

**01 Geoinformatics - an Innovative View of the Earth**

(17492 - oral) Lidar photography – as a source for filling the 3D cadastre and the BIM database \***D. S. Naumovych** (*National Aviation University*), **V. I. Zatserkovnyi** (*Taras Shevchenko National University of Kyiv, Institute of Geology*), **O. Ye. Nikolaienko** (*National Aviation University*), **V. V. Koval**, **Ye. V. Leviscenko** (*The Military and Research Office of the General Staff of the Armed Forces of Ukraine*)

(17532 - oral) Use of geoinformation technology to study the structure and morphometric parameters of river basins **M. M. Prykhodko**, **V. V. Romaniuk**, **D. V. Kukhtar**, **I. L. Bodnaruk**, \* **M. V. Adamovych** (*Ivano-Frankivsk National Technical University of Oil and Gas*)

(17554 - oral) Problems of registration of geological sites (monuments) in the State Land Cadastre \***L. V. Samoilenko**, **V. I. Zatserkovnyi** (*Taras Shevchenko National University of Kyiv, Institute of Geology*)

(17600 - oral) The Experience of Modeling Magmatogenic Ore Systems on the Example of Zhumba Quartz-Vein Deposit, East Kazakhstan \***V. I. Zatserkovnyi** (*Taras Shevchenko National University of Kyiv, Institute of Geology*), **M. A. Mizernaya** (*D. Serikbayev East Kazakhstan state technical university*), **G. B. Orazbekova** (*D. Serikbayev East Kazakhstan state technical university*), **A. P. Miroshnikova** (*D. Serikbayev East Kazakhstan state technical university*)

(17621 - poster) Using of Landsat space images to study the dynamic of coastline changes in the Black Sea north-western part in 1983-2013 \***E. A. Cherkez**, **V. I. Medinets**, **T. V. Pavlik**, **Ye. I. Gazyetov**, **S. V. Medinets**, **T. V. Kozlova** (*Odessa National I. I. Mechnikov University*)

(17704 - poster) Geoelectrical heterogeneities of the crust and upper mantle of the territory of Ukraine **A. Kushnir**, **T. Burakhovych**, \***V. Ilyenko**, **B. Shyrkov** (*Institute of Geophysics NAS of Ukraine, Kyiv, Ukraine*)

(17721 - oral) Determining of the effects of groundwater regime on the status of architectural monuments of Kyiv-Pechersk Lavra \***V. M. Hudak** (*Taras Shevchenko National University of Kyiv, Institute of Geology*), **I. A. Cherevko** (*National Kyiv-Pechersk Historical and Cultural Reserve*), **V. I. Zatserkovnyi**, **V. I. Ostroukh**, **A. V. Ilchenko** (*Taras Shevchenko National University of Kyiv*)

(17754 - oral) Analysis of the accuracy of the orthophoto map building according to aerial photography results executed with UAV \***V. I. Zatserkovnyi**, **S. D. Kryachok**, **L. S. Mamontova**, **B. Popkov** (*Taras Shevchenko National University of Kyiv*), **I. Chepkov** (*The Central Scientific Research institute of Armament and Military Equipment of the Armed Forces of Ukraine*)

(17818 - poster) The use of geoinformation technologies for visualization the features of the underwater terrain of the Antarctic Territories and the geological processes which contributed to its formation **M. D. Krochak**, **M. V. Bandurenko**, \***V. I. Holoborodko**, **Y. I. Voropai** (*Institute of Geology of the Taras Shevchenko National University of Kyiv*)

(17934 - poster) Survey results on students interest in geological sciences **H. A. Liventseva** (*Chairman of the Board of Public Organization Ukrainian Association of Geologists*)

(17980 - oral) The theory of information providing for researches and works on geological environment management \***D. P. Khrushchov** (*Institute of Geological Sciences of NASU*), **V. V. Dolin** (*Institute of Environmental Geochemistry of NASU*), **S. V. Goshovski** (*Ukrainian State Geological Research Institute*), **O. O. Remezova** (*Institute of Geological Sciences of NASU*), **V. Ye. Goncharov** (*Free geologist*), **O. T. Azimov** (*Scientific Centre for Aerospace Research of the Earth, IGS of NASU*), **O. L. Shevchenko** (*Taras Shevchenko National University of Kyiv*), **L. P. Bosevska** (*Ukrainian Research Institute of the Salt Industry*), **O. P. Lobasov** (*Free geologist*), **O. V. Yaremenko** (*Institute of Geological Sciences of NASU*)

(18132 - oral) Methods for mapping and assessment drivers of change effects on terrestrial and marine ecosystem services in Lithuania \***E. Gomes**, **M. Inácio**, **K. Mikša**, **M. Kalinauskas**, **P. Pereira** (*Environmental Management Center, Mykolas Romeris University, Lithuania*)

(18143 - poster) Retrospective monitoring of changes in land areas under the quarries of the «Mokryanskogo deposit II» based on the analysis of different space images \***A. V. Skorobahatko**, **I. M. Baysarovych** (*Taras Shevchenko National University of Kyiv*), **M. S. Kovalchuk** (*Institute of Geological Sciences Academy of Sciences of Ukraine*), **V. V. Babiy** (*National Aviation University*)

(18148 - oral) Seven-year cyclicity manifestations in groundwater mode revealed by wavelet analysis \***O. Shevchenko** (*Taras Shevchenko National University of Kyiv, 90 Vasylkivska Str. , Kyiv, 03022 Ukraine*), **A. Skorbun** (*Institute for Safety Problems of Nuclear Power Plants NAS of Ukraine, Kirova str. , 36a, Chornobyl, 07270, Ukraine*), **D. Charnyi** (*The institute of Environmental Geochemistry of National Academy of Sciences of Ukraine, Palladin av. 34-A, Kyiv – 142, MCP 03680, Ukraine*)

(18268 - oral) Interactive map of the nature reserve fund of Ukraine in the Poltava region as an innovative measure of environmental monitoring **E. Bondarenko** (*Kyiv Taras Shevchenko National University*), \***M. Kyryliuk** (*Institute of Geography, NAS of Ukraine*)

(18273 - poster) Using the TAR3D program for 3D data visualization in geoelectric studies. \***V. N. Tarasov**, **I. M. Logvinov** (*Institute of Geophysics NAS of Ukraine*)

(18319 - poster) Structure of the "Relict continental dunes" GIS geodatabase as the basis of unification, systematization and analysis of information \***L. Dubis** (*Ivan Franko National University of Lviv, Lviv, Ukraine; The John Paul II Catholic University of Lublin, Lublin, Poland*), **N. Habchak** (*State High Educational Institution «Uzhhorod National University», Uzhhorod, Ukraine*), **S. Bortnyk**, **V. Zatserkovnyi** (*Taras Shevchenko National University of Kyiv, Kyiv, Ukraine*), **Yu. Andreychuk** (*Ivan Franko National University of L'viv, L'viv, Ukraine; L'viv Polytechnic National University, L'viv, Ukraine*)

(18409 - poster) Seismic tomographic model along the geotraverse VI profile **D. V. Lysynchuk**, \***L. V. Farfuliak**, **K. V. Kolomiets** (*Institute of Geophysics, National Academy of Sciences of Ukraine, Kiev, Ukraine*), **O. V. Kolomiets** (*VM Glushkov Institute of Cybernetics, National Academy of Sciences of Ukraine, Kiev, Ukraine*)

(18442 - poster) Use of spatial morphometric analysis of the Zmiinyi island underwater slope relief to reveal tectonic movements in Holocene \***E. A. Cherkez**, **O. A. Pogrebnaya**, **V. I. Medinets**, **T. V. Kozlova**, **Ye. I. Gazyetov**, **S. V. Medinets** (*Odesa National I. I. Mechnikov University*)

(18448 - oral) "Paleogeomorphological atlas" as a way to accumulate generalized and obtain new information «historical-dynamic morphosystem of the Earth» \***O. O. Komliev**, **S. Yu. Bortnik** (*Taras Shevchenko National University, Ukraine; Uniwersytet Yana Kochanovskiego w Kielcach, Poland*), **E. O. Revezova** (*Geological Institute of National Academy of Sciences of Ukraine, Ukraine*), **S. V. Zhylkin** (*Institute of Geography of National Academy of Sciences of Ukraine, Ukraine*), **N. M. Pogorilchuk** (*Taras Shevchenko National University, Ukraine*), **Yu. M. Filonenko** (*State University by Nicolay Gogol, Nezhin, Ukraine*)

(18481 - poster) The crustal structure of the transition from the East Black Sea Basin to the Shatsky Ridge from reinterpretation of existing refraction seismic profiles 14-15-16 **T. Yegorova**, **E. Baranova**, **A. Murovskaya**, \***L. Farfuliak** (*Institute of Geophysics of National Academy of Sciences of Ukraine*), **K. Repina** (*Donetsk National Technical University*)

(18361 - oral) Technology of Frequency Resonance Processing of Satellite Images: Results of Testing on gold deposits and areas of gold ore occurrences

**M. Yakymchuk** (*Institute of Applied Problems of Ecology, Geophysics and Geochemistry*), \***I. N. Korchagin**, \***G. Drogitskaya** (*Institute of Geophysics of Ukraine National Academy of Science*)

## 02 Geoinformation Researches for Petroleum Exploration

(17135 - oral) Recommendations for wells drilling in the unfavorable structural-tectonic conditions **S. Vyzhva** (*Taras Shevchenko National University of Kyiv Institute of Geology*), **I. Solovyov**, **V. Kruhlyk**, \***G. Lisny** (*Geounit LLC*)

(17273 - poster) Decision-making on increasing the efficiency of well operation using the gas-lift method \***R. H. Kuliyeu** (*Institute of Geology and Geophysics of Azerbaijan National Academy of Sciences*), **G. M. Efendiyev** (*Institute of Oil and Gas of Azerbaijan National Academy of Sciences*)

(17949 - oral) Geomagnetic studies at Rubaniv gas field in outer zone of Carpathian Foredeep, Ukraine **V. Maksymchuk**, **R. Kuderavets** (*Carpathian Branch of Subbotin Institute of Geophysics of the NAS of Ukraine*), \***O. Menshov** (*Taras Shevchenko National University of Kyiv*), **P. Bodlak**, **I. Chobotok**, **Y. Nakalov**, **N. Pyrizhok** (*Carpathian Branch of Subbotin Institute of Geophysics of the NAS of Ukraine*)

(17998 - poster) Seismic-facies research in the southern near-flank zone of the Dnieper-Donets basin \***N. I. Nesina**, **V. V. Ohar** (*Institute of Geology Taras Shevchenko National University of Kyiv*)

(18121 - poster) Total Organic Carbon and Gamma Radioactivity Distribution of the Rudov Beds Formation within the Area Adjusted to Yablunivske O&G Field (Dnieper-Donets Basin) \***O. Karpenko** (*Taras Shevchenko National University of Kyiv*), **V. Ogar** (*Taras Shevchenko National University of Kyiv*), **I. Karpenko** (*Naftogaz Group*)

(18142 - poster) Experience of the 3D interpretation of gravity data in the southeast of Volyno-Podillya **S. G. Anikayev**, **B. B. Hablovskiy**, **S. E. Rozlovska**, **M. V. Shtogryn**, \***A. E. Zagray** (*Institute of Tourism and Geosciences*)

(18145 - poster) The experiences with anisotropic averaging transformation of gravity and magnetic fields (on the example of the southeast part of Ukrainian Carpathians) **S. G. Anikeyev, S. E. Rozlovska, B. B. Hablovskyi, M. V. Shtogryn, \*M. O. Karpenko** (*Institute of Tourism and Geosciences*)

(18213 - oral) Estimation of the pore space structure of tight gas reservoirs of the Moscovian stage locates in DDB Eastern part using a limited well logging dataset. **\*O. V. Oliinyk** (*JSC "Ukrigasvydobuvannya"*), **V. V. Antoniuk, I. M. Bezrodna** (*Institute of Geology, Taras Shevchenko National University of Kyiv*), **N. V. Rusachenko** (*JSC "Ukrigasvydobuvannya"*)

(18279 - poster) The influence peculiarities of the chemical composition of washing liquids on the results of electrical and acoustic methods **O. N. Trubenko, D. D. Fedoryshyn, \*R. O. Marynchak, S. D. Fedoryshyn, A. O. Trubenko** (*Ivano-Frankivsk National Technical University of Oil and Gas*)

(18424 - poster) The use of integrated geological, geophysical and technological information to divide a section into homogeneous intervals and make decisions when drilling wells **\*I. A. Piriverdiyev** (*Institute of Oil and Gas of Azerbaijan National Academy of Sciences*)

(18452 - oral) Identification of non-structural traps based on AVO-analysis and Elastic Inversion within the northern edge of the Dnieper-Donets Depression **\*P. Kuzmenko** (*SE "Naukanaftogaz", Taras Shevchenko National University of Kyiv*), **I. Mykhalevych** (*LLC "Cub Gaz"*), **S. Vyzhva** (*Taras Shevchenko National University of Kyiv*)

(17648 - oral) On the prospects of hydrocarbon and hydrogen accumulations detecting within local areas of Ukrainian shield **M. Yakymchuk** (*Institute of Applied Problems of Ecology, Geophysics and Geochemistry*), **\*I. N. Korchagin** (*Institute of Geophysics, NAS of Ukraine*)

(17666 - oral) The most expensive "dry" exploratory well in the history of the oil industry: reasons of failure based on data of direct-prospecting methods application **M. Yakymchuk** (*Institute of Applied Problems of Ecology, Geophysics and Geochemistry*), **\*I. N. Korchagin** (*Institute of Geophysics, NAS of Ukraine*)

(18362 - oral) Results of reconnaissance studies for hydrocarbon deposits within some districts in Northern Ukraine **M. Yakymchuk** (*Institute of Applied Problems of Ecology, Geophysics and Geochemistry*), **\*I. N. Korchagin, \*T. Mikheeva** (*Institute of Geophysics of Ukraine National Academy of Science*)

(18364 - oral) On the prospects of hydrocarbon accumulations detection in traditional reservoirs in deep horizons of cross-section within shale gas production areas **M. Yakymchuk** (*Institute of Applied Problems of Ecology, Geophysics and Geochemistry*), **\*I. N. Korchagin** (*Institute of Geophysics of Ukraine National Academy of Science*)

### 03 Geoinformation Researches for Mineral Exploration

(17773 - oral) Three-dimensional model as the basis for exploration planning (as an example, the Prutivka copper-nickel deposit) **N. Bariatska** (*Geological Service Company LLC*)

(17839 - oral) The use of retrospective data for creating 3D models on the example of the Balakhivka graphite deposit **N. Safronova** (*Geological Service Company LLC*)

(17946 - poster) Retrospective monitoring of changes in land areas under the quarries of the Irshan Mining Plant based on the analysis of different space images \***S. I. Tymchenko** (*Taras Shevchenko National University of Kyiv*), **M. S. Kovalchuk** (*Institute of Geological Sciences Academy of Sciences of Ukraine*), **I. M. Baysarovich** (*Taras Shevchenko National University of Kyiv*)

(18137 - poster) 3-D «geochemical» modelling of molybdenum mineralization at the East flank of Serhiivka complex Au-Mo deposit **V. Sukach** (*Institute of geochemistry, mineralogy and ore formation, NAS of Ukraine*), \***O. Hrinchenko** (*Institute of Geology, Taras Shevchenko national university of Kyiv, Ukraine*), **I. Antykhovych** (*Halliburton, Houston, TX, USA*), **L. Riazantseva** (*State Enterprise «Pivdenukrgeology», Dnipro, Ukraine*)

(18309 - poster) New (?) calcium-thorium-uranium silicate (calciothorouranite) from thorium-uranium ore albitites from the Novooleksivka ore occurrence, the Ukrainian Shield \***I. Mihalchenko** (*State Institution "The Institute of Environmental Geochemistry of National Academy of Sciences of Ukraine"*), **A. Andreev** (*Taras Shevchenko National University of Kyiv, Educational-Research Institute "Institute of Geology"*)

(18420 - poster) Inner structure and kinematic of the Mankivska fault zone **S. V. Mychak**, \***L. V. Farfuliak**, **A. V. Marchenko** (*Institute of Geophysics, National Academy of Sciences of Ukraine, Kiev, Ukraine*), **V. M. Belskyi** (*M. P. Semenenko Institute of geochemistry, mineralogy and ore formation of the National Academy of sciences of Ukraine*)

(18292 - oral) The use of 2D/3D GIS software for exploration purposes: case studies from Canada and Ukraine \***K. Poliakovska** (*Taras Shevchenko National University of Kyiv - Institute of Geology*), **I. R. Annesley** (*Université de Lorraine - École Nationale Supérieure de Géologie*), **O. Ivanik** (*Taras Shevchenko National University of Kyiv - Institute of Geology*), **J. Sykes** (*Appia Energy Corp.*), **K. Pandur** (*First Geolas Consulting*)

(18428 - poster) Peculiarity of inelastic properties of sedimentary SiO<sub>2</sub>, foam polystyrene \***A. P. Onanko**, **D. V. Charnyi**, **Y. A. Onanko**, **M. P. Kulish**, **O. P. Dmytrenko**, **R. V. Homenko** (*Taras Shevchenko National University of Kyiv*)

(18429 - poster) Peculiarity of elastic characteristics of sedimentary SiO<sub>2</sub>, zeolite, foam polystyrene \***A. P. Onanko**, **D. V. Charnyi**, **Y. A. Onanko**, **M. P. Kulish**, **O. P. Dmytrenko**, **S. A. Popov** (*Taras Shevchenko National University of Kyiv*)

(18499 - oral) GIS technology in the geological and technological modeling of iron ore deposits \***O. V. Plotnikov** (*Kryvyi Rih National University*), **M. M. Kurylo** (*Taras Shevchenko National University of Kyiv*), **V. S. Stapay** (*Kryvyi Rih National University*)

(18503 - poster) Stratification analysis of productive layers of BIF deposits based on Markov chain theory \***O. V. Plotnikov** (*Kryvyi Rih National University*), **M. M. Kurylo** (*Taras Shevchenko National University of Kyiv*), **V. S. Stapay** (*Kryvyi Rih National University*)

(18363 - oral) The results of testing methods of frequency resonance processing of satellite images within areas of technical micro-diamonds (lonsdalite) deposits location **M. Yakymchuk** (*Institute of*



*Applied Problems of Ecology, Geophysics and Geochemistry*), \***I. N. Korchagin** (*Institute of Geophysics of Ukraine National Academy of Science*)

**04 Creation of Integrated Databases for Effective Nature Management and Administration**

(17718 - oral) A first attempt at the regional implementation of a geoarchaeological site database for Ukraine: study areas of the Volyn' Upland and the Transcarpathian Lowland \***O. S. Bonchkovskiy, N. P. Gerasimenko** (*Taras Shevchenko National University of Ukraine*)

(17815 - poster) Geoinformation Assessment of Kanivsky Prydniprov'ye Paleorelief by Structural Morphometry \***L. V. Tustanovska, O. M. Ivanik** (*Institute of Geology*), **T. V. Shovkoplyas** (*Faculty of Mechanics and Mathematics*), **K. P. Hadiatska, Y. A. Krucheniuk** (*Institute of Geology*)

(17979 - poster) Formation of cadastral data on the Nikolaevskii wolframite mineralization (Right-Bank Region of the Ukrainian Shield) **S. P. Lashko** (*Kremenchuk Mykhailo Ostrohradsky National University*)

(18366 - oral) Analysis of approaches for "Geological heritage of Ukraine" geo-portal creation **V. I. Zatserkovnyi, \*D. P. Trofymenko** (*Taras Shevchenko National University of Kyiv*), **L. V. Ilyin** (*Lesya Ukrainka Eastern European National University*), **N. V. Trofimenko, V. Hotko** (*Taras Shevchenko National University of Kyiv*)

(18378 - poster) Geoportal GGID of NJSC "Naftogaz of Ukraine" - use of geological and geophysical information by means of geoinformation technologies **S. Halyuk, \*V. Antonyshyn, L. Yakushyn, L. Melnyk** (*SE "Naukanaftogaz"*), **A. Koval** (*NJSC "Naftogaz of Ukraine"*)

(18470 - oral) Methodological principles of creation of the integrated database of geological and geomorphological monuments of Ukraine \***S. Yu. Bortnyk** (*Taras Shevchenko National University of Kyiv, Ukraine; Jan Kochanowski University in Kielce, Poland*), **V. V. Stetsyuk, N. P. Gerasimenko, O.O. Komliev, O.V. Kovtoniuk, T. M. Lavruk, O. M. Pidkova, N.M. Pohorilchuk, O.S. Bonchkovskiy** (*Taras Shevchenko National University of Kyiv*)

**05 Geological Modeling**

(17403 - oral) Multifactor mathematical modelling of ecological and economic systems (the example of coal mining development) \***L. Horoshkova** (*Zaporizhzhya National University*), **I. Khlobystov** (*National university of "Kyiv-Mohyla academy"*), **B. Danylyshyn** (*Kyiv National Economic University named after Vadym Hetman*)

(17404 - oral) Modelling of resource flows in the coal industry of Ukraine \***L. Horoshkova** (*Zaporizhzhya National University*), **I. Khlobystov** (*National university of "Kyiv-Mohyla academy"*), **V. Volkov** (*Zaporizhzhya National University*)

(17426 - poster) Niobium and titanium in the thorium-uranium albitites of the Novooleksiivka ore occurrence (Ukrainian shield) \***I. Mihalchenko** (*State Institution "The Institute of Environmental Geochemistry of the National Academy of Sciences of Ukraine"*), **A. Andreev** (*Taras Shevchenko National University of Kyiv, Educational-Research Institute "Institute of Geology"*), **V. Zagorodniy** (*Physical-Chemical Materials Science Center National Academy of Sciences of Ukraine*)

(17523 - oral) Model of the new gold deposit Mananila (Tanzania) \***V. Mykhailov**, **O. Andreeva**, **O. Omelchuk** (*Institute of Geology of Taras Shevchenko National University of Kyiv*)

(17603 - poster) Comprehensive environmental monitoring based on aerospace and ground research data \***V. Trysnyuk**, **V. Prystupa**, **T. Trysnyuk**, **V. Vasylenko**, **A. Kurylo** (*Institute of Telecommunications and Global Information Space of the National Academy of Sciences of Ukraine*)

(17605 - poster) Improvement of the complex evaluation method of vital activity risks \***V. Trysnyuk** (*Institute of Telecommunications and Global Information Space of the National Academy of Sciences of Ukraine*), **O. Demydenko** (*State Enterprise «Ukrainian Research and Training Center for Standardization, Certification and Quality»*), **K. Smetanin** (*Zhytomyr Military Institute of SP Korolev*), **A. Zozulia** (*Institute of Telecommunications and Global Information Space of the National Academy of Sciences of Ukraine*)

(17674 - poster) Paleomagnetism of volcanic rocks of the Volynian series from Podolia (SW Ukraine) \***I. Poliachenko**, **S. Cherkes**, **D. Hlavatskyi** (*National Academy of Sciences of Ukraine, Institute of Geophysics*)

(17756 - oral) Gabbroid intrusions of Wilhelm Archipelago, West Antarctica \***O. V. Mytrokhyn** (*Taras Schevchenko National University of Kyiv, Institute of Geology*), **V. G. Bakhmutov** (*Institute of Geophysics, National Academy of Sciences of the Ukraine*), **A. G. Aleksieienko**, **T. V. Mytrokhina** (*Taras Schevchenko National University of Kyiv, Institute of Geology*.)

(17810 - poster) Geospatial data on the distribution of silicon and aluminum in the thickness of shungite rocks of the Mlynkovskii area (Ukrainian Shield) \***S. P. Lashko** (*Kremenchuk Mykhailo Ostrohradsky National University*), **V. G. Yatsenko**, **V. V. Pokalyuk**, **L. P. Zaborovskaya** (*Institute of Environmental Geochemistry of the National Academy of Sciences of Ukraine*)

(17885 - oral) Seismic and density heterogeneity distribution in the earth crust of the White Sea Region \***L. I. Bakunovich**, **B. Z. Belashev**, **M. Yu. Nilov**, **N. V. Sharov** (*FGBUN FIC Karelian Research Centre, Russian Academy of Sciences Institute of Geology, Petrozavodsk*)

(17988 - poster) Identification of geological facilities of productive deposits at oil and gas field by geophysical research data \***I. Piatkovska**, **I. Fedak**, **Y. Koval** (*Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk*)

(18024 - oral) Estimation of neotectogenesis factors of the Middle Dnieper region by structural-morphometric method \***L. V. Tustanovska**, **V. V. Shevchuk**, **O. M. Ivanik**, **K. P. Hadiatska**, **S. G. Volkova** (*Institute of Geology*)

(18043 - poster) Morphology of native copper crystals as component in modeling the mineral formation process **I. V. Kvasnytsia** (*Taras Shevchenko National University of Kyiv, Educational and Scientific Institute "Institute of Geology"*)

(18074 - oral) Specialized GIS for construction and analysis of digital models of regional line geological objects. Visualization means. \***I. P. Dolinskiy** (*SE «Naftogaz»*), **A. P. Lobasov** (-), **A. A. Haharin** (*National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"*)

(18286 - poster) A new scheme of tectonic zoning of the lithosphere upper part of the Pre-Caspian depression **V. S. Druzhinin** (*Institute of Geophysics Ural Branch the RAS*), **N. I. Nachapkin** (*Institute of Geophysics Ural Branch the RAS*), **V. Yu. Osipov** (*Institute of Geophysics Ural Branch the RAS*), \***L. A. Muravyev** (*Institute of Geophysics Ural Branch the RAS, Ural Federal University*)

(18365 - oral) The Application Of Spatial Analysis And GIS Modeling At The Stage Of Solving The Reverse Problem In Mathematical Modeling Of Geofiltration \***O. Koshliakov**, **O. Dyniak**, **I. Koshliakova** (*Taras Shevchenko National University of Kyiv*)

(18391 - oral) 3D geological modeling for mineral resource assessment of the Galeshchynske iron ore deposit, Ukraine **O. Ivanik**, \***D. Vasiukhina** (*Taras Shevchenko National University of Kyiv*)

(18450 - oral) Modeling of the potential fields transformants for the ring structure Illinetska \***Y. I. Dubovenko**, **O. A. Chorna** (*Institute of Geophysics by S. I. Subbotin NAS of Ukraine*), **M. P. Kuzminets** (*National Transport University*)

(18456 - oral) Seismic velocity gradient stratification of the mantle at Ukrainian Shield \***Y. I. Dubovenko**, **L. A. Shumlianska** (*Institute of Geophysics by S. I. Subbotin NAS of Ukraine*), **M. P. Kuzminets** (*National Transport University*)

(18509 - poster) Factoring of radioactive properties and composition of sedimentary rocks of Runovschyna Area for the purposes of lithological and facial subdivision **R. M. Bukatyuk** (*Institute of Geology, Taras Shevchenko National University of Kyiv*), **S. A. Vyzhva**, **O. V. Shabatura**, **V. I. Onyshchuk**, **I. I. Onyshchuk** (*Institute of Geology, Taras Shevchenko National University of Kyiv*)

(18500 - oral) Structural analogies and homologues of the West Mediterranean and circum-Black Sea regions tectonic tailoring: Re-evaluating the uniform tectonic development model \***A. Kitchka** (*SE NaukaNaftogaz, Naftogaz Group, Ukraine*), **A. Tyshchenko** (*Institute of Geology, Taras Shevchenko National University of Kyiv, Ukraine, SE NaukaNaftogaz, Naftogaz Group, Ukraine*), **P. Kuzmenko** (*Institute of Geology, Taras Shevchenko National University of Kyiv, Ukraine, SE NaukaNaftogaz, Naftogaz Group, Ukraine*)



## 06 Mathematical Methods and Computer Technologies in Geophysics and Geology

(17272 - oral) Estimation of low frequency phase velocity dispersion in weak contrast periodic media \***Yu. Roganov** (*Tesseral Technologies Inc. , Ukraine*), **A. Stovas** (*NTNU,Trondheim*), **V. Roganov** (*Glushkov Institute of Cybernetics, Ukraine*)

(17436 - oral) New methods to determine basic probability assignment and data fusion in Hyperspectral Image Classification \***M. I. Alpert** (*National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute", Department-FICT, Ukraine*), **S. I. Alpert** (*"Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Science of the National Academy of Sciences of Ukraine"*)

(17450 - oral) Anisotropy parameters for monoclinic media \***A. Stovas** (*NTNU, Norway*), **Y. Roganov** (*Tesseral, Ukraine*), **V. Roganov** (*Glushkov Institute, Ukraine*)

(17491 - oral) Modeling of pushing processes in anisotropic low permeable oil reservoirs \***M. V. Lubkov** (*Poltava Gravimetric Observatory of NASU*), **O. O. Zaharchuk** (*National University "Poltavska Politehnika of Yuriy Kondratyuk"*)

(17495 - oral) Modeling of pushing processes in anisotropic low permeable gas reservoirs **M. V. Lubkov** (*Poltava Gravimetric Observatory of NASU*)

(17637 - poster) Use of mathematical methods to determine the ichnofossils species composition \***A. Sh. Mienasova**, **M. D. Krochak** (*Taras Shevchenko National University of Kyiv, Ukraine*)

(17656 - oral) A seasonal dependence of the earthquake number in the Earth crust \***A. Kazantsev**, **L. Kazantseva** (*Kyiv National Taras Shevchenko University*)

(17830 - poster) Electrometry effective inverse problem solving method **M. L. Myrontsov** (*Institute of Telecommunications and Global Information Space, National Academy of Sciences of Ukraine*)

(17831 - poster) Lateral logging sounding and lateral logging complex effective inverse problem solving method **M. L. Myrontsov** (*Institute of Telecommunications and Global Information Space, National Academy of Sciences of Ukraine*)

(17966 - poster) Solving the three-dimensional linear magnetometry problem on GPU \***E. N. Akimova** (*Ural Federal University and Krasovskii Institute of Mathematics and Mechanics of UrB RAS*), **V. E. Misilov** (*Ural Federal University and Krasovskii Institute of Mathematics and Mechanics of UrB RAS*), **V. O. Miftakhov** (*Ural Federal University*)

(17967 - poster) Simulation of Water Filtration in a Geothermal Doublet **M. Yu. Filimonov** (*Ural Federal University and Krasovskii Institute of Mathematics and Mechanics of UrB RAS*), \***E. N. Akimova** (*Ural Federal University and Krasovskii Institute of Mathematics and Mechanics of UrB RAS*), **V. E. Misilov** (*Ural Federal University and Krasovskii Institute of Mathematics and Mechanics of UrB RAS*), **N. A. Vaganova** (*Ural Federal University and Krasovskii Institute of Mathematics and Mechanics of UrB RAS*)

(18009 - oral) Formation regularities of liquid body of Dombrovsky quarry \***Y. Malkova** (*Taras Shevchenko National University of Kyiv*), **V. Dolin**, **Y. Yakovlev** (*State Institution "Institute of Environmental Geochemistry of NAS of Ukraine"*)

(18062 - oral) An Approach for Anomaly Detection in GPR Data using Machine Learning Techniques \***M. Ozkan-Okay**, **R. Samet** (*Ankara University*), **S. Stirenko** (*National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"*)

(18087 - poster) Software for calculating X-ray fluorescence fluxes of chemical elements from individual microcrystals of accessory minerals. \***A. Bunkevich**, **A. Andreev**, **E. Meshcheryakova**, **S. Shnyukov** (*Taras Shevchenko National University of Kyiv*)

(18089 - poster) Modeling of the riverside groundwater intakes exploitation taking into account of the stream flow changes \***S. V. Telyma** (*Institute of hydromechanics, NAS of Ukraine*), **O. S. Voloshkina** (*Kyiv national university of construction and architecture*), **YU. O. Berezhnytska** (*Kyiv national university of construction and architecture*), **V. M. Efimenko** (*National Taras Shevchenko University of Kyiv*)

(18141 - poster) Transformation of a spherically symmetric model of Earth's mass one-dimensional distribution PREM to a hydrostatic state **M. M. Fys**, **A. L. Tserklevych**, \***B. B. Dzhuman** (*Lviv Polytechnic National University, Lviv, Ukraine*)

(18162 - poster) The evolution of dilatant inclusion by the analogy with the geometric application of the Ricci flow \***V. A. Pyankov**, **A. L. Rublev** (*Institute of Geophysics, Ural Branch of RAS*)

(18185 - poster) Construction of the Earth's crust rheological boundaries based on a complex solution of inverse problems of magnetometry and gravimetry \***V. A. Pyankov** (*Institute of Geophysics, Ural Branch of RAS*), **A. L. Rublev** (*Institute of Geophysics, Ural Branch of RAS*)

(18188 - oral) Digital field geology \***I. M. Bubniak** (*Institute of Geodesy National University Lviv Polytechnic*), **A. M. Bubniak** (*Consulting Geologist*), **O. D. Gavrilenko** (*D. Serikbayev East-Kazakhstan State Techbical University*)

(18214 - oral) A Methodology to Complete and Visualize the GPR Data \***R. Samet**, **M. Ozkan-Okay** (*Ankara University*), **O. P. Markovskiy** (*National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"*)

(18246 - poster) Petrophysical determination model of the collector points by the gamma-gamma-density results and gamma-spectrometric methods **Y. M. Femyak**, **V. V. Fedoriv**, \***R. O. Marynchak** (*Ivano-Frankivsk National Technical University of Oil and Gas*)

(18288 - oral) Analysis of Elastic Symmetry and Anisotropy of Crystalline shales of the Pishchanska iron-ore structure **I. M. Bezrodna** (*Taras Shevchenko National University of Kyiv*), **D. A. Bezrodnyi** (*Taras Shevchenko National University of Kyiv*), \***V. V. Svystov** (*Taras Shevchenko National University of Kyiv*), **A. P. Gozhyk** (*Taras Shevchenko National University of Kyiv*)

(18360 - poster) Modeling of stationary radon transfer in a layered geological media to determine the transmission distance of emanating \***O. V. Shabatura** (*Institute of Geology, of Taras*)

*Shevchenko National University of Kyiv*), **O. V. Nozhenko** (*Institute of Environment Geochemistry NAS of Ukraine*), **A. I. Yakimchyk** (*Institute of Geophysics by S. I. Subbotin name, Kyiv, Ukraine*)

(18379 - oral) The method of 3-D dataset statistical simulation with «cubic» correlation function on Rivne NPP example \***Z. Vyzhva, V. Demidov** (*Taras Shevchenko National University of Kyiv*), **A. Vyzhva** (*SE "Naykanafto-gaz"*)

(18385 - poster) Seismic site effects evaluation of the Yagotin compressor station (Ukraine) \***Yu. Semenova, A. Kendzera** (*S. I. Subbotin Institute of Geophysics, National Academy of Sciences of Ukraine*), -

(18415 - oral) Reservoirs Type Classification Using Hydraulic Flow Units Approach With An Application To Pivnichno-Korobochkynska Area (Dnipro-Donetsk Depression) \***O. Petrokushyn, V. Antoniuk** (*Taras Shevchenko National University of Kyiv*)

## 07 Remote Sensing in Geosciences

(17376 - poster) Study of spatiotemporal variations of summer land surface temperature in Kyiv, Ukraine using Landsat time series \***D. Svidzinska, N. Korohoda** (*Taras Shevchenko National University of Kyiv*)

(17471 - oral) Application of visible and long-wave infrared satellite data for hydrocarbon deposits prospecting \***S. I. Golubov, M. S. Lubskiy** (*State Institution "Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Science of the National Academy of Sciences of Ukraine*)

(17505 - oral) Springs as indicator of geotectonic disturbances \***R. L. Kravchynskiy** (*Carpathian National Natural Park*), **V. K. Khilchevskiy** (*Taras Shevchenko National University of Kyiv*), **M. V. Korchemlyuk** (*Carpathian National Natural Park*), **M. R. Zabokrytska** (*Lesya Ukrainka Eastern European National University*), **L. V. Plichko** (*Taras Shevchenko National University of Kyiv*)

(17493 - poster) A GIS and WUDAPT based mapping of the local climate zones in Ukrainian cities \***O. Shevchenko, M. Matviienko, S. Snizhko** (*Taras Shevchenko National University of Kyiv, Department of Meteorology and Climatology*)

(17521 - oral) Assessment of changes a number of surface water bodies within the sub-basin of the Desna River using remote sensing materials \***L. V. Plichko, V. I. Zatserkovnyi** (*Taras Shevchenko National University of Kyiv, Institute of Geology*), **V. K. Khilchevskiy** (*Taras Shevchenko National University of Kyiv*), **Marina Mizernaya, Amralinova Bakytzhan** (*D. Serikbayev East Kazakhstan state technical university*)

(17657 - oral) Exogenic Processes' Remote Monitoring of Kanivske Reservoir's Right Bank \***O. A. Mykolaenko** (*Taras Shevchenko National University of Kyiv*), **P. V. Zhyrnov** (*State Enterprise "Scientific Research and Design Urban Development Institute"*), **O. V. Tomchenko** (*State*

*institution "Scientific center for aerospace researches of the Earth of IGS NAS of Ukraine"), I. O. Pidlisetska (Taras Shevchenko National University of Kyiv)*

(17672 - oral) Three-dimensional model of the Kocheriv section of the western part of the Ukrainian Shield **V. Ilyenko** (*Institute of Geophysics NAS of Ukraine*)

(17822 - poster) The use of GIS in the morphological analysis of pistes **S. Bortnyk, N. Pohorilchuk, O. Kovtoniuk, \*N. Korohoda** (*Taras Shevchenko National University of Kyiv, Ukraine*)

(18190 - oral) Lineaments analysis of the Dniester area (between Bakota and Novodnistrovsk) **\*A. M. Bubniak** (*Consulting Geologist*), **I. M. Bubniak** (*Institute of Geodesy National University Lviv Polytechnic*), **A. I. Zyhar** (*JSC Ukrhydroenergo*)

(18192 - poster) The new approach to forecasting areas with oil and gas prospects by classification method **O. V. Titarenko, O. V. Sedlerova, \*A. A. Andreiev** (*Scientific Centre for Aerospace Research of the Earth National Academy of Sciences of Ukraine*)

(18210 - poster) New experimental data on deep melts of the West Antarctic rift system separate segments **V. Soloviev, V. Bakhmutov, I. Korchagin** (*Institute of Geophysics of NAS of Ukraine*), **N. Yakymchuk** (*Institute of Applied Problems of Ecology, Geophysics and Geochemistry*)

(18289 - poster) Comparison of the new gravity field model XGM2019e with other modern global models of the gravitational field for the Magadan region **I. M. Hasanov** (*NEISRI Far Eastern Branch of RAS, North-Eastern State University*), **\*L. A. Muravyev** (*Institute of Geophysics Ural Branch the RAS, Ural Federal University*)

(18290 - poster) Identification of the largest impact structures in modern global datasets of geophysical fields **L. A. Muravyev\*** (*Ural Federal University, Institute of Geophysics Ural Branch of RAS*)

(18387 - oral) Geoinformation systems in monitoring studies of environmental pollution factors in the areas of municipal solid waste landfills **\*O. T. Azimov** (*Scientific Centre for Aerospace Research of the Earth IGS of NASU*), **O. V. Shevchuk** (*Institute of Telecommunications and Global Information Space of NASU*), -

(18384 - oral) Computer detection of the Earth's crust blocks using satellite image lineaments **\*S. L. Nikulin, K. L. Sergieieva, O. V. Korobko** (*National Technical University Dnipro Polytechnic*)

(17646 - oral) Application of frequency-resonance technology of satellite images and photographs processing for the hydrogen accumulations searching **M. Yakymchuk** (*Institute of Applied Problems of Ecology, Geophysics and Geochemistry*), **\*I. N. Korchagin** (*Institute of Geophysics, NAS of Ukraine*)

(17647 - oral) Application of mobile frequency-resonance methods of satellite images and photo images processing for water accumulations searching **\*M. Yakymchuk** (*Institute of Applied Problems of Ecology, Geophysics and Geochemistry*), **I. N. Korchagin** (*Institute of Geophysics, NAS of Ukraine*)

## Data mining and decision support systems

(18263 - poster) GIS modeling of the territory and water area of protected areas **O. V. Omelchuk** (*Institute of Geology Taras Shevchenko National University*), **I. V. Kuraieva**, **\*A. O. Splodytel** (*Semenenko Institute of Geochemistry, Mineralogy and Ore Formation of NAS of Ukraine*)

(18277 - oral) Geographic Information and Cyber-Physical Systems in Oil and Gas Industry: Benefits, Problems and Integration Prospects **O. Rogach**, **\*O. Pidchosa**, **P. Dziuba** (*Institute of International Relations, Taras Shevchenko National University of Kyiv*)

(18414 - poster) Comparative analysis of the annual runoff distribution of the left-bank and right-bank tributaries of the Siverskyi Donets River Basin **\*H. Bolbot** (*Ukrainian Hydrometeorological Institute*), **V. Grebin** (*Taras Shevchenko National University of Kyiv*)

(17253 - poster) Valuation of the impact of urbanization on the geoecological problems of the megapolis **\*D. P. Romanukha**, **V. I. Zatserkovnyi** (*Institute of Geology of Taras Shevchenko National University of Kyiv*), **P. A. Savkov**, **I. V. Pampukha**, **I. K Syniavska** (*Military Institute of National University of Kyiv*)

(17377 - poster) Study of structural-tectonic discreteness of abrasion-landslide bench in a segment of Odesa coastline **\*T. V. Kozlova**, **E. A. Cherkez**, **V. I. Medinets**, **Ye. I. Gazyetov**, **S. M. Snihirov**, **S. V. Medinets** (*Odesa National I. I. Mechnikov University*)

(17531 - oral) Distribution of heavy metals in potable groundwater of Dnieper-Donetsk artesian basin northwestern slope (as an example of Kyiv groundwater deposit) **\*T. O. Koshliakova**, **I. V. Kuraieva** (*M. P. Semenenko Institute of geochemistry, mineralogy and ore formation of the National Academy of sciences of Ukraine, Ukraine*), **O. Ye. Koshliakov** (*Institute of Geology of Taras Shevchenko National University of Kyiv, Ukraine*)

## 09 Geoinformation support monitoring of hazardous natural and anthropogenic processes

(17553 - oral) Forecasting temperature behavior of soil in gas field exploitation areas **M. M. Prykhodko**, **L. Y. Poberezhny**, **D. V. Kukhtar**, **V. V. Romaniuk**, **I. L. Bodnaruk**, **\*A. V. Muliar** (*Ivano-Frankivsk National Technical University of Oil and Gas, Ukraine*)

(17630 - oral) Geodetic monitoring of the protective dam of the Lviv MSW landfill after reconstruction **\*I. Savchyn**, **V. Lozynskyi**, **Yu. Petryk**, **Kh. Marusazh** (*Lviv Polytechnic National University*)

(17711 - oral) Integration of geophysical, soil science and geospatial methods in the study of eroded soil **O. Kruglov** (*Institute for Soil Science and Agrochemistry Research named after O. N. Sokolovsky*), **\*O. Menshov** (*Taras Shevchenko National University of Kyiv*), **M. Miroshnychenko**, **M. Shevchenko** (*Institute for Soil Science and Agrochemistry Research named after O. N. Sokolovsky*)



(17844 - poster) Monitoring of the change in the area of the Malyn Landfill on the basis of various space images taken at different times \***L. Dyachenko** (*Taras Shevchenko National University of Kyiv*), **M. Kovalchuk** (*Institute of Geological Sciences Academy of Sciences of Ukraine*), **I. Baysarovych** (*Taras Shevchenko National University of Kyiv*)

(17882 - poster) Theory and realization of dynamic correlation method for environmental safety evaluation **V. Okhariev** (*Institute of Telecommunications and Global Information Space, NASU*)

(17888 - poster) Monitoring System of Land Resources Pollution by Oil \***V. Okhariev**, **T. Trysnyuk**, **Y. Holovan** (*Institute of Telecommunications and Global Information Space, NASU*)

(17892 - poster) Ground Deformation Mapping of Solotvyno Mine Area Using Radar Data and GIS **O. Trofymchuk**, \***Y. Anpilova**, **Y. Yakovliev** (*Institute of Telecommunications and Global Information Space of NASU*), **I. Zinkiv** (*Mykola Lysenko Lviv National Music Academy*)

(17894 - poster) Landscape and Geological Factors of Water and Ecological Conditions Technogenesis of Donbas at the Post-Mining Stage \***Y. Anpilova**, **Y. Yakovliev**, **I. Drozdovych** (*Institute of Telecommunications and Global Information Space of NASU*)

(18017 - oral) Integration of magnetic and hydrogeological studies for landslides and soil erosion assessment. Case study from area Lake Glinka (Kyiv, Ukraine) \***O. Menshov**, **O. Shevchenko**, **O. Andreeva** (*Taras Shevchenko National University of Kyiv*)

(18075 - poster) The role of household activity in the context of studying the formation of groundwater in Tatarbunary \***O. Miedviedieva** (*Institute of Water Problems and Reclamation National Agrarian Academy of Sciences of Ukraine, Ukraine*), **O. Dyniak** (*Taras Shevchenko National University of Kyiv, Institute of Geology, Ukraine*)

(18134 - oral) Leading role of Dombrowski quarry as the source of groundwater contamination **S. M. Bagriy**, **E. D. Kuzmenko**, \***U. O. Dzoba**, **L. I. Davybidia** (*Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk*)

(18165 - poster) Spatial correlation function of the mean annual water runoff of the river of Ukraine \***S. O. Moskalenko** (*Taras Shevchenko National University of Kyiv, Ukraine*), **L. V. Malytska** (*Ukrainian hydrometeorological institute, Kyiv, Ukraine*)

(18226 - poster) Use open GIS technologies to determine hydropower potential for lowland rivers on the example of Ukrainian part of Pripyat basin \***V. Korniienko**, **O. Obodovskyi**, **O. Pochaievets**, **O. Lukianets**, **O. Kryvets**, **N. Korohoda** (*Taras Shevchenko National University of Kyiv*)

(18340 - oral) Use of GPTS technology in geoinformation security for sustainable development of megacities \***Yu. A. Bogdanov**, **S. I. , Prokopenko**, **Xin Chen** (*Hebei DSF-GEOS Technology Co. , Ltd, China*)

(18356 - poster) Application of geophysical methods in the study of karst **S. Vyzhva**, \***V. Onyshchuk**, **I. Onyshchuk**, **M. Reva**, **O. Shabatura** (*Taras Shevchenko National University of Kyiv*)

(18359 - oral) Local forecast of landslide hazards: case study from Kyiv region **O. Ivanik, O. Shabatura, R. Homenko, \*K. Hadiatska, D. Kravchenko** (*Institute of Geology, Taras Shevchenko National University of Kyiv*)

(18380 - oral) Spatial morphometric analysis of digital elevation model in landscape research **L. F. Bilous**

(18388 - oral) Ecological and geochemical study of the state of soil deposits in the impact areas of municipal solid waste landfills **\*O. T. Azimov** (*Scientific Centre for Aerospace Research of the Earth IGS of NASU*), **O. M. Trofymchuk** (*Institute of Telecommunications and Global Information Space of NASU*), **I. V. Kuraeva** (*M. P. Semenenko Institute of Geochemistry, Mineralogy and Ore Formation of NASU*), **K. S. Zlobina** (*M. P. Semenenko Institute of Geochemistry, Mineralogy and Ore Formation of NASU*), **S. P. Karmazinenko** (*Institute of Geography of NASU*), **Ye. M. Dorofey** (*Scientific Centre for Aerospace Research of the Earth IGS of NASU*)

(18400 - poster) Application of A Remote Sensing in Monitoring of Erosion Processes **\*K. A. Lukyanchuk, I. P. Kovalchuk** (*National University of Life and Environmental Sciences of Ukraine*), **O. M. Pidkova** (*Kyiv National Taras Shevchenko University*)

## 11 Students programme

(17576 - poster) On the study of geological characteristics of underground gas storage objects **\*V. M. Maniuk, N. V. Dubei, I. R. Mykhailiv, A. P. Boiko** (*Ivano-Frankivsk National Technical University of Oil and Gas, Ukraine*)

(17610 - poster) Application of mathematical statistics methods in estimating the prospects of oil and gas content of local objects in Boryslav petroleum industry area **\*V. Maniuk, M. Maniuk, O. Maniuk, M. Medvid** (*Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk*)

(17661 - poster) Application of special petrophysical algorithms for select classes of reservoir rocks **\*Y. Khomyn, M. Maniuk, V. Khomyn, O. Paliychuk, I. Piatkovska, O. Maniuk** (*Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk*)

(17799 - poster) Information criteria for oil and gas content Boryslav-Pokutska area of the Precarpathian deflection **\*R. Yaremak, G. Zhuchenko, V. Khomyn, G. Gorvanko, N. Goptarova** (*Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine*), -

(17939 - poster) Factors affecting the value of oil and gas reserves in the bowels **\*M. O. Karpenko, I. R. Mykhailiv, A. P. Boiko, N. V. Dubei** (*Ivano-Frankivsk National Technical University of Oil and Gas*)

(18107 - poster) The results of the geological-gravitational modeling of the deep structure of the underthrust of the Ukrainian Carpathians by means of regional cross-section **L. S. Monchak, S. G.**

**Anikeiev, T. V. Zderka, \*N. P. Khovanets, A. V. Yarema, S. S. Kurovets** (*Ivano-Frankivsk national technical university of oil and gas*)

(18119 - poster) Gas-geochemical predicting and system assessment of oil and gas prospects for the purpose of increasing exploration efficiency **A. V. Yarema, T. V. Zderka, S. S. Kurovets, \*N. P. Khovanets** (*Ivano-Frankivsk national technical university of oil and gas*)

(18237 - oral) Generalization of the estimated probabilities of excess the mean annual runoff of the Pripjat River basin within Ukraine **K. I. Sokolchuk** (*Taras Shevchenko National University of Kyiv*)

(18351 - oral) Influence evaluation of the regional hydrometeorological conditions on the development of landslides on the territory of Ukraine **\*Yu. V. Heruk, I. V. Chepurnyi** (*Ivano-Frankivsk National Technical University of Oil and Gas*)

(18372 - oral) Using modern web technologies to construct web portals of educational and scientific organization **\*A. Tarnovetskyi, V. Demidov** (*Taras Shevchenko National Univeristy of Kyiv*)

(18421 - oral) Analysis of a light pollution map for meteorite detection. The prospects of the development of a meteor network in Ukraine **\*R. Bukatiuk** (*the University of Alberta*)

(18373 - oral) Petroleum system analysis of Walrus area in the Deepwater US Gulf of Mexico **\*Y. Tkachenko, V. Shabanov, A. Drozdova, V. Yemets, O. Prokopenko, I. Virshylo** (*Taras Shevchenko National University of Kyiv, Institute of Geology*)

(18422 - oral) Patternrecognition in oil infrastructure with convolutional neural networks **\*R. Okhrimchuk, I. Tishaev, V. Zatserkovnyi, O. Smorkalova** (*Taras Shevchenko National University of Kyiv*)

(18423 - oral) Geoinformation toolkit for risk assessment of karst processes development **I. Chepurnyi, V. Podholov, T. Chepurna, \*B. Karpinskyi** (*Ivano-Frankivsk National Technical University of Oil and Gas*)