



The XVIII International Congress for Mine Surveying

Smart Surveying and Mapping & Green Mine

CONGRESS PROGRAM

Beijing · Xuzhou · Shanghai

China

26th Oct.- 29th Oct. 2023

<https://www.ism2023.org.cn/>

Message from ISM President

We, the Organizing Committee for the XVIII International Congress for Mine Surveying, warmly welcome colleagues to attend the conference scheduled to take place in China from 26 to 29 October 2023.

Established in 1969, the International Society for Mine Surveying (ISM) is a non-profit academic organization associated with the United Nations Educational, Scientific and Cultural Organization (UNESCO). It currently has 43 membership countries and has held 17 global assemblies, once every three years. The Congress is the largest and the most prominent assembly of world leading professionals of mine surveying. The main purpose of the congress is to bring together world leading scientists, academics, professionals, manufactures and entrepreneurs to share and showcase their latest achievements in the broad area of surveying, mining and geospatial. It is hoped that, the congress could act as a catalyst in advancing mine surveying and the geospatial industry in general and be a great opportunity to meet colleagues to foster collaboration, knowledge exchange and discussion of hotspots and future trends etc.

The congress will be featured with presidium meetings, plenary/keynote sessions, panel discussions, oral presentations, poster presentations and technical exhibitions as well as sessions dedicated to young professionals and postgraduate students. In addition, there are also a number of social and cultural tour programs organized by the congress. Moreover, the Congress is coincident with the celebration of the 70th Anniversary of Chinese Mine Surveying. An award ceremony will be held for outstanding papers and presentations at the closing ceremony of the conference.

The main venue for the congress will be in Xuzhou, a key transport hub in China. Xuzhou has a long legendary history of more than 6,000 years. Approximately 2,000 years ago, Xuzhou was China's political center in the Han Dynasty. Xuzhou is proud to be ranked as one of the most livable cities in China. The congress presidium meeting and technical tour sessions will be held in Beijing and Shanghai, respectively.

Rest assured, the ISM 2023 Committee team will make every effort in making the congress to be a “most” pleasant and enjoyable event for all participants and their accompanists.

The congress will cover a wide range of topics related to mine surveying, mining and geospatial spanning from education and knowledge transfer, intelligent surveying and mapping, digital and smart mine, exploitation and utilization of underground space, 3S (remote sensing, GIS, GNSS) technologies, land reclamation and ecological restoration, environment monitoring and green mine, future mining, artificial intelligence (AI), big data and digital twin, disaster monitoring and emergency management etc.

Conference Highlights:

- Keynote/plenary speeches by renowned experts in the broad area of mine surveying,
- Technical sessions featuring research paper presentations, showcasing the latest findings and innovations,
- Panel discussions on emerging trends, hotspot, challenges and opportunities etc.
- Networking and social events to appreciate the legendary ancient Chinese culture and to foster collaboration and connection among participants.

Please visit the Congress Website at <http://www.ism2023.org.cn/> for all necessary information. We encourage you to register your attendance as early as possible in the Congress Website and submit your abstract and full paper according to the congress timelines.



Huang Leting
ISM President



Axel Preuße
ISM Vice President



Hendrik Grobler
ISM Vice President

Congress Organizations

Instructed by:

International Society for Mine Surveying
Chinese Society for Geodesy, Photogrammetry and Cartography
China Coal Society

Organized by:

China University of Mining and Technology
China University of Mining and Technology (Beijing)
Henan Polytechnic University
Anhui University of Science and Technology

Co-organized by:

Shanghai Huace Navigation Technology Co., Ltd.
Guangzhou Southern Surveying and Mapping Technology Co., Ltd.
Hexconn Surveying and Geographic Information System (Qingdao) Co., Ltd
International Journal of Coal Science & Technology

Supported by:

Aachen University of Technology, Germany
Freiberg University of Technology, Germany
University of New South Wales, Australia
University of Johannesburg, South Africa
AGH University of Technology, Poland
The Construction Program of Space-Air-Ground-Well Cooperative Awareness Spatial Information Project
Mine Surveying Professional Committee of Chinese Society for Geodesy, Photogrammetry and Cartography
Mine Surveying Professional Committee of China Coal Society
Technical Appraisal Committee for Coal Mining Damage of China Coal Society
Coal Mine Land Reclamation and Ecological Restoration Committee of China Coal Society
International Union of Higher Education in Mining, Energy and Environment
Key Laboratory of Land Environment and Disaster Monitoring of the Ministry of Natural Resources
Engineering Research Center of the Ministry of Education for Mine Ecological Restoration
Collaborative Innovation Center for Resource Utilization and Ecological Restoration of the Old Industrial Base in Jiangsu Province

Key Laboratory of Information Engineering for Resources and Environment in Jiangsu Province
 Jiangsu Natural Resources Think Tank China University of Mining and Technology Research Base
 Ecological Restoration Network | Easy Restoration College
 International Journal of China University of Mining & Technology
 China Mining Magazine
 Metal Mines

Congress Committee

Advisory Committee

Chair:

Deren Li	Academician of the Chinese Academy of Sciences, Academician of the Chinese Academy of Engineering
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Co-Chairs:

Feng Liu	President of China Coal Society
Chaozhi Song	President of Chinese Society for Geodesy, Photogrammetry and Cartography
Heping Xie	Professor of Shenzhen University, Academician of the Chinese Academy of Engineering
Liang Yuan	Professor and President of Anhui University of Science and Technology, Academician of the Chinese Academy of Engineering
Shirong Ge	Professor and President of China University of Mining and Technology (Beijing), Academician of the Chinese Academy of Engineering

Advisory Board Members:

Chris Rizos	Professor of the University of New South Wales, President of the International Union of Geodesy and Geophysics (IUGG), former President of the International Association of Geodesy (IAG)
Micheal Sideris	Professor of the University of Calgary, former President of the IUGG and IAG
William Cartwright	Honorary Professor of the Royal Melbourne Institute of Technology, former President of the International Association of Cartography
Serkan Saydam	Professor of University of New South Wales, President of The Society of Mining Professors
Hua Guo	Chairman of the 26th World Mining Congress and CSIRO Research Director for Mining
Yuanxi Yang	Professor of Xi'an Institute of Surveying and Mapping, Academician of the Chinese Academy of Sciences

Jianya Gong	Professor of Wuhan University, Academician of the Chinese Academy of Sciences
Huadong Guo	Professor of Chinese Academy of Sciences Aerospace Information Innovation Institute, Academician of the Chinese Academy of Sciences
Manchao He	Professor of China University of Mining and Technology (Beijing), Academician of the Chinese Academy of Sciences
Heping Sun	Professor of the Institute of Precision Measurement Science and Technology Innovation, Academician of the Chinese Academy of Sciences
Suping Peng	Professor of China University of Mining and Technology (Beijing), Academician of the Chinese Academy of Engineering
Jiancheng Li	Professor and president of Central South University, Academician of the Chinese Academy of Engineering
Renzhong Guo	Professor of Shenzhen University, Academician of the Chinese Academy of Engineering
Guofa Wang	Chief Scientist of China Coal Technology and Engineering Group, Academician of the Chinese Academy of Engineering
Jun Chen	Research Fellow of National Geographics Center of China, Academician of the Chinese Academy of Engineering

To be updated.

Academic Committee

Chair:

Leting Huang	Professor of China University of Mining and Technology, President of the ISM
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Co-Chairs:

Axel Preuße	Professor of RWTH Aachen University, Vice President of the ISM
Hendrik Grobler	Professor of University of Johannesburg, Vice President of the ISM
Zhengfu Bian	Professor and Vice President of China University of Mining and Technology, Candidate for the Chair of Commission I of the ISM
Fred Cawood	Professor of University of the Witwatersrand, Advisor of South African Government Mining Affairs, Candidate for the Chair of Commission II of the ISM
Joerg Benndorf	Professor of the Technical University of Freiberg, Candidate for the Chair of Commission III of the ISM
Ryszard Hejmanowski	Professor of AGH University, Academician of Polish Academy of Sciences, Chair of the Commission IV of the ISM
Simit Raval	Professor of The University of New South Wales, Candidate for the Chair of Commission V of the ISM

Youfeng Zou	Professor and Secretary of the Party Committee of Henan Polytechnic University, Chair of the Commission VI of the ISM
Ximin Cui	Professor and Vice-president of China University of Mining and Technology, Beijing
Kefei Zhang	Professor of China University of Mining and Technology, Fellow of the IAG
Yunjia Wang	Professor of China University of Mining and Technology
Zhenqi Hu	Professor of China University of Mining and Technology
Huayang Dai	Professor of China University of Mining and Technology, Beijing

Members:

Yibing Yao	Professor of Wuhan University
Fei Li	Professor of Wuhan University
Shihong Du	Professor of Peking University
Xiaohua Tong	Professor and Vice President of Tongji University
Lixin Wu	Professor of Central South University, Distinguished Young Scholar, Academician of the International Eurasian Academy of Sciences
Zhiwei Li	Professor of Central South University
Peijun Du	Professor of Nanjing University
Wenzhong Shi	Professor of Hong Kong Polytechnic University, academician of the International Eurasian Academy of Sciences, academician of the British Academy of Social Sciences
Xinming Tang	Professor and Chief Engineer of the Satellite Remote Sensing Application Center of the Ministry of Natural Resources
Qingjun Zhang	Professor of the China Academy of Space Technology, academician of the International Eurasian Academy of Sciences, academician of the Russian Academy of Astronautics
Yu Wang	Professor, Aerospace Information Innovation Institute, Chinese Academy of Sciences
Bailian Lai	Secretary of the Party Committee and Director of the Aerial Surveying and Remote Sensing Bureau of the China Coal Geology Administration
Bingnan Hu	Research Fellow of China Coal Technology and Engineering Group, Member of the Presidium of the ISM
Tianbao Hu	President of the Safety and Emergency Research Institute of China Coal Geology Administration
Xiaodong Wang	Secretary of the Party Committee of Hebei Geological Surveying and Mapping Institute
Wenkai Liu	Professor and President of North China University of Water Resources and Electric Power
Shuanggen Jin	Professor and Vice President of Henan Polytechnic University
Zhong Xie	Professor of China University of Geosciences (Wuhan)

Yongsheng Zhang	Professor of PLA Information Engineering University of the PLA Strategic Support Force
Qing Zhu	Professor of Southwest Jiaotong University
Zhenhong Li	Professor and Dean of Chang'an University
Fanlin Yang	Professor and Vice President of Shandong University of Science and Technology
Jingxiang Gao	Professor of China University of Mining and Technology
Xuexiang Yu	Professor and Dean of Anhui University of Science and Technology
Yong Xue	Professor of China University of Mining and Technology, Academician of the International Eurasian Academy of Sciences

To be updated.

Organizing Committee

Chair:

Po Liu, Xuefeng Song, Shirong Ge, Youfeng Zou, Liang Yuan

Presiding Chair:

Zhengfu Bian, Ximin Cui, Shuanggen Jin, Pingsong Zhang

Co-Chair:

Nanshan Zheng, Liangji Xu, Shougang Wang, Zhanliang Yuan, Xuexiang Yu, Huyang Dai

General Secretary:

Qianxin Wang, Fushun Han, Guoliang Chen, Kai Qin, Weijie Xiu, Jun Li, Xingwang Zhao

Secretary:

Zengke Li, Yongjun Yang, Dongsheng Zhao, Feng Zhao, Huaizhan Li, Yueguan Yan, Lailiang Cai, Chao Liu

Members:

A. Malinowska	Republic of Poland National Representative of the ISM, Member of IV ISM Commission, Academician of Polish Academy of Sciences
G.A. Mokhitli	President of the South African Society of Mine Surveyors
D. Anderson	South Africa National Representative of the ISM,
C. Moy	Australia National Representative of the ISM
A. Chrzanowski	Canada National Representative of the ISM
M. Novosad	Czech Republic National Representative of the ISM
E. Hoxha	Albania National Representative of the ISM
G. Mayer	Austria National Representative of the ISM
S. Topalov	Bulgaria National Representative of the ISM
K. Kangas	Finland National Representative of the ISM

I. Chunuev	Kyrgyz Republic National Representative of the ISM, Chair of Kyrgyzstan Mining Society
M. Nurpeissova	Kazakhstan National Representative of ISM
Y. Gelen	Minister of Heavy Industry of Mongolia, Mongolia national Representative of the ISM
V. Sedlák	Slovakia National Representative of the ISM
I. Havasi	Hungary National Representative of the ISM
A. Kshanovskaya	Russian National Representative of the ISM
E. S. Ludvigsen	Norway National Representative of the ISM
Vo Chi My	Vietnam National Representative of the ISM
J. J. Mallorqui	Professor of the Polytechnic University of Catalonia, Spain
Bogdanov Yuriy	Former Director of the National Aeronautics and Astronautics Laboratory of the Former Soviet Union
Yunjia Wang	Professor of China University of Mining and Technology
Yonghai Teng	Vice-Chair of the Mine Surveying Professional Committee of the China Coal Society
Huaxing Zhang	Chair of the Technical Appraisal Committee for Coal Mining Damage of China Coal Society
Zhenqi Hu	Professor of China University of Mining and Technology
Wu Xiao	Professor of Zhejiang University
Bingbing He	Professor of University of Electronic Science and Technology of China, Secretary of the CPC Committee
Defu Che	Professor of Northeastern University
Nisha Bao	Professor of Northeastern University
Zefa Yang	Professor of Central South University
Mingchang Wang	Professor of Jilin University
Shaoliang Zhang	Professor and Director of the Office of Undergraduate Academic Affairs of China University of Mining and Technology
Kazhong Deng	Professor of China University of Mining and Technology
Guangli Guo	Professor of China University of Mining and Technology
Jing Li	Professor of China University of Mining and Technology(Beijing)
Jinman Wang	Professor and Vice Dean of China University of Geosciences (Beijing)
Zhizhong Kang	Professor and Vice Dean of China University of Geosciences (Beijing)
Fengyuan Wei	Professor of Henan Polytechnic University
Huizhong Zhu	Associate Professor and Vice President of Anhui University
Wanqiang Yao	Professor of Xi'an University of Science and Technology
Yan Jiang	Professor of Shandong University of Science and Technology
Jian Wang	Professor of Beijing University of Civil Engineering and Architecture
Jin Zhang	Professor of Taiyuan University of Technology
Xuequn Wu	Professor of Kunming University of Science and Technology

Xiaosheng Liu	Professor of Jiangxi University of Science and Technology
Sichun Long	Professor of Hunan University of Science and Technology
Xiong Pan	Professor of Wuhan Textile University
Lei Wang	Professor of Anhui University of Science and Technology
Zhanjun Xu	Professor of Shanxi Agricultural University
Hong Hu	Associate Professor of Anhui University
Zhen Shi	Associate Professor of Chang'An University
Jian Wang	Associate Professor of Shandong University of Science and Technology

To be updated.

Agenda

Date 日期	Time 时间	Content 活动内容	Venue 地点
25/Oct/2023 2023 年 10 月 25 日	08:00-20:00	Arrival at Beijing Capital International Airport 抵达北京首都机场	Beijing Capital International Airport; Xijiao Hotel, Beijing 北京首都机场, 西郊宾馆 北京
26/Oct/2023 2023 年 10 月 26 日	8:30-11:00	The 50 th ISM Presidium Meeting Part A 第 50 次 ISM 主席团会议 (上半场)	China University of Mining and Technology (Beijing), Beijing City 中国矿业大学 (北京), 北京
	9:00-22:00	International delegates travel by express train from Beijing to Xuzhou 国际代表乘高铁从北京到徐州 Register 报到	Beijing South Railway Station, Xuzhou East Railway Station 北京南站, 徐州东站 Dalonghu International Conference Center, Xuzhou City 徐州市大龙湖国际会议中心
	18:30-20:00	Buffet Dinner 自助晚餐	
27/Oct/2023 Morning 2023 年 10 月 27 日上午	07:00-08:30	Buffet Breakfast 自助早餐	Dalonghu International Conference Center, Xuzhou City 徐州市大龙湖国际会议中心
	08:30-09:20	Opening Speech 开幕式	
	09:20-09:40	Congress Group Photo 合影	
	09:40-09:50	Tea Break 茶歇	
	09:50-12:20	Plenary Keynote Speech 大会主旨报告 The 70th Anniversary of Mine Surveying in China 中国矿山测量 70 周年纪念座谈	
	12:30-13:30	Buffet Lunch 自助午餐	
27/Oct/2023 Afternoon 2023 年 10 月 27 日下午	14:00-16:00	Plenary Keynotes Speech 大会主旨报告	Dalonghu International Conference Center, Xuzhou City 徐州市大龙湖国际会议中心
	16:00-16:20	Tea Break 茶歇	
	16:20-18:00	Plenary Keynotes Speech 大会主旨报告	

Date 日期	Time 时间	Content 活动内容	Venue 地点
	18:30-21:00	Welcome Dinner, Theatrical performances 欢迎晚宴，文艺演出	Dalonghu International Conference Center, Xuzhou City 徐州市大龙湖国际会议中心
28/Oct/2023 Morning 2023 年 10 月 28 日上午	07:00-08:30	Buffet Breakfast 自助早餐	Dalonghu International Conference Center, Xuzhou City 徐州市大龙湖国际会议中心
	09:00-10:20	Session Presentations 分论坛报告	
	10:20-10:40	Tea Break 茶歇	
	10:40-12:00	Session Presentations 分论坛报告	
	12:30-13:30	Buffet Lunch 自助午餐	
28/Oct/2023 Afternoon 2023 年 10 月 28 日下午	14:00-15:40	Session Presentations 分论坛报告	
	15:40-16:00	Tea Break 茶歇	
	16:00-17:40	Session Presentations 分论坛报告	
	14:00-17:40	The 50 th ISM Presidium Meeting (Part B) in conjunction with 第 50 次 ISM 主席团会议（下半场）	
	18:00-18:30	Closing Ceremony, Award Ceremony 闭幕式，颁奖典礼	
	18:30-20:00	Buffet Dinner 自助晚餐	
29/Oct/2023 Morning 2023 年 10 月 29 日	8:00-16:00	Technical Tours, Departure 技术考察、离会	Choice 1: Huace Company, Shanghai City (high-speed train from Xuzhou to Shanghai) Choice 2: Pan'an Lake, Xuzhou 选项 1: 上海华测（高铁前往）；选项 2: 徐州潘安湖

Keynote Speakers

No. 序号	Name 姓名	Position/Affiliation 职位/单位
1	Deren Li	Dean, the School of Environment and Spatial Informatics of CUMT; Professor, Wuhan University; Academician, Chinese Academy of Sciences; Academician, the Chinese Academy of Engineering
2	Yuan Liang	Academician, Chinese Academy of Engineering
3	Guofa Wang	Academician, Chinese Academy of Engineering
4	Axel Preuße	Professor, RWTH Aachen University, Vice President of the ISM
5	Manchao He	Academician, Chinese Academy of Engineering
6	Ryszard Hejmanowski	Professor, AGH University, Academician of Polish Academy of Sciences, Chair of the Commission IV of the ISM
7	Zhengfu Bian	Professor, China University of Mining and Technology, President of the ISM
8	Shuanggen Jin	Professor and Vice President of Henan Polytechnic University
9	Syd S.Peng	Distinguished Professor of Henan Polytechnic University
10	Simit Raval	Professor of The University of New South Wales, Candidate for the Chair of Commission V of the ISM

About 10-12 Keynote Speakers.

To be updated.

Sessions

No. 序号	Theme 主题	Co-organizer 协办单位	Chair 主持人	Convener 召集人	Secretary 秘书	Contact 联系
Session 1 分论坛一	International Mine Surveying Education and Training, Disciplinary Development 国际矿山测量教育与学科发展	ISM Commission I , China University of Mining and Technology, St. Petersburg Mining University., China University of Mining and Technology(Beijing) ISM 第 I 委员会, 中国矿业大学, 圣彼得堡矿业大学, 中国矿业大学 (北京)	Zhengfu Bian, Shabarov Arkady Nikolaevich 卞 正 富 , Shabarov Arkady Nikolaevich	Ximin Cui, Yunjia Wang, Jan Blachowski 崔希民, 汪云甲, Jan Blachowski	Shaogang Lei 雷少刚	zfbian@cumt.edu.cn lsgang@126.com +8613852155849
Session 2 分论坛二	Digitalization of mine and mineral resource 矿山及矿产资源数字化	ISM Commission II, China University of Mining and Technology, University of The Witwatersrand, Shandong University of Science and Technology ISM 第 II 委员会, 中国矿业大学, 南非金山大学, 山东科技大学	Fred Cawood, Guoliang Chen Fred Cawood, 陈国良	Defu Che, Yan Jiang 车德福, 姜岩	Meng Sun 孙猛	chglcumt@163.com msun@cumt.edu.cn +8618361221968
Session 3 分论坛三	New Equipment and Technological Development of Surveying and Mapping 测绘新装备与技术	ISM Commission III, TU Bergakademie Freiberg, China University of Mining and Technology, Shandong University of Science and Technology, Chang'an University ISM 第 III 委员会, 德国弗莱贝格工业大学, 中国矿业大学, 山东科技大学, 长安大学	Joerg Benndorf, Jian Wang Joerg Benndorf, 王健	Qiuzhao Zhang, Zhen Shi, Min Ji 张秋昭, 石震, 季民	Zeyu Li, Min Zhai 李泽宇, 翟敏	wangj@sdust.edu.cn qiuzhao.zhang@cumt.edu.cn +8613969891707
Session 4 分论坛四	Mining Subsidence and Disaster Monitoring 矿山开采沉陷与灾害监测	ISM Commission IV, China University of Mining and Technology (Beijing), China University of Mining and Technology, AGH University of Science and Technology, Central South University ISM 第 IV 委员会, 中国矿业大学 (北京), 中国矿业大学, 波兰 AGH 科技大学, 中南大学	Ryszard Hejmanowski, Huayang Dai Ryszard Hejmanowski, 戴华阳	Guangli Guo, Zefa Yang, Weinan Deng 郭广礼, 杨泽发, 邓伟男	Huaizhan Li , Xugang Lian 李怀展, 廉旭刚	dhy@cumtb.edu.cn lh_zhan@163.com +8618761422238

No. 序号	Theme 主题	Co-organizer 协办单位	Chair 主持人	Convener 召集人	Secretary 秘书	Contact 联系
Session 5 分论坛五	Geological and Ecological Environment Monitoring and Treatment 地质与生态环境监测与治理	ISM Commission V, University of New South Wales, China University of Mining and Technology, Anhui University of Science and Technology ISM 第V委员会, 新南威尔士大学, 中国矿业大学, 安徽理工大学	Simit Raval, Shaoliang Zhang Simit Raval, 张绍良	Liangji Xu, Jinlou Huang, Hebing Zhang 徐良骥, 黄锦楼, 张合兵	Huping Hou 侯湖平	slzhang@cumt.edu.cn hphou@163.com +8613852144183
Session 6 分论坛六	Sustainable Development and Comprehensive Utilization of Resources 可持续发展与资源综合利用	ISM Commission VI, Henan Polytechnic University, Vietnam Mine survey Society, Key Laboratory for Survey, Monitoring and Protection of Natural Resources in Mining Cities, Ministry of Natural Resources ISM 第VI委员会, 河南理工大学, 越南矿山测量学会, 自然资源部矿业城市自然资源调查监测与保护重点实验室	Youfeng Zou, Vo Chi My, Wenfu Yang 邹友峰, Vo Chi My, 杨文府	Zhanliang Yuan, Changhua Liu, Huabing Chai 袁占良, 刘昌华, 柴华彬	Lailiang Cai 蔡来良	cll@hpu.edu.cn +8618739109523
Session 7 分论坛七	Land Reclamation and Ecological Restoration in Mining Areas 矿区土地复垦与生态修复	Land Reclamation and Ecological Restoration Professional Committee of China Coal Society 中国煤炭学会煤矿土地复垦与生态修复委员会	Zhenqi Hu 胡振琪	Jing Li, Jiu Huang 李晶, 黄赳	Zhen Mao 毛缙	huzq@cumtb.edu.cn lijing@cumtb.edu.cn +8615162235176
Session 8 分论坛八	New progress in remote sensing monitoring of coal mining and utilization 煤炭开采利用遥感监测新进展	China University of Mining and Technology, Northeastern University, The International Society for Digital Earth China National Committee (ISDE Central Committee) Digital Energy Professional Committee, International Society for Remote Sensing of Atmospheric Environment	Jason Cohen Jason Cohen	Nisha Bao, Kai Qin, Zeyang Song 包妮沙, 秦凯, 宋泽阳	Wenmin Hu 胡文敏	qinkai@cumt.edu.cn huwm@cumt.edu.cn +8615950663287

No. 序号	Theme 主题	Co-organizer 协办单位	Chair 主持人	Convener 召集人	Secretary 秘书	Contact 联系
		中国矿业大学，东北大学，国际数字地球学会 中国国家委员会（ISDE 中委会）数字能源专业 委员会，国际大气环境遥感学会				
Session 9 分论坛九	Architecture and Urban Underground Space 建筑与城市地下空间	Beijing University of Civil Engineering and Architecture 北京建筑大学	Jian Wang, Craig Hancock 王 坚 ， Craig Hancock	Xuexiang Yu, Zengke Li 余学祥，李增科	Fei Liu 刘飞	wangjian@bucea.edu.cn +8618611402060
Session 10 分论坛十	New Development and Innovative Applications of GNSS GNSS 技术及创新应用	China University of Mining and Technology 中国矿业大学	Kefei Zhang, Chris Rizos, Jingxiang Gao 张克非，Chris Rizos，高井祥	Xiaohong Zhang, Xingxing Li, Xuexi Liu 张小红，李星星，刘学 习	Peng Sun 孙鹏	profkzhang@cumt.edu.cn sunpcxs@cumt.edu.cn +8615152813889
Session 11 分论坛十一	Contemporary Geospatial Science and Technology and Its Role in Future Mining 现代空间信息技术与 未来采矿	China University of Mining and Technology 中国矿业大学	Kefei Zhang, Jamal Rostami 张克非，Jamal Rostami	Kaichang Di, Serkan Saydam, Mao Ye 邸凯昌，Serkan Saydam，叶茂	Hongtao Shi 时洪涛	hongtao.shi@cumt.edu.cn +8615629085921
Session 10 分论坛十二	Postgraduate Student Forum 研究生论坛及颁奖	China University of Mining and Technology, Liaoning University of Engineering and Technology, AGH University of Science and Technology 中国矿业大学，辽宁工程技术大学，波兰 AGH 科技大学	Aigong Xu, Agnieszka Malinowska 徐爱功， Agnieszka Malinowska	Qianxin Wang, Huizhong Zhu 王潜心，祝会忠	Dongsheng Zhao, Yifan Shen 赵东升，沈祎 凡	wqx@cumt.edu.cn dszhao@cumt.edu.cn +8613295842909

Note: 1) The organizing committee will issue certificates to the organizers of the sessions and certificates to the presenters. 2) Each session will provide opportunities for 10-15 oral presentations and about 10 poster bar (0.8m wide *2.0m high). If you're interested please contact.

To be updated.

The 50th ISM Presidium Meeting (Part A) in conjunction with The 70th Anniversary of Mine Surveying in China

Attendee

1. ISM President and Chairs of Commissions
2. Presidium member of ISM
3. National Representative of ISM
4. Distinguished guests for the 70th Anniversary of Mine Surveying in China

Agenda

1. Welcome speech
2. Participant confirmation
3. Apologies for absence
4. Acceptance of the agenda
5. Confirmation of voting rights
6. Review of the 49th Presidium Meeting
7. Commission and Country Report
8. Confirmation of new members.

To be updated.

The 50th ISM Presidium Meeting (Part B) in conjunction with The 70th Anniversary of Mine Surveying in China

Attendee

1. ISM President and Chairs of Commissions
2. Presidium member of ISM
3. National Representative of ISM
4. Distinguished guests for the 70th Anniversary of Mine Surveying in China

Agenda

1. Welcome speech
2. Participant confirmation
3. Apologies for absence
4. Acceptance of the agenda
5. Confirmation of voting rights
6. Review of the 49th Presidium Meeting
7. The 70th Anniversary of Chinese Mine Surveying
8. Election and Confirmation of the Chair, Co-Chairs, and Secretary of ISM Six Commissions.
9. Confirmation of new members.
10. Review the outstanding contributing scholars, outstanding young scholars, and excellent graduate student papers
11. Programme discussion/confirmation of the 19th ISM Congress (Time, location, and Activities)
12. Bid and vote for the 20th International ISM Congress

To be updated.

Register

Registration Type		Standard Rate
Chinese Delegates	General Delegates	1800 Chinese Yuan
	Student Delegates	900 Chinese Yuan
International Delegates	General Delegates	300 U.S. dollar/2200 Chinese Yuan
	Student Delegates	200 U.S. dollar/1500 Chinese Yuan
	Accompanying Person	100 U.S. dollar/800 Chinese Yuan

Note:

(1) Registration fees include attendance, conference materials, conference catering, and technical tour programs of Pa'an Lake (Located in Xuzhou City) or BeiDou technology (Located in Shanghai City). The conference accommodation, round-trip transportation are not included.

(2) For international delegates, there is no need to book a hotel on their own. We will reserve a hotel for you. When you register in the conference website, please indicate the type and quantity of rooms you need.

(3) Both registration and payment should be done on the conference official website. Please follow the website guide to complete your registration, payment, as well as electronic invoice application procedure.

(4) The conference official website (<https://www.ism2023.org.cn/register.html>) is the only platform for online payment of registration fee. Please do not hesitate to contact our staff for all queries and needs of assistance.

(5) The Wuhan Chytesy Aconf Co.,Ltd. is designated by this congress to receive registration fees, transportation and accommodation fees from international delegates.

Account Name	Wuhan Chytesy Aconf Co.,Ltd.
Bank Name	BANK OF CHINA LTD, HUBEI PILOT FREE TRADE ZONE WUHAN AREA BRANCH
Bank Address	NO.105, BUILDING A, NO.668 GAOXINDADAO, EAST LAKE HIGH-TECH DEVELOPMENT ZONE, WUHAN, HUBEI PROVINCE, CHINA.
Account Number	5742 7863 5224

(6) Invitation letters and hotel reservation will be provided to persons who have registered and paid the complete registration fee. Invitation letters can only be provided once the payment of registration is received. Please note when applying for your visa you should include invitation letters and hotel reservation.

Accommodation and Transportation

Accommodation

Caterings, including breakfast, tea break, lunch, dinner, are covered by the registration fees. There is no need to book a hotel on your own. The organizing committee will reserve hotel room(s) for you. After clicking on registration, please indicate the type and quantity of rooms you need. However, accommodation costs are self-funded, approximately 60-70 U.S. dollar per day.

Transportation

Time	Departure place	Destination Place	Transportation	Cost
25/Oct/2023	Your location	Beijing Capital Airport, Beijing City	Airplane	Self-funded
25/Oct/2023 08:00-20:00	Beijing Capital Airport, Beijing City	Xijiao Hotel, Beijing City (18 Wangzhuang Road, Haidian District, Beijing.)	Bus, 1 hour	Pick up service by the organizing committee without cost
26/Oct/2023 8:00-8:30	Xijiao Hotel, Beijing City	China University of Mining and Technology(Beijing) (11 Xueyuan Road, Haidian District, Beijing)	Walk, 10 minutes	Pick up service by the organizing committee without cost
26/Oct/2023 11:30-12:30	China University of Mining and Technology(Beijing)	Beijing South Railway Station	Bus, 30 minutes	Pick up service by the organizing committee without cost
26/Oct/2023 12:30-15:30	Beijing South Railway Station	Xuzhou East Railway Station	High speed rail, 3 hours	Volunteer assistance in buying tickets, The ticket price is approximately 45 U.S. dollar
26/Oct/2023 15:30-16:00	Xuzhou East Railway Station	Dalonghu International Conference Center, Xuzhou City	Bus, 20 minutes	Pick up service by the organizing committee without cost
29/Oct/2023 8:30-9:00	Xuzhou Primus Hotel, Xuzhou City	Xuzhou East Railway Station	Bus, 20 minutes	Pick up service by the organizing committee without cost
29/Oct/2023 9:00-12:30	Xuzhou East Railway Station	Shanghai Hongqiao Railway Station	High speed rail, 3 hours	Volunteer assistance in buying tickets, The ticket price is approximately 40 U.S. dollar

29/Oct/2023 9:00-12:30	Shanghai Hongqiao Railway Station	Shanghai Huace Navigation Technology Co., Ltd (577 Songying Road, Qingpu District, Shanghai)	Bus, 30 minutes	Pick up service by the organizing committee without cost
29/Oct/2023 16:00-17:00	Shanghai Huace Navigation Technology Co., Ltd	Shanghai Pudong International Airport	Bus, 1 hours	Pick up service by the organizing committee without cost
29/Oct/2023	Shanghai Pudong International Airport	Your location	Airplane	self-funded

Note:

1. International congress delegates can adjust their itinerary according to their own needs, and the organizing committee will provide necessary assistance.
2. The tickets for high speed rail can be booked from <https://www.12306.cn/en/index.html>
3. The hotel expense can be paid by cash or credit card.

Call for Abstracts and Oral Presentations

This congress will publish Congress Proceedings to include the accepted abstract. Please submit an English abstract of no less than 400 words at the personal center of the conference website (<http://www.ism2023.org.cn>) before **September 30, 2023**. The content of the abstract is in line with the main topics of the congress. Please also indicate your preference of presentation (oral or poster). The organizing committee will then select oral academic presentations from the abstracts.

The congress will run a young professional/postgraduate student session. For postgraduate students, please submit the full paper at the personal center of the conference website <http://www.ism2023.org.cn> before **September 30, 2023**. The congress will select a number of excellent postgraduate student papers based on our selection criteria and the number of abstracts accepted, certificates will be issued and all excellent papers will be given the opportunity of oral presentations; The first author of the paper must be a masters or doctoral student currently enrolled. Please select "Graduate-Student Forum" when submitting the paper.

Exhibition and Sponsorship

The exhibition will showcase everything associated with mining, mapping and surveying, from country pavilions to the latest mapping and surveying equipment and scientific developments. To discuss exhibition please email ism_china@126.com.

Type 类型	Exhibition and Sponsorship fee 展览费用	Benefits Included 服务方案
Silver 白银	30,000 Chinese Yuan 3 万元	Allocation of a 5 square meter exhibition area One page of introduction in the congress programme Congress website jump link Waiver of registration fee for 1 delegate 5 平米展览区域 会议手册中 1 个插页介绍 会议网站跳转链接宣传 免除 1 位参会代表注册费
Gold 黄金	50,000 Chinese Yuan 5 万元	Allocation of a 5 square meter exhibition area One page of introduction in the congress programme Congress website jump link Waiver of registration fee for 2 delegates Listed as a supporter of the congress 5 平米展览区域 会议手册中 1 个插页介绍 会议网站跳转链接宣传 免除 2 位参会代表注册费 列为大会支持单位
Diamond 钻石	100,000 Chinese Yuan 10 万元	Allocation of a 5 square meter exhibition area One page of introduction in the congress programme Congress website jump link Waiver of registration fee for 3 delegates Listed as a co-organizer of the congress 15 minute presentation in a session Convey thanks in the closing ceremony 7 平米展览区域 会议手册中 1 个插页介绍 会议网站跳转链接宣传 免除 3 位参会代表注册费 列为大会协办单位 提供 1 个分会场 15 分钟报告机会 闭幕式主持辞致谢

Awards

ISM Prestigious Contribution Award

The ISM Prestigious Contribution Award, sponsored by ISM Presidium in 2022, recognizes ISM member who had made great contribution to the development of ISM. The purpose of this award is to recognize the contributions of ISM member and encourage young people to participate in scientific and technological innovation and academia of mine surveying. The awarded members will gain the status of invited speaker at the ISM congress with registration and accommodation fees waived.

ISM Young Scholar Award

The ISM Young Scholar Award, sponsored by ISM Presidium in 2022, recognizes researchers who are less than 40 years old. The purpose of this award is to recognize the contributions of young researchers and encourage more young people to participate in scientific and technological innovation and academia of mine surveying. The awarded researchers will gain the status of invited speaker at the ISM congress with registration and accommodation fees waived.

ISM 2023 Congress Outstanding Student Paper Award

The session of Graduate-Student will award Outstanding Student according to the quality of the paper submitted by graduate students. The graduate students will gain the status of invited speaker at the ISM congress with registration and accommodation fees waived.

ISM 2023 Congress Best Oral Presentation Award

Each session will nominate 1 or 2 Best Oral Presentation Award.

ISM 2023 Congress Best Poster Award

Each session will nominate 1 Best Poster Award.

Venue

Xu Zhou City

Situated in the northwest of Jiangsu Province, Xuzhou is not only the largest city in northern Jiangsu but also one of the oldest cities in the province. It holds a significant position as the second largest railway hub in China, strategically located at the border area of Jiangsu, Shandong, Henan, and Anhui provinces. Here, the Beijing-Shanghai Railway and Lanzhou-Lianyungang Railway, two of China's main railways, converge.



With a history spanning thousands of years, Xuzhou boasts a rich cultural heritage, particularly as the second political center of the Han Dynasty (260-220). Presently, it serves as the core of the Huaihai economic development zone and stands as one of the nation's foremost agricultural product bases. When visiting Xuzhou, one cannot miss the awe-inspiring grand tombs, terracotta warriors, and stone sculptures from the Han Dynasty. Alongside other scenic attractions and beautiful natural wonders, the city emanates its own distinctive charm, leaving a lasting impression on every visitor. For more information about Xuzhou, please visit <https://www.travelchinaguide.com/cityguides/jiangsu/xuzhou/>.

China University of Mining and Technology



Established in 1909, China University of Mining and Technology is a prestigious national university directly under the administration of China's Ministry of Education. It holds a distinguished position as a participant in the national "211 Project" and "985 Innovation Platform for Advantageous Disciplines," both government initiatives aimed at fostering and advancing top-tier higher education institutions in China. With a remarkable history spanning over a century, CUMT is renowned as a leading, multi-disciplinary, research-oriented university, recognized for its significant contributions to the coal energy industry and the socio-economic development of the province. For more information about China University of Mining and Technology, please visit <http://www.cumt.edu.cn/>.

For the video of Xu Zhou City and China University of Mining and Technology, please visit <https://www.ism2023.org.cn/venue.html>.

Proposal from ISM President on the ISM online meeting on 19 May 2023

1. I hope that today's attendees can carry out the following tasks: 1) I hope you attend and make presentation on the congress, 2) invite related experts and scholars to attend and make presentation, 3) widely promote this conference and attract relevant doctoral and master's students to participate, 4) actively provide suggestions for the organization of this congress.

1. 希望今天参会人员开展如下工作：1) 希望本人能够参会并报告，2) 邀请熟悉专家学者参会并报告，3) 广泛宣传此次大会，并吸引相关博硕士研究生参会，4) 为本次会议的组织积极建言献策。

2. Four of the six ISM Commissions have vacancies in their chair (including Commission I, II, III and V), which are planned to be added during this year's presidium meeting. The preliminary list of candidates has been proposed. The purpose of this online meeting is to hope that these four candidates will perform excellently at this meeting and fully demonstrate their personal abilities and contributions.

2. 六个委员会其中四个委员会主席空缺（一、二、三、五），拟于今年主席团会议中增补，初步提出了人选名单，这次线上会议的目的是希望这四位候选人在这次会议上要表现优秀，充分展现出个人的能力水平和贡献。

3. The chair of the ISM Commissions (including the proposed chair candidate) should coordinate well with the session convener and secretary and make the session a success together.

3. 六个委员会主席（包括拟任主席）要与国内分论坛负责人对接好，共同把会议办好。

Contacts

If you need to inquire about related issues, please contact:

No.	Position	Name	Email/Tel.
1	ISM President	Prof. Leting Huang	ism_china@126.com
2	ISM Secretary/Synthetic transactions	Prof. Zengke Li Ass. Prof. Yongjun Yang	ism_china@126.com ; +8613952201264
3	http://www.ism2023.org.cn/ Website Manager	Dr. Feng Zhao	feng.zhao@cumt.edu.cn
4	Awards	Dr. Dongsheng Zhao	dszhao@cumt.edu.cn
5	International Affairs	Dr. Dawei Zhou	dwzhou2008@cumt.edu.cn