

**Saint Petersburg 2012 –
5th Saint Petersburg International
Conference & Exhibition 2012**

**Making the Most of the Earth's
Resources**

**Saint Petersburg, Russia
2 - 5 April 2012**

ISBN: 978-1-62993-784-7

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© (2012) by the European Association of Geoscientists & Engineers
All rights reserved.

Printed by Curran Associates, Inc. (2014)

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

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: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

A001 Overview of the Cretaceous Evolution of the North-western Barents Sea	1
<i>A. Escalona, S. Olausen</i>	
A002 The History of Development and Prospectives of the Jurassic Deposits on the Barents Sea Shelf	6
<i>A. Suslova, A. Stoupakova, Y. Burlin, R. Sautkin</i>	
A003 Geological Structure and Petroleum System of South Kara Basin	11
<i>N. Malyshev, V. Nikishin, V. Obmetko, B. Ikhsanov, Y. Reydik, K. Sitar, D. Shapabaeva</i>	
A004 Constraints on Magnitude of Cenozoic Uplift and Petroleum Systems Modelling for the Russian Barents Sea	16
<i>P. O. Sobolev</i>	
A005 Looking for the Giants - Sedimentation and Basin Modelling Application for South Kara Basin	18
<i>S. Malysheva, V. Vasilyev, V. Verzhbitsky, V. Ananyev, R. Murzin, D. Komissarov, N. Kosenkova</i>	
A006 Lower-upper Permian and Triassic Seismostratigraphic Complexes in the Southeastern Barents Sea	23
<i>G. Kazanin, S. Pavlov, D. Norina, A. Stoupakova</i>	
A007 Hydrocarbon Potential of Riphean-paleozoic Deposits of Taimyr	28
<i>V. Baldin</i>	
A008 Hydrocarbon Systems of Tatar Strait Sedimentary Basins and its Prospective Production Analysis	33
<i>T. Zhemchugova</i>	
A009 Geological Prerequisites of Formation of Big Oil and Gas Centers in Eastern Siberia	38
<i>V. Kharakhinov, S. Shlenkin</i>	
A010 Using Onshore Geology to Predict the Hydrocarbon Potential of a Frontier Arctic Region - The Laptev Shelf, East Arctic	43
<i>J. Barnet, O. Ralph, C. Davies, A. Davies, M. Simmons</i>	
A011 Carboniferous Paleogeography of North-eastern Siberia	48
<i>V. Ershova, A. Khudoley, A. Prokopiev</i>	
A012 Laptev Onshore to Offshore Relation	53
<i>B. Mouly, D. Franke</i>	
A013 Model of Regional Tectonics and Hydrocarbon Potential Offshore Russia and Foreign Sectors of the Black Sea - Caspian Region	57
<i>B. Senin</i>	
A014 Regional Seismoprospecting Works in Coastal Territory of Republic Dagestan and in a Shallow Zone Adjoining to it	62
<i>L. Guseinova, R. Yusufov</i>	
A015 Seismic Facies Model of the Lower Cretaceous Eastern Part of the Azov Sea	67
<i>G. Makanova, I. Shiryayeva</i>	
A016 New Approach for Building a Tectonic Model of the Black Sea Depression	72
<i>B. Senin, S. Kakaranza, A. Khortov, N. Kaymakci, E. Kozhuharov, I. Gabriel, M. Leonchik, N. Amelin, E. Petrov, B. Horn</i>	
A017 Reservoir Properties Forecasts in BS10-2+3 Layer Based on Different Geostatistical Inversion Techniques	77
<i>I. Tsybulkina, K. Filippova, P. Ponomarenko, V. Vingalov, S. Lyagushev</i>	
A018 AVA Stack Rotation as Fast Track Tool for Seismic Reservoir Characterization - A Case Study from a Pre-Caspian Basin	82
<i>A. Shestakov, A. Jangirov</i>	
A019 Biot Inversion of Microseismic Data for Permeability Estimation - A Feasibility Study	87
<i>R. Shigapov, A. Droujinine, B. Kashtan</i>	
A020 CRS Prestack Data Conditioning for Extending AVO Analysis to Low-fold and Low-quality Data Zones	92
<i>G. Gierse, J. Pruessmann, H. Trappe, G. Harms, H. Vosberg</i>	
A021 Prestack Inversion and Probabilistic Lithofluid Classification - A Case Study from the Caspian Sea	97
<i>S. Klarnar, N. Buxton, S. Benko</i>	
A023 From Rock Physics Study through Inversion to Seismic Litho/fluid Prediction - A Case Study from Precaspian Basin	102
<i>A. Jangirov</i>	

A024 Choosing Seismic Dataset with Application of Deterministic Full Stack Inversion	107
<i>K. Filippova, A. Kozhenkov, J. Debroux, D. Isakov</i>	
A025 Seismic Inversion Potential for Carbonate Reservoir Modeling, as Exemplified by Samara Region	112
<i>I. Babenko, T. Nekrasova, V. Sheppard, I. Gontarenko</i>	
A026 SGS-based Stochastic Inversion Workflow for Clastic Thin Layer Properties Recovery in Carbonate Medium	115
<i>D. Myasoedov</i>	
A027 Geology as the Main Factor in Determining the Technology Required in Seismic Inversion and Interpretation	120
<i>M. Romanenko, D. Kutcheravenko, S. Iliin, A. Dubok, D. Emel'yanov</i>	
A028 The Detailed Facial Model of Complex Clastic Reservoir Based on Geostatistical Inversion Results	125
<i>K. Filippova, P. Ponomarenko, I. Tsybulkina, V. Vingalov, S. Lyagushev</i>	
A029 Electroacoustic Logging and Joule Heating	130
<i>B. Plyushchenkov, A. Nikitin</i>	
A030 Deep Fracture Imaging Using Dipole Acoustic Data	135
<i>A. Bolshakov, D. Patterson, C. Lan</i>	
A031 Inversion of 1D VES Data Using New a Technique Called Recursive Ant Colony Optimization (RACO)	140
<i>Y. Arora, D. Gupta, J. Gupta, U. Singh</i>	
A032 The System of Adaptive Well Log Data Interpretation in Geological Modeling	145
<i>D. Kozhevnikov, K. Kovalenko, I. Deshchenkov, A. Petrov</i>	
A033 Determination of Capillary Pressures and Relative Permeabilities with Well Logging Data	150
<i>A. Petrov, D. Kozhevnikov, K. Kovalenko, I. Deshchenkov</i>	
A034 Velocity Detection by Duplex Wave Migration	155
<i>N. Marmalevskiy, S. Gorbachev, Z. Gornyak, G. Dubrova, B. Link</i>	
A035 Velocity-less Pre-stack Time Migration in Application to Hard Rock Environments	161
<i>K. Tertyshnikov, A. Bona, R. Pevzner, B. Gurevich</i>	
A036 Non-linear Analysis of Low-frequency Microseismic Background	166
<i>S. Turuntaev, O. Melchaeva</i>	
A037 Incorporation of Multiples for Migration Velocity Analysis with VSP Data	171
<i>D. Nasyrov, D. Kiyashchenko, Y. Kiselev, B. Kashtan, I. Abakumov</i>	
A038 Improved Depth Imaging by CRS Signal Enhancement in Input Shot Gathers	176
<i>G. Eisenberg-Klein, H. Trappe, G. Gierse, J. Pruessmann, M. Zehnder</i>	
A039 Band-limited Ray-tracing through Rugose Interfaces	181
<i>C. Yarman, X. Cheng, D. Nichols, K. Osypov, M. Protasov</i>	
A040 3D Velocity Model Building Based on Diffractions	186
<i>S. Dell, D. Gajewski</i>	
A041 Interval Anisotropic Parameter Estimation from Walkaway and 3D VSP Data	191
<i>E. Blais</i>	
A042 The Detalization of Difficult Constructed Objects on the Base of Seismic Processing Interpretation	196
<i>A. Nikitin</i>	
A044 Complexing of the Reflected and Refracted Waves in the Processing and Interpretation of Multichannel Marine Seismic Data	201
<i>V. Polovkov</i>	
A045 Advanced Modern Technologies for Old 3D Seismic Data Reprocessing - Case Study, Kharyaga Field	206
<i>D. Tverdokhlebov, E. Kopunov, M. Fedorov, K. Kudryavtsev, D. Isakov, N. Shchukina, A. Araman, E. Zamboni, L. Lemaistre, J. Debroux, A. Nateganov</i>	
A16b Petroleum Systems in the Okhotsk Sea Region	211
<i>L. Margulis</i>	
B002 Making Seismic Data as CSEM Data through the Backlund Transform	216
<i>J. Virieux, R. Brossier, S. Garambois, S. Operto, A. Ribodetti</i>	
B003 Quantitative Analysis of Seismic Uncertainty	221
<i>K. Osypov, D. Nichols, C. Yarman, F. Qiao, M. Woodward, N. Ivanova, Y. Yang, R. Bachrach, Y. Liu</i>	
B004 Geometric Analysis of Seismic Imaging Operators and Continuation Operators	226
<i>A. Duchkov</i>	
B005 SVD for Macro-velocity Model Reconstruction by Full-waveform Inversion	231
<i>I. Silvestrov, D. Neklyudov, V. Tcheverda</i>	

B006 Reliable Interval Q-factor Estimation from VSP Data	236
<i>E. Blias</i>	
B007 Application of Perturbation Theory to TTI Media	241
<i>A. Stovas, T. Alkhalifah, P. Golikov</i>	
B008 Krauklis Wave - Half a Century After	246
<i>V. Korneev, G. Goloshubin, B. Kashan, A. Bakulin, V. Troyan, G. Maximov, L. Molotkov, M. Frehner, S. Shapiro, R. Shigapov</i>	
B009 Monitoring of Hydraulic Fractures Using Tube Waves in a Well Generated by Krauklis Wave Coming from Fracture Tips	251
<i>G. Maximov</i>	
B010 A Frequency Dependent Ray Tracing for a Nonflat Boundary	256
<i>M. Protasov, K. Osypov</i>	
B011 Footprint of the Fine Structure of the Reservoir in Scattered Waves	261
<i>V. Cheverda, V. Khaidukov, V. Lisitsa, G. Reshetova, V. Pozdnyakov, V. Shilikov</i>	
B012 Methodology for Evaluation of Fluid Saturation of Fractured Reservoirs on the Base of 3D Simulation of Seismic Waves	266
<i>V. Pozdnyakov, V. Tcheverda, G. Reshetova, V. Shilikov, A. Tuzovskiy, A. Merzlikina</i>	
B013 Feasibility of Cross-well Hydrofracture Monitor by Accurate Numerical Simulation of Seismic Waves Propagation through Mu	271
<i>C. Economides, V. Lisitsa, G. Reshetova, V. Tcheverda</i>	
B014 Efficient Finite-difference Algorithm for Simulation of Seismic Waves in Models with Anisotropic Formations	276
<i>D. Vishnevsky, V. Lisitsa, V. Tcheverda</i>	
B015 Layer-stripping with Offset Variable Parameters Compensating for the Reflected PS-waves Splitting in an Azimuthally Anisotropic Layer	281
<i>E. Afonina, S. Gorshkalev, W. Karsten</i>	
B016 New Prospects Discovery by Geological Support of Development Drilling	286
<i>A. Dubok, T. Zhuzhel, S. Potapenko, R. Sharipov</i>	
B017 Correlation of Stratigraphic and Structural Framework of Begal Basin	291
<i>M. Jain, M. Rastogi</i>	
B019 Application of Electroprospecting Methods for the Prediction of Oil and Gas	296
<i>D. Popov</i>	
B020 Geochemical Source Rocks Evaluation and Hydrocarbons Studies in North of Dezful Embayment	301
<i>M. Daryabandeh, F. Tezheh</i>	
B021 Stratification of the Upper-Jurassic Sediments Based on 3D-seismic Survey (Middle Near-Ob' Region)	306
<i>S. Lyagushov, I. Peshkova</i>	
B022 Inversion History of the Southern Area of the Llanos Basin, Colombia	311
<i>C. Moreno-Lopez, A. Escalona</i>	
B023 Regularities of Lithofacial Variation of Productive Series Sediments of South Caspian Basin	314
<i>G. Ismailova</i>	
B024 The Influence of the Bazhenov Structure on the Reservoirs Formation on Kalchinskaya Area	319
<i>R. Khalimova, L. Chernovets, I. Rafikov</i>	
B025 Sequence Stratigraphy as a Tool for Geological Interpretation of Seismic Data - Case Studies	324
<i>E. Malysheva, V. Bykov, D. Daudina, M. Evdokimov, T. Sokolova</i>	
B027 Geological Model of Deepwater Turbidities of Tuapse Trough Based on Seismic Attributes, Spectral Decomposition and RGB	329
<i>O. Almendinger, A. Mituykov, M. Popov</i>	
B028 New Approaches to Geological and Hydrodynamical Modelling of Fractured Reservoirs in East Siberia on the Base of Complex	334
<i>V. Kharakhinov, S. Shlenkin, V. Zereninov, O. Koulishkina, A. Masjukov</i>	
B029 The Prediction of Oil-gas Perspective Reservoirs in Terrigenous Vendian and Lower Cambrian Deposits of East Siberian	338
<i>V. Mitasov, I. Kushmar, V. Kondratev</i>	
B030 Structural and Sedimentological Criteria for Traps Prediction in Miocene Deposits, Abin-Ukrainian Field	343
<i>V. Derduga, P. Zemtsov, A. Derduga, S. Kuksov</i>	
B031 Degree of the Level of Scrutiny and the Basic Directions of Prospecting Works in the Northern Part of the East Kamchatka Deflection	348
<i>N. Kulakovskiy, M. Grigoryev</i>	

C001 3D Joint Inversion of Marine Magnetotelluric and Controlled-source Electromagnetic Data	352
<i>A. Gribenko, M. Zhdanov, G. Wilson</i>	
C002 3D CSEM for Hydrocarbon Exploration in the Barents Sea	357
<i>P. Gabrielsen, D. Shantsev, S. Fanavoll</i>	
C003 Advances in Multigrad Solution of 3D Forward MCSEM Problems	362
<i>N. Yavich, C. Scholl</i>	
C004 Effective Calculation of EM Green's Functions Applied to MCSEM Forward Modelling	367
<i>A. Weng, C. Yin, Y. Liu, D. Jia</i>	
C006 Spectral Induced Polarization Measurements of Hydrocarbon-bearing Rocks and Fluids	372
<i>V. Burtman, M. Endo, T. Ingeman-Nielsen, M. Zhdanov</i>	
C007 Study of the Inductively Induced Polarization of the Near-surface in Eastern Siberia by TEM Sounding	377
<i>S. Kompaniets, N. Kozhevnikov, E. Antonov</i>	
C009 Geostatistical Estimation of Different Interpolation Techniques	382
<i>E. Kovalevskiy, M. Perepechkin</i>	
C010 A Pre-processing Workflow for Multi-point Statistics Modelling Involving Training Image Construction and Well Validation	387
<i>P. Ruelland, C. Ronot, E. Wirbel, F. Laugier, P. Biver</i>	
C011 Determination of Geological Heterogeneities Producing Formations on the Basis of Spatialtemporal Interpolation	392
<i>I. Efremov</i>	
C012 Simulation of Fault-related Small Scale Convection	397
<i>D. Dogan</i>	
C017 The Issues of Resources Provision and Methods of Solving this Question of the Layer O4, Tolkaevsko-Sorochinsk Dome, Sorochinsko-Nikolskoe Field, Orenburg Region	402
<i>N. Myakinina, E. Lopatina</i>	
C018 Application of a Digital Workflow to Integrate Geosteering and Field Development Planning	407
<i>J. Pitcher, A. Kharitonov, E. Bikchandaev, A. Alabushuin, Y. Yuvshik</i>	
C019 Reservoir Permeability and Horizontal Well Drainage Volume Identification on the Initial Stage of Field Development	412
<i>A. Semenov</i>	
C020 An Experimental Study of Aphron Based Drilling Fluids	417
<i>S. Gokavarapu, S. Gantla, J. Patel, D. Shah, N. Natreja</i>	
C021 Improved Oil Recovery of High-viscosity Oil Pools by Combined Steam Injection and Physicochemical Stimulation	422
<i>L. Altunina, V. Kuvshinov, S. Ursegov, M. Chertenkov</i>	
C022 Field Development and EOR	427
<i>N. Kurbanov</i>	
C024 Reflection of No Equilibrium Two Phase Processes of Filtration in Heterogeneous Media in the Active Seism Acoustic Borehole Monitoring Data	429
<i>O. Hachay, V. Dryagin, G. Igolkina, O. Khachay</i>	
C025 First Deep Horizontal Boreholes Drilling and Pumping for Oil Extraction at the Urubcheno-Tohomskoe Oil-gas Condensate	437
<i>A. Vakhromeev, R. Sirae, V. Ivanishin, R. Akchurin</i>	
C027 A New Chemical Additive for Preventing Shale and Marl Layers from Swelling During Well Operation	441
<i>B. Habibnia</i>	
C028 Estimation of Gas Hydrate Saturation from Sonic Log Data in the Krishna Godavari Basin, India	446
<i>D. Bhowmick, D. Gupta, U. Shankar, K. Sain</i>	
C029 Estimation of Gas Hydrate Saturation Using Rock Physics Modelling - A Case Study in the Krishna-Godavari Region	451
<i>D. Bhowmick, D. Gupta, U. Shankar</i>	
C030 Kinematic and Dynamic Characteristics of Seismic Pulses in Porous-fractured Rocks with Effective Spatial Wave Dispersion	456
<i>S. Glubokovskikh, V. Rok</i>	
C031 Rock Physics Modelling for Successful Well-log Interpretation	461
<i>L. Uspenskaya, D. Emelyanov, A. Kulik, D. Garenskih, A. Belomestnykh</i>	
C032 GIS-based Analysis for Petroleum Exploration - Case Study of Northern South America	466
<i>L. Bingham, A. Escalona, R. Zurita-Milla</i>	

C033 Prospects of Application of Geographic Information Technologies in Exploration for Oil and Gas	471
<i>V. Pozdnyakov, M. Spikin, S. Hudyakov</i>	
C034 A Ghost-free Solution for Marine Seismic Acquisition	476
<i>E. Fromyr, S. Pharez, Y. Ampilov</i>	
C035 About Seismoprospecting Works on Water Area of the Nizhnekamsk Water Basin	481
<i>I. Dagaev, V. Chernyev, E. Ignatova</i>	
C036 Comparison of Cable and Cableless Seismic Systems on Land and Marine	485
<i>Y. Roslov, V. Telbukhov, I. Kadurin, E. Zhemchuzhnikov</i>	
C037 The Example of Seismic Modeling for 3D Survey Design in Complex Geological Conditions	490
<i>S. Gorbachev, A. Titov, A. Derduga, M. Gubarev, A. Drottning</i>	
C038 Autonomous Marine Seismic Data Acquisition	495
<i>C. Walker</i>	
C039 The Use of Near-seafloor 2D HR Seismic Data in Deep Water Exploration and Geohazards Studies in the Black Sea	501
<i>M. Sharipov, D. Ismagilov, V. Kozlov, A. Terekhov</i>	
C042 Physical Properties of Oil-contaminated Sand Affected by Microbial Activity under Aerobic Conditions	506
<i>K. Titov, Y. Ilyin, P. Konosavsky, O. Orlova, O. Rybaltchenko, A. Muslimov, A. Mainault</i>	
C044 Near Surface Geophysics in Engineering Geology and Archeology	511
<i>Z. Slepak</i>	
P001 Online Tracking of Oilfield Exploitation Based on Integration of Drilling Data, Surface and Well Seismic	516
<i>V. Lensky, A. Adiyev, D. Irbakayev, T. Shapova</i>	
P002 Probability Methodology of AVO Anomalies Classification	521
<i>A. Akhverdiev, G. Efendiev, H. Guliev, P. Mamedov, J. Gomez</i>	
P004 Detailed Geological Model of Devonian Carbonate Reservoir Based on Geostatistical Full Stack Inversion	526
<i>J. Debroux, D. Isakov, K. Filippova, A. Kozhenkov, P. Ponomarenko</i>	
P005 Prediction of Neocomian Clinof orm Reservoirs in Western Siberia with Acoustic Inversion and Sequence Stratigraphy	531
<i>D. Daudina, K. Koryakova</i>	
P006 Seismic Inversion and Bandwidth Extension by Super-resolution	536
<i>A. Masjukov, S. Shlionkin</i>	
P010 Estimation of Seismic Quality Factor by Using Two Different Methods in Time Domain	541
<i>S. Joneidi</i>	
P011 High Resolution Deconvolution by Combining Fx Filtering and Cauchy Regularization	546
<i>H. Karsli, R. Guney, M. Senkaya</i>	
P012 Implementation of Double Square Root Traveltime Approximation for Converted Waves	551
<i>I. Abakumov, B. Schwarz, B. Kashtan, D. Gajewski</i>	
P013 Determination of Lateral Anisotropy of Rocks in Core	556
<i>V. Kadet, N. Dmitriev, A. Kuzmichev</i>	
P014 Electromagnetic Inspection During Oil Wells Construction and Production	561
<i>A. Miller, S. Stepanov, V. Sudnichnikov, I. Medvedeva, G. Changjiang</i>	
P015 Development of Nuclear Methods Complex for Oilfield and Geophysical Control over Oil and Gas Field Development	566
<i>V. Perelygin, A. Mashkin, K. Mashkin, O. Ryskal, A. Korotchenko, R. Gajnetdinov, V. Gluhov, A. Ognev, I. Shabiev</i>	
P016 Multi-Scale Analysis of Gamma Ray and Resistivity Logs as a New Approach for Early Flow Units Identification	571
<i>M. Shahvar, R. Kharat</i>	
P017 Frequency-energy Image of the Major Crustal Blocks of the Aldan-Stanovoy Province at the 3-DV Line Section	576
<i>E. Goshco, V. Zhabin, A. Migursky, A. Salnikov</i>	
P018 The Earth's Crust Deep Structure in the Northeastern Eurasia on Evidence Derived from Deep Seismic Sounding	581
<i>A. Salnikov, A. Efimov, V. Kuznetsov, V. Solovyev</i>	
P019 About 3D Structure of the Baikal Rift Upper Crust from DSS, Receiver Function and Local Earthquake Data	586
<i>V. Suvorov, V. Mordvinova, G. Tatkov</i>	
P020 Seismicity and Crustal Velocity Structure of the Southern Central Andes - Western Argentina	591
<i>L. Scarfi, R. Raffaele, G. Badi, J. Ibanez, S. Imposa</i>	

P021 Intermediate Decollement Lateral Change and the Geometry of the Zagros Fold-thrust Belts	596
<i>A. Saein</i>	
P022 3d Modelling of the Crust Subsurfaces and Determination of the Lineaments of Western Anatolia	599
<i>F. Altinoglu, A. Aydin, M. Ergun, R. Pinar</i>	
P023 Research of Stratum of Basalts at a Site of a Shelf of India	604
<i>A. Chernov</i>	
P024 Application of Euler Deconvolution of Gravity and Magnetic Data for Basement Depth Estimation in Mizoram Area	609
<i>G. Ghosh, A. Khanna, S. Singh</i>	
P025 Dencity Modelling - The Effective Tool for Interpretation of the Geophysical Data	615
<i>A. Chernov</i>	
P026 Seismic Investigation of the Earth's Crust of a Unique Province of Central Asia (Altai) with Deep Seismic Sounding	620
<i>A. Salnikov, V. Kuznetsov, V. Solovyev</i>	
P028 Model of Tectonic Evolution and Geodynamics of Rjazano-Saratovskij Yield	625
<i>E. Vorobieva</i>	
P030 Oil Outlook of Middle Jurassic Deposits at the Junction Zone of the Khantey Hemianteclise and the Upper Vasyugan Anteclise	629
<i>O. Zolotova</i>	
P031 The Response of Architectural Elements to Sequence Stratigraphy in Braided Fluvial System	634
<i>S. Li</i>	
P037 Changing the Oil Recovery During Deformation and Metasomatic Deposits of Hydrocarbons	639
<i>E. Gladkov</i>	
P038 The Depositional Environment of the Kolgan Petroleum Accumulation and the Creation of the Conceptual Model of the Vakhitovskoe Field, Orenburg Region	644
<i>E. Lopatina, E. Bagaeva</i>	
P039 The History of Matching Solutions on The Basis of New Fast Simulator	649
<i>Y. Kulikov, D. Kulikov</i>	
P040 Sedimentological and Diagenetic Controls on the Hamra Quartzites Reservoir Quality in the Southern Hassi Messaoud Area	654
<i>S. Benayad, Y. Park, N. Kherfi</i>	
P049 Ground Penetrating Radar in Detection of Cultural Layer at Niah, Sarawak	657
<i>I. Azwin, S. Rosli, C. Stephen, M. Nordiana, I. Hidayah, B. Andy</i>	
P050 GPR Fractures Detection Using Changeable Antennae Orientation	662
<i>T. Golebiowski, S. Tomecka-Suchon</i>	
P051 Technique and Results of Seismic Tomographic Studying in Coal Mines	667
<i>A. Salnikov, K. Dunaeva, B. Kanareikin, O. Sagaidachnya, A. Harlamov</i>	
P052 Study of the Near-surface Hydrocarbon Pollution Zones by Transient Electromagnetic Method	672
<i>T. Tokareva</i>	
P053 Multiwave Seismic Possibilities and Applications	677
<i>A. Chugayev</i>	
P054 Improved Subsurface Mapping by Enhancing Resistivity Horizontal Resolution	682
<i>M. Nordiana, S. Rosli, M. Nawawi, I. Azwin, I. Hidayah, Z. Hazreek, A. Andy, M. Saidin</i>	
P055 Features of the Forecast of Geological Conditions of Drilling of Deep Wells According to Electromagnetic Sounding	687
<i>A. Ilin, A. Vakhromeev, S. Kompaniets</i>	
P056 Application of Electroprospecting Methods for Investigation of Sedimentary Cover in South-east Asia	692
<i>I. Buddo, O. Tokareva, Y. Agafonov, V. Gomulsky</i>	
P057 Modern Method of Aeromagnetic Survey	697
<i>N. Donenova, A. Bulekov, D. Alshimbaeva</i>	
P058 Paleofacial Features and the Prospects of Oil and Gas Content of the Visean Breakouts of Udmurtsiya	700
<i>K. Budkin, V. Zorkina, E. Pogonischeva, B. Yablonovskiy</i>	
P060 Source Rock Potential and Kerogen Evaluation of Lower Permian Faraghan Formation in Zagros Basin of Iran	707
<i>M. Rashidi</i>	
P062 Marine Geophysical Work on the Justification of External Limits of the Continental Shelf	712
<i>S. Tabyrtsa</i>	

P063 Geological Controls and Variability in Pore Pressure in Deep-water Scotian Slope, Offshore Nova Scotia, Canada	717
<i>A. Maulana, T. Wydiabhakti, S. Sitorus</i>	
P066 The Lamb Method Solution for a Krauklis Wave	720
<i>R. Shigapov, B. Kashtan</i>	
P067 Krauklis Wave in a Symmetric Trilayer Model	725
<i>L. Danilovskaya, V. Korneev, G. Moridis</i>	
P068 Approximate Reflection Coefficients at a Fracture for Microseismic Needs	730
<i>R. Shigapov, A. Oelke, V. Troyan, B. Kashtan, S. Shapiro</i>	
P069 Full Solutions for Reflection and Conversion Coefficients at a Thin Fluid Layer Representing a Hydraulic Fracture	735
<i>A. Oelke, D. Alexandrov, I. Abakumov, R. Shigapov, V. Troyan, B. Kashtan, S. Shapiro</i>	
P070 Method of Obtaining High-fold Seismic Images of the Geological Environment	740
<i>V. Bondarev, S. Krylatkov, I. Kurashov</i>	
P071 Fuzzy Logic Approach on Seismic Event Location	745
<i>H. Gokalp, K. Bodur</i>	
P072 Use of 3D Computer Seismic Full Waveform Simulation for Validation of Porous-fractured Reservoirs Predictions	750
<i>J. Titova, S. Glubokovskikh, V. Rok, S. Kaplan, V. Levchenko</i>	
P074 Application of Ultrasonic Wave Technology as an Asphaltene Flocculation Inhibition Method	755
<i>I. Najafi, M. Amani, M. Mousavi, M. Ghazanfari</i>	
P077 Optimization of Waterflood and Plan for EOR Stage on Rantau Structure in North Sumatera Indonesia	760
<i>A. Badril, P. Suarsana</i>	
SP01 The Heterogeneous Characteristics of Carbonate Deposits for Example of Tengiz Oilfield, Kazakhstan	762
<i>B. Musrepova, A. Ivakhnenko</i>	
SP03 Probable Thermal Effects of Plasma Impulse Action on Reservoirs	765
<i>A. Rabbani, S. Amani</i>	
SP04 Modeling of CO₂ Solubility in Brine by Using Neural Networks	768
<i>M. Sadeghi, H. Salami, V. Taghikhani</i>	
SP05 Probable Pressure-based Effects of Plasma Action on Reservoirs	771
<i>A. Rabbani, S. Amani</i>	
SP06 Classification of the Reservoir Rocks and their Key Properties Optimal for Improved Oil Recovery Using Radial Drilling	774
<i>T. Jafarov, N. Seitova</i>	
SP07 Formula to Calculate the Definite Point Overburden Pressure of Earth Layers Using Experimental and Field Data	777
<i>M. Karimi, M. Adelzadeh</i>	
SP08 Geophysical Characterization of Subsurface Layers, Soil Competency and Corrosivity at Iganran South-west Nigeria	780
<i>G. Mosuro, M. Oloruntola, O. Bayewu</i>	
SP09 Why to Dispose, When We Can Reuse	785
<i>R. Kumar</i>	
SP10 Synchronized Exploration and Production of Coal Bed Methane with Oil & Natural Gas by the Application of Remote Sensing	789
<i>S. Kesh, A. Verma, N. Singh</i>	
SP11 A New View of the Theory of Oil and Coal Deposits Formation	792
<i>M. Zhumabekov, R. Dzhumagaliev, A. Dyusengalieva, G. Taumanova</i>	
SP12 Effect of Salinity on the Interfacial Tension of Crude Oil	795
<i>B. Kumar, E. Baydak</i>	
SP13 Analysis of Developing Offshore Fields in the Russian Continental Shelf	798
<i>K. Bulaeva</i>	
SP14 Risk Analysis & Economic Geology	800
<i>Z. Baybusinova</i>	
SP15 Accurate Hypocenter Determination in Lesser Antilles Region from the Sismantilles I Experiment	805
<i>R. Raffaele, M. Sapin, M. Laigle, L. Scarfi, P. Charvis, J. Diaz, S. Imposa</i>	
SP16 Structural & Stratigraphic Interpretation of Migrated Seismic Sections of Fortabbas Area, Punjab Platform, Pakistan	808
<i>G. Sohail</i>	

SP17 Preliminary Results of Geophysical Investigations in Podvodnikov Basin - Central Arctic	811
<i>O. Smirnov</i>	
SP18 Seismic Sequence, Tectonic History and Petroleum Potential of North Part of Kaymysovsk Vault	814
<i>A. Medved</i>	
SP19 Exponential Finite Difference Method for Simulation of Electromagnetic Response of Layered Earth	817
<i>P. Jaysaval, P. Gupta</i>	
SP20 Verification with Variogram of Gravity Survey Network to Delineate Moghan Region in Iran	820
<i>E. Karimifard, V. Ardestani</i>	
SP21 New Features in the Seismic Data Processing for High-fold Imaging	823
<i>I. Kurashov, V. Bondarev</i>	
SP22 Seismic Coring	826
<i>M. ElRahman, A. Aboelros</i>	
Author Index	