

Научная программа
VIII Российско-Китайского симпозиума
«Уголь в XXI веке: добыча, переработка, безопасность»

The scientific program
VIII Russian - Chinese symposium
«Coal in the XXI century: mining, processing, safety»

Секция 1. Реконструкция и строительство шахт

Section 1. Mine Construction and Modernization

1. Selection of A Rational Form for The Steel Winding Tower as A Preventive Measure to Increase Its Industrial Safety
Elena.G. Kassikhina, Vladimir V. Pershin, Nikiya O. Butrim, Weiguo Qiao
2. Engineering and process design solutions for the vertical shaft completion
Weiguo Qiao, V.V. Pershin, E.G. Kassikhina, N.O. Butrim
3. Study on Construction of Embedded Bolt Sleeve's Precision in Massive Concrete
Chongge Wang, Jiachuan Liu
4. Economic and technological criteria of choosing the support for construction of mine workings
Weijie Song, V.V. Pershin, Yu.A. Masaev, V.Yu. Masaev, Weiguo Qiao
5. Constructions Parameters Updating of Protecting Apron Under Deepening of Vertical Shafts
Vladimir V. Pershin, Aleksandr I. Kopyitov, Mikhail D. Voiyov, Akhmed A. Wetti, Ivan V. Zhuk
6. Structural calculation of the foundation curb of the slope shaft
Mihail D. Voytov, Pavel A. Budnikov.

7. Designing of parameters for blasting work at drivage with application of CCC and CSCC
Alexey N. Sabantsev

Секция 2. Геотехнология

Section 2. Mining Theory, Method and Technology

8. Highwall Mining Stability
Baotang Shen
9. Study on the Movement Law of Overburden Strata During Mining Strip Pillar with Paste
Weijia Guo, Yangyang Li, Baoliang Zhang, Hailong Wang, Xizhen Sun
10. Numerical simulation study on influencing factors to part-filling pillars' stability
Wanpeng Huang, Yanghui Ren, Lin Gao
11. Research on Strip Filling Surface Subsidence Rule
Yongkui Shi, Minhua Qi, Jingyu Zhang, Jian Hao
12. Characteristic Analysis of Surface Subsidence in Deep Mining
Xikun Chang, Rongfa Wang, Jinchen Zhang
13. Mechanical models and support technologies for retaining gob-side entry
Yunliang Tan, Yanchun Yin, Jianguo Ning, Tongbin Zhao
14. Influence of Mining and Retaining Parameters on Evolution of Hazard Rockburst in Strip-pillar Mining
Chunqiu Wang, Wenshuai Li, Shitan Gu, Chuanle Ma, Zhimin Xiao
15. Influence of heat and mass transfer on formation of lumpy tense–deformed states of rocks around tunnel of sewage collector in cryolytozone
Vladimir V. Popov
16. The Application of Fuzzy Analytic Hierarchy Process for Thick Coal Seam Mining Methods in China
Lei Wang, Yang Yang, Huimin Cheng

17. Simulation Study of Dynamic Response of Bolt Support in Impact Roadway
Fan Liu, Wenjie Liu, Tongxu Wang
18. Rapid Heading technology of Coal Seam Containing iron sulfide Nodules
Xinglin Wen, Mengmeng Dong, Ran Fan, Kai Sun, Zhongjian Zhang
19. Simulation and Analysis on Characteristics of Lower-group Roadway Surrounding Rock under Deep Near Interval Coal Seam
Peisen Zhang, Hao Wang, Dongcai Lin, Zhonghui Kan
20. Study on Grouting Anchor Cable Supporting Technology of Roadway through Extra Large Fault Fracture Zone
Jinxiao Liu, Jidong Jing, Yiyu Feng, Lei Wu, Peisen Zhang
21. Study on Optimal Design of Concrete-Filled Steel Tube Support in Coal Mine
Limin Liu, Shijun Zhao, Junzhi Cao, Zhongcheng Qin
22. Measurement and Analysis on Failure Height of Overburden Strata of mechanized sublevel caving in Shallow Region of Baodian Coal Mine
Fuchen Li, Wenquan Zhang, Wei Guo, Zongsheng Wang, Yunjiang Li, Yanxin Liu
23. Study on the Rapid Excavation Technology of Deep Large Cross-section Rock Tunnel
Xinjie Liu, Dezhong Kong, Gaofeng Song
24. Large Deformation Control Principle and Reinforcement Technique for Solid Coal Rib of Large-Section Gob-side Tailentry in Thick Coal Seam buried Deeply
Chuanwei Zang, Miao Chen, Yunliang Tan, Chuanle Ma, Xiangjun Meng
25. Durability Test of Gangue Paste Filling Material
Yin Liu, Qifeng Wang, Haoqiang Zhang
26. Technology update of the one-stage electrochemical unstable soil densification at building of the mine working
Dmitry A. Rudkovsky, Sergey V. Prostov .
27. Coal Deposits' Mining with High Content of Natural Radionuclide

Pavel B Avdeev, Galina P. Sidorova

28. Advanced Technology Based on New Technological and Organizational Principles of Spatial Development of Front of Mining Operations at Open Pits

Alexei V. Selukov

29. Fractal characteristics of mudstone microscopic morphology in MATLAB environment

Dongmei Huang, Zhenquan Zhang, Xiaofei Lin, Huaxue Li

Секция 3. Горные машины и оборудование

Section 3. Mining Equipment and Machinery

30. Modeling of Hydraulic Power Cylinder Seal Assembly Operation

Gennady D Buyalich, Konstantin G Buyalich

31. Formation Auger Equipment Reliability

Yuriy V. Dorzdenko

32. Stress-Deformed State Knots Fastening of a Disk Tool on the Crowns of Roadheaders

Aleksey Khereshok, Leonid Mametyev, Andrey Bosirov, Aleksey Vorobiev

33. Preventive Maintenance of Mining Equipment Based on Identification of Its Actual Technical State

Kovalev Vladimir, Gerike Boris, Khoreshok Aleksey, Gerike Pavel

34. Increasing productivity of mobile equipment through multi-directional drilling in horizontal underground mining

Aleksandr V. Grigorev

35. Evaluation of Explosion Protection Means of Mine Electrical Equipment for Operation in Excavations of Coal Mines

Vladimir Efremenko, Roman Belyaevsky

36. Reasons of conveyer belts' wear

Vadim V. Yurchenko

37. Study of the effectiveness of centering of the belt conveyor on the magnetic levitation by the electromagnetic field
Aleksandr Y. Zaharov
38. Research of possibility of creation of magnetic levitation of boring instrument on the basis of the magnetic systems with successive by connection of permanent magnets
Michail T. Kobyljansky
39. Influence of hydraulic cylinder wall thickness on its natural frequency of oscillation
Gennady D. Buyalich, Vladimir N. Voevodin, Konstantin G. Buyalich, Anna A. Mikhailova

Секция 4. Безопасность горных работ

Section 4. Construction Safety in Mines and Underground Engineering

40. Study of Asymmetric Failure Law and Support for Large Embedded Depth Roadway Driving along the Roof in Inclined Coal Seam
Guoqiang Cheng, Mingju Yan, Hongli Zhu, Haifeng Yu
41. Analysis on Human Safety Behavior Mode during the Production Process
Gang Zhou, Jiao Xue, Hao Wang, Qi Zhang
42. Control design of roof rock for advance blasting in roof on gob-side entry without roadside support
Kaizhi Zhang, Baocheng Liu
43. Drilling Strata Movement Detection Experiment on Failure Law of Overlying Strata Movement
Shijian Yu, Zhaobin Liu
44. Research of Mining Depth Influence on Floor Coupled
Liming Yin, Nan Shi, Juntao Chen
45. Rock Burst Danger Warning and Large Diameter Drilling Pressure-relief Technology in Fully Mechanized Caving Island Coal Face
Shitan Gu, Zhimin Xiao, Ruifeng Huang, Yunliang Tan, Bangyou Jiang, Wenshuai Li

46. Numerical simulation of stress relieving and analysis of influencing factors on geostress measurement
Tongbin Zhao, Minglu Zhang, Zhanhai Li, Ze Zhang
47. Numerical simulation of roadway gas migration based on the lattice Boltzmann method
Zhigang Zhao, Yongbo Zhang, Yunliang Tan
48. Research Status of Wet Duster in Fully Mechanized Workface
Yang Zhong, Mengmeng Wu, Xinxiang Yang, Wei Xiao
49. Development and application of integrative jumbo for deep hole sampling
Gang Wang, Xinxiang Yang, Wei Xiao, Mengmeng Wu
50. Analysis on the Old Gob Water Inrush Accident of Kunlun Mine in Zibo
Hua Jiang, Wenren Gai, Fu Zhao, Xin Zhang, Hailin Liu
51. Risk Assessment of Floor Water Inrush in Deep Mine Based on Grey System Theory
Weitao Liu, Xiaofeng Pan, Huan Liu, Jianjun Shen
52. The Water-disaster Characteristic of Coal Mine in Shandong Province and the Research on Prevention and Control Countermeasures
Wenquan Zhang, Zhongping Ren, Hua Jiang, Gaoliang Sun, Qianqian Hang, Yi Dong
53. Determination of rational coal and rock pillars height of coal mining under the loose aquifer
Jianhu Wang, Mingxi Shao, Yanfeng Shang, Siwen Cao, Xin Zhang, Chuanmeng Hu
54. Research on Water Resistance of The Hanging Wall of the Fault Tilting Water-resisting Key Strata Model
Yuhe Wang, Xinglei Zhang, Houchen Wang, Jiulong Cheng, Wei Guo
55. Study on Test Method of Rock Acoustic Emission and Damage Evolution Characteristics Under Triaxial Compression
Yongjie Yang, Depeng Ma, Yanxin He, Luyi Xing

56. Research advances of heterogeneity representation methods for rocks
Yanchun Yin, Yunliang Tan, Weijia Guo, Minglu Zhang
57. The Numerical Simulation of The Influence from Fault Dip Angle on Coalface Pressure
Li Zhang, Junfeng Xia, Chuanwei Zang
58. The Research and Application of The Hard Roofs Forced Caving Technology in Short Wall Stopes
Min Gao, Jiuchuan Wei, Xiaoqi Ma
59. To the Question of the Destructed Rock Mass Movements Regime Assessment
Victor S. Kharkoaskyi, Valery M. Plotnikov, Eugenia V. Komleva, Olessya A. Kogay, Anna S. Korobkina, Anna V. Harlamova, Anna V. Goncharov, Yuri N. Goncharov
60. Simulation of Stress-Strain State of The Reinforced Soil Foundation for Structures
Sergei M. Prostov, Mikhhail V. Sokolov
61. Inert Compositions For Underground Fire Fighting in Mines
Vyacheslav Portola, Nima Galsanov
62. Modeling Peculiarities of Reinforced Crack of Hydraulic Fracture of Coal Seams for Estimation of Their Permeability
Mihail A. Baev

Секция 5. Методы управления в горной отрасли

Section 5. Mines, Underground Engineering Operation and Management

63. Application of Safety Check List On Confidential Inspection
Haiyan Chen, Jianguang Gao, Yunfei Xu
64. Coal Mine Safety Influence Factors Causality Analysis and Function Relationship Construction Based on System Dynamics
Jing Chen, Yongjie Yang, Qinggui Cao
65. Research and application of heat exchange system in Sun village coal mine

Xinghua Li, Bin Xiao, Limei Zhang

66. Research of Safety Pre-control Management System of Power Plants
Xinghua Li, Suli Wang
67. Study on Early Warning Method of Coal Mine Accident about Ventilation, Gas, Dust and Fire
Xiaofei Lin, Shouxin Song, Dongmei Huang
68. The Influence of Coal Mining on Groundwater Resources and the Analysis of Water Resources Protection Countermeasure
Hongri Zhang, Yuanyuan Sheng, Guibin Zhang, Zhizhuo Dong, Yu Liu
69. The transport systems of simulation and optimization of Dingfeng's slime and gangue power plant
Xinghua Li, Danying Wang
70. Rare Earth Elements in Kuznetsk Coals: Ability to Excavate and New Functional Materials
Tatyana G Cherkasova, Elizaveta V Cherkasova, Elza S Tatarinova, Alena A Bobrovnikova, Irina P. Goryunova, Yuliya A. Mihaylenko, Anastasia V Tihomirova, Irina V. Isakova
71. The Main Characteristics of Freight on Hot Streams
Natalya V. Erofeeva, Irina N. Chebotova
72. Study of the Process of the Polymer Flocculants Degradation Used for Coal Processing
Sergey D. Evmenov, Galina L. Evmenova
73. Safety of Mining Engineering Buildings and Facilities Under Fem Analysis and Catastrophe Theory
Vladimir V. Pershin, Dmitriy I. Nazarov
74. Physical Basis of the Controlled Electrochemical Treatment of Soils from Oil Products
Sergey M. Prostov, Maxim B. Gucal, Evgeniy F. Shabanov
75. Justification Complex Purification Technology Open-pit Mines Wastewater
M.A. Tyulenev, Y.V. Lesin

76. Solid Fuel Obtaining by Processing of Coal Enterprises Technogenic Materials
Andrey D. Ushakov, Elena S. Ushakova, Gennaday V. Ushakov
77. Experience for Coal Mine Methane Utilization to Generate Thermal and Electric Power
Oleg V. Tailakov, Denis. N. Zastrelov, Evgeniy A. Utkaev, Alexey I. Smyslov, Alexey N. Kormin
78. Study on the dissipation mechanism of shock and vibration energy in a stress release area of deep roadway
Jianguo Ning, Jun Wang, Xuesheng Liu, Yunliang Tan
79. Study on reinforcement technique by injection grout in deep soft rock supporting
Andrey V. Uglyanitsa
80. Simulator for monitoring and fault detection of the multidrive belt conveyors
Veniamin A. Kashirsky, Alexander N. Nesterovsky