

SCIENTIFIC PAPERS 2006 – 2016

2006

1. E. T. MAN, **R. HĂLBAC-COTOARĂ**, Carmen Dorina IOSIP, Cristina MODRA, *Humidity Excess Zones Management for Achieving Sustainable Agricultural Productions*, Scientific Symposium “Management of the Agricultural Production Intensification”, USAMV Timișoara, Agricultural Management Faculty, Scientific Papers, Series I, vol. VIII, ISSN 1453-1420;
2. E. T. MAN, **R. HĂLBAC-COTOARĂ**, Carmen Dorina IOSIP, Cristina MODRA, *Land Reclamation and Improvement – Infrastructure of the Rural Area to Ensure Agricultural Productions*, Scientific Symposium “Management of the Agricultural Production Intensification”, USAMV Timișoara, Agricultural Management Faculty, Scientific Papers, Series I, vol. VIII, ISSN 1453-1420;
3. E. T. Man, I. Kovacs, V. Bedreag, **R. HĂLBAC-COTOARĂ**, I. Lauer, *The rehabilitation and modernization of pumping stations from land reclamation arrangements (drainage – surface drainage) affected by flooding from April-May 2005*, The 2nd International Symposium “Preventing and Fighting Hydrological Disasters”, Timișoara, 29 June – 1 July 2006, ISBN – 10: 973-638-263-X, ISBN – 13: 978-973-638-263-5, Proceedings: Ed. Orizonturi Universitare, Timișoara, pp. 40;
4. **R. HĂLBAC-COTOARĂ**, *The legislation from Romanian space regarding water from roman law to Framework Directive and Law 310/2004*, The 2nd International Symposium “Preventing and Fighting Hydrological Disasters”, Timișoara, 29 June – 1 July 2006, ISBN – 10: 973-638-263-X, ISBN – 13: 978-973-638-263-5, Proceedings: Ed. Orizonturi Universitare, Timișoara, pp. 86;
5. E. T. MAN, A. KISS, **R. HĂLBAC-COTOARĂ**, ALINA COSTESCU, CRISTINA MODRA, *Preservation of humidity excess areas in order with European Laws. Case study of “Satchinez Swamps” natural reservation, Timiș county*, The 2nd International Symposium “Preventing and Fighting Hydrological Disasters”, Timișoara, 29 June – 1 July 2006, ISBN – 10: 973-638-263-X, ISBN – 13: 978-973-638-263-5, Proceedings: Ed. Orizonturi Universitare, Timișoara, pp.88;
6. E.T. MAN, A. BLENEȘI-DIMA, **R. HĂLBAC-COTOARĂ**, *Studies and Researches Regarding the Permeability of Some Geosynthetic Clay Liners (Bentonitic Geocomposites)*, International Conference Advanced Composite Engineering Materials “COMAT 2006”, Transilvania University of Brașov, Mechanical Engineering Faculty, 19 – 22 octombrie 2006, Brașov, ISBN 973-635-821-8, ISBN 978-973-635-821-0;
7. **R. HĂLBAC-COTOARĂ**, *Surface Drainage and Drainage Arrangements Evolution in Romania*, Scientific Bulletin of Hydrotechnical Engineering Faculty Timișoara, Tom 51(65), Fascicola 1-2, 2006;

8. A. WEHRY, **R. HĂLBAC-COTOARĂ**, RAMONA RECEANU, *Consideration about determination of jumping-up size basins with drowned vein, at the pumping stations for surface drainage*, Scientific Bulletin of Hydrotechnical Engineering Faculty Timișoara, Tom 51(65), Fascicola 1-2, 2006;
9. **R. HĂLBAC-COTOARĂ**, *Studies regarding aridity in Timiș County, Romania*, Scientific Bulletin of Hydrotechnical Engineering Faculty Timișoara, Tom 51(65), Fascicola 1-2, 2006;
10. MAN T.E., MATEOC-SARB N., **HĂLBAC-COTOARĂ R.**, *Rural development infrastructure – decisive factor for a sustainable rural development*, Scientific Bulletin of Hydrotechnical Engineering Faculty Timișoara, Tom 51(65), Fascicola 1-2, 2006;
11. E.T. MAN, F. STOICA, **R. HĂLBAC-COTOARĂ**, *Drainage solutions for the main soils with humidity excess from Satu Mare and Maramureș Counties, resulted from the drainage studies effectuated*, Lucrările celei de a XVIII-a Conferințe Naționale pentru Știința Solului, Cluj-Napoca, 20-26 august 2006;
12. **Halbac-Cotoara-Zamfir R.**, **Sustainable development and agrotourism in Timis County. Perspectives**, Bulletin of the University of Agricultural Sciences and Veterinary Medicine, Vol 62, 2006: Agriculture Book Series: Buletinul Universitatii de Stiinte Agricole si Medicina Veterinaria Cluj-Napoca, Agriculture Book Series Volume: 62 Pages: 417-417 Published: 2006 WOS:000245237700105 ISSN: 1454-2382
13. **Halbac-Cotoara-Zamfir R.**, **Drainage perspectives in Romania. Theory and action**, Bulletin of the University of Agricultural Sciences and Veterinary Medicine, Vol 63, 2006: Horticulture Book Series: Buletinul Universitatii De Stiinte Agricole Si Medicina Veterinaria Cluj-Napoca Seria Horticultura Series, Volume: 63 Pages: 450-450 Published: 2006 WOS:000245240200134 ISSN: 1454-2382

2007

14. **R. HĂLBAC-COTOARĂ**, *Drainage arrangements management for nutrients control*, Zilele Academice Timișorene, 24 – 25 Mai 2007, Buletinul Științific al Facultății de Hidrotehnică, Tom 52(66), Fascicola 1,2/2007, ISSN 1024-6042;

15. **R. HĂLBAC-COTOARĂ**, *Efficiency and effectiveness in drought-irrigation integrated approach. Study Case: Timiș County*, Zilele Academice Timișorene, 24 – 25 Mai 2007, Buletinul Științific al Facultății de Hidrotehnică, Tom 52(66), Fascicola 1,2/2007, ISSN 1024-6042;

16. **R. HĂLBAC-COTOARĂ**, *Drought and aridity phenomenon in Romania's Timiș County*, International Conference DISASTER AND POLLUTION MONITORING PROGRAM - Third Edition , Iași, November 1 - 2, 2007, ISBN 978-973-730-406-3;

17. E.T. MAN, **R. HĂLBAC-COTOARĂ**, P. ȘTEOLEA, *Managementul amenajărilor de I.F. din România în etapa post-aderare la U.E.*, Al VI-lea Simpozion Internațional al Asociației Române de Științe Regionale “Impactul aderării României la Uniunea Europeană asupra structurilor regionale”, Alba Iulia, 18 – 20 iulie 2007;

18. E.T. MAN, I.P. OTIMAN, N. MATEOC-SÎRB, T. MATEOC, V. ȘEULEAN, **R. HĂLBAC-COTOARĂ**, *Rural Development analyzing and diagnosing methods in Romania*, THE 5th International Conference Management of Technological Changes Alexandroupolis, Greece, 25-26 August 2007, ISBN 978-960-893205 (ISI Proceedings); **MANAGEMENT OF TECHNOLOGICAL CHANGES, BOOK 2, Pages: 505-514, Published: 2007, WOS:000252696800069**

19. I.P. OTIMAN, E.T. MAN, N. MATEOC-SÂRB, V. ȘEULEAN, V. GOȘA, A. COJOCARIU, T. MATEOC, **R. HĂLBAC-COTOARĂ**, C. OBOROCEA, *Obiective, metodologie de lucru, studii și rezultate preconizate la proiectul de cercetare “Modele și metode complexe de cercetare în dezvoltarea durabilă a României”*, USAMVB Timișoara, 2007, Scientific papers, Series I, Vol. IX(1), ISSN 1453-1410;

20. **R. HĂLBAC-COTOARĂ**, *A theory regarding drainage arrangements future in Romania. Study case: Timiș County*, The American Romanian Academy of Arts and Sciences, The 31st Annual Congress of the American Romanian Academy of Arts and Sciences “Pro-Active Partnership in Creativity for the Next Generation”, 31 July – 5 August 2007, Transylvania University Brașov, Romania, Presses Internationales Polytechnique, ISBN 978-2-553-01412-3, Quebec, Canada;

2008

21. **R. HĂLBAC-COTOARĂ**, C. ZAMFIR, *A comparative analysis between Romania's strategy for drought phenomenon effects mitigation and similarly measures applied at European level*, Scientific Symposium "Management of sustainable rural development", USAMV Timișoara, Agricultural Management Faculty, Scientific Papers, Series I, vol. X, ISSN 1453-1410, pg. 317-324, 2008;

22. **R. HĂLBAC-COTOARĂ**, C. ZAMFIR, *The potential of rural development infrastructure in Timiș County*, Scientific Symposium "Management of sustainable rural development", USAMV Timișoara, Agricultural Management Faculty, Scientific Papers, Series I, vol. X, ISSN 1453-1410, pg. 325-332, 2008;

23. **R. HĂLBAC-COTOARĂ**, *Drought and aridity phenomenon's in South-Western Romania*, XXIVth Conference of the Danubian Countries Bled, Slovenia, 2 - 4 June 2008;

24. **R. HĂLBAC-COTOARĂ**, *Romania's western part (Timiș County) between humidity excess and water scarcity. The future of drainage arrangements and wet areas*, Third International Scientific Conference on Water Observation and Information System for Decision Support, *BALWOIS 2008*, Ohrid, Republic of Macedonia, 27-31 May 2008;

25. **R. HĂLBAC-COTOARĂ**, *Software for drainage arrangements design*, The 7th International Symposium "Prospects for the 3rd Millenium Agriculture", 2 – 4 octombrie 2008, Cluj Napoca, Buletinul USAMVCN nr. 65(1-2) (ISSN 1454-2382) (B+)

2009

26. R. HĂLBAC-COTOARĂ-ZAMFIR, A.I. COSTESCU, N. NEMEȘ, *Sustainable rural development strategy from natural and technological risks, accessibility and population needs maps*, THE 6th International Conference Management of Technological Changes Alexandroupolis, Greece, 3 – 5 September 2009, ISBN (Vol. II) 978-960-89832-8-1, pg. 89-92; WOS:000273226200023

27. R. HĂLBAC-COTOARĂ-ZAMFIR, *The complex role of land drainage in a sustainable agriculture*, THE 6th International Conference Management of Technological Changes Alexandroupolis, Greece, 3 – 5 September 2009, ISBN (Vol. II) 978-960-89832-8-1, pg. 85-88; WOS:000273226200022;

28. R. HĂLBAC-COTOARĂ-ZAMFIR, EURURALIS – *A tool used for the study of EU27 rural areas future*, International Symposium “The Management of Sustainable Rural Development”, 14 – 15 May 2009, Scientific papers, Series I, Vol. XI(1), ISSN 1453-1410, pg. 277 – 284;

29. R. HĂLBAC-COTOARĂ-ZAMFIR, *Green infrastructure and sustainable rural development*, International Symposium “The Management of Sustainable Rural Development”, 14 – 15 May 2009, Scientific papers, Series I, Vol. XI(1), ISSN 1453-1410, pg. 285 – 290;

30. R. HĂLBAC-COTOARĂ-ZAMFIR , *Designing a drip irrigation system using HydroCalc Irrigation Planning*, 3rd International Symposium “Trends in European Agriculture Development”, 14 – 15 May 2009, Research Journal of Agricultural Science, Vol. 41(1) Ed. Agroprint, ISSN 2066-1843, pg. 420 – 425;

31. R. HĂLBAC-COTOARĂ-ZAMFIR, *Results obtained in drainage arrangements design by using DrainSpace application*, 3rd International Symposium “Trends in European Agriculture Development”, 14 – 15 May 2009, Research Journal of Agricultural Science, Vol. 41(1) Ed. Agroprint, ISSN 2066-1843, pg. 426 – 431;

32. R. HĂLBAC-COTOARĂ-ZAMFIR, *A short monograph of drainage arrangements in Romania*, The 33rd Annual Congress of the American Romanian Academy of Arts and Sciences (ARA), 2 – 7 June 2009, Proceedings, Vol. II, ISBN 978-2-553-01433-8, pg. 23 -26, Polytechnic International Press, Montreal, Quebec, 2009;

33. R. HĂLBAC-COTOARĂ-ZAMFIR, I.A. Costescu, *Studies and researches regarding soil's humidity excess in Arad County (WESTERN ROMANIA)*, ANNALS of FOOD SCIENCE and TECHNOLOGY, Faculty of Environmental Engineering and Biotechnologies, ISSN: 2065- 2828, indexed in International Database: IndexCopernicus International, vol. I, pg. 213 – 217;

34. **R. HĂLBAC-COTOARĂ-ZAMFIR**, I.A. Costescu, *A comparison of the head losses values for Timis County's drainage systems using the results obtained with DrenVSublr and Espadren programs*, ANNALS of FOOD SCIENCE and TECHNOLOGY, Faculty of Environmental Engineering and Biotechnologies, **ISSN: 2065- 2828**, indexed in International Database: IndexCopernicus International, vol. I, pg. 218 – 222;
35. Nemes N., Costescu I.A., **R. HĂLBAC-COTOARĂ-ZAMFIR**, *The Quantitative Prognoses of the Generated Wastes in Timisoara*, Scientific Bulletin of the „Politehnica” University of Timisoara, Romania, Transactions on Hydrotechnics, Tom 54(68), Fasc. 1/2009, pg. 29-32;
36. Nemes N., Costescu I.A., **R. HĂLBAC-COTOARĂ-ZAMFIR**, *Specific fluxes of the wastes in Timis County*, Scientific Bulletin of the „Politehnica” University of Timisoara, Romania, Transactions on Hydrotechnics, Tom 54(68), Fasc. 1/2009, pg. 33-36.
37. **R. HĂLBAC-COTOARĂ-ZAMFIR**, *Is Romania prepared for climatic changes from land reclamation and improvement arrangements point of view?*, European Water Resources Association's (EWRA), 7th International Conference, “Water Resources Conservancy and Risk Reduction Under Climatic Instability”, Lymassol, Cipru, 25-27 Iunie 2009, ISBN 978-9963-671-94-6, pg. 257-264;
38. **R. HĂLBAC-COTOARĂ-ZAMFIR**, I.A. Costescu, *Water pollution sources in western part of Romania. Causes and consequences*, European Water Resources Association's (EWRA), 7th International Conference, “Water Resources Conservancy and Risk Reduction Under Climatic Instability”, Lymassol, Cipru, 25-27 Iunie 2009, ISBN 978-9963-671-94-6, pg. 911-918;

2010

39. Man T.E., Bodog M., Constantinescu L, **R. HĂLBAC-COTOARĂ-ZAMFIR**, New Soft For The Optimal Technical-Economic Design Of Drainage Network In Steady state Regime Of Functioning And Verifying Operation In Sub- Irrigation Study Case: Greoni-Ticvanu Mare Drainage Arrangement, 9th International Drainage Symposium held jointly with CIGR and CSBE/SCGAB Proceedings, 13-16 June 2010 IDS-CSBE-101429;

40. **R. HĂLBAC-COTOARĂ-ZAMFIR**, I.A. Costescu, CALCULATION OF DISTANCE BETWEEN DRAINS IN CONTROLLED REGIME, Research Journal of Agricultural Science, 42(3), ISSN 2066-1843, pg. 154-160, Mai 2010, Timisoara;

41. **R. HĂLBAC-COTOARĂ-ZAMFIR**, CALCULATION OF DISTANCE BETWEEN DRAINS USING ENDRAIN PROGRAM, Research Journal of Agricultural Science, 42(3), ISSN 2066-1843, pg. 161-166, Mai 2010, Timisoara;

42. Costescu I.A., **R. HĂLBAC-COTOARĂ-ZAMFIR**, Aspects regarding the national strategy of sustainable development in Region 5 West Romania, Research Journal of Agricultural Science, 42(3), ISSN 2066-1843, pg. 483-490, Mai 2010, Timisoara;

43. Costescu I.A., **R. HĂLBAC-COTOARĂ-ZAMFIR**, Jumanca R., Ienci C., Contributions to the students counseling program at the "Politehnica" University of Timisoara, Proceedings of the 6th International Seminar on the Quality Management in Higher Education; 8-9 Iulie 2010, Tulcea, pg. 83-86, ISBN 978-973-662-566-4; (ISI Proceedings) WOS:000288291800021, QUALITY MANAGEMENT IN HIGHER EDUCATION, VOL 1, Pages: 79-82, Published: 2010

44. Costescu I.A., **R. HĂLBAC-COTOARĂ-ZAMFIR**, Jumanca R., Ienci C., What we can do or not do for our higher education environment? Opinions from the young generations for the Timisoara's high education of tomorrow, Proceedings of the 6th International Seminar on the Quality Management in Higher Education; 8-9 Iulie 2010, Tulcea, pg. 87-90; ISBN 978-973-662-566-4; (ISI Proceedings) WOS:000288291800022, QUALITY MANAGEMENT IN HIGHER EDUCATION, VOL 1 Pages: 83-86, Published: 2010

45. Man T.E., Constantinescu L., **R. HĂLBAC-COTOARĂ-ZAMFIR**, Buran C., The results of drainage studies accomplished in Caras-Severin County, 1st International Conference, Water Across Time in Engineering Research, 16-19 Iunie 2010, Constanta, ISSN 1584-5990;

2011

46. I.A. Costescu, N. Nemeş, R. HĂLBAC-COTOARĂ-ZAMFIR, Water resource quality modeling in the Hydrographic Basin of the Bega River, JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, Volume: 12, Issue: 4A, Pages: 2019-2027, Published: 2011, Accession Number: WOS:000303274500003, ISSN: 1311-5065;
47. I.A. Costescu, N. Nemeş, R. HĂLBAC-COTOARĂ-ZAMFIR, Problems regarding the implementation of ecological education concept in the peoples area, JOURNAL OF ENVIRONMENTAL PROTECTION AND ECOLOGY, Volume: 12, Issue: 4A, Pages: 2347-2351, Published: 2011, WOS:000303274500039, ISSN: 1311-5065
48. R. HĂLBAC-COTOARĂ-ZAMFIR, Drainage Arrangements Design Using Nonsteady-State Equations, Proceedings of 2011 International Conference on Technological Advancements in Civil Engineering, ISBN 978-1-4244-9541-2, 2011;
49. R. HĂLBAC-COTOARĂ-ZAMFIR, Different software for agriculture water management in Romania, Actual Tasks on Agricultural Engineering-Zagreb Volume: 39, 39th International Symposium on Agricultural Engineering Location: Opatija, CROATIA, 1333-2651, 21-25 FEBRUARIE 2011, 289-298; WOS:000290918800029
50. R. HĂLBAC-COTOARĂ-ZAMFIR, Efficient methods for land drainage design using computerized non steady-state methods, Actual Tasks on Agricultural Engineering-Zagreb Volume: 39, 39th International Symposium on Agricultural Engineering Location: Opatija, CROATIA, 1333-2651, 21-25 FEBRUARIE 2011, 281-287; WOS:000290918800028;
51. HALBAC-COTOARA-ZAMFIR R., Costescu Ioana-Alina, Nemes Iacob, The Management of Technological Changes Role in Increasing Employment Rate, 7th International Conference on Management of Technological Changes, Alexandroupolis, ISBN 978-960-99486-2-3, 2011; WOS:000306939900096, pg. 381-384; book 1.
52. HALBAC-COTOARA-ZAMFIR R., Costescu Ioana-Alina, Nemes Iacob, The Role of Technological Changes' Management in Urban Regeneration and Resilience Improvement, 7th International Conference on Management of Technological Changes, Alexandroupolis, ISBN 978-960-99486-3-0, 2011; WOS:000306940000016, pg. 61-64, book 2.
53. HALBAC-COTOARA-ZAMFIR R., Costescu Ioana-Alina, The analysis of water-table variation using GDZ RoDrain application for some areas affected by humidity excess from western Romania, XXXIV CIOSTA CIGR V Conference, Efficient And Safe

Production Processes In Sustainable Agriculture And Forestry, Vienna, ISBN 978-3-200-02204-1, 2011;

54. **HALBAC-COTOARA-ZAMFIR R.**, Costescu Ioana-Alina, Is Romania prepared for climatic changes from land reclamation and improvement arrangements point of view?, XXXIV CIOSTA CIGR V Conference, Efficient And Safe Production Processes In Sustainable Agriculture And Forestry, Vienna, ISBN 978-3-200-02204-1, 2011;

55. Costescu Ioana-Alina, **Halbac-Cotoara-Zamfir R.**, Measures taken to reach the "Climatic changes and clean energy" objective from the National Strategy of Sustainable Development, in Region V West Romania, Scientific Bulletin of the "POLITEHNICA" University of Timisoara, Transactions on Hydrotechnics, Vol 56(70), pg. 49-54, 2011;

56. **Halbac-Cotoara-Zamfir R.**, An analysis of drainage head losses using computer science, The 22nd DAAAM International Symposium Intelligent Manufacturing & Automation: Power of Knowledge and Creativity, Annals of DAAAM for 2011 & Proceedings of the 22nd International DAAAM Symposium, Vienna, ISBN 978-3-901509-83-4, ISSN 1726-9679, pg. 1617-1618, 2011;

2012

57. Halbac-Cotoara-Zamfir R., De Miranda J.H. (2012). A comparison regarding models used in agricultural drainage systems design in Brazil and Romania, 40th International Symposium on Agricultural Engineering, 21-24 February, Opatija, Croatia, ISSN 1333-2651, pp. 97-106; WOS:000309447100009, IDS BCA45

58. Halbac-Cotoara-Zamfir R. (2012). A comparison of the head losses values for Bihor County's drainage systems using the results obtained with DrenVSublr and Espadren Programs, 21-24 February, Opatija, Croatia, ISSN 1848-4425, pp. 1333-2651; WOS:000309447100010, IDS BCA45

59. Halbac-Cotoara-Zamfir R. (2012). An analysis of Banat region climate using specialized software, 12th International Multidisciplinary Scientific Geoconference SGEM 2012, Vol. 4, 17 – 23 June, Albena, Bulgaria, pp. 261-268; ISSN 1314-2704; WOS:000348535300034

60. Stana O., Halbac-Cotoara-Zamfir R., Man T.E. (2012). Characterization of drought in western Timis County, Romania, 12th International Multidisciplinary Scientific Geoconference SGEM 2012, Vol. 4, 17 – 23 June, Albena, Bulgaria, pp. 285-292; ISSN 1314-2704; WOS:000348535300037

61. Gabor A., Man T.E., Halbac-Cotoara-Zamfir R. (2012). The evaluation of climate evolution tendency and of water-table levels in the area covered by Fantanele-Sagu irrigation system, 12th International Multidisciplinary Scientific Geoconference SGEM 2012, Vol. 3, 17 – 23 June, Albena, Bulgaria, pp. 849-856; ISSN 1314-2704; WOS:000348533800113

62. Gabor A., Man T.E., Halbac-Cotoara-Zamfir R. (2012). The rehabilitation and modernization of Fantanele-Sagu Arad irrigation system, 12th International Multidisciplinary Scientific Geoconference SGEM 2012, Vol. 3, 17 – 23 June, Albena, Bulgaria, pp. 871-878; ISSN 1314-2704; WOS:000348533800114

63. Halbac-Cotoara-Zamfir R. (2012). Water excess management in Caras-Severin County (Romania), 12th International Multidisciplinary Scientific Geoconference SGEM 2012, Vol. 4, 17 – 23 June, Albena, Bulgaria, pp. 903-910; ISSN 1314-2704; WOS:000348533800120

64. Halbac-Cotoara-Zamfir R. (2012). Water management in Banat region, Bega Veche basin, 12th International Multidisciplinary Scientific Geoconference SGEM 2012, Vol. 4, 17 – 23 June, Albena, Bulgaria, pp. 911-918; ISSN 1314-2704; WOS:000348533800121

65. Halbac-Cotoara-Zamfir R., Krimnianioti M., Coca-Stefaniak A., McDonald O. (2012). SolidarCity Policy Group – Policies affecting employment and entrepreneurship in towns and cities, 3rd WSEAS International Conference on Business Administrations

ICBA 2012, Vol. Mathematical Methods for Information Science and Economics, Proceedings of the 3rd WSEAS International Conference on Business Administrations, 29 – 31 December, Montreux, Switzerland, pp. 286-291; ISBN 978-1-61804-148-7;

66. Halbac-Cotoara-Zamfir R. (2012). The Romanian Banat Region challenging climatic changes, Journal Of Environmental Protection And Ecology, Vol. 13, Issue 1, pp. 128-134, ISSN 1311-5065; WOS:000302843500017, IDS 926PO

2013

67. Halbac-Cotoara-Zamfir R. (2013). Efficient management of agricultural lowlands affected by humidity excess from Hungary-Romania transborder area, 41th International Symposium on Agricultural Engineering, 19-22 February, Opatija, Croatia, ISSN 1848-4425, pp. 86-95; WOS:000324234600008, IDS BGU97

68. Halbac-Cotoara-Zamfir R. (2013). Agricultural water management in Arad county, 41th International Symposium on Agricultural Engineering, 19-22 February, Opatija, Croatia, ISSN 1848-4425, pp. 96-105; WOS:000324234600009, IDS BGU97

69. Halbac-Cotoara-Zamfir R. (2013). Studies on dryness and drought for Timis County using dry period index and Pinna combinative index, 13th International Multidisciplinary Scientific Geoconference SGEM 2013, Vol. Water Resources. Forest, Marine and Ocean Ecosystems, 16 – 22 June, Albena, Bulgaria, pp.309-316; ISBN 978-619-7105-02-5; ISSN 1314-2704; WOS:000366031900039

70. Halbac-Cotoara-Zamfir R., Halbac-Cotoara-Zamfir C. (2013). Preparatory class – A new challenge in environmental education for children, 13th International Multidisciplinary Scientific Geoconference SGEM 2013, Vol. Ecology, Economics, Education and Legislation, 16 – 22 June, Albena, Bulgaria, pp.483-488; ISBN 978-619-7105-05-6; ISSN 1314-2704; WOS:000348880400064

71. Halbac-Cotoara-Zamfir R., Coca-Stefaniak A.J. (2013). The role of the private sector in sustainability through partnership based – city management, 13th International Multidisciplinary Scientific Geoconference SGEM 2013, Vol. Nano, Bio and Green – Technologies for a Sustainable Future, 16 – 22 June, Albena, Bulgaria, pp.771-776; ISBN 978-619-7105-06-3; ISSN 1314-2704; WOS:000365991700103

72. Halbac-Cotoara-Zamfir R. (2013). The study of head losses for land drainage pipes with and without filtering materials, 8th WSEAS International Conference on Energy and Environment, Vol. Recent Advances in Energy and Environmental Management, Energy, Environmental and Structural Engineering Series, Rhodes Island, Greece, pp. 33-38, ISSN 2227-4359, ISBN 978-960-474-312-4;

73. Halbac-Cotoara-Zamfir R., Circu C. (2013). Considerations on unsteady-state land drainage for soils with humidity excess, 8th WSEAS International Conference on Energy and Environment, Vol. Recent Advances in Energy and Environmental Management, Energy, Environmental and Structural Engineering Series, Rhodes Island, Greece, pp. 39-42, ISSN 2227-4359, ISBN 978-960-474-312-4;

74. Povian C.M., **Halbac-Cotoara-Zamfir R.** (2013). The street – playground or dwelling for some children, 6th WSEAS International Conference on Urban Rehabilitation and Sustainability, Vol. Recent Advances in Energy and Environmental Management, Energy, Environmental and Structural Engineering Series, Rhodes Island, Greece, pp. 179-184, ISSN 2227-4359, ISBN 978-960-474-312-4;

75. **Stana O., Halbac-Cotoara-Zamfir R.** (2013). An analysis of water scarcity phenomenon and water demands for agricultural areas from western part of Romania using different programs, 13th International Conference on Environmental Science and Technology CEST2013, Athens, Greece, ISSN 1106-5516, ISBN 978-960-7475-51-0; WOS:000346067900035

76. **Stana O., Halbac-Cotoara-Zamfir R.** (2013). Climate changes impact on water-table levels in W Romania, 13th International Conference on Environmental Science and Technology CEST2013, Athens, Greece, ISSN 1106-5516, ISBN 978-960-7475-51-0; WOS:000346067900324

77. **Halbac-Cotoara-Zamfir R.** (2013). Drought Analysis in Western Romania using DrinC program, 6th WSEAS International Conference on Environmental and Geological Science and Engineering, Vol. Recent Advances in Energy, Environment and Geology, Energy, Environmental and Structural Engineering Series, Antalya, Turkey, pp. 82-87, ISSN 2227-4359, ISBN 978-960-474-338-4;

2014

78. **Halbac-Cotoara-Zamfir R.** (2014). The impact of climate changes on water balance from western Romania using computer tools, Vol. Recent Advances in Energy, Environment, Biology and Ecology, Tenerife, pp. 106-111, ISBN: 978-960-474-358-2;

79. **Halbac-Cotoara-Zamfir R.** (2014). **A view on land degradation and desertification issues**, 42nd International Symposium on Agricultural Engineering, 25-28 February, Opatija, Croatia, ISSN 1848-4425, pp. 25-34; WOS:000340762800002, IDS Number: BB0VU

80. **Halbac-Cotoara-Zamfir R.** (2014). **Changes in agricultural water demands for western Romania**, 42nd International Symposium on Agricultural Engineering, 25-28 February, Opatija, Croatia, ISSN 1848-4425, pp. 35-46; WOS:000340762800003, IDS Number: BB0VU

81. Costescu Ioana-Alina, Orlescu Mircea, **Halbac-Cotoara-Zamfir Rares**, Hategan Emanuel, Pelea Narcis George (2014) The use of Netafim Hydrocalc Program Version 2.21 for designing drip irrigation arrangements. Vol. Advances in Environmental Development, Geomatics Engineering and Tourism. Energy, Environmental and Structural Engineering Series 27, WSEAS Press, Brasov, Romania, 26-28 June 2014, ISSN 2227-4359, ISBN 978-960-474-385-8.

2015

82. **Halbac-Cotoara-Zamfir Rares** (2015) A history of agricultural land drainage, 43rd International Symposium on Agricultural Engineering, Proceedings of 43rd International Symposium on Agricultural Engineering, Opatija, Croatia, 24-27 februarie 2015, ISSN 1848-4425, pp. 19-30;
83. **Halbac-Cotoara-Zamfir Rares** (2015) An analysis of drought in main agricultural areas from Romania using SPI and RDI indicators, 43rd International Symposium on Agricultural Engineering, Proceedings of 43rd International Symposium on Agricultural Engineering, Opatija, Croatia, 24-27 februarie 2015, ISSN 1848-4425, pp. 55-66;
84. **Günel, Hikmet; Korucu, Tayfun; Birkas, Marta; Özgöz, Engin; Halbac-Cotoara-Zamfir, Rares. (2015). Threats to Sustainability of Soil Functions in Central and Southeast Europe. Sustainability 7, no. 2: 2161-2188. WOS: 000350217700056**
85. **Halbac-Cotoara-Zamfir Rares** (2015) Ecosystem services provided by land reclamation and improvement works. Study case: Timis County, 15th International Multidisciplinary Scientific Geoconference SGEM2015, Water Resources. Forest, Marine and Ocean Ecosystems, Vol. I, Hydrology and Water Resources, Albena, Bulgaria, 18 – 24 June 2015, ISBN 978-619-7105-36-0, ISSN 1314-2704, pp. 253-260;
86. **Halbac-Cotoara-Zamfir Rares** (2015) Evolution of land degradation in Timis County, 15th International Multidisciplinary Scientific Geoconference SGEM2015, Water Resources. Forest, Marine and Ocean Ecosystems, Vol. II, Soils, Forest Ecosystems, Marine & Ocean Ecosystems, Albena, Bulgaria, 18 – 24 June 2015, ISBN 978-619-7105-37-7, ISSN 1314-2704, pp. 139-144;
87. **Halbac-Cotoara-Zamfir Rares** (2015) Understanding drought. From science to public opinion, 14th International Conference on Environmental Science and Technology (CEST2015) Rhodes, Greece, 3 - 5 September 2015
88. **Halbac-Cotoara-Zamfir Rares** (2015) Land degradation – an overview, 14th International Conference on Environmental Science and Technology (CEST2015) Rhodes, Greece, 3 - 5 September 2015
89. **Halbac-Cotoara-Zamfir Rares**, Hikmet Gunal, Martha Birkas, Teodor Rusu, Radu Brejea (2015) Successful and Unsuccessful Stories in Restoring Despoiled and Degraded Lands in Eastern Europe. *Advances in Environmental Biology* 9(23):368-376
90. Carabet A., Costescu I.A., **Halbac-Cotoara-Zamfir R.** (2015) Evaluating the Aquatic Habitats Quality using the Fish Wildlife in the Hydrographic Area Banat. *Advances in Environmental Biology* 9(24):360-366.

2016

91. **Halbac-Cotoara-Zamfir Rares**, Halbac-Cotoara-Zamfir C. (2016) Climate Adaptive Land Reclamation and Improvement Systems – An Integrated Approach of Current Challenges in Agriculture. Proceedings of 44rd International Symposium Actual Tasks on Agricultural Engineering, Opatija, Croatia, 23-26 februarie 2016, pp. 45-52, ISSN 1848-4425;
92. **Halbac-Cotoara-Zamfir Rares** (2016) Agricultural drought. Past, present and future challenges. Proceedings of 44rd International Symposium Actual Tasks on Agricultural Engineering, Opatija, Croatia, 23-26 februarie 2016, pp. 37-44, ISSN 1848-4425.