



INTERNATIONAL SOCIETY FOR MINE SURVEYING

COMMISSION SESSION 2009
Joint meeting of ISM commissions
July 29-30

University of Exeter
Camborne School of Mines
Tremough Campus,
Penryn, Cornwall TR10 9EZ, United Kingdom
July 29-30, 2009

Minutes

Before the meeting was opened, the attendees of the 2009 ISM commission session were welcomed by the Head of the Camborne School of Mines (CSM), Professor Frances Wall.

Patrick Foster, senior lecturer at the CSM, introduced the CSM to the ISM. He presented basic facts of the mining industry in UK, of education on Mining Engineering at the CSM, and about its history.

Top 1 and 2

The meeting was opened by the president of ISM, Michael Livingstone-Blevins. He welcomed the members and guests.
The list of attendees in alphabetical order of their last name:

Norbert Benecke
Patrick Foster
Ryszard Hejmanowski
James Jobling-Purser
Michael Livingstone-Blevins
Erik Ludvigsen
Agnieszka Malinowska
Gareth Powell
Ralf Schulte
Andy Wetherelt

The agenda was accepted as attached at the end of the minutes.



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Top 3 Work plans of commissions and commission reports

Commission 1:

Ralf Schulte reported about the done work since the last meeting in 2008 in Aachen, Germany. The presentation about the intended Best Practice Guideline, which was given to the presidium in 2008 in Kimberley, South Africa, was repeated in a modified version. The emphasis was that to write a new “book” or anything else would be too much work without the intended benefits. It would be more promising to build up a framework of links to solutions of focused problems than to write new texts. The following discussion revealed that not the solutions are to be worked out, but a list of steps to be done within bigger tasks. It was emphasized, that the necessary frame work (the daily problems to be solved) should come from the industry and working mine surveyors.

The work on the SME Handbook has been done by Andrew Jarosz, Frank Hart, Fred Cawood and Gareth Powell. Due to their daily work, they were always behind schedule, but they will finish their work within the deadline. A first draft was delivered by Gareth Powell to the meeting participants.

Special contribution:

Michael Livingstone-Blevins gave a brief presentation about his ideas of daily work that need solutions. His summary can be a first draft for the link based framework of the Best Practice Guideline:

- Risk management for abandoned mines
- Requirement and responsibility for surveying and mining law by the management

The ideas were emphasized by examples of typical surveying activities on mines around the world.

Commission 2:

Erik Ludvigsen has tried to become a member of commission 2 for a longer time. Because he has not gotten into contact with commission 2, he presented his ideas about the themes of commission 2 (Minerals Resources Management and Minerals Surveying). The nationally different interpretations of these expressions were discussed within this meeting. He gave an overview about Norwegian mines and the mineral resources management. He presented a 3D-Model for evaluation of geological data and a simplified model for mine planning. The goal of all planning is to find a balance of the society needs (mining resources) and the environment (preserve of nature).



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Contribution about the work on the ISM statutes:

Gareth Powell reported about changes of the ISM statutes regarding the language change to Russian and English. He got a first draft from Martin Vrubel and Kalman Baratosi and provided the meeting with this draft and his own comments.

Commission 4:

Ryszard Hejmanowski presented a report about done commission work. This report was a modified version of the report given to the presidium in Kimberley, South Africa in 2008. He complained the lack of active working members. He mentioned that the ISM website would be a good media to publish papers or contributions to commission work. He mentioned again the problem of peer reviewed papers to get credits for academic relevant outcome.

At this point the discussion about publishing paper in reviewed journals appeared again as it did in Kimberley in 2008. Some new ideas were:

- Introduce a prize for the best paper on an ISM congress
- Look for financial support for students to attend ISM congresses and to present papers

Patrick Foster has taken on the task to clear up the system of peer reviewed publishing. He will also look for possibilities about electronic publishing. A really important goal of these activities is to interest young people in ISM work.

Top 4 Contributions

Norbert Benecke gave a presentation about the development of a laser scanner for underground coalmines or environments with explosives atmosphere at DMT. DMT has developed surveying instruments for special tasks in mining for a long time. The laser scanner Z+F Imager 5006 EX is the last one in a wide range of instruments. He gave some examples of practice in underground roads and mining shafts.

After this contribution he gave another presentation about radiointerferometry for monitoring of slope slides with examples of great results.

Agnieszka Malinowska gave a presentation about her PhD-work. The thesis worked on calculation and categorizing of hazards and their assessment. She gave examples of normally done calculation in Poland (by the government) and her own calculation. She explained the principle of fuzzy logic, fuzzified formulas, categories and the implementation of the fuzzy model into GIS.



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Top 5 ISM matters

This topic was already discussed before (see Erik Ludvigsen ideas about commission 2) and should be continued at the next presidium meeting to get the ISM commission 2 restart its work and to improve their communication with ISM.

Top 6 Date and venue of the next commission meetings

The next joint commission meeting is a proposal by the commission 5 chairman Martin Vrubel. He has promised to organize a meeting in late June 2010 in the Czech Republic. The meeting attendees agreed to ask him to organize it as early as possible (e.g. in April 2010) to prevent collision with the near ISM congress in South Africa.

Top 7 Miscellaneous

Under this topic, further cooperation between ISM and CSM was put up for discussion on Thursday after the technical visits. Patrick Foster and Andy Wetherhelt emphasized their interest in cooperation with ISM. They will attempt to interest colleagues and students in contributions to the ISM congress in 2010 in South Africa.

Patrick Foster will help the ISM with publishing its papers and the system of peer reviewed papers. He will also look for possibilities of electronically publishing. Publishing should be seen in different aspects:

- Academic publishing (journals with high citation credits, citation index system, peer reviewed papers)
- Non-academic publishing (without any interest in any credits but in the content and its expert knowledge)

Top 8

After all discussions, the meeting was closed.

London-Gatwick, July 31, 2009
Ralf Schulte, commission 1 chairman



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Agenda

July 29, 2009

- Top 1 Opening session**
Welcome of members and guests, acceptance of the agenda
- Top 2 Approval of members**
Welcome of new members and update of the member lists
- Top 3 Work plans of the commissions**
Ralf Schulte: *Best Practice Guideline, SME Handbook*
Michael Livingstone-Blevins: *Ideas about Mine Surveying - Framework for a Guideline to Best Practice*
Erik Ludvigsen: *Report and ideas about commission 2 work*
Ryszard Hejmanowski: *Report about commission 4 work*
Report of other commissions, discussion about future tasks
- Top 4 Technical and scientific presentations**
Norbert Benecke: *Support of High-Performance Operations in Coal Mining by Use of 3D Laser Scanning*
Norbert Benecke: *IBIS - Image by Interferometric Survey*
Agnieszka Malinowska:
New method of building damage assessment on mining terrains based on fuzzy interference
- Top 5 Discussions about ISM commission matters**
Erik Ludvigsen: *Differences, interfaces and overlaps between the commissions*
- Top 6 Date and venue of next commission meetings**
- Top 7 Miscellaneous**
Future cooperation between the Camborne School of Mines (CMS) and the International Society for Mine Surveying (ISM)
- Top 8 Closing session**