărilor privind insuficiența resurselor, încălzirea globală și managementul deșeurilor**”, **Platforma Zoom - Zilele ASTR Zoom meeting**, on line, 26 – 27 noiembrie, 2020.
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42. Hussein Al Gburi, Hasan Al Gburi, Halafawi, M., **Avram, L.**, *Dignostic and performance analysis of drillstring vibrations in Zubair field*, Romanian Journal of Petroleum & Gas Technology, Universitatea Petrol-Gaze din Ploiești, Vol. I (LXXII) No. 2/2020.
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- E.1. Ionescu, G.C., **Nae, I.**, **Hagianu, A.**, **Minescu, M.**, **Rîpeanu, R.G.**, Ionescu, O.N., Isbășoiu, Gh. D., *Sistem Inteligent De Evaluare A Duratei De Viață A Tubingului Flexibil Folosit În Industria Extracției Petrolului Și Gazelor Naturale*, Cerere Brevet De Inventie Nr. RO133985 A0 (51) E21B 44/00 (2006.01); E21B 47/00 (2006.01) RO-BOPI 03/2020, Bucuresti, 2020;
- E.2. **Nae I.**, Ionescu Gabriela Cristina, **Minescu M.**, *Bac pentru clește de forare*, Brevet de invenție nr. 129993/30.07.2020

(F) Proiecte de cercetare dezvoltare inovare pe bază de grant/contract

- F.2.2.1. CNFIS-FDI-2019-0009, "e-PARTENERIAT"-Soluție inovativă de analiză și evaluare pentru corelarea curriculei universitare cu cerințele pieței muncii, Beneficiar UEFISCDI.
- F.2.2.2. CNFIS-FDI-2019-0048, Bază de practică pentru dezvoltarea creativității și inovării în demersul educațional multidisciplinar-informatică și inginerie mecanică, Beneficiar UEFISCDI.
- F.2.2.3. CNFIS-FDI-2019-0066, Hub pentru cercetare, dezvoltare și inovare multidisciplinară în contextul revoluției industriale 4.0.-UPG-HUB 4.0, Beneficiar UEFISCDI

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