

15th International Conference on Geoinformatics – Theoretical and Applied Aspects (Geoinformatics 2016)

Kiev, Ukraine
10 - 13 May 2016

ISBN: 978-1-5108-3933-5

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2016) by the European Association of Geoscientists & Engineers (EAGE)
All rights reserved.

Printed by Curran Associates, Inc. (2017)

For permission requests, please contact by the European Association of Geoscientists & Engineers (EAGE)
at the address below.

European Association of Geoscientists & Engineers (EAGE)
PO Box 59
3990 DB Houten
The Netherlands

Phone: +31 88 995 5055
Fax: +31 30 634 3524

eage@eage.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

9294_RUS: ROLE OF GEOINFORMATION IN DECISION MAKING IN THE COMPLICATED CONDITIONS OF WELL DRILLING	1
<i>H. Gulyev, G. Afandiyev, A. Kadymov, T. Makhmudov, I. Gulyev, G. Hasanova</i>	
9300_UA: THE FIELD OF ATMOSPHERIC ELECTRICITY AND THE GEOLOGICAL STRUCTURE OF THE EARTH.....	7
<i>M. Yakymchuk</i>	
9301_ENG: APPLICATION OF DIRECT-PROSPECTING GEOPHYSICAL METHOD FOR HYDROCARBON POTENTIAL ASSESSMENT OF LARGE PROSPECTING BLOCKS IN ARCTIC	12
<i>S. Levashov, N. Yakymchuk, I. Korchagin, D. Bozhezha, V. Prylukov</i>	
9302_ENG: ON POSSIBILITY THE VALUES OF FLUID PRESSURE IN RESERVOIRS USING FOR THE OIL-AND-GAS PROSPECTS ASSESSING WITHIN DEEP HORIZONS OF CROSS-SECTION	17
<i>S. Levashov, N. Yakymchuk, I. Korchagin, D. Bozhezha, V. Prylukov</i>	
9303_ENG: OPERATIVE ASSESSMENT OF HYDROCARBON POTENTIAL OF PROSPECTING BLOCK IN THE REGION OF MARCELLUS SHALE SPREADING BY THE FREQUENCY-RESONANCE METHOD OF REMOTE SENSING DATA PROCESSING AND INTERPRETATION.....	23
<i>S. Levashov, N. Yakymchuk, I. Korchagin, D. Bozhezha, V. Prylukov</i>	
9304_ENG: APPLICATION OF FREQUENCY-RESONANCE METHOD OF REMOTE SENSING DATA PROCESSING FOR ORE MINERAL PROSPECTING IN DIFFERENT REGIONS OF THE WORLD	28
<i>S. Levashov, N. Yakymchuk, I. Korchagin, D. Bozhezha, M. Petranovskaya</i>	
9305_RUS: CENTRAL BASIN OF THE BRANSFIELD STRAIT: MAGNETIC ANOMALIES AND THE FORMATION STAGES OF THE ANTARCTIC PENINSULA CONTINENTAL MARGIN STRUCTURES	33
<i>V.D. Soloviev, I. Korchagin, S. Levashov, N. Yakymchuk, D. Bozhezha</i>	
9399_RUS: STUDYING OF DEEP LAYERS OF THE GEOLOGICAL MEDIUM ON THE BASIS OF DATA OF SEISMIC EXPLORATION AND SEISMOLOGY	39
<i>H. Gulyev, K. Aghayev, T. Volkov, G. Hasanova</i>	
9482_UA: ON APPLYING MAGNETIC METHOD FOR SOIL POLLUTION MONITORING IN ZAPORIZHZHYA	44
<i>I. Tsypa, K. Bondar</i>	
9509_ENG: INTEGRATION BETWEEN THE REMOTE SENSING OF THE EARTH DATA AND GEOLOGICAL-GEOPHYSICAL STUDIES FOR POLYMETALLIC ORE PROSPECTING.....	49
<i>A. Bunina, O. Azimov, S. Stankevich, Y. Dorofey, V. Chepurnoy</i>	
9562_UA: THE RESULTS OF SEISMIC OBSERVATIONS IN THE CENTRAL PART OF THE UKRAINIAN SHIELD IN 2007-2013	53
<i>V. Omelchenko, A. Kendzera, V. Kuchma</i>	
9594_ENG: REGULARIZED METHODS FOR SOLVING NONLINEAR INVERSE GRAVITY PROBLEM	56
<i>E. Akimova, V. Misilov, A. Tretyakov</i>	
9607_RUS: INFORMATION PRODUCTS OF REMOTE SENSING OF EARTH FROM SPACE, AS THE BASIS OF THE UKRAINIAN NATIONAL INTERNET-CENTER MONITORING AND ANALYSIS OF DATA FOR AGRICULTURE	61
<i>B. Busygin, I. Garkusha, K. Sergieieva</i>	
9609_RUS: GEANT4 LIKE COMPUTATIONAL TOOL OF NUCLEAR GEOPHYSICS.....	66
<i>V. Belokhin, A. Zhemchugov</i>	
9612_UA: MODELLING OF GROUNDWATER LEVEL SURFACE AS INDICATOR OF RADIATION SAFETY AREA	70
<i>O. Scherbak, T. Kosliakova, V. Dolin, I. Rudenko, Y. Kutska</i>	
9628_RUS: FINITE-DIFFERENCE KINEMATIC MIGRATION AS ONE OF THE WAYS OF OBTAINING INFORMATION ABOUT SEISMIC BOUNDARIES AND SEISMIC VELOCITIES IN GEOLOGICAL ENVIRONMENT	75
<i>O. Pylpenko, O. Verpakhovska, V. Pylypenko</i>	

9631_RUS: RELATION OF LINEAMENTS NETWORK FEATURES AND DISTRIBUTION OF ORE OBJECTS BY THE EXAMPLE OF THE EAST AFRICAN RIFT AREA	80
<i>B. Busygina, S. Nikulin</i>	
9643_UA: INVESTIGATION KEROGEN TYPES ACCORDING TO PYROLYSIS OF SAMPLES (FOR EXAMPLE, THE DNIEPER-DONETS BASIN).....	85
<i>Y. Zelenko, O. Dziuba, O. Karpenko</i>	
9666_UA: THE WAYS TO IMPROVE THE TECHNIQUE OF SEISMIC MICROZONATION OF BUILDING SITES IN UKRAINE.....	89
<i>A. Shynkarenko, O. Kendzera</i>	
9673_RUS: MAGNETOVARIATIONAL RESPONSE FUNCTIONS 3D MODELS OF DEEP FAULTS	94
<i>O. Hishchuk, T. Burakhovich, T. Prichepy</i>	
9683_RUS: GEOPHYSICAL AND ENGINEERING METHODS IN THE STUDY OF THE PIPELINE SYSTEMS.....	99
<i>R. Hloba, O. Danylov, S. Korneyenko, Y. Hloba</i>	
9686_ENG: AGENT-BASED MODEL OF DATA ACTUALIZATION OF ONLINE REGION SUSTAINABLE DEVELOPMENT ATLASES	104
<i>B. Busygina, A. Kachanov</i>	
9694_RUS: PETROPHYSICAL THERMOBARIC MODEL OF THE EARTH'S CRUST OF THE BLACK SEA NORTH-WESTERN PART ALONG A 25 DSS PROFILE.....	109
<i>V. Korchin</i>	
9695_RUS: EXPERIMENTAL INVESTIGATIONS OF DENSITY AND VELOCITY CHARACTERISTICS OF GNEISES AT HIGH PRESSURES AND TEMPERATURES	114
<i>E. Karnaukhova, V. Korchin</i>	
9696_RUS: UNCOMPRESSION ZONES OF ROCKS OF THERMODYNAMICS NATURE IN THE EARTH'S CRUST OF UKRAINIAN SHIELD CENTRAL PART	118
<i>V. Korchin, P. Burtnyi, V. Kobolev</i>	
9704_ENG: ON SOLVING THE STRUCTURAL INVERSE MAGNETIC PROBLEM OF FINDING A CONTACT SURFACE IN THE CASE OF ARBITRARY DIRECTED MAGNETIZATION	123
<i>V. Misilov</i>	
9729_UA: THE RELATIONSHIP BETWEEN LOW-FREQUENCY MAGNETIC SUSCEPTIBILITY AND HEAVY METALS IN SOILS OF ODESA	128
<i>I. Stakhiv, I. Tsypa, K. Bondar</i>	
9730_RUS: RESULTS OF EXPERIMENTAL ELECTROMAGNETIC STUDIES OF THE CRIMEAN REGION.....	133
<i>T. Burakhovich, A. Kushnir</i>	
9750_UA: SELECTION OF THE SIMILAR HIDROGEODYNAMIC MODE ZONES WITHIN THE ZHYTOMYR REGION WITH THE TOOLS OF INFORMATION AND SPATIAL ANALYSIS IN GIS	139
<i>O. Pona, L. Davybida</i>	
9751_UA: STUDYING OF MODERN FLOODING OF SOUTHWESTERN PART KRIVBASS BY GEOPHYSICAL METHODS.....	144
<i>P. Pigulevskiy, V. Svistun, S. Slobodyaniuk, A. Kyryliuk</i>	
9752_UA: GIS MODELING OF THE GROUNDWATER LEVELS TO THE INTENSIVE FLOODED AREAS (ON THE EXAMPLE OF THE ZHYTOMYR REGION).....	150
<i>Y. Bilinska, M. Tymkiv</i>	
9765_UA: CONDUCTIVITY ANOMALIES AND MINERAL RESOURCES OF THE CENTRAL PART OF THE UKRAINIAN SHIELD	155
<i>B. Shyrkov, A. Usenok</i>	
9771_RUS: DEVELOPMENT OF GEOPORTAL OF NATURAL-RESERVE FUND OF UKRAINE	160
<i>V. Demidov, E. Kravchenko</i>	
9778_UA: INTERPRETATION OF HIGH-RESOLUTION MAGNETIC SURVEY INTEGRATED IN ARCHAEOLOGICAL GIS (ON EXAMPLE OF HOTIV SCYTHIAN HILLFORT)	165
<i>M. Daragan, M. Orlyuk, A. Romenets, K. Bondar</i>	
9785_ENG: A SEARCH FOR CONNECTIONS OF GRAVITATIONAL INFLUENCE OF THE MOON AND THE SUN WITH EARTHQUAKES.....	170
<i>A. Kazantsev, L. Kazantseva</i>	
9793_UA: THE ANALYSIS OF THE RELATIONSHIP BETWEEN THE PHASES OF THE MOON AND THE OCCURRENCE OF LANDSLIDES	173
<i>O. Pona, L. Shtogryn, D. Kasianchuk</i>	

9797_RUS: AUTOMATED OF CALCULATION THE CORRECTIONS OF RADIO LOGGING FOR DEVICES OF THE SOVIET-RUSSIAN TYPE	178
<i>V. Khalimendik</i>	
9801_UA: CREATING OF MAPS OF INVESTIGATION OF SPATIAL DISTRIBUTION OF MAJOR CHEMICAL ELEMENTS BY ELECTRON PROBE MICROANALYZER AND USING IT FOR UNDERSTANDING WAYS AND SEQUENCES OF CRYSTALLIZATION FUSION	183
<i>O. Loshakov, O. Rybnikova</i>	
9802_UA: INDUCED SEISMICITY AND SEISMOTECTONICS OF NADVIRNA OIL AND GAS AREA (UKRAINIAN PRECARPATHIANS).....	187
<i>L. Nazarevych, A. Nazarevych</i>	
9815_UA: MUDFLOWS RISKS. ASSESSMENT OF MUDFLOW RISK ON THE EXAMPLE OF EAST PART OF THE UPPER TISZA BASIN	192
<i>T. Chepurna, D. Kasiyanchuk, E. Kuzmenko, I. Chepurnyj, Y. Bilinska</i>	
9820_UA: THE STRUCTURE AND COMPONENTS OF INFORMATION-ANALYTICAL SYSTEM OF NATURAL-TECHNICAL COMPLEXES MONITORING AND ASSESSMENT (FOR TRANSCARPATHIAN REGION)	197
<i>O. Ivanik, M. Nazarenko, S. Chomenko, O. Mykhaylenko, S. Zamkovets</i>	
9821_UA: INTERRELATION BETWEEN NEOTECTONIC MOVEMENTS AND STRUCTURAL FORMATION IN KANEV AREA	202
<i>L. Tustanovska, G. Ivankevich, E. Yahno</i>	
9823_RUS: ON THE RESTRICTIONS OF THE DIGITAL GEOMAPPING SYSTEMS DURING THE GEOPHYSICAL ANOMALIES MODELING	207
<i>Y. Dubovenko</i>	
9824_UA: APPLICATION OF GEOPHYSICAL METHODS HOLOGRAPHY TO STUDY THE DEEP STRUCTURE OF KOROSTEN PLUTON	213
<i>M. Bankovskyi, A. Geikhman</i>	
9825_UA: APPLICATION OF GEOPHYSICAL HOLOGRAPHY IN THE SEARCH FOR OIL AND GAS IN THE UKRAINIAN CARPATHIANS	218
<i>M. Bankovskyi, A. Geikhman</i>	
9835_UA: BURIAL HISTORY MODELING OF THE TARANAKI BASIN (NEW ZEALAND)	223
<i>I. Titenko, I. Virshylo</i>	
9841_UA: STATISTICAL MODELS OF RESULTS COMPARING OF ROLLER-BIT AND CORE DRILLING STUDYING WHILE MINING EXPLORATION OF IRON ORE DEPOSITS.....	228
<i>A. Plotnikov, A. Belous, M. Kurylo</i>	
9842_ENG: INFLUENCE OF GPR MEASURE STEP AND DEPTH OF INVESTIGATION ON QUALITY OF GPR PROFILES	233
<i>A. Chernov, O. Loshakov</i>	
9843_UA: SEISMICITY OF UKRAINIAN PRECARPATHIANS IN THE CONTEXT OF TECTONICS AND VERTICAL HOLOCENE MOVEMENTS	238
<i>L. Nazarevych</i>	
9849_ENG: PRELIMINARY RESULTS OF MAGNETIC INVESTIGATIONS AT STARUNIA OIL-OZOKERITE DEPOSIT (CARPATHIAN REGION, UKRAINE)	243
<i>O. Menshov, R. Kudravets, I. Chobotok</i>	
9853_UA: MODELING OF TOPOGRAPHY INDICES FOR ANALYSIS OF NEOTECTONICS AND RESEARCH OF LOCAL TECTONIC UNITS	248
<i>T. Andriiets</i>	
9860_UA: THE MATHEMATICAL METHODICS FOR OIL AND GAS RESERVOIR ROCKS DISCOVERY IN THE WELLS OPEN-CASTS ACCORDING TO THE LOGGING DATA	253
<i>L. Skakal's'ka, A. Nazarevych</i>	
9864_ENG: ON SOLVING THE THREE-DIMENSIONAL STRUCTURAL GRAVITY PROBLEM FOR THE CASE OF A MULTILAYERED MEDIUM BY THE COMPONENTWIZE LEVENBERG-MARQUARDT METHOD	258
<i>E. Akimova, A. Skurydina</i>	
9873_RUS: THE ANALYSIS OF THE INITIAL FIELD TRANSFORMATIONS FOR THEIR SOURCES FORMALIZED DELINEATION	263
<i>V. Logvin, P. Pigulevskiy</i>	
9882_UA: HYDROGEOLOGICAL AND GEOINFORMATICAL ASPECTS OF EUROPEAN STANDARDS IMPLEMENTATION IN UKRAINE IN THE AREA OF NATURAL WATERS QUALITY AND WATER MANAGEMENT	268
<i>O. Koshilakov, O. Dyniak, I. Koshliakova</i>	

9911_ENG: IDENTIFICATION OF PETROLEUM SYSTEM ELEMENTS AND DOWNSCALING OF COMPLEX GEO-DATA SETS FOR DEVELOPMENT OF 3D MODEL OF SEMI-REGIONAL SCALE. EXAMPLE OF SOUTHERN BORDER AREA OF DNIERPER-DONETS RIFT	272
<i>I. Karpenko</i>	
9932_RUS: AUTOMATED SELECTION BASED ON VECTOR MEASUREMENTS OF THE ANOMALOUS MAGNETIC FIELD.....	278
<i>T. Mikheeva, E. Lapina, N. Panchenko</i>	
9949_ENG: ESTIMATION OF THE AREAL UPWARD HYDROGEOMIGRATION AND RISKS OF UNDERGROUND WATER POLLUTING IN THE PROCESS OF UNCONVENTIONAL HYDROCARBONS EXTRACTION	282
<i>O. Azimov, Y. Dorofey, V. Lyalko, Y. Yakovlev</i>	
9960_ENG: GEOCHEMICAL DATA ANALYSIS AND PREDICTION OF HYDROCARBON ACCUMULATION IN THE TERRITORY OF ROTMISTROVKA IMPACT STRUCTURE.....	288
<i>M.Y. Gryga, I.D. Bagriy, K.M. Starodubets, V.G. Semenyuk</i>	
9961_ENG: PREDICTION OF PROMISING AREAS FOR COAL BED METHANE PRODUCTION BY THE STRUCTURAL-THERMAL-ATMOGEOCHEMICAL RESEARCH METHODOLOGY (STAGR).....	293
<i>V.R. Dubosarskiy, V.G. Semenyuk, O.O. Yantsevych, V.A. Glon</i>	
9965_ENG: GEOCHEMICAL BEHAVIOR OF MAJOR AND TRACE ELEMENTS DURING MAGMA EVOLUTION PROCESS IN BODIE HILLS VOLCANIC FIELD, NEVADA.....	298
<i>L. Gavriliv, S. Shnyukov, I. Lazareva</i>	
9970_ENG: ILMENITE DISTRIBUTION IN TITANIUM DEPOSITS BY GIS-MODELING (FOR EXAMPLE TORCHYNSKE APATITE-ILMENITE DEPOSIT)	303
<i>S. Vasylenko, T. Okholina, O. Remezova, O. Yaremko</i>	
9977_UA: PREDICTION POTENTIALLY PROMISING HYDROCARBON GEOLOGICAL STRUCTURAL FORMS BASED ON BAYES DECISION RULE.....	307
<i>I. Tishayev, V. Zatserkovny, K. Yagorlitska</i>	
9982_UA: METHODS OF DATA PROCESSING DEPTH MTZ / MVP USING PROGRAM PRC_MTMV	312
<i>Y. Popko, O. Hishchuk</i>	
9983_UA: PRINCIPLES OF THE DEVELOPMENT OF GEOLOGICAL INFORMATION DATABASE NOVOTROITSKE DEPOSIT OF LIMESTONE-BASED GEOINFORMATION APPROACH	316
<i>S. Pikul</i>	
9989_ENG: APPROXIMATION OF ANOMALOUS MAGNETIC FIELD USING ARRAY OF SINGULAR SOURCES (MAGNETIZED RODS)	321
<i>L. Muravyev, D. Byzov, N. Fedorova</i>	
9992_RUS: COUNTER HIGH-VELOCITIES INCLINED LAYERS OF THE EAST EUROPEAN AND AFRICAN-ARABIAN PLATFORM.....	326
<i>I. Bugaenko</i>	
9993_RUS: FEATURES OF THE VELOCITY STRUCTURE OF THE MANTLE OF AUSTRALIA ACCORDING TO SEISMIC TOMOGRAPHY	331
<i>L. Zaiets</i>	
9994_ENG: PARTITION OF SUBVOLCANIC ROCKS ON THE GEODYNAMIC CLASSES USING CLASSIFICATION EQUATIONS BASED ON PETROPHYSICAL DATA	336
<i>O. Shabatura, N. Kostenko</i>	
9995_ENG: PETROCHEMICAL SYSTEMATIZATION OF LATE KAINOZOIC VOLCANITES OF ALPINE FOLD-THRUST BELT OF EASTERN EUROPE	340
<i>N. Kostenko, M. Tolstoy, O. Shabatura</i>	
9997_RUS: HOW GEOMAGNETIC FIELD COULD INFLUENCE TO CLIMATE CHANGES	345
<i>DimBo</i>	
10000_UA: DEVELOPMENT OF DANGEROUS GEOLOGICAL PROCESSES ON THE TERRITORY OF KIEV-PECHERSK LAVRA AS A RESULT OF CHANGES IN GROUNDWATER LEVE.....	350
<i>P. Holub, O. Dyniak</i>	
10004_RUS: METHODICAL ISSUES OF INVESTIGATIONS WITH LABORATORY NMR RELAXOMETER	355
<i>L. Muravyev, S. Zhakov</i>	
10006_UA: GEOMAGNETIC FIELD AND MAGNETIC LINEAMENTS OF THE SOUTHERN OIL AND GAS REGION OF UKRAINE	360
<i>M. Orlyuk, T. Rozyhan</i>	

10008_UA: COMPARISON OF METHODOLOGICAL APPROACHES TO CALCULATION OF COAL RESERVES ON EXAMPLE OF INPUT DATA REQUIREMENTS.....	365
<i>V. Bala, M. Kurylo</i>	
10011_UA: PIPELINE MONITORING USING REMOTE SENSING.....	370
<i>I. Zinchenko, I. Tishaev</i>	
10012_UA: PROSPECTS OF USING RECLASSIFICATION IN GIS ARCGIS FOR CREATION OF MAPS OF PREDICTED SUITABILITY IN GEOLOGY	375
<i>D. Koval</i>	
10013_UA: THE AUTOMATIC IDENTIFICATION OF DIP OF ROCKS BY REMOTE SENSING OF THE EARTH.....	380
<i>O. Pylypenko, I. Tishaev, Z. Vitaly</i>	
10015_RUS: MONITORING OF YELLOWSTONE SUPERVOLCANO BASED ON REMOTE SENSING RESEARCH.....	385
<i>E. Uglitskikh, I. Tishaev</i>	
10016_UA: QUANTITATIVE MODELLING OF EARTH SATELLITE GRAVITY DATA FOR COOPER-EROMANGA BASINS (AUSTRALIA).....	389
<i>I. Pap, I. Virshyo</i>	
30474_ENG: MODELING OF LONGITUDINAL AND TRANSVERSAL WAVE DIFFRACTION ON 2-D ANOMALY DENSITY HETEROGENEITY OF HIERARCHIC STRUCTURE, LOCATED IN THE N-LAYERED ELASTIC MEDIUM	394
<i>O.A. Hachay, O.Y. Khachay, A.Y. Khachay</i>	
30567_ENG: NMO VELOCITY ELLIPSE IN GROUP AND PHASE DOMAIN.....	399
<i>A. Stovas, Y. Roganov, V. Roganov</i>	
30576_ENG: EXPERIENCE OF USING NMR TECHNOLOGY FOR EXPLORATION OF HYDROCARBON DEPOSITS.....	404
<i>P. Ivashchenko, E. Bakai, A. Yurchuk</i>	
30677_ENG: MANIFESTATION OF PLASTIC DEFORMATION WAVES IN THE ROCKS STRUCTURAL CHANGES	409
<i>P.S. Martyshko, V.A. Pyankov, A.L. Rublev</i>	
30678_ENG: FROM STRUCTURAL DATA TO 3D THERMAL MODEL: AN EXAMPLE FROM THE NORTHERN NORTH SEA.....	414
<i>Y.P. Maystrenko</i>	
30680_ENGL: AN OFFSHORE-ONLAND TRANSECT ACROSS THE NE BLACK SEA (CRIMEAN MARGIN): EVIDENCE OF CENOZOIC TWO-STAGE COMPRESSION	419
<i>Y.Y.S. Sheremet, M. Sosson, G. Ratzov, G. Sydorenko, Z. Voitsitskiy</i>	
30681_ENG: THE INTERPRETATION OF SPATIAL AND TEMPORAL DISTRIBUTION OF RADON HIGH-AMPLITUDE VARIATIONS BASED ON GOLDIN'S MODEL.....	424
<i>P.S. Martyshko, V.A. Pyankov, A.L. Rublev</i>	
ECONOMICAL TECHNOLOGY OF LOW-ALTITUDE UNMANNED AEROMAGNETIC PROSPECTING AND ITS GEO-INFORMATION SUPPORT.....	429
<i>A.V. Parshin, V.S. Kanaikin, A.V. Blinov, A.O. Mikhalev</i>	
30735_ENG: INCOMPLETE DATA PRODUCTION TECHNIQUES IN GPR RESEARCH AND APPLICATIONS	434
<i>R. Samet, M. Ozkan</i>	
30762_ENG: FULL ACOUSTIC WAVEFORM INVERSION IN A PML-TRUNCATED TUNNEL ENVIRONMENT	439
<i>K. Musayev, S. Oezalp, K. Hackl, M. Baitsch</i>	
30763_ENG: STRESS CONCENTRATION NEAR BORE-HOLD IN CLAYEY VISCOELASTIC ROCKS.....	444
<i>B.P. Maslov</i>	
30764_ENG: GPRVIS: NEW SOFTWARE FOR ANALYZING, PROCESSING, VISUALIZATION AND INTERPRETATION OF GPR DATA	449
<i>R. Samet, E. Celik, E. Sengonul, S. Tural</i>	
30765_ENG: GLOBAL AND LOCAL STOCHASTIC OPTIMIZATION IN EFFECTIVE ELASTICITY TENSORS EVALUATION	454
<i>A. Kozubal</i>	
30766_ENG: NEOGENE SUBMARINE ROCK SLIDING AND DEVELOPMENT OF MASS TRANSPORT DEPOSITS IN THE UKRAINIAN SECTOR OF BLACK SEA BASIN.....	459
<i>O.A. Kitchka, A.P. Tyshchenko, V.I. Lysenko, O.M. Bezkhyyzhko, I.I. Ishchenko</i>	
Author Index	