



International Society for Mine Surveying

Zoom Meeting ISM Commission 2
30 MAY 2024 10H00 – 12H00 (South Africa Time)



Agenda

1. Welcome and Apologies
2. Self-Introduction of Commission II members
3. Finalising the membership Commission II (F Cawood)
4. Introduction to the work of Commission (F Cawood)
5. Technical presentation: Digital Geology Support Technology -Creating Digital Holographic Geological Maps for Intelligent Coal Mines (by L Zaibin)
6. Discussion: Definition of MRM and Role of Mine Surveyor in MRM
7. General
 1. ISM presidium meeting in South Africa

Next Meeting: August 29th, 2024 | 10H00 – 12H00



Agenda: 1. Welcome and Apologies

1. Welcome
2. Apologies received
 1. Mr. Jurgens Visser (South Africa)
 2. Prof. Hamid Ashraf (Pakistan)
 3. Mr. Chris Moy (Australia)
 4. Mr. Alex Bals (South Africa)
3. Not present in the meeting
 1. Prof. Alexander Zagibalov
 2. Dr. Erik Ludvigsen
 3. Prof. Jacek Szewczyk
 4. Mr. Keith Leighfield
 5. Dr. Mykola E. Kaplanets
 6. Prof. Simit Raval
 7. Prof. Yuriy Aleksandrovich Kashnikov



Agenda: 2. Self-introduction

Introduce Working Committee (in the meeting)

1. Prof. Fred Cawood (Chair - South Africa)
2. Prof & Dr. Zaibin Liu (Co-Chair - China)
3. Ms. Yujia Yang (Secretary - China)
4. Prof Tao Fan (China)
5. Dr. Guihong Li (China)
6. Dr. Qiang Liu (China)
7. Ms. Xiaotian Jing (China)
8. Ms. Jiawen Zhao (China)
9. Ms. Yingying Gong (China)



Agenda: 2. Invited Members

Members present in the meeting

10. Prof. Axel Preuße (Germany)
11. Prof. Guoliang Chen (China)
12. Dr. Markus Mathey (Germany)
13. Prof. Qinghua Gu (China)
14. Prof. Zhenxin Zhang (China)



Agenda: 3. More nominations

Please put the title, name, surname, and email address in the chatbox

1. Dr. Yondon Gelen (Mongolia)
2. Dr. Ulziisaikhan Ganbold (Mongolia)



Agenda: 4. Work of Commission 2

Geometry of mineral deposits/Mineral resources management

- Monthly meetings for planning and work in-between Commission 2 meetings
- The three full meetings in 2024: May 30th, August 29th, November 28th
- Working committee to consider organizing a Commission 2 hybrid meeting to coincide 2024 presidium meeting

The purpose of ISM is to encourage co-operation by means of:

- Organisation of scientific congresses (ISM events);
- Establishment of commissions for special fields of mine surveying (Commission 2);
- Issuing publications, particularly those relating to congresses and the commissions;
- Co-operation with other Societies in mining, geodesy, geology, geophysics, etc;
- Worldwide co-operation by exchanging the students, academics, practitioners, etc.



Website lists Six ISM Commissions

ISM Commission 1: EDUCATION, LEGAL ISSUES, WEB-PRESENTATION, HISTORY

ISM Commission 2: GEOMETRY OF MINERAL DEPOSITS/MINERAL RESOURCES MANAGEMENT

ISM Commission 3: INSTRUMENTS, MINE SURVEYING MEASUREMENTS, MINING CARTOGRAPHY

ISM Commission 4: ROCK AND GROUND MOVEMENTS, SUBSIDENCE DAMAGES

ISM Commission 5: ENVIRONMENTAL PLANNING

ISM Commission 6: ECONOMIC TRANSFORMATIONS, SUSTAINABLE DEVELOPMENT, LAND RECLAMATION, NEW ENERGY RESOURCES

MORE PROPOSED IN CHINA (2023)

- Smart spatiotemporal information sensing for next generation mine survey and space mining
- Big earth observation data (Global mining risk impact assessments)
- Architecture and urban underground space



Agenda: 4. Work of Commission 2

Geometry of mineral deposits/Mineral resources management

The working committee has no information on past Commission 2 work

- Prof. Axel Preuße mentioned he is aware of Commission 2 minutes for meetings before 2010, when he was chairman. He will look at the minutes and share them with the working committee.
- Members are requested to send ideas on the purpose of Commission 2 and what should happen at Commission 2 meetings. Send an email to Prof Fred and Yujia about above.



Agenda: 5. Presentation

Technical presentation

Digital Geology Support Technology -Creating Digital Holographic Geological Maps
for Intelligent Coal Mines

Prof. L Zaibin

- The members expressed gratitude for an excellent presentation. See slides in a separate file.



Agenda: 6. Discussion

Definition of MRM and Role of Mine Surveyor in MRM

- ISM does not have a definition for MRM
- Members are requested to send ideas on the definition of MRM, and the role of mine surveyor in MRM. Send an email to Prof Fred and Yujia about the above.
- Prof. Axel Preuße mentioned that the committee should build on the work that was done before 2010.
- Some members mentioned:
 - Digitalization theme for all presentations
 - Transparency of mining systems (Communities)
 - Underground space, monitoring and control and repurposing of land
 - Dynamic mining and geology systems



Agenda: 7. General

7.1 ISM Presidium meeting in South Africa (October 14th-18th, 2024)

- Prof. Axel Preuße expressed deep concern about the lack of information on the presidium meeting in South Africa
- Prof. Fred Cawood offered to raise this concern with the organizing committee.
- A meeting with the organizing committee is arranged for June 4th, 2024.
- Next Meeting: August 29th, 2024 | 10H00 – 12H00



The International Society for Mine Surveying



Thank You!

A video recording of the meeting is available on request, please email Yujia (yujiawork163@163.com).