

Attachment 1: Attendance List



International Society for Mine Surveying
 Международное Общество по Маркшейдерскому Делу
 Internationale Gesellschaft für Markscheidewesen
 44th ISM Presidium Meeting

2. Attendance List

Monday, 12 September 2016, 15:30 – 17:00, Brisbane Convention & Exhibition Centre, Arbour Room (A1)

No.	Name (Family N., First N.)	Country	R-Rep M-Mem G-Guest	Contacts: Email
1	MOY.	AUSTRALIA	G.	cmoy@rixs.com.au
2	M'NAUGHTON, C.	AUSTRALIA	G	callum@mnaughtonmining.com.au
3	Preusse, Axel	GERMANY	M	Preusse@ifm.rwth-aachen.de
4	Vrubel, Martin	CZECH REPUBLIC	M	VRUBELE@SDAS.CZ
5	Vrublová Dana	Czech Republic	G	dana.vrublova@vsb.cz
6	NOVOSAD Miroslav	Czech Republic		miroslav.novosad@vsb.cz
7	Zhengfu Bian	China	M	zfbian@cumt.edu.cn
8	BENECKE, NORBERT	GERMANY	M	norbert.benecke@dmr-group.com
9	TOPALOV, STANISLAV	BULGARIA	M	stopalov@gmail.com
10	Ying'ia Wang	China		WWT449@163.com
11	Zhang, Shunliang	China	M	SLZhang@cumt.edu.cn
12	Huang Leting	China		hlt687@163.com
13	Zou Youfeng	China	M	zouyf@hpu.edu.cn
14	Hu, Bingnan	China	G	bininganhu@sina.com
15	ANDERSEN, DONOVAN	SOUTH AFRICA	R	angloamericans.com donovan.andersen@
16	Ludvigsen, Erik	Norway	R	Erik.Ludvigsen@ntnu.no
17	Guo Zengchang	China	M	gzc@hpu.edu.cn
18	Gareth Powell	UK	M	gtpowell@glam.ac.uk
19				
20				
21				
22				



2. Attendance List

Monday, 12 September 2016, 15:30 – 17:00, Brisbane Convention & Exhibition Centre, Arbour Room (A1)

No.	Name (Family N., First N.)	Country	R-Rep M-Mem G-Guest	Contacts: Email
1	Okhotin A	MUSSTA	M	bill@irk.ru
2	Ташмухатов Т.	UZBEKIS	M	t.u@list.ru
3	Sayyidkoshimov S	uzbekistan	M	sayyidkoshimov@yandex.ru
4	Talima Dasha	Russia	G	dtv@istp.edu
5	Erina Erwa	Russia	G	erina@istp.edu
6	Yondon Gelen	Mongolia	M	yondon.g@yaho.com
7	Zagibalov Alexander	Russia	G	azagibalov@ya.ru
8	Kshanovskaya Alina	Russia	G	kshanovskaya@yagmail.com
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

Attachment 2: Agenda

1. Welcome and opening of the 44th ISM Presidium Meeting
2. Confirmation of attendees
3. Apologies
4. Proposal and acceptance of the agenda
5. Obituaries
6. Approval of the Minutes of the 43rd ISM Presidium Meetings:
 - 6.1. Part A: 24-26 June 2015, Prague, Czech Republic,
 - 6.2. Part B: 16-18 October 2015, Beijing, China
7. Matters arising from the Minutes of the 43rd ISM Presidium Meeting
8. Reports
 - 8.1. President Report & Correspondence
 - 8.2. Commission Reports
 - 8.2.1. Commission 1: Dr Gareth Powell
 - 8.2.2. Commission 2: Prof. Dr. Yuriy Aleksandrovich Kashnikov
 - 8.2.3. Commission 3: (Mr Norbert Benecke)
 - 8.2.4. Commission 4: Prof. Dr. Ryszard Hejmanowski
 - 8.2.5. Commission 5: (Dr Martin Vrubel)
 - 8.2.6. Commission 6: Prof. Zou You Feng
 - 8.3. National reports
9. Membership and representation
 - 9.1. Institutional membership: China Coal Society
 - 9.2. Country membership: Uzbekistan
10. Report on the progress of preparations for future ISM Congresses:
 - 10.1. Report on the status of (2016) XVI International ISM Congress in Brisbane, Australia
 - 10.2. Report on preparation for (2019) XVII International ISM Congress in Irkutsk, Russia.
11. New bids for future congresses
 - 11.1. Bid from China
 - 11.2. Bid from South Africa (?)
12. Confirmation of future International Congresses and Presidium Meetings
13. Resignations, nominations, acceptance and confirmations of commission chairmen and members
14. Proposals of Honorary Membership
15. Information regarding international and national events of interest
16. Date and venue of the next ISM Presidium Meeting
17. Miscellaneous
18. Closure

Attachment 3: Data re. Mine Surveying Programs

ISM Current Mineral Surveying Courses and Universities 2016

Country	Mine surveying Professional Body	Mine surveying Academic Institute	Approximate number of students
United Kingdom	Royal Institute of Chartered Surveyors	Camborne School of Mines University of Northumbria	Both Masters awards Student numbers: 20
Germany	<p>The mining authorities are covered by the government of each federal State (see attached list).</p> <p>All mining authorities are working on the same federal mining law (Bundesberggesetz).</p> <p>Each federal state has additional regulations based on the federal mining law.</p> <p>There is a board of consultation within regulations are discussed among the several mining authorities (Bund-Länder-Ausschuss Bergbau).</p>	<p>Institute for Mine Surveying, Mining Subsidence Engineering and Geophysics in Mining</p> <p>RWTH Aachen University</p>	<p>Study: Raw Materials Engineering: 70</p> <p>Mine Surveying as part of Raw Materials Engineering: 5</p>
		<p>Institute of Geotechnical Engineering and Mine Surveying</p> <p>TU Clausthal</p>	<p>Study: Raw Materials and Geosciences: 25</p> <p>(No detailed information about Mine Surveying Students)</p>
		<p>Institute for Mine Surveying and Geodesy</p> <p>TU Bergakademie Freiberg</p>	<p>Study: Mine Surveying and Geodesy: 25</p>
South Africa	Institute of Mine Surveyors of South Africa	University of the Witwatersrand University of	(MSc/PhD only) 10

		<p>Johannesburg</p> <p>University of South Africa.</p> <p>University of Johannesburg</p>	<p>180 Diploma students</p> <p>15 Bachelor of Technology students</p>
Sweden	Swedish Mine Surveyors Committee	<p>No academic education available specific for mine surveying.</p> <p>Swedish Mine Surveyors Committee arranges supplementary education in cooperation with Luleå University of Technology for surveyors to become licensed Mine Surveyors</p>	Approximately 5-8 students every third to fifth year (when needed)
Poland	Polish Committee of the International Society for Mine Surveying	<p>AGH University of Science and Technology in Cracow</p> <p><i>Faculty of Mine Surveying and Environmental Engineering</i></p>	45 MSc Study
		<p>Silesian University of Technology</p> <p><i>Faculty of Mining and Geology</i></p>	30 bachelor, 25 MSc
Australia	Australian Institute of Mine Surveyors	<p>Curtin University / Western Australian School of Mines</p>	<p>BSc (3 year), ~9</p> <p>BSurv (4 year), ~3-4</p>
		<p>University of Southern</p>	Associate Degree of Spatial Science (ADSS) – AssocDegSpSc (2year),

		Queensland (USQ)	<p>Bachelor of Spatial Science Technology (BSST) – BSpScTech (3year),</p> <p>Bachelor of Spatial Science (Honours) (BSPH) - BSpSc(Hons) (4year)</p> <p>All above programs include Mine Surveying course.</p> <p>119</p>
Czech Republic	The Czech Society of Mine Surveyors and geologists	VŠB – Technical university of Ostrava	<p>41 MSc – Engineering Surveying (EG)</p> <p>25 MSc - Mine surveying (MS)</p> <p>33 Bachelors (EG+MS) (2014)</p>
Hungary	Specialised Group for Mine Surveying of the Hungarian Mining and Metallurgical Society	<p>No academic education specialized for mine surveying</p> <p>University of Miskolc</p> <p>Faculty of Earth Science and Engineering</p>	<p><u>BSc level (9)</u></p> <p>Branch of Earth Science, Students of Mining Geotechnical Specialization: Subjects: Geodesy, Introduction to GIS, <u>Mine surveying</u></p> <p><u>MSc level (11)</u></p> <p>Students of Branch of Mining and Geotechnical Engineering: Subjects: Geodesy and GIS,</p> <p><u>Mine Surveying</u></p> <p><u>MSc level (5)</u></p> <p>Students of Surveying Subjects: <u>Underground surveying, Tunnel surveys</u></p> <p><u>BSc level (about 10)</u></p> <p>Branch of Surveying Subject: Engineering surveys</p>

		<p>Technical and Economical University of Budapest</p> <p>Faculty of Civil Engineering</p> <p>University of Óbuda</p> <p>Alba Regia Technical Faculty</p>	(included Mine surveying)
Bulgaria	Bulgarian National Mine Surveyors Union	University of Mining and Geology "St. Ivan Rilski" - "Mine Surveying and Geodesy" Dept.	Mine Surveying and Geodesy -20 BSc and 15 MSc
USA	The closest two professional bodies for professional mine surveyors are National Society for Professional Surveyors and SME of AIME	<p>Colleges and universities offering at least one course related to mine surveying are listed below. No degree is offered with a title of mine surveying.</p> <p>U of Alaska;</p> <p>U of Arizona;</p> <p>Bluefield State College;</p> <p>Colorado School of Mines;</p> <p>Great Basin College;</p> <p>U of Kentucky;</p> <p>Southern Illinois U;</p> <p>Missouri U of</p>	

		<p>Science and Technology;</p> <p>Montana Tech;</p> <p>U of Nevada;</p> <p>U of New Mexico Institute of Mining and Technology;</p> <p>Pennsylvania State U;</p> <p>U of Utah;</p> <p>Virginia Tech U;</p> <p>West Virginia U;</p>	
Canada			
Norway	None	<p>Department of Geology and Mineral Resources Engineering, Norwegian University of Science and Technology (NTNU)</p>	<p>None,</p> <p>two Mineral Resource Management (MRM) subjects cover mine surveying elements, approx. 40 students</p>
China		<p>China University of Mining & Technology(Xu Zhou);</p> <p>China university of Mining and technology (Beijing);</p> <p>HENAN Polytechnic University;</p> <p>Liaoning Technical University;</p> <p>East-North University;</p>	<p>M.S.D & M.S.C 40</p> <p>M.S.D & M.S.C 24</p> <p>M.S.D.& M.S.C. 40</p> <p>M.S.D.&M.S.C. 32</p> <p>M.S.D& M.S.C. 20</p> <p>M.S.C. 12</p> <p>M.S.D.& M.S.C. 24</p>

		Liaoning Science & Technology University;	
		Shan Dong Science & Technology University;	M.S.D & M.S.C. 18
		Xian Science & Technology University;	M.S.C & M.S.C. 15
		Chang An University;	M.S.C. 10
		Tai Yuan Polytechnic University;	M.S.C. 10
		kun Ming Polytechnic University;	M.S.C. 8
		Hu Nan Science & Technology University;	M.S.C & M.S.C 5
		Huai Hai Industry University;	
		Beijing Coal Science Research General Institute of China Coal Science & Industry Group Ltd;	M.S.C 4
		Tang Shan Coal Science Research Institute of Beijing Coal Science Research General Institute of China Coal Science & Industry Group Ltd.	

Russia			
Ukraine			
Mongolia			
Finland			
Malaysia			
Romania			
Slovakia			
Slovenia			
Switzerland			
Austria			
Ghana	Ghana Institution of Surveyors (GhIS)	Geomatic Engineering Dept. University of Mines and Technology, Tarkwa, Ghana	198 – BSc Level

Name of University	Subordinating Institute or /System or /Specialities	2015		2016		2015 2016	
		Masters	Doctors	Masters	Doctors	Undergraduates	Undergraduates
China University of Mining and Technology (Beijing)	Globe Geoscience and Surveying Engineering Institute	59	18	68	16	60	40
Shandong Science and Technology University	Globe Information Science and Surveying & Mapping Institute	22	3	19	4	36	33
Henan Polytechnic University	Surveying & Mapping and Land Information Engineering Institute	73	7	73	7	40	36
Liaoning Technology University	Surveying & Mapping and Geographical Information Science Institute	128	5	98	4	126	120
Changan University	Geology Engineering and Surveying & Mapping Institute	76	12	80	12	156	150
Taiyuan Polytechnic University	Surveying and Mapping Engineering Institute	14	0	14	0	60	60
Liaoning Science and Technology Institute	Resources and Civil Engineering Institute					70	75
Huaihai Industry Institute	Surveying & Mapping and Ocean Informational Institute					152	

Anhui Polytechnic University	Surveying & Mapping Engineering Institute	28	23	118 111
Hunan University of Science and Technology	Resources Environment and Safety Engineering Institute	12 0	12 0	56 55
Center-South University	Globe Geoscience Information and Physical Engineering Institute	49 8	61 9	147 82
East-North University	Resources and Civil Engineering Institute	18	18	60 60

Problems of higher mine surveyor education in modern Russia

Gordeev V.A.

Problems arising up in preparation of surveyors of higher qualification in connection with integration of Russian higher school in the European system of education open up.

Mine surveying bulletin, 2016, № 3

Таблица 1

ВУЗы России, осуществляющие подготовку специалистов по специализации «Маркшейдерское дело» направления «Горное дело» (2015 г.)

Название вуза и факультета	Сведения о выпускающей кафедре
Национальный минерально-сырьевой университет «Горный». Санкт-Петербург. Строительный факультет	Кафедра маркшейдерского дела с 1899 г. Первый выпуск в 1926 г. Проф., д.т.н. Гусев Владимир Николаевич
Уральский государственный горный университет (УГГУ). Екатеринбург Горно-технологический факультет	Кафедра маркшейдерского дела с 1920 г. Первый выпуск в 1928 г. Проф., д.т.н. Гордеев Виктор Александрович
Южно-Российский государственный технический университет (Новочеркасский политехнический институт). ЮРГТУ (НПИ) Факультет геологии, горного и нефтегазового дела	(Кафедра маркшейдерского дела с 1933 г., первый выпуск маркшейдеров в 1938 г.) Кафедра горного дела (с 2015 г.) Доц., к.т.н. Белодедов Андрей Алексеевич
Национальный исследовательский технологический университет МИСиС (Московский институт стали и сплавов). НИТУ МИСиС Горный институт	(Кафедра маркшейдерского дела и геодезии с 1923 г. Первый выпуск в 1945 г.) Кафедра геологии и маркшейдерского дела (с 2015 г.) Проф., д.т.н. Мосейкин Владимир Васильевич
Московский государственный машиностроительный университет (МАМИ) Институт инженерной экологии и химического машиностроения	(Кафедра маркшейдерского дела и геодезии с 1947 г. Первый выпуск в 1953 г.) Кафедра горного дела с 2013 г. Проф., д.т.н. Деревяшкин Игорь Владимирович
Иркутский национальный исследовательский технический университет (ИРНИТУ) Институт недропользования	Кафедра маркшейдерского дела и геодезии с 1951 г. Первый выпуск в 1956 г. Проф., к.т.н. Охотин Анатолий Леонтьевич
Кузбасский государственный технический университет (КузГТУ). Кемерово Горный институт	(Кафедра маркшейдерского дела и геодезии с 1963 г. (1908 г.). Первый выпуск в 1963 г. (1911 г.) Кафедра маркшейдерского дела и геологии с 2015 г. Доц., к.т.н. Михайлова Татьяна Викторовна
Пермский национальный исследовательский политехнический университет (ПНИПУ) Горно-нефтяной факультет	Кафедра маркшейдерского дела, геодезии и геоинформационных систем с 1953 г. Первый выпуск в 1970 г. Проф., д.т.н. Кашников Юрий Александрович
Российский государственный геологоразведочный университет (РГГРУ). Москва	(Кафедра маркшейдерского дела и геодезии с 1933 г. Первый выпуск в 1995 г.)

МАРКШЕЙДЕРСКИЙ ВЕСТНИК № 3 – 2016 г.

63

ПРОБЛЕМЫ ГОРНОГО ОБРАЗОВАНИЯ

Название вуза и факультета	Сведения о выпускающей кафедре
Институт современных технологий геологической разведки, горного и нефтегазового дела	Кафедра горного дела
Дальневосточный федеральный университет (ДФУ). Владивосток Инженерная школа ДВФУ	Кафедра горного дела и комплексного освоения ресурсов с 1988 г. Первый выпуск в 1998 г. Д.т.н., доц. Макишин Валерий Николаевич
Сибирский федеральный университет (СФУ). Красноярск Горно-геологический факультет Института горного дела, геологии и геотехнологии	Кафедра маркшейдерского дела с 1998 г. Первый выпуск в 2001 г. Проф., к.т.н. Юнаков Юрий Леонидович
Норильский индустриальный институт (НИИ) Горно-технологический факультет	Кафедра разработки месторождений полезных ископаемых. Первый выпуск в 2001 г. Доц., к.т.н. Туртыгина Наталья Александровна
Северо-Восточный государственный университет (СВГУ). Магадан. Политехнический институт	Кафедра маркшейдерского дела и геодезии с 1998 г. Первый выпуск в 2003 г. Кафедра горного дела К.т.н., доц. Михайленко Григорий Григорьевич
Магнитогорский государственный технический университет (МГТУ) Институт горного дела и транспорта	Кафедра геологии, маркшейдерского дела и обогащения полезных ископаемых с 2004 г. Первый выпуск в 2010 г. Д.г.-м.н., доц. Горбатова Елена Александровна
Российский университет дружбы народов (РУДН). Москва. Инженерный факультет	Кафедра геодезии и маркшейдерского дела с 2008 г. Первый выпуск в 2014 г. К.т.н., доц. Негурица Дмитрий Леонидович
Сибирский государственный университет геосистем и технологий (СГУГиТ). Новосибирск Институт геодезии и менеджмента	Кафедра инженерной геодезии и маркшейдерского дела с 2010 г. Первый выпуск в 2015 г. К.т.н. Лагутина Елена Константиновна
Забайкальский государственный университет (ЗабГУ). Чита Горный факультет	Кафедра гидрогеологии и инженерной геологии с 1978 г. Готовит маркшейдеров с 2011 г. Доц., к.г.-м.н. Верхотуров Алексей Геннадьевич
Белгородский государственный национальный исследовательский университет (НИУ «БелГУ») Геолого-географический факультет	Кафедра прикладной геологии и горного дела с 2004 г. С 2013 г. готовит маркшейдеров Проф., д.т.н. Сергеев Сергей Валентинович

Контингент студентов-маркшейдеров в вузах России (январь 2016 г.)

Вузы	Форма обучения	Количество студентов по курсам						Всего
		1	2	3	4	5	6	
СПбГУ	Очная	54	49	47	46	43		239
УГГУ	Очная	42	39	50	36	34		201
	Заочная	52	63	42	57	51	20	285
ЮРГГУ	Очная	24	17	26	14	12		93
МИСиС	Очная	39	45	48	51	67		250
	Заочная	27	24	14	22	22	16	125
МАМИ	Заочная		24	40	32	32	9	137
ИРНТУ	Очная	23	22	21	25	18		109
	Заочная	31	36	33	26	28	14	168
КузГТУ	Очная	29	25	31	35	25		145
	Заочная	26	13	17	18	21	13	108
ПНИПУ	Очная	20	21	18	15	20		94
РГГРУ	Очная	4	-	-	11	16		31
ДВФУ	Очная			25	11	14		50
	Заочная			8	10	-	-	18
СФУ	Очная	44	27	12	19	15		117
НИИ	Очная	17	-	16	15	-		48
СВГУ	Очная	13	10	8	5	6		42
	Заочная	19	10	13	4	9	9	64
МГТУ	Очная	24	23	25	15	13		100
	Заочная	32	21	32	13	11	11	120
РУДН	Очная	22	12	16	25	6		81
СГУГиТ	Очная			19	19	19		57
	Заочная	11	8	25	30	32	9	115
БелГУ	Очная	20	10	8	-	-		38
	Заочная	10	5	9	-	-	-	24
ЗабГУ	Очная		22	24	5	9		60
Всего	Очная	375	322	394	347	317		1755
	Заочная	208	204	233	212	206	101	1164

Attachment 4: Report of Commission 6.

The Report of Commission 6

Ladies and Gentlemen:

Good afternoon, on behalf of the sixth committee of ISM, I feel great honor to briefly report the works we have done since the ISM presidium meeting in the past year.

First, the fourth and sixth committee of ISM together with ISM China committee jointly hosted the international academic forum for mine surveying in Beijing last October. The forum was co-organized by China University of mining and Technology (Beijing) and China Coal Technology & Engineering Group. Meanwhile, the ISM presidium meeting was held to discuss important things ongoing and the plan for two thousand and seventeen International Academic Forum for Mine Surveying in China. At this forum, seventy papers from domestic and overseas were accepted in the proceedings, covering a wide range of topics, such as mine surveying, mining subsidence, mining under buildings, railways and water bodies, land reclamation, deformation monitoring, digital mine, remote sensing and environmental monitoring etc. Two hundred and sixty-five delegates from nine countries participated in this forum, in which the overseas delegates were thirty people, Chinese formal delegates were one hundred and seventy-five people, and student delegates were sixty people. So this forum was meaningful and fruitful in the sense of making its own contribution for further research.

Another important thing we have done is: we have finished preparation for two thousand and seventeen International Academic Forum for Mine Surveying in China, which will be co-sponsored by the fourth and sixth committee of ISM and Committee of International Society for Mine Surveying of China. We also confirmed the two undertakers: Anhui University of Science And Technology and China Coal Science and Technology Group. China Coal Society Mining Survey Specialized Committee and twelve universities and units related are chosen as the co-organizers.

Two thousand and seventeen International Academic Forum will be held in Huainan city in October. We chose seven themes for the forum, such as

- **Monitoring and deformation control of mining subsidence**
- **"Three under" mining theory and technology**
- **Remote sensing and environmental monitoring in mining area**
- **Mine spatial information and digital mine**
- **Mine environmental protection and land reclamation**
- **New equipment and technology of mine surveying and mapping**

- **Higher education development and talent cultivation of mine surveying**

In one word, the forum announcement is available now and we expect it will be a successful forum.

Thank you!

Attachment 5: National Reports

Australia:



Australian Mine and Mine Surveying Report
ISM Presidium Meeting
16th ISM Congress, Brisbane, Australia

12th September 2016

Dear ISM President and Presidium Members

We are honoured to be able to prepare a report on the mining industry and the mine surveying profession in Australia at your Presidium Meeting.

As with previous years, the Australian mining industry is still in a poor position. The continuing low price of resources, high cost of extraction and demand for the country's resources has maintained the unfortunate situation of an industry struggling to maintain its position as a world class supplier of minerals. This continued downturn has seen many mining operations closed, put onto care and maintenance and projects shelved due to the economic climate that still exists.

At an operational level, companies are continuing to review and reassess their expenditure to ensure that current mining operations maintain their viability. The mine's permanent workforce has seen a reduction and the use of contractors reduced, or removed altogether.

From a mine surveying perspective, the profession is becoming more unified with the 3 large mining states, Queensland (QLD), New South Wales (NSW) and Western Australia (WA) slowly aligning their registrations, assessment and renewals. Due to the various mining legislation across the States of Australia, a Memorandum of Understanding between the 3 mining larger States was established in 2015 that enables any registered/authorised surveyor in any State to move freely between States to practice their profession. AIMS was instrumental in establishing the MOU as we were able to speak for all mine surveyors across the country and initiate talks between the States' Surveying administrators.

In Queensland, the regulation of mine surveyors has seen the assessment of competency for the various fields of mine surveying (Open Cut, Underground Coal and Underground Metalliferous) separated, to allow specialisation in one field and allow a simplified approach to competency assessment, especially for those surveyors only working in one mining environment. This approach has been recognised by the other regulated States as an easier way to administer conflicts with mutual recognition of survey registrations, whereby restrictions are required when transferring between States that do not have assessment for certain aspects of mining e.g. WA does not have any operating underground coal mines therefore their survey board does not assess for competency in that field.

New South Wales has recently seen a change in their survey and drafting standards where there has been a harmonisation of metalliferous and coal legislation. An additional change this year has seen the regulation of coal sea gas surveys.



In Western Australia the government is in a process of legislative change for its mining industry. Along with this legislative change, the government is proposing to remove the Mine Survey Board and its requirement to issue certificates of competency for mine surveying. The statutory position of the mine surveyor would still be legislated but the organisation required to administer mine surveyors would no longer be under the control of a government department. AIMS has been focused on helping the Department of Mines and Petroleum to identify the correct actions to take during this period of change and as such has made a submission to the department identifying aspects of the authorisation process which needs to be maintained or added. It is AIMS belief that having a similar situation to QLD and NSW, whereby the States' regulatory surveying board encompasses all surveyors, land, engineering or mining, would have the best result for mine surveyors in WA.

Callum McNaughton
Director

Chris Moy
Director

China:

National Report from ISM China Committee

1. China bids for the host of the 18th ISM congress in 2022

Congress Time: Around October, 2022

Congress place: Beijing, China

Organizers:

China Coal Technology & Engineering Group,
China University of Mining and Technology (including Beijing),
and more than 10 universities, institutes, and societies.

During the meeting of ISM China Committee in Lianyungang city, Jiangsu province in May 2015, all delegates from China University of mining and Technology (including Beijing), Henan Polytechnic University, Liaoning Technical University, Shandong University of science and technology, and other delegates, has agreed that CCTEG takes the leader to applying for the 18th ISM congress in Beijing in 2022.

China Coal Society greatly supports China ISM to bid for the 18th congress in 2022.

2. Nominations of ISM commission members

ISM China committee recommends Prof.Xu Liangji as the member of ISM commission 6. Prof. Xu Liangji works in Anhui University of Science and Technology. Now he is vice president in Institute of Surveying and mapping of Anhui university of Science and Technology. He is also the member of the professional committee of China Coal Society. He is young, kindly and warmhearted to serve ISM.

3. Work done in 2015

ISM China Committee attended ISM presidium meeting [Part A] and ISM commissions meeting held in Czech Republic in 24-26 June 2015

ISM China Committee [ISM No.4 committee, ISM No.6 committee] China University of mining and Technology (Beijing) and China Coal Technology & Engineering Group co-organized ISM presidium meeting [Part B] and 2015 International academic forum for mine surveying in Beijing in 16-18 October 2015. The key topics are the strata movement control and mine surveying technology. The ISM President and two vice Presidents all attended meeting. The academic forum is very successful.

4. Work arrangement in 2017

ISM China Committee plans to host International academic forum for mine surveying in Huainan City, Anhui Province, in October 2017. We sincerely invite Dr. Andrew Jarosz, Professor Axel Preusse, Professor Anatoly Okhotin, and ISM members to attend the meeting. Huainan City is near famous Mount Huang, and attendees can visit her scenery.

ISM China Committee

6 September,2016

Hungary:

NATIONAL REPORT OF HUNGARY, 2016

44TH ISM PRESIDIUUM MEETING (Dr István HAVASI)

Brisbane, Australia, 12-16 September 2016

In the frame of the *Hungarian National Report* the following topics will be discussed shortly:

1. **Training at the Department of Geodesy and Mine Surveying (Faculty of Earth Science and Engineering, University of Miskolc).**
2. **Present situation referring to mine surveying/mine surveyors in Hungary.**
3. **Professional event(s) which can be connected to home mine surveying and matters of legal regulation.**
4. **Production of mineral raw materials in 2015.**

1.

1. My department works in training structure of the Faculty of Earth Science and Engineering. At present all the students study in Bologna (BSc, MSc) multi-cycle linear training system either full time or part time schedule. The training time is, in general, 3.5 years for BSc students and 2 years for MSc ones. As far as *my Department* is concerned our teaching activity (*1st term of 2015/2016 /bold/ and 2nd term of 2015/2016*) can be seen in Table 1.

Table 1. Bologna training at the *Department of Geodesy and Mine Surveying* in the last year

BSC TRAINING		
Subject	Branch	Term/Number of students
<i>Geodesy</i> (2 1 + 2 p, 4 credits)	Earth Science and Engineering	autumn (1 st term) 73
<i>Mine Surveying</i> (1 1 + 2p, 3 credits)	Earth Science and Engineering, Mining and Geotechnical Specialization	autumn (5 th term) 9
Basic knowledge in GIS (2 1 + 2 p, 4 credits)	Earth Science and Engineering	spring (2 nd term) <u>42 + 9</u>
<i>Geodetic basics in GIS</i> (2 1 + 2 p, 4 credits)	Environmental Engineering	autumn (1 st term) 9
Mapping (2 1 + 2 p, 4 credits)	Geography	spring (2 nd term) <u>10 + 7</u>
<i>Geodesy and GIS</i> (2 1 + 2 p, 4 credits)	Geography	autumn (5 th term) 14
Digital mapping (2 p, 2 credits)	Geography	spring (6 th term) <u>12</u>
MSC TRAINING		

Subject	Branch	Term Number of students
GIS (2 l + 2 p, 3 credits)	Petroleum and Natural Gas Engineering; Mining and Geotechnical	autumn (1 st term) 8 + 7 (part time)
Geodesy and GIS (2 l + 2 p, 4 credits)	Earth Science	autumn (1 st term) 6
Geodesy and GIS (English) (2 l + 2 p, 4 credits)	Earth Science and Hydro-geological Engineering	autumn (1 st term) 9 + 14
Mine Surveying (part time, 3 credits)	Mining and Geotechnical Engineering	autumn (3 rd term) 11 (part time)

2.

- **On July 27th, 2016 there were 175 chartered mine surveyors in Hungary.**
- The certificates of **57** chartered mine surveyors are valid for both **surface and underground mining**.
- There are **5 new** certificates for **hydrocarbon special field** (including the establishment and operation of petroleum, petroleum products, and other hydrocarbon pipe systems with the exception of natural gas as well).
- The number of chartered mine surveyor's certificates for **surface mining** issued by the **Hungarian Mining Bureau** is: **112**.
- There is **1** certificate for **both surface mining and hydrocarbon special fields**.

3.

- **The LV. Jubilee Conference on Mine Surveying was organized in Budapest on June 8-10th, 2016. The main topic was “The 50-year-old Mine Surveying Group of Hungarian Mining and Metallurgical Society and the 25-year-old Foundation of Hungarian Mine Surveyors”. In the frame of a technical tour the Company ‘Baumit’ producing various constructional primary materials and its limestone mine were visited by the specialists and guests in Dorog. At this conference there were about 90 participants, and 12 presentations (9 oral and 3 poster ones) were delivered. Of course, there were other professional, traditional and cultural programmes as well.**
- **XVI Forum on Mine Surveying was hold in Budapest on November 10th, 2016. There were more than 60 participants. At the forum actual professional and legal questions which refer to measuring, mapping and entrepreneurial activities of chartered mine surveyors were discussed in a circle of the concerned specialists. The participants were also informed about the problems and consequences related to reorganizing mining authorities and planning a new credit system for licensing chartered mine surveyors.**

- *A professional day (consultation one) was organized about “Producing mining maps” by the Hungarian Geological and Mining Bureau in Budapest on February 1st, 2016. The result of that was a proposal for layer division and structure of mining maps in the future.*
 - *The legal regulations referring to mine surveying has been modified at the beginning of 2013.*
2. **It relied on the governmental decrees as follows (prevailing from 5 January 2013):**

3.

4. *10/2010.(III.4)KHEM*

5. about the scale and content of mining maps and

6.

7. *12/2010.(III.4)KHEM*

8. about the chartered mine surveyor.

9.

10. **As a result of these modifications usage of digital data bases and digital maps is compulsory. There were alterations in connection with the decree about the chartered mine surveyor that is to say 12/2010.(III.4)KHEM was modified again this year.**

11. **The introduced new decree is: 5/2016. (III.17.)NMF in which in the process of being a chartered mine surveyor the earlier necessary special qualification exam was cancelled. At present the required academic qualification and the special mine surveying practice (4 years) for the requested field are compulsory for an applicant.**

4.

As far as the production of various mineral raw materials is concerned, data of the last two years can be found in Table 2. Changes in percentage of each material are involved in the last column of Table 2. In connection with *solid mineral raw materials* you can see that there was a decrease of **9.81%** in *total production*. You can see a significant large decrease of **88.2%** in *production of coals*, and more than **3%** (**3.2%**) increase in case of *lignite*. The production of *ores* also decreased very significantly with **42.5%**. A *pretty large increase* is characteristic for *peat* (**76.8%**), and a very low increase for *clay* (**1.2%**). A significant decrease can be seen in case of *other materials* (**21.3**), and the production of *construction materials* also decreased (for sand and gravel with **18.7%**). **7.8%** increase is characteristic for stones. The production of *crude oil* increased with **6.8%**, and it

is decreased with **2.1%** for the *natural gas*. A nearly **8%** (7.7%) increase can be seen in case of *carbon dioxide*. The production of raw materials for a *period of 2004 and 2015* are illustrated in Figures 1 and 2.

Table 2. Comparing the production of mineral raw materials in Hungary considering the last two years

Mineral raw materials	2014 [m ³]	2015 [m ³]
Coals	195218	23026 (-88.2%)
Lignite	7216868	7449876 (+3.2%)
Ores	6035	3471 (-42.5%)
Peat	168740	298339 (+76.8%)
Clay	1921742	1945704 (+1.2%)
Sand and gravel	21690706	17625282 (-18.7%)
Stones	6638608	7159140 (+7.8%)
Other	3333403	2623075 (-21.3%)
Total [Mm³]	41.17	37.13 (-9.81%)
Crude oil [Mt]	0.59	0.63 (+6.8%)
Natural gas [Gm ³]	1.93	1.89 (-2.1%)
Carbon dioxide [Gm ³]	0.13	0.14 (+7.7%)

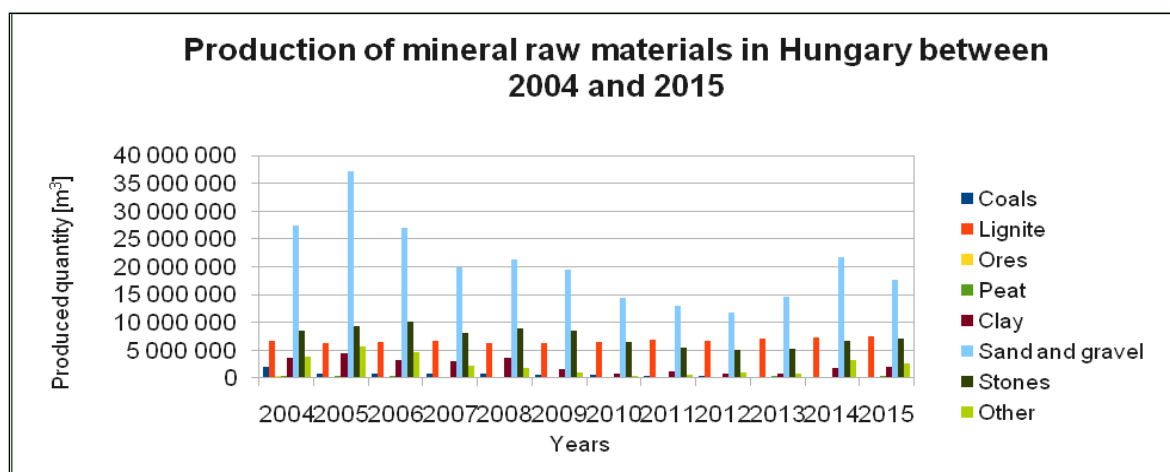


Figure 1. Production of solid raw materials

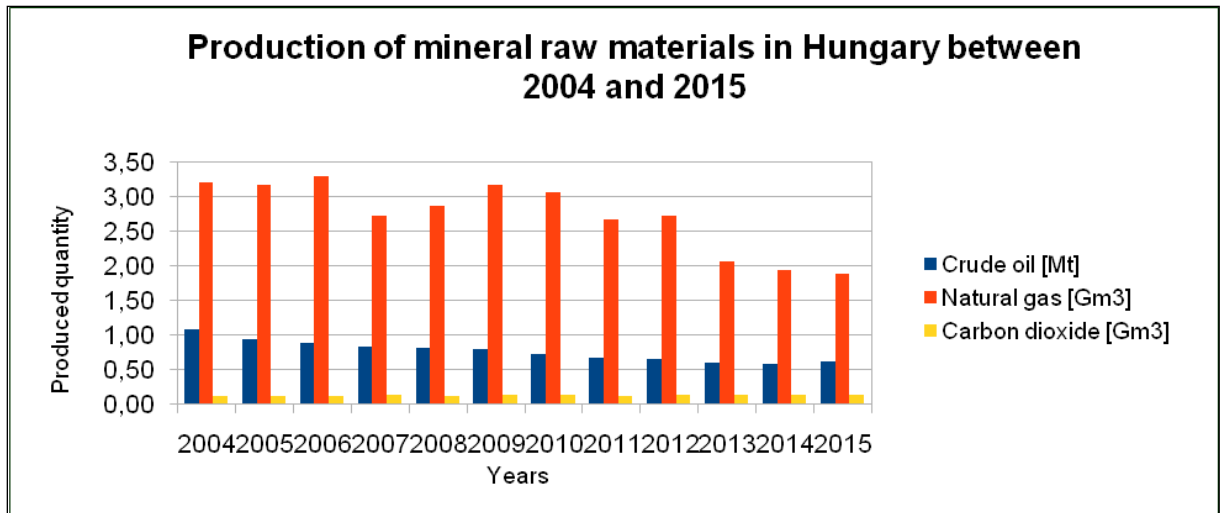


Figure 2. Petroleum and gas production

Poland:

An extensive National Report from Poland is provided as a separate document.

United Kingdom:

United Kingdom's Mineral Report ISM Congress 2016 Brisbane

This report covers the current position for which statistics are available regarding the mineral industry in the UK. These are available for the period leading up to the summer of 2013. The facts and figures contained within are as derived from the UK Agg-Net, The Coal Authority, The Minerals Products Association, the Office for National Statistics and the British Geological Survey.

Construction Materials

According to the Mineral Products Association, UK mineral products industry makes the following contribution to the economy:

1. Annual production is 250mt with an industry turnover of £9bn
2. Turnover for industries that are supplied comes to £400bn employing 2.5 million.
3. The construction industry itself is worth £120bn and employs 70,000 individuals.

According to the MPA quarterly report of July 2016, Even though there had been a contraction in the construction industry from May 2015 to May 2016 of 4.5% there was an improvement in the sales of aggregates, ready mixed concrete and asphalt in the second quarter. Following a poor first quarter, second quarter sales volumes increased by 3.5% for crushed rock aggregates, 3-4% for ready-mixed concrete and 11.5% for asphalt, all compared with the same period of January 2016.

According to the 2014 Minerals Products Association (MPA) report "The Mineral Products Industry key Facts at a Glance", aggregates production for 2013 is made up of the following:

Crushed rock	90m tonnes
Land won sand and gravel	44m tonnes
Marine won sand and gravel	10m tonnes
Recycled	56 m tonnes

Other mineral products such as agricultural lime, cement, asphalt, dimension stone, totalled sales of 70 million tonnes.

According to Agg-Net in August 2016 around 500 companies operate in the UK concrete products industry which has a total value of £1,800 million with the aggregate building block industry worth £400 million.

Marine aggregates

In 2013, 20% of the UK sand and gravel needs in England and Wales were derived from marine sources. The MPA report for 2012 indicates that licensed dredging areas are around six miles offshore and are in water more than 20 metres deep, so avoiding any possibility of coastal erosion. In 2014 the Crown estates indicated that 16.94 m tonnes of sand and aggregates were dredged from their licensed areas. The total licensed areas total 726 km² and dredging took place within 85.66km².



Recycled and Secondary Aggregates

Materials suitable for use as recycled or secondary aggregates fall into two broad groups:

1. Demolition and construction materials - 60 per cent are already used as aggregates and fill
2. Industrial by-products such as:
 - colliery spoil - widely used for bulk fill
 - china clay waste - used in some areas as mortar and concreting sands
 - power station ash (PFA) - used as a cement substitute within Ready Mixed concrete and for block making
 - blast furnace slag from the iron and steel industries - used as aggregates and when ground to form Ground Granulated Blast-furnace Slag as cementitious materials
 - used railway ballast
 - iron and steel slag
 - slate

The use of recycled aggregates in the UK has stabilised, with the share of 28% of aggregate supply, being more or less constant over the last 5 years. The MPA report of 2014 indicates that this share is 8% higher than the next highest share in Europe which is from the Netherlands. The average share across Europe is 10%. This high percentage reflects well on the industry and the development of appropriate protocols governing standards for recycled aggregates. The constant share of the last 5 years also indicates that the use of recycled and secondary materials in Britain is close to full potential.

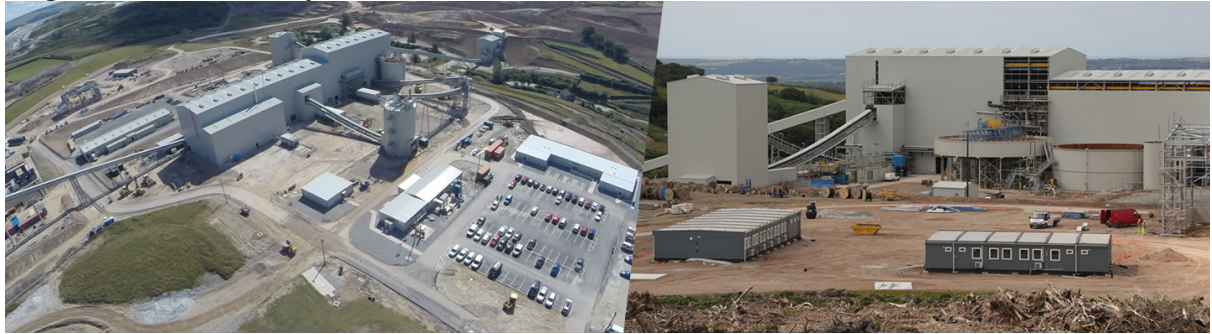
Energy Minerals

In 2015, UK oil production was 13.4% higher (49.5 million tonnes; 598 billion barrels of oil equivalent (boe)) and natural gas 7.8% (39.7 million tonnes) higher than in 2014, which reversed recent declines. Total energy production across oil, gas coal and primary electricity stood at 123.9 million tonnes of oil equivalent. There are potential recoverable reserves of 8.8 billion boe and sanctioned reserves of 6.3 boe.

UK indicates that there has been record investment in 2015 of £11.6bn and for 2014-15 paid £2.2bn in production taxes. UK Government statistics indicate that for 2016, just over 330,000 jobs in the UK will be delivered through or supported by oil and gas production. In 2008 the UK ranked 14th in the list of major oil- and gas-producing countries. Today it now ranks 25th (indexmundi figures 2016).

Metalliferous Minerals

At a cost of £130 million, Britain's first metal mine in 40 years has open at Hemerdon near Plymouth, Devon. Owned by Wolf Minerals it aims to produce 3,000 tonnes of tungsten and tin annually.



Hemerdon mine; courtesy of Wolfminerals.com.au

Coal

The UK still depends heavily on coal as a source of fuel for power stations where 2015 figures indicate that it supplies 30% of electricity generation; down from 36% in 2014. However 2015 also saw the last large deep underground coal mine (Kellingley) in the UK close in December of that year. UK Government figures indicate that domestic coal production in 2015 is now only 8.6 million tonnes while imports stand at 24 million tonnes, with Russia the largest supplier with a share of 38%. (Imports also come from the USA and Columbia). From 2014 to 2015, demand for coal reduced from 48 million tonnes to 37 million tonnes.

Total employment in the coal sector for 2015 was 1,975. The following table is based on UK Government statistics for 2015.

Year	Underground	Opencast	Total UK	Underground mines	Opencast sites
2015	2,784,000 t	5,814,000 t	8,598,000 t	5	17

Education

Mine surveying education in the UK is focussed on MSc awards in minerals surveying at Northumbria University and at Cambourne School of Mines, Exeter University. The Northumbria course is a part time distant learning award, while the Cambourne course is a full time award. Both awards are accredited by the Royal Institution of Chartered Surveyors and enable graduates to obtain their professional qualification and membership of the Minerals and Waste Management Faculty of the RICS. In total, both awards have around 20 students currently enrolled. Employability for both awards is excellent with most graduates entering the Minerals surveying and land surveying industry, both in the UK and abroad.

Attachment 6: Bid for 18th International ISM Congress

44th ISM Presidium Meeting

Meeting Minutes – Draft

12 -14 September 2016, BCEC, Brisbane, Australia

12 Sep 2016 (Monday), BCEC, A1, 3:30pm

1. Call to order

ISM President, Dr Andrew Jarosz, called to order the regular meeting of the ISM Presidium on 12 September 2016 at 3:30pm in the Arbour Room (A1) of the Brisbane Convention and Exhibition Centre, Brisbane, Australia.

The meeting started at 3:30pm on 12 Sep 2016 at the location as above.

Dr Jarosz welcomed all attendees and thanked them for coming to Brisbane. He also expressed special thanks to the Australian Institute of Mine Surveyors for hosting and sponsoring this event, as well as, to Callum McNaughton and Chris Moy for their personal involvement as the Congress Chairs.

2. Roll call

According to the signed attendance list the following persons were present (in alphabetical order):

Donovan Andersen (m), Norbert Benecke (m), Zengfu Bian (m), Tatiana Dashko (g), Elena Ezima (g), Yadon Galen (g), Bingnan Hu (g), Alina Kshanovskaya (g), Huang Leting (g), Erik Ludvigsen (m), Callum McNoughton (g), Chris Moy (g), Miroslav Novosad (g), Anatoly Okhotin (m), Gareth Powell (m), Axel Preusse (m), Sayyad Sayyadkosimov (g), Tazabek Tashmuratov (g), Stanislav Topalov (m), Yunjin Wang (g), Martin Vrubel (m), Dana Vrublova (g), Zou Youfeng (m), Alexander Zagibalov (g), Guo Zengzhang (m), Shaoliang Zhang (m).

Note: Presidium members are designated with letter “m”, honorary members with letters “hm” and guests with letter “g”

The original signed list of attendees is included as the Attachment 1.

3. Apologies and greetings

Dr Jarosz advised about ISM Presidium members who had provided apologies for absence at the meeting. The list of apologies includes:

Name	Country	Reason
Hart, Frank	USA	Schedule conflict
Havasi, István	Hungary	Other work commitments
Nyström, Kenneth	Sweden	Other work commitments
Yu Chang Xing	China	Has other conflicting commitments

Ryszard Hejmanowski	Poland	Family matters
Agnieszka Malinowska	Poland	Family matters
Dondov, Dorj	Mongolia	His current work schedule makes it impossible

All apologies were accepted.

Dr Jarosz informed the meeting about greetings that were sent by some members of the Presidium, who were not able to attend:

Name	Country	Greetings
Hart, Frank	USA	... My best wishes to all for a successful Congress.
Havasi, István	Hungary	... I believe your congress will be very productive. To all of these I wish you successful work. Please give my best regards to the presidium members and colleagues.
Yu Chang Xing	China	... i will be asking for leave and congratulate beforehand the 16th Congress successful ! !
Ryszard Hejmanowski Agnieszka Malinowska	Poland	... We wish you fruitful discussion during the meetings.
Dondov, Dorj	Mongolia	I wish you every success with the congress. I'm very interested in upcoming co-operation with the ISM. The outcomes of the meetings will also be of great interest! Again, have a successful congress and meeting

4. Acceptance of Agenda

Attendees accepted the proposed Meeting's Agenda as in the Attachment 2.

5. Obituaries

None being reported

6. Approval of minutes from the last meeting (43rd ISM Presidium, Session A: 24-26 June 2016, Prague, Czech Republic and Session B: 16 Oct 2016, Beijing, China).

The draft versions of minutes from the meetings in 2016 (Session A in Prague and Session B in Beijing) were distributed to attendees (Meeting Pack, pg. 6-16).

The drafts were accepted as the true record of the meetings (proposer: A. Preusse; seconder: A. Okhotin)

7. Matters arising

ISM Presidium Meeting reviewed the table of "Matters Arising" presented on page 17 of the Meeting Pack.

	Matter	Action	Due Date
1	Contact with National Representation: Re-establish contacts with inactive countries	All Pres Members	In progress
2	2016 ISM Congress: Organisation of the 2016 Congress Publication of Congress Proceedings	A. Jarosz & C. Moy A. Jarosz, C. McNoughton	Actioned Actioned
3	ISM Strategic Plan: To prepare final draft of plan	A. Jarosz, A. Preusse, A. Okhotin	In Progress
4	ISM Electronic Archive: To establish web based ISM Archive To convert paper docs into electronic media	M. Vrubel, A.Jarosz, M.L-B	Sept 2016
5	Student/Academic Forum: Inclusion of Student Forum into ISM Congress Academic Forum at ISM Congress	A.Jarosz, A.Preusse A. Jarosz, C. McNoughton	Actioned Actioned

The presented outcomes were accepted with some corrections:

Re. p. 4: The suggestion from Martin Vrubel to archive only most important documents was accepted. Due date was moved to Dec 2016.

8. Reports

8.1. President's report and correspondence

ISM President (A. Jarosz) provided a short verbal report covering the activities of the ISM Presidium and the President in the period from 26 June 2015 to 12 Sep 2016.

The correspondence included:

2015.10.10

Letter from China Coal Society

Re. Corporate Membership of ISM

Action: approval in principle at the 43rd ISM Presidium, Session B in Beijing, 16 Oct 2016.

To be confirmed at the ISM AGM in Brisbane, Australia.

2015.10.25

Letter to China Coal Society

Re. Corporate Membership of ISM

Confirmation of the Corporate Membership. Decision by the Executive of the Presidium ISM, to be confirmed at the next General Meeting in Brisbane, Australia.

2015.10.22

Letter from China ISM

Re. Registration with China Association for Science and Technology

Action: Supporting letter from ISM President

2016.08.16

Letter from China ISM

Re. Bid for 18th ISM Congress in 2022.

Action: to be considered at 44th ISM Presidium Meeting

2016.09.08

Letter from China Coal Society

Re. Support of Chinese bid for 2022 ISM Congress

Action: to be presented at 44th ISM Presidium Meeting

8.2. Commissions Reports

Commission reports were provided by:

- Dr Gareth Powell re. activities of Commission 1. He concentrated his activities on collection of data about mine surveying education programs in the member countries. The up-to-date results of these activities are presented in the Attachment 3.
- The Report of Activities of Commission 6 (see the Attachment 4) was submitted by its Chairman, Prof. Zou Youfeng.

8.3. National Reports

Due to time limitations it was decided that National Reports would be send in and included into the minutes. The received reports are included into the Attachment 5.

9. Membership and Representation

9.1. China Coal Society

The Presidium was informed about the decision of the Executive to grant the Corporate Membership of ISM to the China Coal Society. An application was sent to the President on 10 Oct 2015, and the last Presidium Meeting (Meeting 44th, session B in Beijing, China) granted the Executive the right to review the application and grant a membership that should be confirmed by the next General Meeting of ISM.

9.2. Uzbekistan

Uzbekistan was accepted as the new member of ISM (*details in the Chapter 13 – New members of the ISM Presidium*)

10. Report on the progress of preparations for future ISM Congresses

10.1. Report on the status of (2016) XVI International ISM Congress in Brisbane, Australia

Mr Chris Moy and Mr Callum McNaughton (Congress Chairs) presented a report on the current status of preparations. The Congress Organising Committee was intensely working on the organisation of congress over the last two years. The frequency of teleconferences intensified from once every three month to monthly and recently bi-weekly meetings. Arinex, Professional Conference Organiser (PCO), was employed to manage the preparation process. A Scientific Committee and papers reviewers were also established. The organisers believe, that they cannot achieve the initially planned attendance quota (due to downturn in the mining industry), however the conference should attract many international participants, especially from the East Asia and Pacific region.

10.2. Report on the status of (2019) XVII International ISM Congress in Irkutsk, Russia

Prof Anatoly Okhotin, from the Irkutsk National Research Technical University, provided status of early preparations for Congress n 2019. The early info about the congress is available at website: www.ism2019.com or www.ism2019.ru.

Prof Okhotin also accepted to support and maintain the ISM Website in the period 2017 – 2020.

11. New bids for future congresses.

11.1. Bid from China

The China ISM submitted and presented application for organization of the (2022) XVIII International Congress. Proposed location and venue: Beijing, CUMT.

Hosts: China Coal Technology & Engineering Group, CUMT in collaboration with other 10 universities.

The bidding documents are presented as the Attachment 6.

Mr Huang Leting presented the bid.

11.2. Bid from South Africa

Mr Donovan Andersen informed the Presidium that South Africa is withdrawing a bid for organization of the Congress in 2022.

12. Confirmation of future International Congresses and Presidium Meetings

Taking into account existence of only one bid for organization of the Congress in 2022, the bid from China was accepted.

The next two congresses will take place as follows:

2019 – Irkutsk, Russian Federation,

2022 – Beijing, China

The meetings of the ISM Presidium would be organized as follows:

2017 – Trondheim, Norway (2nd week of May, 10-12 May, 2017). It will be run jointly with the Nordic Mine Surveying Conference.

2018 – Uzbekistan (May, 2018). The planned meeting in Kazakhstan was withdrawn due to lack of Kazakhstan representation at the last two meetings of ISM Presidium.

2019 – Irkutsk, Russia (it will coincide with the XVIIth ISM Congress)

2020 – China

(The first day of meeting ended at 5:15pm)

14 Sep 2016 (Wednesday), BCEC, B3, 10:30am

13. Resignations, nominations, acceptance and confirmations of ISM officers.

Office of ISM President

The term of office of the current President will end four months after the General Assembly meeting, e.g. on 14 January 2017.

The office of the President will be assumed by Prof Anatoly Okhotin, from the Irkutsk National Research Technical University, the organizer of the next Congress.

The current president Dr Andrew Jarosz will assume office of the Vice-President.

The office of second Vice-President would be filled by nominee from China (organisers of the Congress in 2022). It was decided that Mr Huang Leting will act in this role until official notification from China ISM.

Chairmen of Commissions

Commission 3

Mr Norbert Benecke handed in his resignation from chairmanship of the commission (health reasons). Prof Axel Preusse offered his assistance with finding a new chairman. He would approach Dr Carsten Zimmerman.

Commission 5

Dr Martin Vrubel handed in his resignation from chairmanship of the commission citing his very long involvement and need to involve new, fresh people. He nominated Dr Miroslav Novosad, from the VSB in Ostrava, for this position. The nomination was accepted by the Presidium, however, it was decided that the position will be filled on the acting basis. New Chairman should prepare a proposal of commission activities for the next year.

New members of the Presidium

Dr Andrew Jarosz nominated Mr Callum McNaughton and Mr Chris Moy as Australian representatives in the ISM Presidium. Both, Mr McNaughton and Mr Moy, actively participated in the actions of the Organising Committee of XVI Congress in the role of Congress Chairs. They are also very active in the Australian Institute of Mine Surveyors.

Mr Callum McNaughton and Mr Chris Moy were accepted as members to the ISM Presidium.

Dr Miroslav Novosad was accepted as a new member to the ISM Presidium and representative of the Czech Republic. Info about the new representative for Czech Republic was provided by Dr Martin Vrubel (previous representative).

Prof Sayyiadjabor Syyidkasimov presented info about mining industry and mine surveying education in Uzbekistan.

Uzbekistan was accepted as the new member country of ISM.

Prof Sayyiadjabor Syyidkasimov was accepted as a member and Uzbekistan's representative in the ISM Presidium.

Prof Dorj Dondov nominated Dr Galen Yondon as a new Mongolian representative to the ISM Presidium. Dr Galen Yondon was accepted as a member of the Presidium.

New members of Commissions

Commission 1

Hendrich Grobler – South Africa

Jan Blachowski – Poland

Commission 3

Semen Gridnev – Russia

Commission 5

Evgenij Bielejev - Russia

14. Proposals of Honorary Membership

Nil

15. Info regarding international and national events of interest

2017 - AIMS Annual Conference, Hunter Valley, NSW, Australia

2017 – International Forum for Mine Surveying, Anhui University, China

16. Date and venue of the next ISM Presidium Meeting

Date: 10 – 12 May 2017

Venue: Norwegian University of Science and Technology, Trondheim, Norway

Organiser: Dr ing. Erik Stabell Ludvigsen

17. Miscellaneous

Dr Andrew Jarosz proposed to award Letters of Appreciation to Mr Norbert Benecke and Dr Martin Vrubel in recognition of their outstanding dedication and commitment to the Society. The proposal was accepted.

18. Closure

Meeting was closed at 11:46am