



**Международное Общество по маркшейдерскому делу**  
**International Society for Mine Surveying**  
**Internationale Gesellschaft für Markscheidewesen**

**Minutes of the 37<sup>th</sup> Presidium Meeting,**  
**21-26 September 2009,**  
**Ulaanbaatar and Baganuur, Mongolia**

***Organised by the***  
***Mongolian Mine Surveying Association***  
***and the***  
***Mongolian University of Science and Technology, Mining Engineering School***

***Minutes prepared by Ms Altantuya Dashnyam, Foreign Affairs Manager (MUST)***  
***and English translator for the 37<sup>th</sup> Presidium Meeting of the ISM.***

**1. Opening of the 37<sup>th</sup> Presidium Meeting**

Professor Dorj Dondov, Chairman of Organising Committee, welcomed all members and guests to the meeting and thanked them for travelling to Mongolia. He announced that 37<sup>th</sup> Presidium Meeting of the ISM is coinciding with two special events, namely the 3<sup>rd</sup> meeting of the Mongolian Mine Surveying Association (MMSA) and 50<sup>th</sup> anniversary of the Mongolian University of Science and Technology (MUST).

He introduced Mr Kh. Badamsuren, Member of Mongolian Parliament, Mr L. Purev, Director of Mining Engineering School of MUST. Mr Kh. Badamsuren, welcomed all attendees and guests to Mongolia, wishing them a successful meeting and good stay in Ulaanbaatar.

Mr L. Purev spoke on behalf of MUST stating that it was a great honour for MUST to be hosting the 37<sup>th</sup> Presidium meeting.

**2. Speech by Prof L Purev, Director – School of Mining Engineering of the Mongolian University of Science and Technology**

Prof Purev spoke about the activities of Mining Engineering School of MUST which is the biggest training centre for preparing mining professionals. The department of mining was established in 1971 and now it has 6 departments with 100 teachers and professors.

**3. Speech by Prof D. Dondov, Member of the ISM Presidium**

Prof Dondov announced that on the 22<sup>nd</sup> of September 2009, the Mongolian Mine Surveying Association had organised its 3<sup>rd</sup> conference on the theme: “The Present Situation of Mine Surveying and the Future Trend”. He also informed that the organising committee published the proceedings of the conference.

**4. Confirmation of Attendees**

Mr Livingstone-Blevins thanked the Professors Purev and Dondov and expressed the appreciation of the ISM to its Mongolian hosts. He requested attendees to introduce themselves to the meeting, stating their country of origin and ISM membership status.

It was noted that the following people had confirmed their attendance but would arrive late:

Prof Yu Chanxing; (Honorary Member of ISM Chairman Commission 6, China)

Prof Frank Hart; (Honorary Member and Presidium Member, USA)

**Attendance Register:**

<b>Name</b>	<b>Position in ISM</b>	<b>Country</b>
Michael Livingstone-Blevins	President	South Africa
Axel Preusse	Vice President Commission 1, 2 and 6 member	Germany
Dorj Dondov	Presidium Member Commission 1 member	Mongolia
Ralf Schulte	Presidium Member Chairman Commission 1	Germany
Frank Hart	Presidium Member Honorary Member	USA

Yu Chang Xing	Honorary Member Chairman Commission 6	China
Martin Vrabel	Presidium Member Chairman Commission 5	Czech Republic
Andrew Jarosz	Presidium Member Commission 1 and 4 member	Australia
Victor A. Gordeev	Presidium Member Commission 4 member	Russia
István Havasi	Presidium Member Commission 1 member	Hungary
Anatoly Okhotin	Commission 6 member	Russia
Joerg Fugmann	Commission 5 member	Germany
Dana Sladkova	Commission 5 member	Czech Republic
Alexander Zagibalov	Commission 4 member	Russia
Vechyslav I. Snetkov	Professor of State University of Irkutsk	Russia
Olga V. Snetkova	Guest / Accompanying person	Russia
Samarin A V	Guest / Accompanying person	Russia
Gabriele Andersen	Member of Organising Committee of 39th Presidium Meeting in 2011, and XV International Congress in 2013, in Germany	Germany
Silvana Preusse	Guest / Accompanying person	Germany
Podimskaya N A	Guest / Accompanying person	Russia
Li Ju Di	Guest / Accompanying person	China

## 5. Apologies for Absence

Mr Livingstone-Blevins announced the names of Presidium members who had provided notification of absence and those who had sent their best wishes for a successful meeting.

The following Members provided written apologies and best wishes in advance of the meeting:

Dr. Kálmán Barátosi (Hungary) – (István Havasi attending as his alternate delivered Dr. Barátosi's official letter to president Livingstone-Blevins which

notified the meeting that he could not take a part in the meeting because of his illness).

Dr Adam Chrzanowski (Canada)

Dr Juergen Palm (Germany)

Mr Signar Nygard (Sweden)

Mr Carl Vender (USA) – (Frank Hart attending as his alternate)

Dr Gareth Powell (UK)

Dr Jacek Szewczyk (Poland)

Prof Dr Reshat Kuka (Albania)

Prof Erik Ludvigsen (Norway)

Prof Gerhard Mayer (Austria)

Prof Gabriel Weiss (Slovakia)

Mr Juergen Mayer (Switzerland)

Prof Fred Cawood (South Africa)

Mr Alex Bals (South Africa)

**6. Acceptance of Agenda**

There were no changes made to the agenda.

**7. Obituaries**

M. Gilbert Bordonne, ISM Presidium Member for France died on Tuesday December 2, 2008. Presidium members stood to observe a minute of silence in remembrance of M. Gilbert Bordonne.

**8. Personal Notes**

(No detail required)

**9. Confirmation of Voting Rights (confirmed 36<sup>th</sup> Presidium Meeting, 2008)**

For the benefit of new members, guests and observers, voting rights were confirmed by Mr Livingstone-Blevins and members present.

- Each member country has a single vote.
- Each Commission Chairman has an additional vote.
- Observers (and guests) may not vote (but were encouraged by Mr Livingstone-Blevins to actively participate in the meeting).

**10. Approval of the Minutes of the 36<sup>th</sup> Presidium Meeting held in Kimberley, South Africa**

Mr Livingstone-Blevins confirmed that all Presidium Members had received the Minutes of the 36th Presidium Meeting with their invitation to attend this meeting, and that the minutes had been available on the ISM website.

The minutes were accepted as an accurate record of the 36<sup>th</sup> Presidium meeting.

**11. Matters Arising from the Minutes of the 36<sup>th</sup> Presidium Meeting**

Prof Gordeev proposed to translate the minutes into Russian. The issue of language involved English and Russian. Prof Okhotin stated that language was a “technical problem” that could be overcome using an electronic interpreter (such as the one which he and Prof Zagibalov were using). Mr Livingstone-Blevins stated that he was very sensitive to the issue of language in the ISM and that he did not wish to alienate any person or country as a result of further debate or decisions on the subject.

**Decision 1:**

In future, minutes would be forwarded to Prof Gordeev for electronic translation into Russian, with the assistance of Prof Okhotin. Prof Gordeev would then forward the Russian version of the minutes to Russian mine surveyors.

**12. Admission of New Members**

Dr Gareth Powell (UK) was confirmed as Presidium Member, as the successor of Mr Gary Bardill who has retired.

Prof Gabriel Weiss (Slovakia) was confirmed as successor of Prof Vladimír Sedlak (all correspondence initiated and undertaken by Vice President Dr Kálmán Barátosi).

Mr Livingstone-Blevins reported that he had received an application for individual membership from a Mr Busuyi Afeni (Nigeria) who is currently studying towards a PhD under the supervision of Prof Fred Cawood (member Commission 1) at the University of the Witwatersrand in South Africa. Mr Livingstone-Blevins reported that he had advised Mr Afeni that his stated interests would be best served by first joining a “national association”, but that

he as welcome to participate in ISM activities as a Regular member. Mr Afeni has not yet responded.

A new member to represent Chile was required. Mr Livingstone-Blevins reported that he had visited Chile in November 2008 and had made telephonic contact through the University of Antofagasta with the current (passive) member for Chile, Dr. –Ing. Juan H Rojas who confirmed that he is retired and no longer represents Chile in the ISM. Mr Livingstone-Blevins then requested the University of Antofagasta to identify and propose a suitable replacement, but no response has been received.

**Decision 2:**

Dr Havasi (Commission 1) to find alternate contacts (in Chile) using his academic contacts in Spain.

**13. Proposals of Honorary Membership**

Mr Livingstone-Blevins proposed Honorary Membership for Mr Gary Bardill, who had recently retired and been replaced by Dr Gareth Powell as representative of the UK. Mr Bardill had been an active and influential Presidium Member for many years. The proposal was unanimously accepted by the Presidium.

**Decision 3:**

Mr Livingstone-Blevins will notify Mr Bardill of the decision, in writing.

**14. Correspondence**

Mr Livingstone-Blevins tabled the following for the record:

- Mention of numerous email correspondence by the President regarding the general running of the ISM.
- Letter of condolence to Madame Bordonne and family on the death of M. Gilbert Bordonne (Presidium Member – France).
- Communication from Mr Gary Bardill (UK), informing the ISM of his retirement and the appointment of Dr Gareth Powell as his successor.
- Letter of thanks to Mr Bardill for his contribution and service to the ISM, and for ensuring that a successor was immediately appointed.
- Letter and emails (all correspondence initiated and undertaken by Vice President Dr Kálmán Barátosi) to Professors Sedlak and Weiss regarding

- Letter of resignation received from Mr Jürgen Mayer (Chairman Commission 3).

## **15. Nominations and acceptance of new members to Commissions**

### **Commission 1**

No new members reported.

### **Commission 2**

Status of Commission 2 work is not known. The long lack of contact from Prof Popov (Chairman Commission 2) was discussed. Mr Livingstone-Blevins said that with the assistance of Prof Gordeev (Presidium Member – Russia) that he would send a letter to Prof Popov raising the issue of communication and proposing a solution.

#### **Decision 4:**

Mr Livingstone-Blevins to send a letter to Prof Popov (Chairman Commission 2) regarding the activities of Commission 2 – to be copied to Prof Gordeev.

### **Commission 3**

Mr Livingstone-Blevins proposed that Mr Norbert Benecke (Germany) be appointed as Chairman of Commission 3, following the resignation of Mr Jürgen Mayer. He explained that Mr Benecke is an active member of Commission 3, works for a prominent company which specialises in instrument technology development, measurement and mapping and is therefore very well suited for the position. The proposal was unanimously accepted by the Presidium.

#### **Decision 5:**

Mr Livingstone-Blevins to send a letter of invitation to Mr Norbert Benecke (Germany) inviting him to take the responsibility of Chairman of Commission 3.

### **Commission 4**

No new members reported.

### **Commission 5**

Dr Vrubel (Chairman Commission 5) reported that 25 letters of invitation for members had been sent out but no responses had been received. Prof Vechyslav Snetkov delivered his request to join Commission 5. He gave his details to Dr Martin Vrubel Chairman of Commission 5.

### **Commission 6**

Prof Yu Chang Xing informed that 6 new members joined in the Commission 6. He introduced the names and Mr Livingstone-Blevins signed the member certificates in his capacity as President of the ISM. New members:

- Prof Zhang Shao Liang (China University of Mining and Technology)
- General Engineer, Prof Lu Xin Ming (Shan Dong Lan Guang Computer Technical Institute)
- Prof Yu Guang Ming (Dean, Qing Dao Science and Engineering University)
- Dr Wan Mi Jun (Vice General Manager, Zhaoyuan Gold Mine Software Science and Technical Company)
- Dr Luo Xu (China National Institute of Metrology, Beijing)
- General Engineer, Dr Xu Nai Zhong (China Coal Research Institute, Beijing)

## **16. Relevance of the ISM**

Mr Livingstone-Blevins said that there are too many passive members of the ISM, resulting in too few people being available to complete the work of the ISM. The relevance of the ISM needs to be clearly demonstrated. Membership of new, young members in the ISM needs to be increased and the young generation should be encouraged to join the ISM and supported by elder generation.

*Livingstone-Blevins: Spanish speaking South American countries have not joined the ISM or are passive members (e.g. Chile, Colombia). We need to activate those countries participation.*

*Havasi: I have sent invitation to Brazil, Chile some of North American countries, but I had no response.*

*Buyantogtokh (member of organising committee): I have a proposal to invite old Soviet Union countries Kazakstan, Uzbekstan, Kirgikstan, Tajikistan. Mongolian*



*Mine Surveying Association has good connection with those countries and able to invite them to the ISM.*

## **17. Commission Working Plans and Reports**

### **Commission 1, 3 and 4 – Dr Ralf Schulte**

In 2009, ISM commissions 1, 3 and 4 had a joint commission meeting at the Camborne Schools of Mines (CSM), Exeter University, at the Cornwall Campus in Penryn. The commission session was organised by Dr Patrick Foster, senior lecturer at the CSM.

See website for the Commission 1 and 3 and 4 report.

### **Commission 2 – Prof Vladislav Popov (absent)**

No report or correspondence received.

### **Commission 3 – Mr Jürgen Mayer (absent)**

See website for the Commission 1 and 3 and 4 report.

### **Commission 4 – Prof Ryszard Hejmanowski (absent)**

See website for the Commission 1 and 3 and 4 report.

### **Commission 5 – Dr Martin Vrubel**

Commission 5 unfortunately could not take a part in the Camborne meeting but next year will organise joint commission meeting in Ostrava, Czech Republic week 3 of June 2010. Dr Vrubel will discuss the agenda with Mr Livingstone-Blevins in November.

See website for Commission 5 report.

### **Commission 6 – Prof Yu Chang Xing**

Commission meeting still to take place (immediately after Presidium meeting). Prof Chang Xing to provide report.

ISM Commission 6 - 4<sup>th</sup> International Conference that it will be held in Irkutsk, Russia in September 28 – October 2, 2009, jointly organised by the Irkutsk

state technical university of Russia, Russian Baikal union of mine surveyors, Russian Baikalgeoservis company. Over 20 presentations from 5 countries have been received.

**18. Report by the SME Handbook Updating Committee**

Head of the committee: Prof Andrew Jarosz.

Committee members: Prof Frank Hart, Dr Ralf Shulte, Dr Gareth Powell.

The surveying chapter of the SME handbook has been updated. Many images were included that made the chapter longer than specified, causing the Editor to advise that content be reduced by half. A further problem is the requirement for a professional editor to edit the draft chapter.

*Deriilaamyatav (member of organising committee / surveyor): I have a special comment on the surveyors training. Currently, I am working in the Mining engineering school of MUST surveying department, teaching there professional English language. But we haven't enough textbooks and dictionaries. I want to make multi language dictionary including surveying terminology.*

*Fugmann: I want to report about the FIG dictionaries which are on the CD and website. I can send all of you the link to the FIG dictionaries.*

**Decision 6:**

- a) Dr Havasi to check the 1960 ISM dictionary to determine what requires revision.
- b) Prov Gordeev to lead the updating of the dictionary and present his work at the XIV International Congress in South Africa.
- c) Mr Fugmann to send a link to the FIG dictionary and check if the CD is still available and not restricted copyright. If not, it can be put onto the ISM website.

**19. Report on Preparations for the XIV International Congress of the ISM to be held in South Africa in 2010**

The Congress will be held at Sun City, South Africa from 20 to 24 September 2010.

Mr Livingstone-Blevins read a report on behalf of Mr Alex Bals, Chairman of the Organising Committee of the XIV International Congress, informing the Presidium that arrangements were progressing well. He reminded the Presidium that this would be an English Congress, due the cost of translation (in South Africa) being very high (about 850K Euros) and invited Presidium members to provide their own translators. See minutes of 36<sup>th</sup> Presidium Meeting on the ISM website for additional information on Language and Congress decisions.

He also issued printed 2<sup>nd</sup> announcements for the Congress for members to take back to their countries for circulation. He advised all to search for the information on the official website [www.ism2010.co.za](http://www.ism2010.co.za). Registration fee to be around ~~300—360~~ the South African Rand equivalent of 650 Euros (Budapest was ~600 to 650 Euro).

**Decision 7:**

- a) All English correspondence to be sent to Prof Gordeev and Okhotin for translation into Russian. Prof Gordeev to circulate to Russian associations.
- b) A call for papers to be sent out without delay.
- c) Papers and/or presentations to be submitted in the first quarter of 2010.
- d) National associations to screen and approve all papers before these are sent to the organising committee.
- e) Organising Committee to investigate special reduced rates for Honorary Members (retired) and students, as well as cheap accommodation for students.

**20. Confirmation of XV International Congress of the ISM to be held in Germany in 2013**

Prof Preusse confirmed that Germany would host the 39th Presidium Meeting in 2011 and the XV International Congress in 2013. Approximately 400-450 delegates are expected to attend the congress. He reported that a large mining and surveying exhibition will be held to coincide with the congress and Presidium meeting.

He introduced Mrs Gabriele Andersen who will organise both the congress and the Presidium meeting in Germany and will participate in the XIV Congress in South Africa representing Germany.

**21. Confirmation of future Presidium meetings**

2010 – South Africa (confirmed)

2011 – Germany (confirmed)

2012 – Russia (confirmation required – otherwise Australia to host)

2013 – Germany (confirmed)

2014 – Australia (Western Australia or Queensland)

**Decision 8:**

Mr Livingstone-Blevins to send a letter to Prof Gordeev (Presidium Member – Russia) for the Russian mine surveying association, requesting confirmation for the hosting by Russia in 2012 of the Presidium Meeting in St Petersburg.

**22. Short Reports and Presentations from Representatives of ISM Member-Countries on New and Important Changes Affecting Mining Activities and of the Prospects for Mining and Mine Surveying Development**

**USA** – Prof Hart reported on the American Conference on Surveying and Mapping held in Salt Lake City, Utah in February 2009, and the 41<sup>st</sup> Annual convention of the West Virginia Society of Professional Surveyors held in Morgantown, West Virginia in February 2009.

He also reported that an international conference was planned April 2010 (details to be provided).

**Russia** – Prof Gordeev reported that Russia has about 22000 surveyors (engineers) and every year 600 graduate. Despite this, there is a shortage of graduates. In this field 14 universities and 40 colleges are working actively. The last meeting of the surveyors union took place in 2005 and currently there is no central organisation for the surveyors and many separate organisations. It is intended to unite these organisations and their activities. An encyclopaedia and history book of surveying were published.

**Australia** – Prof Jarosz reported that the West Australian School of Mines (WASM) Curtin University has good training to prepare mining engineering professionals. Depending on the region (State) mining and surveying work vary. Curtin University has scholarships for the foreign students and wants to widen its cooperation and student exchange programme with the south-east Asian countries.

*Prof Dondov: "I want to ask about Australia and South Africa. Is there any possible way to exchange our students majoring in surveying and study further for master and doctoral degree? How can we arrange that exchanging?"*

*Prof Jarosz: "We can work on this issue. I think we can arrange the exchange programme".*

*Mr Livingstone-Blevins: As far as I know, South African universities have mainly students from other African countries. I am not sure about exchange programmes with other countries."*

**Czech Republic** – Dr Vrubel reported that in Czech Republic there are 400 active mine surveyors. The Czech Society of Mine Surveyors and Geologists has ~160 members of which ~80 are active. Membership is voluntary. An annual national congress is planned for October 2009, with 22 papers approved for publication. There are sufficient graduates for the Czech Republic. Dr Vrubel's report included statistics on coal and mineral production, and student numbers in the Czech Republic.

(See ISM website for report).

**Hungary** – Dr Havasi reported that in September 2009 there were 156 chartered mine surveyors in Hungary (60 certified for surface and underground and 96 certified for surface only). Hungarian law requires that every mine employs a chartered surveyor.

(See ISM website for report).

**China** – Prof Yu Chanxing reported that in China, government is focusing on sustainable development and renewable energy sources, with a wind energy power generation target for 2020 of 100GW (2007= 30GW, 2008=50GW). In 2008 solar, hydro and gas generated 10GW of power. Prof Yu also provided an update on the earthquakes in China (in 2008) and the effective use of his "geo-monitor" clock which stops when seismic vibration is detected.

**South Africa** – Mr Livingstone-Blevins reported on behalf of the President of the Institute of Mine Surveyors of South Africa (IMSSA) by reading from the IMSSA President's annual report (dated 11 September 2009). He also provided 2008 government mining statistics (for major minerals) that indicated revenue of ~USD 23.5 billion.  
(See ISM website for report).

### **Germany**

(See ISM website for report).

**Mongolia** – Prof Dondov reported that the Mongolian Mine Surveying Association (MMSA) is a non-governmental and non-business organisation which was established in 1989. In 1990 MMSA joined the ISM as a member and has actively participated in ISM congresses and Presidium meetings sharing knowledge and practice with foreign colleagues. Moreover, the MMSA carried out a lot of creative activities to protect Mongolian surveyors' rights as well as to prepare specialists in surveying in Mongolia. To create a legal environment for surveyors in Mongolia is a very important issue. It is related to the lack of special permission or licensing for surveying in Mongolia. This issue has been studied and it is planned to request Parliament to pass law to make licensing of surveyors a requirement of mining law. Prof Dondov requested the ISM's formal support of this issue.

*Mr Livingstone-Blevins: I want to say that licensing is common international practice. Many of the countries that I visit require some form of licensing of mine surveyors. This is law in South Africa and examinations are controlled by the government.*

*Prof Preusse: Yes, also in Germany we have the law that before the mining work surveyors should be licensed. In order to receive a license, the surveyor must pass several examinations.*

*Dr Havasi: In Hungary we have licensing law that requires that a mine must have at least one licensed surveyor leading the team.*

*Prof Jarosz: In Australia we also have licensing of surveyors work and the lead surveyor who has a license takes responsibility for all surveying work under his direction.*

*Prof Gordeev: In Russia, it is very strict. Surveyor should have passed 5 levels of examination. The licensed surveyor takes responsibility for all surveying work.*

*Mr Livingstone-Blevins: We need to mention that mine surveying is directly linked to mine safety. The surveyor controls and directs the dimensions of the mine and participates in accident investigations on the mine.*

*Prof Okhotin: Yes, if the accident occurred in the mining site, in Russia licensed surveyor must take all the responsibility. If he is responsible (for the accident) his license can be taken back.*

*Dr Havasi: I realised that licensing experience in the foreign countries are very different and I think that we need united information on this issue.*

**Decision 9:**

- a) Mr Livingstone-Blevins to send a letter of recommendation to Prof Dondov regarding licensing in Mongolia that ISM supports licensing for professional accountability (of mine surveyors) and confirming that licensing is common international practice.
- b) Dr Vrubel, Dr Havasi and Dr Schulte will investigate international licensing requirements and compile a table showing these requirements, so that the ISM can understand the regulations of each country and look for areas of common practice.

**23. Information regarding national events of interest to minerals surveyors (all Presidium Members)**

- FIG Conference will be held in Sydney, Australia in June 2010.
- Mine Surveying Day of Czech Republic (in September).
- Russian Mine Surveying Day (every second Sunday of September).
- Mongolian Mine Surveyors Day (13<sup>th</sup> December) – approved at the 3<sup>rd</sup> Mongolian Mine Surveyors Conference.

**24. Date and Place of Next Presidium Meeting**

The 38<sup>th</sup> Presidium meeting will be held in September 2010 at Sun City in South Africa – coinciding with the XIV International Congress of the ISM.

**25. Miscellaneous**

Prof Jarosz raised the issue of ISM funding, which led to discussion on membership fees and donations, the use of funding (e.g. scholarships and

support of ISM work), international transfer of funds and the management of ISM finances. The meeting was reminded that Mr Bardill (UK – replaced by Dr Powell) was to investigate funding of the ISM by UNESCO and report his findings at this meeting.

**Decision 10:**

Dr Powell to takeover responsibility for investigating UNESCO funding and report his findings at the 38<sup>th</sup> Presidium meeting in September 2010.

Mr Livingstone-Blevins raised the issue of the presentation of certificates to new members of the Presidium and commissions, and Honorary Member certificates at the XIV International Congress Members Assembly in 2010.

**Decision 11:**

Certificates will be issued at Members Assembly in 2010. Names and membership details (e.g. Commission 6) must be sent by commission chairmen to Mr Livingstone-Blevins by June 2010 – ensure that spelling and details are clear and correct.

**26. Closure**

Mr Livingstone-Blevins thanked all for a constructive and successful meeting, and thanked the Mongolian hosts for their excellent organisation and hospitality.