CONFERENCE PROCEEDINGS CONTENTS

ENVIRONMENTAL ECONOMICS

1. A COUNTRY COMPETITIVENESS ANALYSIS. ADL-MODEL INVOLVED., Dr., Prof. Nikolay Didenko, Dr., Prof. Sergey Kulik, Dr., Prof. Djamilia Skripnuk, PhD, Assoc. Prof. Ekaterina Samylovskaya, Peter the Great St.Petersburg Politechnic University, Russia 3

2. A MULTI-DIMENSIONAL INCLUSIVE EVALUATION PROCEDURE TO CLASSIFY THE LEVEL OF CRITICALITY OF DISTRESSED URBAN AREAS, Prof. Saverio Miccoli, Dr. Fabrizio Finucci, Dr. Murro, Sapienza University of Roma And Roma Tre University, Italy 11

3. AGRO-INDUSTRIAL COMPLEX IN THE CONDITIONS OF DEVELOPMENT OF DIGITAL SOCIETY AS THE INSTRUMENT OF ECONOMIC DEVELOPMENT OF THE REGION, Svetlana Kreneva, Evgeny Tsaregorodtsev, Vlada Tereshina, Yevgenia Sredina, Mari State University, Russia 19

4. ALTERNATIVE ENERGY SOURCES USED IN POLAND, Ing. Anna KONSTANCIAK, Czestochowa University of Technology, Poland 27

5. ANALYSIS OF ECO-INNOVATION TRENDS AND DEVELOPMENT OPPORTUNITIES IN LATVIA, Prof. Dr. oec. Veronika Bikse, Asoc. Prof. Dr.sc.admin. Inese Lusena - Ezera, Prof. Dr.oec. Baiba Rivza, Latvia University of Agriculture, Latvia 35

6. ANALYSIS OF ENERGY INTENSITY OF PRODUCTION IN THE REGIONS OF RUSSIA, Dr. Yuliya Razvadovskaya, Master of Economic sciences Kristina Rudneva, Southern Federal University, Russia 43

7. ANALYSIS OF THE MAIN FACTOR SIGNS AND FORMATION OF THE INVESTMENT EFFECTIVENESS MODEL FOR SMALL-SCALE GENERATION OBJECTS, Assoc. Prof. PhD. R.A. Timofeev, Senior Lecturer R.I. Galiev, Graduate student L.I. Sulaimanova, Assoc. Prof. PhD I.F. Galiev, Prof. Dr. I.K. Kiyamov, Kazan Power Engineering university, Russia 51

8. ANALYSIS OF THE POSSIBILITY OF SELECTING GREEN FACADES IN THE DECISION MAKING PROCESS, PhD Michal Juszczyk, Ph.D. Krzysztof Zima, Kracow University of Technology-Faculty of Civil Engineering, Poland 59

9. APPROACH TO THE ANALYSIS AND EVALUATION OF STRATEGIC INTERVENTION OPTIONS IN THE ROMANIAN COASTAL ZONE TAKING INTO ACCOUNT ECONOMIC, SOCIAL AND ENVIRONMENTAL FACTORS, PhD Student Catalin Anton, Associate professor. PhD. Habil. Carmen Gasparotti, Prof. dr. ing. Eugen Rusu, PhD Iulia Alina Anton, Dunarea de Jos University of Galati, Romania 67

10. ASSESSMENT OF ENVIRONMENTAL REPORTING OF ENERGY SECTOR COMPANIES LISTED ON THE WARSAW STOCK EXCHANGE IN THE LIGHT OF DIRECTIVE 2014/95/EU, Dr. Katarzyna Tkocz-Wolny, Dr. Aneta Wszelaki, Assoc. Prof. Dr. Marzena Strojek-Filus, University of Economics in Katowice, Poland 75

11. ASSESSMENT OF FINANCIAL STABILITY OF LATVIAN FISHERIES SECTOR, Inese Biuksane, Riga Technical University, Latvia 87

12. ASSESSMENT OF THE COMPLEX INTEGRAL INDEX OF STABILITY OF COASTAL INFRASTRUCTURE IN THE ARCTIC ZONE OF THE RUSSIAN FEDERATION, Prof. Dr. Gogoberidze George, Dr. Rumiantceva Ekaterina, Assoc. Prof., Dr. Ershova Alexandra, Prof. Dr. Shishaev Maxim, Murmansk Arctic State University, Russia 93

13. ASSESSMENT OF THE CURRENT STATE OF PHOTOVOLTAIC DEVELOPMENT IN POLAND. COST-BENEFIT ANALYSIS., prof. PCZ, dr hab. Robet Kruzel, Pawel Helbrych, Czestochowa University of Technology, Poland 101

14. ASSESSMENT OF THE ROADS TECHNICAL CONDITION BASED ON PERFORMANCE INDICATORS, Eng. Andrei FORTON, Ph.D. Student Lecturer Eng. Paul MARC, Ph.D. Eng. Alin BUZURIU, Ph.D. Student, Politehnica University of Timisoara, Romania 111

15. ASSESSMENT OF THE SELECTED ECONOMIC TOOLS APPLICATION IN THE EU COUNTRIES, doc. Ing. Emilia Huttmanova, Mgr. Tomas Valentiny, Mgr. Roman Novotny, Ing. Jana Chovancova, University of Presov in Presov, Slovakia 119

16. BIM AS A TOOL FOR BUILDING LIFE CYCLE MANAGEMENT, Ing. Vladimir Nyvlt, The Institute of Technology and Business in Ceske Budejovice, Czech Republic 127

17. CIRCULAR TOURISM AS A KEY FOR ECO-INNOVATIONS IN CIRCULAR ECONOMY BASED ON SUSTAINABLE DEVELOPMENT, Assoc. Prof. Dr. Kliment Naydenov, Sofia University, Bulgaria 135

18. COMPANY MANAGEMENT BASED ON PREDICTABLE SUSTAINABILITY OF ACTIVITIES IN AN ENVIRONMENT OF UNCERTAINTY, Prof. Dr. Margarita D. Mironova, Prof. Dr. Liliyana F. Nugumanova, Assoc. Prof. Svetlana V. Markova, Assoc. Prof. Zulfira N. Zapparova, Assoc. Prof. Irina F. Gotsulyak, Kazan (Volga Region) Federal University, Russia 143

19. COMPARATIVE ANALYSIS OF WATER CONSUMPTION IN THE ADJACENT TERRITORIES OF RUSSIA, CHINA AND MONGOLIA, Dr. Zhamyanov D., Dr. Sanzheev E.D., Dr. Batomunkuev V.S., Baikal Institute of Nature Management of the Siberian Branch of the Russian Academy of Sciences, Russia 151

20. COMPREHENSIVE ANALYSIS OF EPIDEMIOLOGICAL (BY THE CLASS OF THE LOCOMOTOR SYSTEM) AND ENVIRONMENTAL DATA, Assoc. Prof. Dr. Rybalkina Dina, MEnv Aleshina Natalya, Prof. Dr. Grebeneva Olga, Assoc. Prof. Dr. Zhanbasinov Nina, Dr. Rybalkin Alexander, National Center of Labor Hygiene and Occupational Diseases, Kazakhstan 159

21. CONSTRUCTIVE DETAILS ON WELDED INDUSTRIAL STRUCTURES FOR GOOD STRUCTURAL BEHAVIOR IN THE HIGHLY CORROSIVE ENVIRONMENT., Lecturer Dr. ing. Anamaria Feier, Lecturer Dr. ing. Doru Dumbrava, MSc. ing Maura Vioreanu, Dr. ing. Richard Molnar, Assit. Prof. Dr. ing. Radu Dorin, POLITEHNICA University of Timisoara - Department of Materials and Manufacturing Engineering, Romania 167

22. COSTS OF MUNICIPAL WASTE IN SLOVAK REPUBLIC, Prof.h.c. Ing. Martin Bosak, Ing. Alexander Tarca, Ing. Jaroslav Dugas, Assoc. Prof. Ing. Vojtech Ferencz, University of Economics in Bratislava (Kosice), Slovakia 175

23. CREATING DATABASE FOR VALUATION OF LAND, PhD Alena Klikova, PhD Pavel Klika, Masaryk University in Brno Faculty of Law, Czech Republic 183

24. DECREASE IN THE SHADOW SECTOR OF ECONOMY AS POTENTIAL OF GROWTH OF FINANCIAL STABILITY AND ENSURING ECOLOGICAL SAFETY OF TERRITORIAL SUBJECTS OF THE RUSSIAN FEDERATION, **Assoc. Prof.** Marina Kazakovtseva, Firdauz Gumarova, Elena Yuricheva, Mari State University, Russia 191

25. DEVELOPMENT OF HEALTH TOURISM IN POLISH SPAS IN THE CONTEXT OF AIR POLLUTION, AN AGING POPULATION AND CHANGES IN BUSINESS MODELS, Assoc. Prof. Dr. Adam R. Szromek, Silesian University of Technology, Poland 199

26. DEVELOPMENT OF THE ECOLOGICAL AND TECHNOLOGICAL BUSINESS OF CHEMICAL CLEANING OF HEAT EXCHANGE EQUIPMENT, Prof. Dr. Vishnykova O.N., Assoc. Prof. PhD. Timofeev R.A, Assoc. Prof. PhD. Alafuzov I.G., Prof. Dr. Kiymov I.K., Kazan Power Engineering university, Russia 207

27. DIAGNOSTICS OF REGION'S ECO-ECONOMIC SECURITY, Prof., Doctor A.A. Kuklin, Associate professor L.N. Kuklina, Leading Economist Ilya Korobkov, Institute of Economics of the Ural Branch of the Russian Academy of Sciences, Russia 215

28. DOCTRINAL BASIS RELATED TO BIODIVERSITY LEGISLATION NECESSARY FOR MANAGEMENT AND SUSTAINABLE BIO RESOURCES, Prof. Dr. Sia SARARU, Prof. Dr. Nicoleta-Simona STAN, Prof. Dr. Ing. Floarea NICOLAE, Prof. Dr. Nicole Livia PETCULESCU, Bioterra University of Bucharest, Romania.....225

29. ECOLOGICAL AND ECONOMIC EFFECTIVENESS OF ORGANIZATION IMPROVEMENT OF ENTERPRISES IN TERMS OF SYNERGETICS, Assoc. Prof. Dr. Viktor Yakimtsov, Ukrainian National Forestry University, Ukraine 233

30. ECOLOGICAL AWARENESS OF THE RESIDENTS OF CZESTOCHOWA REGION - INTRODUCTION, Ing. Manuela Ingaldi, Ing. Szymon T. Dziuba, Czestochowa University of Technology, Poland 241

31. ECOLOGICAL AWARENESS OF THE RESIDENTS OF CZESTOCHOWA REGION - RESULTS OF SURVEY, Manuela Ingaldi, Szymon T. Dziuba, Czestochowa University of Technology, Poland 249

32. ECOLOGICAL HOUSEHOLDS IN POLAND- INTRODUCTION, Ing. Szymon T. Dziuba, Ing. Manuela Ingaldi, Wroclaw University of Economics, Poland.....257

33 ECOLOGICAL HOUSEHOLDS IN POLAND - RESULTS OF THE RESEARCH, Szymon T. Dziuba, Manuela Ingaldi, Wroclaw University of Economics, Poland.....265

34. ECOLOGICAL-ECONOMIC ASSESSMENT OF THE TECHNOGENIC PRESSURE ON THE SOCIAL SIGNIFICANT TERRITORY: CASE STUDY OF THE RUDN-UNIVERSITY CAMPUS, Prof. Dr. A. Khaustov, Assoc. Prof. Dr. O. Korobova, Assoc. Prof. Dr. M. Redina, Dr. R. Mamadzhanov, M.Sc. P. Silaeva, Peoples Friendship University of Russia (RUDN University), Russia.....273

35. ECONOMIC DEVELOPMENT OF BI-CENTRIC AGGLOMERATION, Ing. arch. Dagmar Kuta Ph.D., Ing. Stanislav Endel Ph.D., Ing. Lucie Hurdalkova, VSB-Technical University of Ostrava, Czech Republic 279

36. ECONOMIC EVALUATION OF THE BROWNFIELDS REVITALISATION, Assoc. Prof. Vit Hromadka, Eva Vitkova, Ph.D, Jakub Sabo, MSc., Brno University of Technology Faculty of Civil Engineering, Czech Republic.....287

37. ECONOMICAL POTENTIAL OF AGRICULTURAL SOILS IN THE GEMER REGION IN SLOVAKIA, Dipl. Ing. Kijovsky, P., Dipl. Ing. Dobrovic, J., Prof. Dr. Eva Michaeli University of Presov in Presov-Faculty of Management, Slovakia 295

38. EFFECTIVE USE OF LIMITED NATURAL RESOURCES AS A BASIS OF IMPORT SUBSTITUTION IN RUSSIA: THE EXAMPLE OF CHEMICAL INDUSTRY, Prof. Dr. Zinaida Vdovenko, Assoc. Prof. Shipkova, Assoc. Prof. Igor Kukushkin, Assoc. Prof. Dmitriy Klepikov, Assoc. Prof. Nikita Grinev, D. Mendeleyev University of Chemical technology of Russia, Russia 303

39. EFFECTIVENESS OF INNOVATIVE PROCESSES ON THE EXAMPLE OF GEOTHERMAL WATER DEIRONING TECHNOLOGY., Assist. Prof. Dr Joanna Machnik-Slomka, Assist. Prof. Dr Iwona Klosok-Bazan, Silesian University of Technology, Poland 311

40. EFFECTS OF COAL PREPARATION AND PROCESSING IN THE RUSSIAN COAL VALUE CHAIN, Assoc. Prof. Dr. Yurii Vasilev, Assoc. Prof. Dr. Polina Vasileva, Saint Petersburg State Mineral Resources University Gorny, Russia 319

41. ELECTROMAGNETIC FIELDS AND HUMAN HEALTH, Assoc. Prof. Dr. Hamitov Tulegen, MEnv Aleshina Natalya, Assoc. Prof. Dr. Rybalkina Dina, Prof. Dr. Grebeneva Olga, MMedSci Drobchenko Elena, National Center of Labor Hygiene and Occupational Diseases, Kazakhstan 327

42. ENHANCING OF GREEN COMPETITIVENESS IN LATVIA: CASE STUDY OF DEVELOPING MARKETING STRATEGY FOR ORGANIC BEEF PRODUCTS, Assist. Prof. Dr.ing. Normunds Gutmanis, Assoc. Prof. Dr.oec. Gunta Grinberga-Zalite, Prof. Dr.oec. Baiba Rivza, Mg. oec., Svetlana Polovko, ssist. Prof. Evija Liepa, Latvia University of Agriculture, Latvia 335

43. ENVIRONMENTAL POLICY AND SOCIO-ECONOMIC DEVELOPMENT OF THE LENINGRAD REGION OF THE RUSSIAN FEDERATION, Prof. Dr. Nadezhda Kosmacheva, Assoc. Prof. Dr. Galina Cherkasskaya, Leningrade State University, Russia 343

44. ENVIRONMENTAL REPORTING IN POLISH ORGANISATIONS, Dr. Jolanta Maj, Opole Technical University, Poland 351

45. EVALUATION OF ENVIRONMENTAL LIMIT STATES AT APPRAISEMENT OF TRUCKS, Assoc. Prof. Robert Kledus, Ph.D. Marek Semela, Ph.D. Albert Bradac, MSc. Martin Bilik, MSc. Michal Belak, Brno University of Technology, Czech Republic 359

46. RATIONAL NATURE UTILIZATION FACTORS, Prof. Dr. Margarita Melnik, Financial University under the Government of the Russian Federation, Russia 367

47. FEATURES OF CALCULATION AND ANALYSIS OF EKOLOGY-EKONOMIC INDEX OF THE REGION ON THE EXAMPLE OF KURSK REGION, Assoc. Prof. Candidate of Engineering Sciences Iraida Kirilchuk, Assoc. Prof. Candidate of Economic Sciences Valentina Rykunova, Prof. Doctor of Economic Sciences Vladimir Panskov, Southwest State University, Russia 375

48. FINANCING OF THE ACTIVITIES OF THE REGIONAL ENVIRONMENTAL POLICY IN THE RUSSIAN FEDERATION ON THE EXAMPLE OF THE LENINGRAD REGION, Assoc. Busheneva Yu.I., Assoc. Stetsyunich Yu.N., Leningrade State University, Russia 383

49. FLOW ANALYSIS AND ECONOMIC MODELLING THEORY, Dr. Jan Stenis, Prof. Dr. eng. William Hogland, Linnaeus University, Sweden 389

50. FORECASTING THE DEVELOPMENT OF THE AGRARIAN AND INDUSTRIAL SECTOR OF THE REGION IN THE CONDITIONS OF THE DIGITAL ECONOMY, Evgeny Tsaregorodtsev, Albert Mamaev, Viriniya Mamaeva, Mari State University, Russia 395

51. FORMAL AND FUNCTIONAL DESCRIPTION OF INTERNATIONAL TIMBER TRANSPORTATION LOGISTICAL SYSTEM, Lecturer Vsevolod Shain, Prof. Anton Sokolov, Senior Lecturer Tatyana Stankevich, Petrozavodsk State University, Russia 401

52. FORMATION OF AN EFFECTIVE CORPORATE GOVERNANCE SYSTEM FOR INDUSTRIAL ENTERPRISES., Prof. Elena Sidorova, Assoc. Prof. Igor Muradov, National University of Science and Technology MISIS, Russia 407

53. GLOBALISATION AND FOOD SAFETY IMPLICATIONS IN DEVELOPING COUNTRIES, Dr. Ioana Claudia Todirica, Dr. Bogdan Cristian Chiripuci, Dr. Stefan Alin Toderasc, Bucharest University of Economic Studies, Romania 415

54. GREEN ENTREPRENEURSHIP AS A FACTOR OF SUSTAINABLE ECONOMIC DEVELOPMENT IN BALTIC STATES, Assoc. Prof. Dr. Daina Vasilevska, Prof. Dr. Baiba Rivza, Latvia University of Agriculture, Latvia 423

55. GREEN ENTREPRENEURSHIP IN RURAL AREAS, PhD. Ioana Claudia Todirica, PhD. Bogdan Cristian Chiripuci, PhD. Stefan Alin Toderasc, Bucharest University of Economic Studies, Romania 431

56. GROWTH OF THE KNOWLEDGE ECONOMY AS A FACTOR CONTRIBUTING TO THE COMPETITIVENESS OF COUNTRIES ON THE EASTERN COAST OF THE BALTIC SEA, Dr Baiba Rivza Maiga, Senior researcher Kruzmetra, PhD student Linda Sunina, Dr.oec. Laura Jeroscenkova, Dr.oec. Veronika Bikse, Latvia University of Agriculture, Latvia 439

57. HISTORY OF WELDED STRUCTURES IN ROMANIA, Lecturer Dr. ing. Anamaria Feier, Lecturer Dr. ing. Doru Dumbrava, MSc. ing. Maura Vioreanu, Assit. Prof. ing. Silvia Hernea, PhD. ing. Ionut Ciortea, POLITEHNICA University of Timisoara - Department of Materials and Manufacturing Engineering, Romania.....447

58. HOW TO ASSESS SOCIAL IMPACT IN SUSTAINABLE ASSESSMENT OF THE TECHNOLOGY (SAT) - STATE OF ART, Dr Agnieszka Janik, Silesian University of Technology, Poland.....453

59. IDENTIFICATION OF THE ECONOMIC PRESSURE ON ENVIRONMENTAL FACTORS IN THE ROMANIAN COASTAL ZONE - CASE STUDY EFORIE, PhD Student Catalin Anton, Associate professor. PhD. Carmen Gasparotti, Prof. dr. ing. Eugen Rusu, Dunarea de Jos University of Galati, Romania.....461

60. IDENTIFYING THE MAIN CONTRIBUTORS THAT GENERATES BREAD AND BREAD PRODUCTS WASTE IN ROMANIAN SUPERMARKETS, Assoc. Prof. PhD. Eng. Cristina Maria CANJA, As. PhD. Eng. Adriana Elena BOERIU, Dr. Adrian MAZAREL, Transilvania University of Brasov, Romania.....469

61. IMPLEMENTATION OF THE RESOURCE SAVING CONCEPT BY INVOLVING IN THE RECYCLING OF THE TITANIUM SHEET AT THE METALLURGICAL FRONT, Assoc. Prof. Natalia Vikhrova, National University of Science and Technology MISIS, Russia.....477

62. INCREASING EXPORT POTENTIAL OF THE RUSSIAN INDUSTRY BY DEVELOPMENT OF RHENIUM LOGISTICS, Assoc. Prof. Dr. Mikhail Grigoriev, Assoc. Prof. Dr. Yurii Vasilev, Saint Petersburg State Mineral Resources University Gorny, Russia 485

63. INDICATORS OF SUSTAINABLE DEVELOPMENT AS INDICATORS OF ECOLOGICAL-ECONOMIC SAFETY, Assoc. Prof. Candidate of Engineering Sciences Iraida Kirilchuk, Assoc. Prof. Candidate of Economic Sciences Valentina Rykunova, Prof. Doctor of Economic Sciences Vladimir Panskov, Southwest State University, Russia.....491

64. INFLUENCE OF ADOPTION OF THE ENVIRONMENTALLY ORIENTED SOCIAL RESPONSIBILITY ON THE HUMAN RESOURCES AND ON THE CONSUMERS FROM BAKERY COMPANIES, PhD Student Alina Natalia Pop, PhD Student Gabriel Rus, PhD Student Dan Adrian Pop, Assoc.Prof. Dr. Corina Michaela Radulescu, Technical University of Cluj Napoca, Romania 499

65. INNOVATIVE STABILITY OF LOGISTICS IN FORECASTING THE ECOLOGICAL DEVELOPMENT OF THE REGIONS ECONOMY., Elena Potekhina, Evgeny Tsaregorodtsev, Mari State University, Russia.....507

66. INNOVATIVE URBAN REGENERATION TOOLS: THE CASE STUDY OF SOUTHBANK, Prof. Saverio Miccoli, Dr. Fabrizio Finucci, Dr. Rocco Murro, Sapienza University of Roma, Italy 515

67. INSTITUTIONAL PROBLEMS OF DOMESTIC TECHNOLOGIES CREATION FOR EXPLOITATION OF HARD-TO-RECOVER OIL RESERVES IN RUSSIA, Assoc. Prof. DSc. Elena Katysheva, Assoc. Prof. DSc. Anna Tsvetkova, Saint Petersburg Mining University, Russia 523

68. INSTRUMENTS OF INDUCING OF INVESTMENT ACTIVITY IN ECOLOGICAL PROJECTS OF AGRARIAN AND INDUSTRIAL COMPLEX, Assoc. Prof. Firdauz Gumarova, Marina Kazakovtseva, Elena Potekhina, Mari State University, Russia 531

69. INTERDISCIPLINARY APPROACH OF THE ECO-BIO-SANOGENESIS CONCEPT, Assoc. Prof. Dr. Nicoleta-Simona STAN, Amalia-Gianina STRATEANU, Assoc. Prof. Dr. Nicole Livia PETCULESCU, Bioterra University of Bucharest, Romania 537

70. KNOWLEDGE TRANSFER INSTRUMENTS IN ORGANIZATION OF FUTURE, Assoc. Lecturer. PhD. Mihalcea Alina-Daniela, Ovidius University of Constanta, Romania 545

71. LEGAL ASPECTS OF ECONOMIC REGULATION IN THE FIELD OF WASTE MANAGEMENT, Prof. Dr. Alexander E. Epifanov, Assistant Regina-Elizaveta A. Kudriavtceva, Assoc. Prof. Svetlana M. Mironova, Prof. Dr. Sergey V. Kulik, Peter the Great St.Petersburg Politechnic University, Russia 553

72. MACROECONOMIC IMPACT OF MODELLED INVESTMENT INTO BUILDING RENEWAL ON GDP OF THE SLOVAK REPUBLIC, PhD. Julius Golej, PhD. Andrej Adamuscin, PhD. Miroslav Panik, Daniela Spirkova, Slovak University of Technology in Bratislava - Institute of Management, Slovakia 561

73. MARINE SPATIAL PLANNING: POSSIBILITIES FOR THE COASTAL AREAS AND SEAWATERS OF THE MURMANSK REGION, Assoc. Prof., Dr. Ershova Alexandra, Prof. Dr. Gogoberidze Georgy, Prof. Dr. Shishaev Maksim, Dr. Rumiantceva Ekaterina, Prof. Dr. Shilin Mikhail, Murmansk Arctic State University, Russia 569

74. METHODS FOR NOISE CONTROL FOR ACTION PLANNING ASSESSMENT., Lecturer PhD. Cristian-Gabriel Alionte, Lecturer PhD. Liviu Marian Ungureanu, Lecturer PhD. Andrei Dimitrescu, POLITEHNICA University of Bucharest, Romania 577

75. MODELS OF THE IMPACT THE GLOBAL CRISIS HAS ON THE WORLD ECONOMY, Prof. Dr. Nikolay Didenko, Prof. Dr. Sergey V. Kulik, Assoc. Prof. Xenia N. Kikkas, Assistant Regina-Elizaveta A. Kudriavtceva, Peter the Great St.Petersburg Politechnic University, Russia 585

76. MODERN SOLUTIONS FOR SUSTAINABLE, ENVIRONMENTALLY FRIENDLY CONSTRUCTION, Lecturer, Ph.D. Eng. Draghici Gabriela, MA Eng. Maican Ana Maria, Ovidius University of Constanta, Romania.....593

77. OLD MINES OF THE NORTHWEST OF RUSSIA IN THE CONTEXT OF CHANGING ROLE OF MINING-INDUSTRIAL HERITAGE, K.V. Shekov, Institute of Geology Karelian Research Centre Russian Academy of Sciences, Russia 601

78. ORGANIC SOIL AREA AND THE GEOGRAPHIC LOCATION AND QUALITY THEREOF IN LATVIA, Prof. Irina Pilvere, Dr. Aleksejs Nipers, Mg. Juris Zarins, Latvia University of Agriculture, Latvia 607

79. PERFORMANCE OF MIXED AND SPECIALIZED FARMING IN CONTEXT OF SUSTAINABLE DEVELOPMENT IN LATVIA, Ieva Leimane, Dr. oec. Agnese Krievina, Institute of Agricultural Resources and Economics, Latvia 615

80. PROPOSAL OF MANAGEMENT ENVIRONMENTAL REPORTS USING THE PROECOLOGICAL VALUE CHAIN MODEL IN ENERGY SECTOR ENTITIES, Dr. Aleksandra Ferens, University of Economics in Katowice, Poland 623

81. PROSPECTS FOR IMPLEMENTING A CIRCULAR ECONOMY IN INDUSTRY BASED ON TERRITORIAL INNOVATIVE CLUSTERS, Assoc. Prof. Ludmila Kostygova, National University of Science and Technology MISiS, Russia 631

82. PUBLIC INTEREST WITHIN PROJECTS OF TRAFFICLY SIGNIFICANT WATER STRUCTURES, Assoc. Prof. Vit Hromadka, Assoc. Prof. Jana Korytarova, Assoc. Prof. Bohumil Puchyr, Eva Buresova, MSc., Brno University of Technology Faculty of Civil Engineering, Czech Republic 639

83. PUBLIC PRIVATE PARTNERSHIPS AS A FACTOR OF INNOVATIVE DEVELOPMENT RESOURCE REGIONS, CASE OF RUSSIA, Prof. Eder L.V., Prof. Filimonova I.V., PhD Irina V. Provornaya, Komarova A.V., Prof. Nikitenko S.M., Goosen E.V., AA Trofimuk Institute of Petroleum Geology and Geophysics SB RAS, Russia 647

84. RAISING ATTRACTIVENESS OF THE EU ECOLABEL FOR ROMANIAN HOTELS, Assoc. Prof. Dr. Cismaru Laura, Transilvania University of Brasov, Romania.....655

85. RECYCLED MATERIALS AND PROJECT MANAGEMENT OF BUILDING CONSTRUCTIONS, Martin Novy, Ph.D., Jana Novakova, M.Sc., Milos Waldhans, M.Sc., Brno University of Technology Faculty of Civil Engineering, Czech Republic.....663

86. REGIONAL PECULIARITIES OF THE FORMATION OF ECOLOGY-ORIENTED INVESTMENT POLITICS ON THE TERRITORIES WITH ECOLOGICAL RESTRICTIONS, PhD Svetlana Ayusheeva, Assoc. Prof. DSc Anna Mikheeva, Assoc. Prof. DSc Taisiya Bardakhanova, PhD ludmila Maksanova, Zinaida Eremko, Baikal Institute of Nature Management of the Siberian Branch of the Russian Academy of Sciences p, Russia 671

87. RENEWABLE ENERGY SOURCES (RES) AS A FACTOR DETERMINING THE SOCIAL AND ECONOMIC DEVELOPMENT OF THE ARCTIC ZONE OF THE RUSSIAN FEDERATION, Assoc. Prof. Dr. Natalia Yu. Kirsanova, Assoc. Prof. Dr. Olga M. Lenkovets, Assoc. Prof. Dr. Anni Yu. Nikulina, Mining University of Saint Petersburg, Russia 679

88. RESOURCE REGIONS OF RUSSIA: RESOURCE CURSE AND SUSTAINABLE INNOVATIVE DEVELOPMENT, Prof. Eder L.V., Prof. Filimonova I.V., Komarova A.V., Provornaya I.V., PhD Sablin K.S., PhD Elena V. Goosen, Trofimuk Institute of Petroleum Geology and Geophysics SB RAS, Russia 687

89. RESOURCES RENT IS THE KEY FACTOR OF ENERGY AND ECONOMIC POLICY, Prof. Filimonova I.V., Prof. Eder L.V., PhD Provornaya I.V., PhD Nemov V.U., PhD Mishenin M.V., AA Trofimuk Institute of Petroleum Geology and Geophysics SB RAS, Russia 695

90. RISK ASSESSMENT PROCESS IN INDUSTRIAL ENTERPRISES IN SLOVAKIA, M.Sc. Dugas Jaroslav ml., M.Sc. Tudos Dominik, M.Sc. Sebescakova Lucia, M.Sc. Ingrid Kanuchova, M.Sc. Jan Kosco, PhD., Technical University of Kosice - Faculty BERG, Slovakia 703

91. ROLE OF BIM PROCESS PARTICIPANTS WITHIN MANAGING KNOWLEDGE IN BIM DATA MODEL, Ing. Vladimir Nyvlt, The Institute of Technology and Business in Ceske Budejovice, Czech Republic 711

92. SCENARIOS OF AGRICULTURAL ECOSYSTEM ADAPTATION TO CHANGING ENVIRONMENT CONDITIONS (ON EXAMPLE OF PERSONAL SUBSIDIARY FARMS IN WESTERN SIBERIA), Assoc. Prof. Dr. Volkova E.S, Research Scientist, PhD Fuzella T.Sh., Research Scientist, PhD Melnik M.A., Institute of Monitoring of Climatic and Ecological Systems SB RAS, Russia 719

93. SOCIO-ECONOMIC FACTORS AND THEIR IMPACT ON THE RENOVATION OF APARTMENT BUILDINGS IN THE COUNTRIES OF EASTERN EUROPE, Assist. Tausova Marcela, Assoc. Prof. Teplicka Katarina, Dr. Bajus Radoslav, Technical University of Kosice, Slovakia 727

94. SOURCES OF RISK IN THE PROCESS OF MINING PRODUCTION PLANNING IN A HARD COAL MINE, Assoc. Prof. Dr. Izabela Jonek-Kowalska, Assoc. Prof. Dr. Patrycja Bak, Silesian University of Technology, Poland 735

95. SPECIFICS OF STARTUPS MANAGEMENT IN SLOVAKIA, doc. Ing. Andrea Senova, PhD., Ing. Jozef Cambal, Mgr. Maria Shejbalova Muchova, PhD., doc. Ing. Lucia Domaracka, PhD., Ing. Ingrid Kanuchova, Technical University of Kosice - Faculty BERG, Slovakia 743

96. STAKEHOLDERS' PERCEPTIONS ON SOIL QUALITY RELEVANCE AND ON THE IMPACT OF SOIL PROTECTION POLICIES IN ROMANIA, Dr. Monica Dumitrascu, Dr. Sorin Liviu Stefanescu, ICPA - Bucuresti, Romania 751

97. STATISTICAL ANALYSIS OF THE RESEARCH AND DEVELOPMENT ACTIVITY OF THE CONSTRUCTION MATERIALS INDUSTRY IN EUROPE, Dr. Rus Mircea-Iosif, Babes Bolyai University, Romania 759

98. STRATEGIC BENCHMARK OF THE DIGITAL ECONOMY IN THE REGION'S AGRO-INDUSTRIAL COMPLEX, Khalturina Elena,Kreneva Svetla, Bakhtina Tatyana, Larionova Tamara, Tsareva Guzal, Mari State University, Russia 767

99. SUSTAINABILITY AS BUSINESS STRATEGY OF SOCIALLY RESPONSIBLE COMPANIES, PhD Gabriel Rus, PhD Alina Pop, PhD Dan Adrian Pop, Assoc. Prof. Dr. Corina Michaela Radulescu, Technical University of Cluj Napoca, Romania 775

100. SUSTAINABLE DEVELOPMENT AND GREEN ECONOMY IN DIGITAL AGE, Dr. Sergey Dyatlov, PhD Oleg Lobanov, Saint Petersburg State University of Economics, Russia 783

101. SUSTAINABLE INNOVATIVE DEVELOPMENT OF RUSSIAN OIL AND GAS INDUSTRY IN VIEW OF GLOBAL TRENDS, Prof. Eder L.V, Prof. Filimonova I.V., PhD Provornaya I.V., PhD Nemov V.U., PhD Mishenin M.V., AA Trofimuk Institute of Petroleum Geology and Geophysics SB RAS, Russia 791

102. TECHNOLOGICAL AND MATERIAL EVALUATION OF CONSTRUCTION WORKS, MSc Eng. Ewelina Mitera-Kielbasa, PhD Eng. Krzysztof Zima, Cracow University of Technology-Faculty of Civil Engineering, Poland 799

103. TECHNOLOGY CREATIVITY OF AVIATION INDUSTRY COMPANIES IN THE CONTEXT OF SUSTAINABLE DEVELOPMENT., Assist. Prof. Dr. Joanna Machnik-Slomka, Silesian University of Technology, Poland 807

104. TECHNOLOGY ENTREPRENEURSHIP: MULTIDIMENSIONAL MODEL, Dr Piotr Kordel, Silesian University of Technology, Poland 815

105. THE ANALYSIS OF SELECTED ELEMENTS OF WASTE MANAGEMENT – COMPARISON OF POLAND, CZECH REPUBLIC AND SLOVAKIA, Dr. Edyta Kardas, Czestochowa University of Technology, Poland 823

106. THE ANALYSIS OF THE MAIN FACTORS OF THE IRRIGATED AGRICULTURE IN THE FEDERAL DISTRICTS OF THE RUSSIAN FEDERATION, Prof, Dr. of economic sciences Ugryumova A.A, Assoc.Prof., Candidate of Physical and Mathematical Sciences Zamahovsky M.P., Candidate of economic sciences Olgarenko D.G., Federal State Budget Research Institution All-Russia Scientific and Research Institute for Irrigation and Farming Water Supply Systems RADUGA, Russia 831

107. COMPANY STRATEGIC PROSPECTS: A CASE STUDY OF KONEKESKO LATVIA LTD, Assoc. Prof. Anita Auzina, Assist. Prof. Lasma Licite, MBA Janis Cers, Latvia University of Agriculture, Latvia 839

108. THE CONTRIBUTION OF HOUSING AND COMMUNAL SERVICES TO THE ECONOMIC GROWTH OF THE COUNTRY AND STRUCTURAL, Assistant Professor Stash Svetlana, Assistant Professor Nalesnaya Yana, Doctor of Economics, Makarenya Tatyana, Assistant Professor Zimovec Alexandr, Southern Federal University, Russia 847

109. THE ENERGY MANAGEMENT IS A KEY SOCIAL AND ENVIRONMENTAL STRATEGY IN THE COMPANY, Assoc. Prof. Evgeniya Eliseeva, National University of Science and Technology MISiS, Russia 855

110. THE FORMATION OF THE ALTERNATIVE LIST IN THE OUTPUT OF COMPETITIVE ECOLOGICAL PRODUCTS, Prof. Antamoshkina Olga, assosiate Prof. Zinina Olga, senior teacher Olentsova Julia, Krasnoyarsk State Agrarian University, Russia 863

111. THE IMPACT OF BROWNFIELDS ON PROPERTY PRICES, Ing. Stanislav Endel, Ing. arch. Dagmar Kuta, doc. Ing. Frantisek Kuda, VSB-Technical University of Ostrava, Czech Republic 871

112. THE IMPACT OF NEARLY ZERO ENERGY CONSUMPTION CONCERNING ROMANIAN HOTEL SYSTEM RELATED TO THE SUSTAINABLE TOURISM STRATEGY, Dr. Adrian Mazarel, Cristina Maria CANJA, As. PhD. Eng. Adriana Elena BOERIU, Transilvania University of Brasov, Romania 879

113. THE IMPLEMENTATION OF A TRIP PLANNER FOR NATURAL RESOURCES MANAGEMENT IN BRASOV TOURIST DESTINATION, Assoc. Prof. Dr. Cismaru Laura, Transilvania University of Brasov, Romania 887

114. THE IMPORTANCE OF IT SYSTEMS IN THE THERMAL ENERGY DISTRIBUTION PROCESS FOR THE FINAL CUSTOMER – PART 1, Eng. Marta Kadlubek, Eng. Szymon T. Dziuba, Czestochowa University of Technology, Poland 895

115. THE IMPORTANCE OF IT SYSTEMS IN THE THERMAL ENERGY DISTRIBUTION PROCESS FOR THE FINAL CUSTOMER – PART 2, Associate Professor Eng. Anna Cierniak-Emerych, Eng. Szymon T. Dziuba, Eng. Marta Kadlubek, Czestochowa University of Technology, Poland 903

116. THE INFLUENCE OF THE KAROLINA REGENERATION ON THE OVERALL OSTRAVA CITY CENTER CONDITION, Ing. Stanislav Endel, Ing. Dagmar Kuta, doc. Ing. Frantisek Kuda, VSB-Technical University of Ostrava, Czech Republic 911

117. THE NEW BUSINESS MODEL FOR THE CIRCULAR ECONOMY: MOVING FROM THEORY TO PRACTISE, Assoc. Prof. Dr. Nadezhda Shmeleva, National University of Science and Technology MISIS, Russia 919

118. THE PROBLEMATIC OF SOCIAL ISSUES AND ENVIRONMENTAL POLICIES, Assoc. Prof. Dr. Andrejs Cekuls, Latvijas Universitate, Latvia 927

119. THE PROSPECT OF RUSSIAN URBAN WATER SUPPLY COMPANIES ACCORDING TO STRATEGICAL PLANNING ACTIVITIES OF THE GOVERNMENT, Assoc. Prof. Ksenia Krutikova, Assoc. Prof. Olga Naschetnikova, Ural Federal University, Russia 935

120. THE RISKS OF SUPPLIER PROCESSES ACCORDING TO THE REQUIREMENTS OF THE PROCESS AUDIT STANDARD, Prof. DSc. Taras Boyko, Prof. Dr.Sc.Eng. Roman Kochan, Olha-Solomiia Korchynska, Lviv Polytechnic National University, Ukraine 943

121. ROLE OF LEADERSHIP AND VALUES IN SOCIAL ENTREPRENEURSHIP, Assoc. Prof. Dr. Andrejs Cekuls, Latvijas Universitate, Latvia 951

122. READINESS OF THE POPULATION TO TRANSITION TO THE DIGITAL ECONOMY INTRODUCTION, Liudmila Bakumenko, Tatyana Sarycheva, Mari State University, Russia 959

123. FORECAST TO DETERMINE A DEVELOPMENT STRATEGY FOR THE MINING SECTOR, PhD., Eng. Anna Manowska, Silesian University of Technology, Poland 967

124. USE OF AUTOREGRESSIVE MODELS TO ESTIMATE A DEMAND FOR HARD COAL, PhD. Eng. Anna Manowska, Silesian University of Technology, Poland 975

125. USE OF ORGANIC SOILS IN LATVIA, Prof. Irina Pilvere, Dr. Aleksejs Nipers, Mg. Juris Zarins, Latvia University of Agriculture, Latvia 983

126. UTILIZATION OF A MULTIFACTOR METHOD OF DECISION MAKING IN THE FIELD OF RECOVERY OF ASH FROM METALLURGICAL PRODUCTION, Ing. Martina Vasilkova Kmecova, Ing. Lubomira Gabaniova, Ing. Barbora Roth, Ing. Matej Puzder, PhD. Ing. Eva Mihalikova, PhD., Technical University of Kosice, Slovakia 991

127. VOLUNTARY ASSOCIATIONS OF MUNICIPALITIES AS ONE OF THE INSTRUMENTS OF REGIONAL DEVELOPMENT, M.Sc., Ph.D. Vankova Lucie, M.Sc., Ph.D. Kocourkova Gabriela, Brno University of Technology, Czech Republic.....999

128. WATER SUPPLY, SEWERAGE AND WATER PRICE IN THE CZECH REPUBLIC, Assoc. Prof. Alena Ticha, M.Sc, Ph.D. Gabriela Kocourkova, M.Sc, Ph.D. Dagmar Hrabincova, B.ScVazlerova Marcela, Brno University of Technology, Czech Republic.....1007

129. PLANNING THE SALE OF HARD COAL IN A MINING ENTERPRISE. PROBLEMS AND SYSTEMIC SOLUTIONS, Assoc. Prof. Dr. Eng. Patrycja Bak, Assoc. Prof. Dr. Izabela Jonek-Kowalska, Silesian University of Technology, Poland.....1015