



International Society for Mine Surveying

Teams Meeting ISM Commission 2

29 August 2024 10H00 – 10H15 (South Africa Time)
08H00 – 08H15 UTC



Agenda

1. Welcome and Apologies (Introduction of Commission 2 members who attend the first time - F Cawood and L Zaibin)
 2. Matters arising from previous Commission 2 meeting (30 May 2024)
 3. Membership Commission 2 (F Cawood)
 4. Work of Commission 2 (Feedback from Members)
 5. Technical presentation: What an AI-Powered Mining Organization means for ISM Commission II (F Cawood)
 6. Commission 2 report to ISM Praesidium Meeting
 7. General
 1. 51st Praesidium Meeting in South Africa 5th to 13th of October 2024
- Next Meeting: 28 November 2024 | 08H00 – 10H00 UTC



Agenda: 1. Welcome and Apologies

1. Welcome

Apologies received

1. Dr. Markus Mathey (Germany)
2. Mr. Chris Moy (Australia)
3. Mr. Alex Bals (South Africa), manage to attend but joined after the meeting was abandoned.

Not present in the meeting



Members

Working Committee (in the meeting)

Prof. Fred Cawood (Chair - South Africa)

Prof & Dr. Zaibin Liu (Co-Chair - China)

Ms. Yingying Gong (Secretary - China)

Working Committee (not in the meeting)

Prof Tao Fan (China)

Dr. Guihong Li (China)

Dr. Qiang Liu (China)

Ms. Xiaotian Jing (China)

Ms. Jiawen Zhao (China)



Invited Members

Members present in the meeting

1. Mr. Jurgens Visser (South Africa)



Agenda: 1. Decision

- Only one member joined the meeting, apart from the chair, the co-chair, and the secretary.
- A decision was taken to abandon the meeting after 15 minutes.
- The presentation will stand over to the next meeting, when there will be two presentations.
- In order to get better attendance from members, future meeting notifications will also be communicated via WeChat. Members are to send their contact details to the secretary.
- What follows is an update to the previous meeting.



Agenda: 2. Matters arising from previous meeting

Invitation of new Members elected at first meeting

- Dr. Yondon Gelen (Mongolia) – *Invited, no response*
- Dr. Ulziisaikhan Ganbold (Mongolia) – *Invited, no response*

Information on past Commission 2 work

- Prof. Axel Preuße (previous chairman) – *To look for past meeting minutes*
- Request for members to send ideas – *Today's Technical presentation*

Technical presentation

- Prof. L Zaibin: Digital Geology Support Technology - Creating Digital Holographic Geological Maps for Intelligent Coal Mines - *Circulated*



Agenda: 3. Election of new Members

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



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 give feedback to 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 leading practices and sharing resources, etc.



Agenda: 4. Work of Commission 2

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 COMMISSIONS 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)



Agenda: 4. Work of Commission 2

Discussion/Ideas

- Ideas of previous meeting captured in the technical presentation that will stand over to the next meeting.
- ISM definition for MRM
- Committee should build on the work that was done before 2010

New inputs/Ideas



Agenda: 5. Presentation

Technical presentation standing over to next meeting.

*What an AI-Powered Mining Organization means for ISM
Commission 2*

Prof. F Cawood



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Agenda: 6. *Commission 2 report to ISM Presidium Meeting*

F Cawood to table and present Commission 2 report on 2024 work, meetings and technical presentations



Agenda: 7. General

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

- 51st Praesidium of the International Society for Mine Surveying in South Africa 5th to 13th of October 2024 - *Starts in Cape Town area (Meeting) and ends in Johannesburg (Academic Program)*

- Next Meeting: November 28th, 2024 | 10H00 – 12H00 - *Guest Presentation Dr M Mathey: Sustainable mine planning in Germany: 3D numerical modelling of mine excavations with focus on surface subsidence and environmental impact.*
- *Second Presentation Prof. F Cawood: What an AI-Powered Mining Organization means for ISM Commission 2*



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Meeting ended after 15 minutes.