



2022年厚煤层绿色智能开采国际会议 —— 中国综放开采40周年

2022 International Conference on Green
Intelligent Mining for Thick Coal Seam

—— 40th Anniversary of Longwall Top-Coal Caving Mining in China

会议手册

Conference Program

2022年7月23 - 25日

July 23-25, 2022

中国·北京

Beijing, China

► 会议背景 | Conference Background

近十余年来，中国及世界相关国家在厚煤层开采领域取得了重要进展，随着绿色智能开采技术的突破、“双碳”目标的约束，煤炭工业必将进入新的发展阶段，厚煤层开采也面临着一些新的挑战。为了推动全球煤炭工业的高质量可持续发展，总结厚煤层开采理论与技术的学术成果与工程经验，探讨厚煤层开采未来发展方向，特此举办 2022 厚煤层绿色智能开采国际会议。本次会议由中国矿业大学（北京）、中国煤炭学会和中煤科工开采研究院有限公司主办，放顶煤开采煤炭行业工程研究中心和中国矿业大学（北京）能源与矿业学院承办，联合多家世界著名矿业类高校共同协办。

放顶煤开采煤炭行业工程研究中心前身为煤炭工业部放顶煤开采技术中心，自 1990 年在北京举办“首届全国放顶煤开采理论与实践研讨会”以来，先后于 1995 年在河北燕郊、1998 年在四川成都、2000 年在江西吉安、2005 年在浙江杭州组织举办了第二届~第五届全国放顶煤开采技术研讨会；1999 年在北京举办了“99 厚煤层现代开采技术国际专题研讨会”。本次会议是前述会议的延续，也是纪念放顶煤开采技术在中国应用与创新 40 周年。会议得到国家自然科学基金重点项目（51934008）、国家自然科学基金创新研究群体项目（52121003）、“111 计划”项目、河北省自然科学基金重点项目（E2020402041）的支持，本次会议已被中国科协列为 2022 年重要学术会议（TAC）。

In recent 10 years, China and some countries around the world have obtained important achievements in field of thick coal seam mining. With the breakthrough of green intelligent mining technology and the limitation of carbon peak and neutrality goals, coal industry will certainly reach a new development stage, and the thick coal seam mining also faces new challenges. To achieve the high-quality sustainable development of global coal industry, summarize the academic researches and engineering experience on the thick coal seam mining theory and technology, and discuss the future development of thick seam mining, the 2022 International Conference on Green Intelligent Mining for Thick Coal Seam is held in Beijing. This conference will be hosted by China University of Mining and Technology-Beijing, China Coal Society and CCTEG Mining Research Institute Co., Ltd, China, organized by Coal Industry Engineering Research Center of Top-Coal Caving Mining and School of Energy and Mining Engineering, China University of Mining and Technology-Beijing, and co-organized by world famous mining universities.

Coal Industry Engineering Research Center of Top-Coal Caving Mining is formerly known as Top-Coal Caving Mining Technology Center of Ministry of Coal Industry. Since the 1st National Conference on Theory and Practice of Top Coal Caving Mining was held in Beijing in 1990, the 2nd to the 5th National Conferences were held in Yanjiao, Hebei in 1995, Chengdu, Sichuan in 1998, Ji'an, Jiangxi in 2000 and Hangzhou, Zhejiang in 2005, respectively. In 1999, the '99 International Workshop on Underground Thick-Seam Mining was held in Beijing. This conference is a continuation of the abovementioned conferences, and also commemorates the 40th anniversary of the application and innovation of top coal caving technology in China. The conference is supported by the National Natural Science Foundation of China (Grant No. 51934008), National Natural Science Foundation of China Innovation Research Group (Grant No. 52121003), "Project 111" and Natural Science Foundation of Hebei Province of China (Grant No. E2020402041). This conference has been included in the Top Academic Conference (TAC) of China Association for Science and Technology.

▶ 主办单位 | HOST:

中国矿业大学 (北京)

China University of Mining and Technology-Beijing

中国煤炭学会

China Coal Society

中煤科工开采研究院有限公司

CCTEG Mining Research Institute Co., Ltd, China

▶ 承办单位 | Executive Organizer:

放顶煤开采煤炭行业工程研究中心

Coal Industry Engineering Research Center of Top-Coal Caving Mining

中国矿业大学 (北京) 能源与矿业学院

School of Energy and Mining Engineering, China University of Mining and Technology-Beijing

▶ 协办单位 | Co-Organizer:

中国矿业大学

China University of Mining and Technology

安徽理工大学

Anhui University of Science and Technology

美国西弗吉尼亚大学

West Virginia University, USA

俄罗斯国立科技大学

National University of Science and Technology (MISIS) , Russia

澳大利亚新南威尔士大学

University of New South Wales, Australia

德国弗莱贝格工业大学

Technische Universität Bergakademie Freiberg, Germany

巴西南里奥格兰德联邦大学

Federal University of Rio Grande do Sul, Brazil

德国克劳斯塔尔工业大学

Clausthal University of Technology, Germany

► **大会日程 | General Program**

7月23日 / 23th, Jul.		
8:30-8:35	开幕式/ Introduction	线上：腾讯会议 650-560-495 Online: Voov Meeting 650-560-495 线下：中国矿业大学（北京）福中苑 Offline: CUMTB Fuzhongyuan
8:35-8:55	嘉宾致辞/ Guest Speeches	
8:55-9:10	中国放顶煤开采 40 年/ 40 years of LTCC in China	
9:10-12:05	主旨报告/ Plenary Session	
14:00-18:00	特邀报告 1/ Keynote Session 1	
7月24日 / 24th, Jul.		
8:30-12:10	特邀报告 2/ Keynote Session 2	线上：腾讯会议 650-560-495 Online: Voov Meeting 650-560-495 线下：中国矿业大学（北京）福中苑 Offline: CUMTB Fuzhongyuan
14:00-18:20	特邀报告 3/ Keynote Session 3	
7月25日 / 25th, Jul.		
8:30-12:05	研究生论坛/ Graduate Student Forum 闭幕式/Closing Ceremony	线上：腾讯会议 650-560-495 Online: Voov Meeting 650-560-495 线下：中国矿业大学（北京）福中苑 Offline: CUMTB Fuzhongyuan

▶ 特邀报告人 | Plenary & Keynote Speaker

INTRODUCTION OF KEYNOTE SPEAKER



Xie He-ping



Yuan Liang



Kang Hong-pu



Wang Guo-fa



Ge Shi-rong



Qiao Jian-yong



Wang Jia-chen

INTRODUCTION OF INTERNATIONAL KEYNOTE SPEAKER



Syd S. Peng



Andrian Batugin



Ismet Canbulat



Bern Klein



André Cezar Zingano



Scott Dunbar



Zach Agioutantis



Jürgen Kretschmann



Oliver Langefeld



Daniel W.H. Su

▶ **参会链接 | Online Meeting Link**

嘉宾&报告人链接

Guests & Speaker Link

邀请您参加腾讯会议网络研讨会(Webinar)

2022 厚煤层绿色智能开采国际会议
——中国综放开采40年

会议时间: 2022/07/23 8:00-2022/07/25 14:00
(GMT+08:00) 中国标准时间 - 北京

点击链接入会:

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—— 40th Anniversary of Longwall Top-Coal Caving Mining in China

Date: 2022/07/23 8:00—2022/07/25 14:00
(GMT+08:00) China Standard Time - Beijing

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观众参会链接

Audience Link

邀请您参加腾讯会议网络研讨会(Webinar)

2022 厚煤层绿色智能开采国际会议——中国综放开采40年

会议时间: 2022/07/23 8:00-2022/07/25 14:00 (GMT+08:00) 中国标准时间 - 北京

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Invites you to join a webinar on Tencent Meeting

2022 International Conference on Green Intelligent Mining for Thick Coal Seam——40th Anniversary of Longwall Top-Coal Caving Mining in China

Date: 2022/07/23 8:00-2022/07/25 14:00 (GMT+08:00) China Standard Time - Beijing

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大会日程详情 | Program Details

7月23日 上午 腾讯会议 650-560-495/福中苑

Morning, 23th Jul, Voov Meeting 650-560-495/ Fuzhongyuan

主持人: 王家臣 中国矿业大学(北京)教授、副校长

Chairman: Jiachen Wang, Professor & Vice-president, China University of Mining and Technology-Beijing

8:30-8:35	开幕式 Introduction
8:35-8:55	嘉宾致辞 Opening Speech from the Guests
8:55-9:10	中国放顶煤开采40年 王家臣 教授 40 years of LTCC in China, Speech by Jiachen Wang, Professor

主持人: 蔡美峰 工程院院士；朱德仁 教授

Chairman: Meifeng Cai, Academician of Chinese Academy of Engineering
Deren Zhu, Professor

9:10-9:35	主旨报告人 Plenary Speaker	谢和平院士 Heping Xie	深圳大学深地科学与绿色能源研究院 Academician, Institute of Deep Earth Sciences and Green Energy, Shenzhen University	
	题目 Topic	煤炭碳中和战略与技术路径 Coal carbon neutrality strategy and technology		
	9:35-10:00	主旨报告人 Plenary Speaker	Syd S. Peng 院士 Academician, West Virginia University, USA	美国西弗吉尼亚大学 Academician, West Virginia University, USA
10:00-10:25	题目 Topic	美国长壁采煤法自动化工艺现状综述 A review of automatic technology of longwall coal mining in USA		
	主旨报告人 Plenary Speaker	袁亮院士 Liang Yuan	安徽理工大学 Academician, Anhui University of Science & Technology	
	10:25-10:50	题目 Topic	煤矿典型动力灾害研究新进展 Advanced Study of Typical Dynamic Hazards in Coal Mines	
10:25-10:50	主旨报告人 Plenary Speaker	康红普院士 Hongpu Kang	中煤科工开采研究院有限公司 Academician, CCTEG Mining Research Institute Co., Ltd, China	
	10:50-11:15	题目 Topic	千米深井围岩控制及厚煤层开采技术 Surrounding rock control and mining technology of thick coal seams with kilometer deep	
	10:50-11:15	主旨报告人 Plenary Speaker	王国法院士 Guofa Wang	中煤科工开采研究院有限公司 Academician, CCTEG Mining Research Institute Co., Ltd, China
10:50-11:15	题目 Topic	厚煤层智能绿色高效开采技术与装备研发进展 Development of intelligent green and efficient mining technology and equipment for thick coal seams		

11:15-11:40	主旨报告人 Plenary Speaker	葛世荣院士 Shirong Ge	中国矿业大学 (北京) Academician, China University of Mining and Technology-Beijing
	题目	中国煤矿智能化开采技术发展	
	Topic	Development of intelligent coal mining technology in China	
11:40-12:05	主旨报告人 Plenary Speaker	乔建永教授 Jianyong Qiao	北京邮电大学 Professor, Beijing University of Posts and Telecommunications
	题目	采矿方法中的前沿科学问题	
	Topic	Frontier scientific issues in mining methods	

主持人：郭文兵、李杨

Chairman: Wenbing Guo/ Yang Li

14:00-14:20	特邀报告人 Keynote Speaker	Scott Dunbar	加拿大英属哥伦比亚大学 教授 Professor, The University of British Columbia
	题目	待定	
	Topic	Undetermined	
14:20-14:40	特邀报告人 Keynote Speaker	来兴平 Xingping Lai	西安科技大学 教授、校长 Professor & President, Xi'an University of Science and Technology
	题目	西部生态脆弱区厚煤层采动致灾调控关键技术研究	
	Topic	Key technology of mining disaster-induced control in thick coal seams with ecologically fragile region of western China	
14:40-15:00	特邀报告人 Keynote Speaker	Oliver Langefeld	德国克劳斯塔尔工业大学 教授 Professor, Clausthal University of Technology, Germany
	题目	矿业的责任	
	Topic	Responsibilities of the Mining industry	
15:00-15:20	特邀报告人 Keynote Speaker	张吉雄 Jixiong Zhang	中国矿业大学 教授 Professor, China University Of Mining & Technology
	题目	深部煤炭资源“采选充+X”绿色化开采技术与实践	
	Topic	"Mining, selection and filling +X" green mining technology and practice in the deep coal resources	
15:20-15:40	特邀报告人 Keynote Speaker	Ismet Canbula	澳大利亚新南威尔士大学 教授 Professor, UNSW Minerals and Energy Resources Engineering
	题目	煤炭地下开采岩层支护的挑战	
	Topic	Ground support challenges in underground coal mines	
15:40-16:00	特邀报告人 Keynote Speaker	于斌 Bin Yu	重庆大学 教授 Professor, Chongqing University
	题目	千万吨级特厚煤层智能化综放开采关键技术及示范	
	Topic	Key technology and demonstration of intelligent longwall top coal caving in extra-thick coal seams with an annual output of ten million tons	
16:00-16:20	特邀报告人 Keynote Speaker	Kretschmann, Jürgen	德国 THGA Gesch äfts f ührung, 教授 Professor, THGA Gesch äfts f ührung
	题目	后采矿转型: 整体解决方案	
	Topic	Post-mining-a holistic approach	

16:20-16:40	特邀报告人 Keynote Speaker	郭文兵 Wenbing Guo	河南理工大学 教授 Professor, Henan Polytechnic University
	题目 Topic	“三软”厚煤层综放工作面智能开采关键技术及应用 Key technology and application of intelligent mining in longwall top coal caving with “three soft” thick coal seams	
16:40-17:00	特邀报告人 Keynote Speaker	闫少宏 Shaohong Yan	中国矿业大学（北京）教授 Professor, China University of Mining and Technology-Beijing
	题目 Topic	大采高综放开采顶板“短悬臂梁-铰接岩梁”结构与支架工作阻力确定 “Short cantilever beam and hinged rock beam” structure of roof strata and determination of support working resistance in longwall with top coal caving in large mining height	
17:00-17:20	特邀报告人 Keynote Speaker	Thorben Bergmann Oliver Langefel	德国克劳斯塔尔工业大学 助教 Assistant professor, Clausthal University of Technology
	题目 Topic	废弃矿井水位上升过程中动态排气潜力研究 Dynamic outgassing potential of abandoned coal mines during mine water rise	
17:20-17:40	特邀报告人 Keynote Speaker	Armin Mozar	德国克劳斯塔尔工业大学 助教 Assistant professor, Clausthal University of Technology
	题目 Topic	长壁开采的支架自动化 Shield automation in longwall mining	
17:40-18:00	特邀报告人 Keynote Speaker	安德瑞安·巴图 金 Andrian Batugin	俄罗斯国立研究技术大学 院士 Academician, National University of Science and Technology (MISiS)
	题目 Topic	苏联与俄罗斯厚煤层开采的动力现象 Динамические явления при разработке мощных угольных пластов в СССР и России	

7月24日 上午 腾讯会议 650-560-495/福中苑

Morning, 24th Jul, Voov Meeting 650-560-495/ Fuzhongyuan

主持人: 周宏伟、徐刚

Chairman: Hongwei Zhou/ Gang Xu

8:30-8:50	特邀报告人 Keynote Speaker	许家林 Jialin Xu	中国矿业大学 教授 Professor, China University of Mining and Technology
	题目 Topic	铁路隧道下综放开采覆岩隔离注浆充填试验 Experiments of isolated grouting and filling for overburden in longwall top coal caving under railway tunnel	
8:50-9:10	特邀报告人 Keynote Speaker	Agioutantis Zach	美国肯塔基大学 教授 Professor, University of Kentucky, USA
	题目 Topic	煤矿井下甲烷气体浓度预测研究 Forecasting of Methane Gas Concentrations in Underground Coal Mines	
9:10-9:30	特邀报告人 Keynote Speaker	André Cezar Zingano	巴西南邦格里奥大学 教授 Professor, Federal University of Rio Grande do Sul, Brazil
	题目 Topic	煤矿巷道交叉点顶板失稳分析 Analysis of roof failure at the intersections in a coal mine	
9:30-9:50	特邀报告人 Keynote Speaker	Bern Klein	加拿大英属哥伦比亚大学 教授 Professor, The University of British Columbia, Canada
	题目 Topic	用于煤矿的传感器分类研究 Application of Sensor Based Classification for Coal Mining	
9:50-10:10	特邀报告人 Keynote Speaker	赵景礼 Jingli Zhao	中国矿业大学 (北京) 教授 Professor, China University of Mining and Technology-Beijing
	题目 Topic	厚煤层立体化错层位采煤法 3D split-level coal mining method in thick coal seams	
10:10-10:30	特邀报告人 Keynote Speaker	Vasileios Angelidakis	德国埃尔朗根-纽伦堡大学 博士后 英国纽卡斯尔大学 访问学者 Postdoctoral Fellow, Friedrich-Alexander-Universität Erlangen-Nürnberg Visiting Researcher, School of Engineering, Newcastle University
	题目 Topic	研究不规则粒子的颗粒材料的系统图像建模 Towards systematic image-informed modelling of granular materials with irregular particles	
10:30-10:50	特邀报告人 Keynote Speaker	杨科 Ke Yang	安徽理工大学 教授 Professor, Anhui University of Science and Technology
	题目 Topic	两淮矿区综放开采探索与实践 Exploration and practice of longwall top coal caving in Huainan and Huaibei regions	
10:50-11:10	特邀报告人 Keynote Speaker	杨胜利 Shengli Yang	中国矿业大学 (北京) 教授 Professor, China University of Mining and Technology-Beijing
	题目 Topic	近直立特厚煤层群开采岩层运动规律与防冲技术 Law of strata movement and rockburst prevention technology in near-vertical extra-thick seam group mining	

11:10-11:30	特邀报告人 Keynote Speaker	陈绍杰 Shaojie Chen	山东科技大学 教授 Professor, Shandong University of Science and Technology
	题目	断层构造应力下岩体采动响应特征模拟研究	
	Topic	Simulation study on mining response characteristics of rock mass under fault tectonic stress	
11:30-11:50	特邀报告人 Keynote Speaker	殷志强 Zhiqiang Yin	安徽理工大学 教授 Professor, Anhui University of Science and Technology
	题目	含瓦斯煤岩动静组合加载力学特性	
	Topic	Mechanical properties of gas-containing coal under static and dynamic loading	

主持人: 杨胜利、杨科

Chairman: Shengli Yang/ Ke Yang

14:00-14:20	特邀报告人 Keynote Speaker	于海涌 Haiyong Yu	中煤科工集团 研究员 Research Fellow, CCTEG Mining Research Institute Co., Ltd, China
	题目	放顶煤开采椭球体理论	
	Topic	Ellipsoidal theory of longwall top coal caving mining	
14:20-14:40	特邀报告人 Keynote Speaker	罗文 Wen Luo	神东煤炭集团公司 教授级高工 Professorial Senior Engineer, Shendong Coal Group Company
	题目	神东煤炭 8.8m 智能超大采高综采关键技术	
	Topic	Key technology for 8.8m intelligent oversized mining at Shendong Coal	
14:40-15:00	特邀报告人 Keynote Speaker	孟祥军 Xiangjun Meng	山东能源集团 教授级高工 Professorial Senior Engineer, Shandong Energy Group
	题目	特厚硬煤层超大采高综放开采成套技术与装备	
	Topic	Complete sets of technology and equipment for extra-thick hard coal seams with very large mining height in LTCC	
15:00-15:20	特邀报告人 Keynote Speaker	徐刚 Gang Xu	天地科技股份有限公司 研究员 Research Fellow, Tiandi Technology Co.
	题目	综放工作面顶板灾害发生机理及防治技术	
	Topic	Mechanisms and prevention techniques of roof hazards in longwall top coal caving panel	
15:20-15:40	特邀报告人 Keynote Speaker	陈建强 Jianqiang Chen	神华新疆能源有限责任公司 高工 Senior Engineer, Shenhua Xinjiang Energy Co.
	题目	急倾斜特厚煤层大段高放顶煤开采关键技术研究及智能化建设示范	
	Topic	Key technology and intelligent construction demonstration of a large height LTCC panel in deeply inclined extra-thick seams	
15:40-16:00	特邀报告人 Keynote Speaker	陈贵 Gui Chen	淮北矿业(集团)有限责任公司技术中心 高工 Senior Engineer, Technology Centre of Huabei Mining (Group) Co.
	题目	信湖煤矿智能化综放开采关键技术研究与应用	
	Topic	Research and application of key technology for longwall top coal caving in Xihu coal mine	

16:00-16:20	特邀报告人 Keynote Speaker	潘卫东 Weidong Pan	中国矿业大学（北京）副教授 Associate Professor, China University of Mining and Technology-Beijing
	题目	淮北矿区复杂大倾角煤层综放开采关键技术研究	
	Topic	Key technology of longwall top coal caving under a complex large inclination coal seam in Huaibei mining area	
16:20-16:40	特邀报告人 Keynote Speaker	李杨 Yang Li	中国矿业大学（北京）教授 Professor, China University of Mining and Technology - Beijing
	题目	鸳鸯湖矿区近距离煤层高效协调开采关键技术研究	
	Topic	Key technology on efficient and coordinated mining of nearby coal seams in yuanyang lake mining area	
16:40-17:00	特邀报告人 Keynote Speaker	孔德中 Dezhong Kong	贵州大学 教授 Professor, Guizhou University
	题目	基于 RBF 神经网络的重复采动下端顶板失稳预警模型研究	
	Topic	Early warning model of roof failure under repeated mining based on RBF neural network	
17:00-17:20	特邀报告人 Keynote Speaker	王兆会 Zhaohui Wang	中国矿业大学（北京）副教授 Associate Professor, China University of Mining and Technology-Beijing
	题目	采动应力旋转驱动顶煤破碎机理与轨迹控制研究	
	Topic	Top coal failure mechanism and trajectory control driving by mining stress rotational	
17:20-17:40	特邀报告人 Keynote Speaker	张锦旺 Jinwang Zhang	中国矿业大学（北京）副教授 Associate Professor, China University of Mining and Technology-Beijing
	题目	液体介入提高难辨别煤矸红外图像识别准确率	
	Topic	Liquid intervention improving the accuracy of infrared image recognition coal/gangue	
17:40-18:00	特邀报告人 Keynote Speaker	魏炜杰 Weijie Wei	中国矿业大学（北京）讲师 Lecturers, China University of Mining and Technology - Beijing
	题目	综放开采顶煤放出体理论方程与形态演化特征研究	
	Topic	Theoretical equations and shape characteristics of the drawing body in LTCC	
18:00-18:20	特邀报告人 Keynote Speaker	孔朋 Peng Kong	安徽理工大学 讲师 Lecturers, Anhui University of Technology
	题目	采动影响下断层滑移动力响应及冲击危险性研究	
	Topic	Study on dynamic response of fault slip and rock burst potential under the influence of mining	

7月25日上午 腾讯会议 650-560-495/福中苑

Morning, 25th Jul, Voov Meeting 650-560-495/ Fuzhongyuan

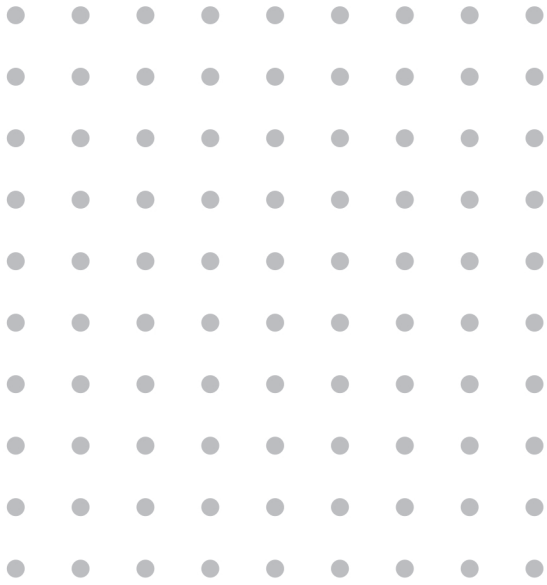
主持人: 刘洪涛、赵志强、邓雪杰、陈见行

Chairman: Hongtao Liu/ Zhiqiang Zhao/ Xuejie Deng/Jianhang Chen

8:30-8:40	报告人 Speaker	唐岳松 Yuesong Tang	中国矿业大学(北京), 博士研究生 Ph.D Candidate, China University of Mining & Technology-Beijing
	题目 Topic	深井工作面裂隙发育顶板微震活动特征与危险区预测 Characteristics of microseismic activity and prediction of dangerous areas in fractured roof of the panel with large buried depth	
8:40-8:50	报告人 Speaker	朱存利 Cunli Zhu	中国矿业大学, 博士研究生 Ph.D Candidate, China University of Mining and Technology
	题目 Topic	深部矿山地热与煤炭资源协同开发技术与方法 Technology and method of collaborative development of geothermal and coal resources in deep mines	
8:50-9:00	报告人 Speaker	Lina Xie	加拿大英属哥伦比亚大学, 博士研究生 Ph.D Candidate, The University of British Columbia
	题目 Topic	废弃煤矿的复垦与绿化 Reclamation and revegetation on abandoned coal mine	
9:00-9:10	报告人 Speaker	刘之喜 Zhixi Liu	安徽理工大学, 博士研究生 Ph.D Candidate, Anhui University of Science and Technology
	题目 Topic	应变速率和尺寸效应对岩石能量积聚与耗散的影响 Effect of strain rate and size on the energy accumulation and dissipation of rock	
9:10-9:20	报告人 Speaker	李涛 Tao Li	中国矿业大学(北京), 博士研究生 Ph.D Candidate, China University of Mining & Technology-Beijing
	题目 Topic	深埋薄基岩厚煤层开采覆岩导水裂隙演化规律研究 Study on evolution mechanism of water flowing fracture in deeply buried thick coal seams mining with thin bed rock	
9:20-9:30	报告人 Speaker	李法鑫 Faxin Li	山东科技大学, 硕士研究生 Graduate, Shandong University of Science and Technology
	题目 Topic	岩煤高比灰岩-煤组合物体变形破坏特征影响研究 Study on the influence of rock-coal height ratio on the deformation failure characteristics of limestone-coal composite	
9:30-9:40	报告人 Speaker	郭士婕 Shijie Guo	中国矿业大学, 博士研究生 Ph.D Candidate, China University of Mining & Technology
	题目 Topic	微生物矿化煤矸石基充填材料宏微观特性探究 Study on macro and micro characteristics of microbial mineralized gangue based backfilling materials	
9:40-9:50	报告人 Speaker	Xu Li	澳大利亚新南威尔士大学, 博士研究生 Ph.D Candidate, UNSW Minerals and Energy Resources Engineering
	题目 Topic	岩石破坏过程中损伤表征的无损监测技术研究 An investigation of non-destructive monitoring technologies for damage characterization during rock failure process	

9:50-10:00	报告人 Speaker	吴犇牛 Benniu Wu	安徽理工大学, 硕士研究生 Graduate, Anhui University of Science and Technology
	题目	新型裂隙岩体注浆加固性能测试装置	
	Topic	New Testing Device for the Grouting Reinforcement Performance of Fractured Rocks	
10:00-10:10	报告人 Speaker	马志宝 Zhibao Ma	河南理工大学, 博士研究生 Ph.D Candidate, Henan Polytechnic University
	题目	电视信号铁塔下综放开采与动态保护技术	
	Topic	Fully mechanized caving mining and dynamic protection technology under TV signal tower	
10:10-10:20	报告人 Speaker	岳豪 Hao Yue	中国矿业大学(北京), 博士研究生 Ph.D Candidate, China University of Mining & Technology-Beijing
	题目	采矿三维相似模拟实验平台开发及实验研究	
	Topic	Development and experimental research of three-dimensional physical simulation experimental platform for coal seam mining	
10:20-10:30	报告人 Speaker	Yiran Zhang	加拿大英属哥伦比亚大学, 硕士研究生 Graduate, THE UNIVERSITY OF BRITISH COLUMBIA
	题目	硫化矿物和煤的双能 X 射线透射分析评价	
	Topic	Assessment of Dual-Energy X-ray Transmission Analysis on Sulphide Mineral and Coal	
10:30-10:40	报告人 Speaker	董超伟 Chaowei Dong	中国矿业大学, 博士研究生 Ph.D Candidate, China University of Mining and Technology
	题目	煤矿开采嗣后空间矸石注浆充填技术研究	
	Topic	Research on gangue grouting backfilling technology in subsequent space of coal seam mining	
10:40-10:50	报告人 Speaker	汪林志 Linzhi Wang	安徽理工大学, 硕士研究生 Graduate, Anhui University of Science and Technology
	题目	干湿循环耦合连续荷载作用下混凝土的吸水性和力学特性	
	Topic	Water absorption and mechanical characteristics of concrete under continuous Loading Coupled with Wet-dry cycle	
10:50-11:00	报告人 Speaker	刘凤琪 Fengqi Liu	中国矿业大学(北京), 博士研究生 Ph.D Candidate, China University of Mining & Technology-Beijing
	题目	智能综放煤矸堆积体含矸率识别研究	
	Topic	Study on recognition of gangue content of gangue accumulation in intelligent LTCC panel	
11:00-11:10	报告人 Speaker	张东晓 Dongxiao Zhang	山东科技大学, 博士研究生 Ph.D Candidate, Shandong University of Science and Technology
	题目	深部巷道动载试验系统及初步应用	
	Topic	Development and application of a novel deep roadway test system with dynamic-static loading	
11:10-11:20	报告人 Speaker	贺德印 Deyin He	河南理工大学, 博士研究生 Ph.D Candidate, Henan Polytechnic University
	题目	锚索偏心树脂锚固特征分析及锚固剂推送限位装置设计	
	Topic	Analysis of eccentric resin anchoring characteristics for cable bolt and the design of pushing and limiting device for resin cartridges	

11:20-11:30	报告人 Speaker	Sarvesh Kumar Singh, Simit Raval.	澳大利亚新南威尔士大学, 博士研究生 Ph.D Candidate, UNSW Minerals and Energy Resources Engineering
	题目	利用移动激光扫描的地下矿井自动监测技术	
	Topic	Automated monitoring of underground mines using mobile laser scanning	
11:30-11:40	报告人 Speaker	时培涛 Peitao Shi	中国矿业大学, 博士研究生 Ph.D Candidate, China University of Mining and Technology
	题目	特厚煤层长壁逐巷胶结充填技术研究与应用	
	Topic	Research and application of long-wall roadway by roadway cemented backfilling mining technology in extra thick coal seam	
11:40-11:50	报告人 Speaker	张浩 Hao Zhang	安徽理工大学, 硕士研究生 Graduate, Anhui University of Science and Technology
	题目	高压软岩巷道柔性锚杆主动支护技术研究	
	Topic	Study on active support technology of flexible bolt in high pressure soft rock roadway	
11:50-12:00	报告人 Speaker	任玉琦 Yuqi Ren	中国矿业大学(北京), 博士研究生 Ph.D Candidate, China University of Mining & Technology-Beijing
	题目	采空区垮落顶板形态及其演化特征研究	
	Topic	Structure form and evolution characteristic of collapsed roof in goaf	
12:00-12:05	闭幕式 Closing Ceremony		



腾讯会议二维码 | Voov meeting QR code

腾讯会议 ID: 650-560-495

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