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Найрамдалын Өвөрмөц  
Integrated Mineral Resource Initiative

In Partnership with :



In Cooperation with :



GERMAN - MONGOLIAN CORPORATE DAYS 2013

## OCCUPATIONAL SAFETY AND HEALTH CONFERENCE & EXHIBITION

6. - 7. MAY 2013, THE BLUE SKY TOWER, ULAANBAATAR



Deutsche Gesellschaft für Internationale  
Zusammenarbeit (GIZ) GmbH  
Program Integrated Mineral  
Resource Initiative (IMRI)

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Twitter: GIZ Corporate Days  
Skype: [giz.corporate.days.2012](https://www.skype.com/people/giz.corporate.days.2012)

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Dear reader,

Germany and Mongolia have a tradition of good bilateral relations, particularly economic relations, based on mutual trust. The visits by Chancellor Angela Merkel to your country in 2011 and by President Tsakhia Elbegdorj to Germany in March 2012 were testimony to that. One of the aims of these visits was to foster further economic co-operation.

The IMRI programme (Integrated Mineral Resource Initiative) is at the very heart of our co-operation on raw materials. This project is funded by the Federal Ministry for Economic Cooperation and Development as part of German development co-operation. Under this programme, the German Government supports Mongolia in establishing a reliable, stable, and transparent policy environment, including in the field of health and safety at work.

For modern, competitive companies, ensuring the health and safety of their staff is more than merely an element of a positive corporate culture – it is an economic necessity. Occupational accidents and diseases are an expensive burden on companies and society. It is important not to solely rely on the technical means available to prevent such accidents and diseases, but also to educate staff about possible risks and show them how to avoid these.

Hence it is crucial to embed health and safety rules in corporate structures and workflow and to ensure they are observed. The Federal Ministry of Economics and Technology therefore supports the development of an integrated health and safety concept for companies in Mongolia. This concept will follow international standards and draw on the excellent quality of German expertise in the field of health and safety at work. This brochure gives you a number of suggestions and practical examples.

Once the integrated concept for health and safety at the workplace is completed, the Mongolian National Mining Association will make it available to other companies. In my view, this is absolutely essential so that as many companies and workers as possible can benefit from this project and enjoy better protection.

I encourage you to use this opportunity to learn more about this issue and possible solutions by looking at some practical examples. I hope this conference will provide you with many useful ideas that you can put into practice in your companies.

Dr. Bernhard Heitzer  
State Secretary in the Federal Ministry of Economics and Technology  
Federal Republic of Germany



Dear reader,

GIZ Integrated Mineral Resource Initiative is putting its efforts and great emphasis into the organization of "Occupational safety and health conference, exhibition" in Ulaanbaatar, the capital city of Mongolia and it is an efficient and international level action for rapid development of mining industry in Mongolia, ensuring health and safety environment for the mining sector employees and creating safe and healthy work places.

In 1997, Mongolia joined Occupational Safety and Health Convention, 1981, adopted by the International Labor Organization, ratified the Law on Occupational Safety and Health in May, 2008 and has been implementing National Program for occupational safety and health improvement since 1997. National Committee for Occupational safety and health was established in 2009 by the government member responsible for labor issues.

Government of Reform has set certain objective in "supporting the introduction of environmentally friendly, high quality technologies into mining industry..." in its platform. Thus it is worthy to stress the importance of this action for reaching this objective.

We believe this conference and exhibition shall have a great contribution to the amendment of Law on Occupational Safety and Health as it coincides the time when a working group for the amendment is appointed by A/47 order of the Ministry of Labor as part of the resolution on "Some actions concerning occupational safety and health" issued by the Parliament of Mongolia in February, 2013.

It brings us wide opportunities and bridge for future cooperation and partnership among governmental and non-governmental organizations, business entities and companies engaged in occupational safety and health sector of the two countries as about fifteen German entities and professional organizations are taking part in the conference and exhibition. Also it is very important for creating safe and healthy workplace in mining industry that the conference and exhibition is concentrating on valuable topics such as 'ensuring occupational safety for high-risk sector', 'zero-rating and prevention of accidents', 'preventing mining dust and fault', 'preventing noise pollution' and 'sampling and measuring toxic substance in the air of workplace'.

We hope that the Occupational safety and health conference, exhibition shall provide us with information related to the world situation, achievements, experience and lessons learned concerning occupational safety and health.

We believe that the cooperation of the two countries in occupational safety and health issues of mining industry shall be strengthened and experience shall be broadened, thus we achieve the goals set in front of us. We would like to express our gratitude and wish all the best to the organizers of the Occupational safety and health conference and exhibition.

Batkhuyag Jamiyandorj  
Vice Minister, Ministry of Labour Mongolia



Dear valued guests and participants

As industrial production grows and the mining sector develops, the formal labor market expands. With it arise new questions and responsibilities in the area of occupational safety and health. Workplace safety is a right of all employees, regardless of the kind of work or the industry concerned. Whether they are construction workers performing their job at height, operators of heavy mining machinery or employees of factories and workshops, employees have the right to do their job without risk of injury or death. Health and safety is important for safeguarding the lives of these workers for their sake as well as for their family and friends.

But it is also in the best interest of a company to follow health and safety procedures and perform a task properly, because an accident that results from violating health and safety regulations can be very expensive for the business. Every year, thousands of working days are lost due to work-related illness and injury. They decrease productivity and negatively affect the bottom line of companies. Also, accidents involve the cost of repairs to equipment as well as legal fees from a claim that might result.

The event "German-Mongolian Corporate Days 2013 – Occupational Safety and Health Conference & Exhibition" is a state-of-the-art communication platform to stimulate dialogue and debate. Theory and practice come together at this event: in addition to exhibiting products, companies will also deliver specialist lectures, workshops and interactive audience events. In keeping the topics in focus, the speakers present their up-to-date information as part of a dialogue with the Mongolian, international and interdisciplinary audience made up of representatives of public institutions, experts, users, entrepreneurs and scientists.

With a significant number of German participants exhibiting their goods and services, topics such as "Individual Health and Safety Prevention" can be explored on supplier/ client level, but also in discussions featuring highly professional experts from relevant fields of expertise.

The event will highlight today's requirements and possibilities for a human, employee oriented OSH system. It will help decision makers from different sectors of Mongolian industry to get new ideas on how to tackle the upcoming challenges as well as to find new business partners abroad. It also shows that GIZ and the German government aim to work closely with the Mongolian and international private sector to make Mongolia's economic development sustainable and beneficial to all parties concerned.

Dr. Stefan Hanselmann  
Director GIZ Integrated Mineral Resource Initiative  
Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

## The Integrated Mineral Resource Initiative – Contributing to pro-poor sustainable growth

Over recent years, the world's commodity markets have been highly volatile. Supposedly reliable commodity suppliers, especially in the rare-earth elements (REE) sector, have introduced various export restrictions, resulting in significant price increases and even economically motivated scarcities in some cases. Moreover, new market participants from the emerging economies have triggered an unexpectedly strong demand for raw materials.

Transparent market conditions for all stakeholders are of fundamental importance for an inclusive and sustainable development of the raw materials sector. Mongolia has yet to fully utilize its wealth for the benefit of its population. In present-day Mongolia unemployment, fact-based policy-making, and the business environment are challenges that are still to be mastered.

With the prospect of a boom in the extractive industry, the country is keen to establish the right framework conditions to achieve quality growth in the raw materials sector, in order to generate decent jobs and inclusive development. The Integrated Mineral Resource Initiative (IMRI) supports Mongolian decision-makers in private and public organizations focusing on:

1. Good Economic Governance in the Mineral Resources Sector,
2. Capacity Building for Sustainable Economic Policy, and
3. Promotion of Cooperation in the Mineral Resources Sector.

## The Integrated Mineral Resource Initiative – a Partnership for Sustainable Development

The Integrated Mineral Resource Initiative (IMRI) brings together three federal ministries (the Federal Ministry for Economic Cooperation and Development, the Federal Ministry of Economy and Technology and the Federal Foreign Office), three implementing organizations (GIZ, Federal Institute for Geosciences and Natural Resources, Physikalisch-Technische Bundesanstalt) and the private sector of Germany and Mongolia.



IMRI focuses on supporting Mongolia's efforts to build a national development strategy based on the mining sector. It aims to improve the institutional and economic policy framework that allows investments and revenue generation in the raw materials sector to be used for sustainable economic growth, therefore benefitting the Mongolian population in an inclusive, pro-poor approach.

## The Integrated Mineral Resource Initiative – Our Services

Capacity building for public institutions, focusing on good economic governance in the mineral resource sector.

Advisory services regarding the use of revenues from the mineral resources sector for sustainable development.

Advisory services to the public and private sector on Corporate Social Responsibility (CSR) and Corporate Governance.

Analysis of value chains for strategic metals with a focus on relevant quality infrastructure services, standards, and compliance assessment.

Advisory services on labor safety in the mining industry.

Advisory services on privatization of State Owned Enterprises and Initial Public Offering (IPO), advice on Public-Private-Partnerships (PPPs).



- Development of upstream supply and service clusters for the mining sector.
- Advisory services and capacity building for Mongolian small and medium-sized enterprises (SME) with a focus on human resources, finance, organizational development and quality management.
- Facilitation of buyer-driven business-to-business relations of Mongolian SMEs and the mining industry.
- Development of Mongolia's quality infrastructure and reduction of systemic deficits in relation to standardization, accreditation, certification, metrology and audit systems.
- Development of calibration services at the Mongolian Agency for Standardization and Metrology (MASM).
- Promoting German private sector commitments in Mongolia through the **German Center of Excellence**.



## A service offered by the Integrated Mineral Resource Initiative

### Mongolia – A country with great potential

Mongolia is one of the world's richest countries in terms of raw materials and has considerable deposits of coal, copper, gold, calcium fluoride, zinc and uranium. According to estimates by the International Monetary Fund, the real growth of Mongolia's gross domestic product will reach 25% by 2013 and per-capita income will more than double from today's 5.000 USD to 12.000 USD by 2021. In order to diversify its economy and to develop its mineral resource sector, Mongolia is dependent on foreign direct investment. The country is lacking capital investment as well as technical competency for the extraction and the processing of its mineral resources.

On behalf of the Federal Ministry for Economic Cooperation and Development (BMZ) the Integrated Mineral Resource Initiative (IMRI), lead managed by GLZ, is strengthening the capacities for the sustainable deployment of FDI in the sectors of mineral resources and infrastructure.

### German Center of Excellence – Showcase of the German Economy

Although Mongolia offers interesting opportunities, many German companies do not want to enter the Mongolian market with a subsidiary company or a sales representative right away. The distance between Germany and Mongolia as well as the present circumstances of doing business in Mongolia – not to mention the considerable costs that come along with it – often make German companies hesitate about their engagement.

Therefore IMRI affords German companies the opportunity, to introduce themselves to the Mongolian market as well as potential business partners. With the support of IMRI, German businesses can enter the Mongolian market step by step.

German technology and German know-how are highly appreciated in Mongolia. The German Center of Excellence offers a platform where German businesses can make contact with potential customers by showcasing their products, providing informational brochures, and offering videos and company presentations.

### German Center of Excellence Our Service

The project offers the following services to investors and companies in Germany:

- Exhibition space
- Use of training classrooms
- Human Resource Development (assistance in recruiting, training and qualification of employees)
- Investment consulting and support in choosing projects for investment and private equity investments

In cooperation with the German-Mongolian Entrepreneur Association (DMUV) we offer:

- General consulting services for business activities in Mongolia
- Support in establishment of a local representation or association
- Initiation of contact with Mongolian ministries and institutions



# Key Facts about Occupational Health and Safety Management Systems



Occupational health and safety (OHS) is a field of activity concerned with protecting the safety and health of people at work by reducing the appearance of work related risks.



OHS is important for moral, legal (preventative, punitive and compensatory effects of laws), and financial reasons, because all organizations like mining companies have a duty of care to ensure that their employees remain safe at all times. To fulfil this goal it is essential to foster a safe and healthy work environment.



Therefore organizations worldwide recognize the need to control and improve health and safety performance.



Considering these facts, an occupational health and safety management system (OHSMS) provides a framework to assist employers to keep pace with the rapidly shifting and competitive industrial environments. Its fundamentals include the continuous improvement process (CIP) shown in figure 1.

The main focus of an OHSMS is on the systematic, target-oriented organization of OHS. Thereby it allows the consistent, effective and efficient fulfilment of claims under public law and other guidelines or requirements regarding safety and health issues.

Due to this documented occupational safety and health administration a systematic approach and a structure is established. This manages explicit responsibilities, gathers processes and provides support and forms.

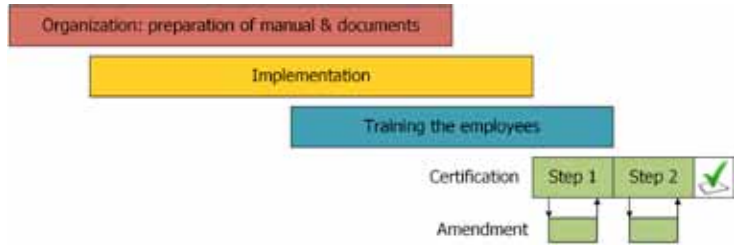
## The main advantages of an OHSMS are:

- Create safe and healthy working environments and foster a positive safety culture within a company.
- Consistently identify and control health and safety risks.  
Plan and control OHS-targets and their implementation based on key performance indicators (KPI).
- Evaluate the effectiveness of measures and determine the success of OHS actions.
- Conduct corrections and improvements if variations occur.
- Reduce the potential for accidents, employee injuries and related costs, including medical care, sick leave and disability benefit costs.
- Aid legislative compliance.
- Overview of the work related processes.
- Improve overall performance.

The Occupational Health and Safety Assessment Series 18001:2007 (OHSAS 18001) is widely seen as the world's most recognized OHSMS standard (certificates are issued in round about 120 countries).

This OHSMS operates on the basis of policy, planning, implementation and operation, checking and corrective action, management review, and continual improvement. Each component of the system is specific, auditable, and accreditable by a third party like SGS or TÜV after review. These certifiers are well known in Asia, Australia, Europe and America. The certificate is useful to obtain external funds, because it shows the companies duty of care.

Figure 2 gives a quick overview of the certification process.



The whole process of certification can be divided into 4 segments. At first the management system manual and the necessary documents have to be elaborated. The Implementation of the content in the company then should start time-delayed. The next step includes the training of the managers and employees. It is an advise to appoint external experts like CBM GmbH to assist the process in order to achieve the goals, i.e. to conduct precise internal audits.

Step 1 of the certification carried out by a third party auditor goes along with the implementation and includes the examination of the documents and the manual. During step 2 the implemented processes at the company are inspected on site (so called "OHS in practice"). If there are deviations in step 1 or 2 it is possible to carry out amendments. In the event of a successful auditing the certificate is granted to the company, concluding the certification.

OHSAS 18001 is closely aligned with the structures of ISO 9001:2008 (Quality Management Systems) and ISO 14001:2009 (Environmental Management System) so that organizations can more easily adopt OHSAS 18001 alongside existing management systems.

Instead of starting with a quality management system (ISO 9001), then add the environment management requirements (ISO 14001) and then look at your health and safety risks and add OHSAS 18001, it is recommended to implement all three standards at the same time (so called integrated management system). This will be much more cost-effective and minimizes disruption.

External HSE-Experts like CBM GmbH can endorse your company in the implementation of an effective and cost-efficient OHSMS or even integrated management systems.

The CBM GmbH (CBM) has developed from a successful long-time collaboration between university (RWTH Aachen University, Department of Mining Engineering) and economy.

Due to the "proximity to the university" and CBM's extensive long-time industry experience, CBM has appropriate scientific standards, specific knowledge and working methods very related to practice. Its core businesses are occupational safety, health and environmental protection, human resources and corporate development as well as international mining. CBM supported successfully many international mining companies in matters of extraction, process optimization, OHS and environmental protection.

## 3rd Floor, Blue Sky Hotel

### Exhibiting Companies and Institutions:

- Berufsgenossenschaft der Bauwirtschaft
- CFT GmbH Compact Filter Technic
- Comnovo GmbH
- Deutsche Gesetzliche Unfallversicherung
- Dr. Klaus Schulte GmbH
- Dräger Safety AG & Co. KGaA
- GIZ Integrated Mineral Resource Initiative
- HSE Systems LLC
- Institut für angewandte Bauforschung Weimar GmbH
- Institut für Gefahrstoff-Forschung der Berufsgenossenschaft Rohstoffe und chemische Industrie
- ISSA Electricity Section
- ISSA Mining
- Mongolian Employers' Federation
- RAG Mining Solutions GmbH
- RAG Ruhranalytik GmbH
- RTT Co., LTD
- Safety First/ Ikh Ugsaa LLC
- Skylotec GmbH
- UVEX Safety Group GmbH & Co. KG



# GERMAN-MONGOLIAN CORPORATE DAYS 2013

Conferences & Exhibitions

12 - 13 March 2013

German-Mongolian Logistics Days  
The Blue Sky Tower, Ulaanbaatar

06 - 07 May 2013

Occupational Safety and Health Conference & Exhibition  
The Blue Sky Tower, Ulaanbaatar

27 - 28 May 2013

German-Mongolian FoodTech  
The Blue Sky Tower, Ulaanbaatar

October 2013

Enterprise Resource Planning Conference and Exhibition  
Ulaanbaatar

Contact: [imri@giz.de](mailto:imri@giz.de) or call +976 7011 7704  
[www.imri-mn.com](http://www.imri-mn.com)

Day 1, May 6th, 2013

01.00 pm 02.00 pm	Opening of Exhibition and Registration	
02.00 pm 02.05 pm	Welcome Address, Room Crystal  Dr. Stefan Hanselmann Program Director, GIZ Integrated Mineral Resource Initiative	
02.05 pm 02.25 pm	Opening Addresses, Room Crystal  H.E. J. Batkhuyag Vice Minister, Ministry of Labour of Mongolia  H.E. Dr. Bernhard Heitzer State Secretary, German Federal Ministry of Economics and Technology  H.E. Dr. h. c. Peter Schaller Ambassador of Federal Republic of Germany to Mongolia	
02.25 pm 02.40 pm	Keynote, Room Crystal  H.E. Bui Hong Linh Deputy Minister, Ministry of Labour, Invalids and Social Affairs of Vietnam (MoLISA) Vice-President, ISSA Mining "Promoting Occupational Safety in High Risk Sectors"	
02.40 pm 03.00 pm	Session I, Room Crystal  Introducing Global OSH Standards to the Mongolian Mining Industry  Ch. Erdenebayar Head of HSE Division, Mongolyn Alt Corporation (MAK)	
03.00 pm 03.10 pm	Break	
03.10 pm 04.40 pm	Session II.1, Room Crystal <b>Proactive Prevention in Mining (I)</b> Moderation: Helmut Ehnés, ISSA Mining  Lars Riemann RAG Mining Solutions GmbH "Success and Measures in German Mining"	Session II.2, Room Topaz <b>OSH Management Systems</b> Moderation: Ch. Erdenebayar, MAK  Ts. Orgil Erdenet Mining company LLC, Occupational Safety Service (OS Service), Fire Safety and Fire Automatic Engineer "Experience of Erdenet Mining Company LLC on OSH"

EXHIBITION

	<p><b>Heiko Blak</b> Project Engineer, CFT GmbH <i>"Dust and Explosion Protection in Mining, Dedusting, Ventilation and Cooling"</i></p> <p><b>Susanne Schulte-Wantia</b> Managing Director, Dr. Klaus Schulte GmbH <i>"New Safety-Barrier-System out of Waterbags WATA - A Passive Explosion Protection System for Underground Mining"</i></p>	<p><b>L. Erdinebileg</b> Director, HSE Systems LLC <i>"Upgrading the Occupational Health and Safety Management System, Registration and Inspection"</i></p> <p><b>Frank Pirman</b> Berufsgenossenschaft Rohstoffe und chemische Industrie (BG RCI) <i>"Systematic Safety - the Safety Management System of the German Accident Insurance"</i></p>
04.40 pm 05.00 pm	Coffee Break	
05.00 pm 06.00 pm	<p>Session III.1, Room Crystal <b>Proactive Prevention in Mining (II)</b> Moderation: Helmut Ehnes, ISSA Mining</p> <p><b>Helmut Ehnes</b> Secretary-General, ISSA Mining Technical Director, Berufsgenossenschaft Rohstoffe und chemische Industrie (BG RCI) <i>"Vision Zero - The New Global Prevention Strategy of ISSA Mining"</i></p> <p><b>Frank Lirka</b> RAG Ruhranalytik GmbH <i>"Expert Services for Land Recycling of Former Mining Sites"</i></p>	<p>Session III.2, Room Topaz <b>R&amp;D Master Class</b></p> <p><b>Volker Köster</b>, Comnovo GmbH Technical University of Dortmund</p> <p><i>"The KEEPER/BEEPER System: All-around Pedestrian Detection in the Danger Zone of Earth-Moving Machinery"</i></p>
06.00 pm	End of first conference day	

Day 2, May 7th, 2013

09.00 am 09.15 am	Opening of Exhibition and Registration	
09.15 am 09.20am	Welcome Address, Room Crystal  <b>A. Amgalan</b> Deputy Director, GIZ Integrated Mineral Resource Initiative	
09.20 am 09.45 am	Keynote, Room Crystal  <b>G. Erdenetugs</b> Head of the Occupational Safety, Social Security and Inspection Department, General Agency for Specialized Inspection (GASI) <i>"An Industrial Accident - Employer's Liability Insurance Reform "</i>	
09.45 am 11.15 am	Session IV.1, Room Crystal <b>Innovative Personal Protective Equipment</b> Moderation: Ts. Orgil, Erdenet LLC  <b>Dr. Wolfgang J. May</b> Regional Marketing and Application Manager, Dräger Safety GmbH & Co. KGaA <i>"Impairment Check for Drugs and Alcohol in the Mining Industry"</i>  <b>Lev Shapiro</b> Managing Director, UVEX SRL <i>"UVEX Innovation - PPE Solution!"</i>  <b>U. Otgonbayar</b> CEO, Ikh Ugsaa LLC <i>"Skylotec - Working Safe at Heights"</i>	Session IV.2, Room Topaz <b>Social Security and Proactive Prevention</b> Moderation: G. Erdenetugs, GASI  <b>Dr. Gregor Kemper</b> Director of International Relations, Deutsche Gesetzliche Unfallversicherung (DGUV) <i>"The Comprehensive Approach of the German Social Accident Insurance: A Reference Model since 125 Years"</i>  <b>Ts. Dashdondog</b> Head of Strategy Implementation Department, Social Insurance General Office (SIGO) <i>"Current Developments of Social Insurance in Mongolia - Insurance System and Management of Occupational Accident, Work Related Diseases"</i>  Helmut Ehnes Secretary-General, ISSA Mining Technical Director, Berufsgenossenschaft Rohstoffe und chemische Industrie (BG RCI) <i>"From Supervision to the Safety Oscar: Prevention by All Suitable Means"</i>

EXHIBITION



<p>11.15 am 11.30 am</p>	<p>Coffee Break</p>		
<p>11.30 am 01.00 pm</p>	<table border="0"> <tr> <td data-bbox="202 347 617 1066"> <p>Session V.1, Room Crystal <b>Proactive Prevention and Compliance: PPE, Electricity and Traffic</b> Moderation: Helmut Ehnes, ISSA Mining</p> <p><b>Lars Bertelsbeck</b> Head of Testing and Certification, Berufsgenossenschaft der Bauwirtschaft (BG BAU) <i>"Requirements for Personal Protective Equipment in Respects to Testing and Certification in Europe"</i></p> <p><b>Dr. Jens Jühling</b> Technical Secretary, ISSA Electricity Section <i>"ISSA Electricity Section - 42 Years of Efforts for Electrical Safety"</i></p> <p><b>Jochen Lau</b> Head of Division, Deutscher Verkehrssicherheitsrat (DVR) <i>"Prevention of Road Accidents and Injuries for the Safety of Employees - The German Experiences"</i></p> </td> <td data-bbox="617 347 1006 1066"> <p>Session V.2, Room Topaz <b>Hazard Exposure and Risk Management</b> Moderation: Ch. Erdenebayar, MAK</p> <p><b>Gaanbaatar Kh.</b> Executive Director, Mongolian Employers' Federation (MONEF) <i>"Workplace Risk Management"</i></p> <p><b>Markus Walter</b> Head of Division, Institut für Angewandte Bauforschung Weimar gGmbH <i>"Prevention in Noisy Areas: New System for Motivation and Training - Configuration and Practice of System DSA"</i></p> <p><b>Michael Koob</b> Head Technical Health Protection, Institut für Gefahrstoff-Forschung (IGF) of BG RCI <i>"Prevention by Sampling and Measurement of Hazardous Substances in Workplace Air - the IGF of BG RCI -"</i></p> </td> </tr> </table>	<p>Session V.1, Room Crystal <b>Proactive Prevention and Compliance: PPE, Electricity and Traffic</b> Moderation: Helmut Ehnes, ISSA Mining</p> <p><b>Lars Bertelsbeck</b> Head of Testing and Certification, Berufsgenossenschaft der Bauwirtschaft (BG BAU) <i>"Requirements for Personal Protective Equipment in Respects to Testing and Certification in Europe"</i></p> <p><b>Dr. Jens Jühling</b> Technical Secretary, ISSA Electricity Section <i>"ISSA Electricity Section - 42 Years of Efforts for Electrical Safety"</i></p> <p><b>Jochen Lau</b> Head of Division, Deutscher Verkehrssicherheitsrat (DVR) <i>"Prevention of Road Accidents and Injuries for the Safety of Employees - The German Experiences"</i></p>	<p>Session V.2, Room Topaz <b>Hazard Exposure and Risk Management</b> Moderation: Ch. Erdenebayar, MAK</p> <p><b>Gaanbaatar Kh.</b> Executive Director, Mongolian Employers' Federation (MONEF) <i>"Workplace Risk Management"</i></p> <p><b>Markus Walter</b> Head of Division, Institut für Angewandte Bauforschung Weimar gGmbH <i>"Prevention in Noisy Areas: New System for Motivation and Training - Configuration and Practice of System DSA"</i></p> <p><b>Michael Koob</b> Head Technical Health Protection, Institut für Gefahrstoff-Forschung (IGF) of BG RCI <i>"Prevention by Sampling and Measurement of Hazardous Substances in Workplace Air - the IGF of BG RCI -"</i></p>
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<p>01.00 pm 02.00 pm</p>	<p>Lunch Break</p>		
<p>02.00 pm 04.00 pm</p>	<p>No conference program. Guests can join: <b>Public Hearing for the Revision of the Occupational Safety and Health Law, Room Topaz</b></p> <p>Hosts: General Agency for Specialized Inspection (GASI), GIZ IMRI</p> <p>Working Group on the Occupational Safety and Health Law and the Registration of Occupational Accidents and Contaminations</p>		
<p>04.00 pm 04.15 pm</p>	<p>Coffee Break</p>		





Mr Lars Bertelsbeck  
 Head of Testing and Certification  
 BG BAU – Zentrum für Sicherheitstechnik

The "Prüf- und Zertifizierungsstelle des Fachbereiches PSA ("Testing and Certification Body of the Expert Committee on Personal Protective Equipment") in the "Zentrum für Sicherheitstechnik" (Centre for Safety Technology) is an accredited testing and certification body for Personal Protective Equipment.



Dipl. Ing. Frank Pirman  
 Safety inspector of the mining industry  
 BG RCI

BG RCI, institution for statutory accident insurance and prevention in the raw material and chemical industry, covers the whole area of Germany with 36,000 enterprises and 1.3 million employees in mining, quarrying, chemical, papermaking, leather and sugar industries. Support for enterprises in all aspects of occupational health and safety is supplemented by medical and social rehabilitation for employees.



Dipl.-Ing. Jörg Wilde  
Mining and Health & Safety Expert  
CBM GmbH

CBM has developed from a successful long-time collaboration between university (RWTH Aachen University) and economy. Its core businesses are occupational safety, health and environmental protection, human resources and corporate development as well as international mining. CBM supported successfully many international mining companies in matters of extraction, process optimization, OHS and environmental protection.

Mr. Dipl.-Ing. Jörg Wilde works as consultant and lecturer for CBM GmbH.

His main focus is on OHS management systems (e. g. OHSAS 18001) and process improvement. He is lecturer in the education of work safety specialists and supports companies in question of OHS.

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Dipl.-Ing. Jan Schiffer  
Health & Safety and Environmental Expert  
CBM GmbH

CBM has developed from a successful long-time collaboration between university (RWTH Aachen University) and economy. Its core businesses are occupational safety, health and environmental protection, human resources and corporate development as well as international mining. CBM supported successfully many international mining companies in matters of extraction, process optimization, OHS and environmental protection.

Mr. Dipl.-Ing. Jan Schiffer works as a consultant for CBM GmbH. He is doing his PhD in the research field of emission and immission of dust and dust control. His main focus is the support in the composition of integrated management systems (ISO 9001; ISO 14001; OHSAS 18001; SCC; SCP).



Heiko Blak  
Project Engineer  
CFT GmbH Compact Filter Technic

1. Wet type and dry type dedusting units for mining and tunneling
  2. Main ventilation fans from the company Korfmann
  3. Auxiliary ventilation and ventilation accessories Korfmann
  4. Air ducts from the company Schauenburg
  5. Electrical heating for ventilation systems
  6. Air cooling equipment from company WAT
  7. Degassing stations and utilization of gas from company Brockhaus
- 



Volker Köster  
Technical Director  
Comnovo GmbH Dortmund

Comnovo is a spin-off company from the Communication Networks Institute of TU Dortmund University. Comnovo is offering innovative hardware solutions and services in the field of wireless systems for sensor data collection, distance measurements and localization to improve the personal safety of your employees. The radio specialists enable companies of stone and earth, construction, chemical and metal industry to exploit untapped potential to increase safety and permanently integrate the new devices into business and production processes.



Dr. Gregor Kemper  
Director of International Relations  
DGUV (German Social Accident Insurance)

The DGUV (German Social Accident Insurance) is the umbrella association of the Statutory Accident Insurance Institutions for the industrial and public sectors. It assumes responsibility for the common interests of its member institutions and promotes their functions in the interests of both member companies and insured individuals. The DGUV represents the Statutory Accident Insurance Institutions in their dealings with policymakers, regional, national, European and international institutions, and employers' and employees' representative bodies. The DGUV maintains numerous bilateral relations around the globe sharing good practices or undertaking joint research projects in order to optimize structures and policies in the area of occupational accident insurance.

COMPENSATION

PREVENTION

INTERNATIONAL RELATIONS

**THE STATUTORY ACCIDENT INSURANCE**

MEDICAL & OCCUPATIONAL REHABILITATION

COUNSELLING

RESEARCH

The banner features a central green bar with the text 'THE STATUTORY ACCIDENT INSURANCE'. Surrounding this are several small images: a person on a telephone, a person in a red safety vest, a person in a white lab coat, a group of people in a meeting, a person in a wheelchair, a person in a hard hat, and a person in a white lab coat. The background is blue with white dots at the bottom.



# Dräger

Dr. Wolfgang J. May  
Regional Marketing & Application Manager Occupational  
Hygiene & Safety and Diagnostics  
Dräger Safety AG & Co. KGaA

Dräger is an international leader in the fields of medical and safety technology. Founded in Lübeck in 1889, Dräger has grown into a worldwide, DAX-listed enterprise in its fifth generation as a family run business. "Technology for Life" is our guiding principle and our mission.

Wherever they are deployed – in clinical settings, industry, mining or emergency services – Dräger products protect, support and save lives.

The history of Dräger and that of mine rescue date back to 1903 when Bernhard Dräger devised the first breathing apparatus during a physiological self-test after the mine disaster in Nova Scotia, Canada. Today, Dräger supplies a broad spectrum of safety equipment that can be combined and used as an integrated safety concept to improve mine and workplace safety.



Jochen Lau  
General Coordinator of Prevention of Work-related Road Accidents Program  
German Road Safety Council (DVR)

The objective of DVR is to support the measures that aim at improving traffic safety of all road users. DVR co-ordinates all wide range of activities of its members (210), develops programmes and continuously adapts them to new challenges and new research findings. One of DVR's pivotal tasks is that of bundling the efforts of all parties involved in road safety in order to achieve joint and efficient action (co-ordinating function). DVR strongly supports positions aiming to save lives and avoid severe injuries and does so particularly when dealing with representatives from politics, the social sectors, the media, as well as institutions at Federal or European level, and other national and international institutions.



Susanne Schulte-Wantia  
Managing director  
Dr. Klaus Schulte GmbH

The company, Dr. Klaus Schulte GmbH, is located in Dortmund, Germany, and was founded in 1956 by Dr. Klaus Schulte. The main business activities are the development, production and sales of technical textiles and films as well as special products (e.g. Waterbags WATA, Supporting tubes, textile mesh) for mining and industry.

# Explosion-Protection-System out of WATERBAGS (WATA) – patented and tested –



**Applications** → Extinction of strong and weak underground explosions; protection of human lives, roadway system and underground machinery.

**Advantages** → flame resistant, antistatic, tested as explosion flame extinguishing, mining approved



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Ts. Orgil  
Occupational safety service,  
Fire safety and Fire automatic engineer  
Erdenet Mining company LLC

Mongolian-Russian Erdenet Mining Company LLC is one of the biggest copper and molybdenum ore mining and processing plants in Asia. Erdenet Mining company was established in accordance with an agreement between governments of Mongolia and (former) Soviet Union. It started its operation in 1978. The main mineral deposit, extracted by the Erdenet Mining company was the Erdenetiin-Ovoo area which is located 400 km northwest of Ulaanbaatar, 180 km east of Darkhan city, 60 km north of the center of Bulgan aimag and 140 km from the border of Russia. Currently, it is a fairly large complex processing 26 million tons of ore per year and producing around 530.0 thousand tons of copper concentrate and around 4.5 thousand tons of molybdenum concentrate annually. Erdenet Mining company has about 6.000 employees in total.

Erdenet Mining company has established promising collaborations with leading mining experts such as Outokumpu Oyj, Finland; Bateman Engineering Ltd., Australia; Pacific Ore Technology Ltd., Australia; Brook Hunt & Associates Ltd., UK; Phelps Dodge, Inc., USA; KDEngineering, USA; Samsung Corp., South Korea which are leaders in the mining and metallurgical sector.



L. Erdenebileg  
Director, HSE Systems LLC

Mr. Erdenebileg graduated from the Mining Academy of Freiburg, Germany in 1993 as an open pit mining engineer and has been working in mining health and safety sector for the last decade. He established "HSE Systems" 2 years ago and has been working as its director.

"HSE Systems" LLC is engaged in determining your business risks, finding proper mitigations, introducing management systems developed by our various field specialists, coordinate, supplying labor force, as well as giving recommendations on insurance and reinsurance.

Also, the company offers comprehensive training facility for HSE trainings and personal development of safety attitude. We elaborate our documents and present required reports with high quality in accordance with relevant standards and regulations and furthermore provide services applicable for the tradition and ground of Mongolia.

We will enhance social responsibility and contribute to the sustainable development by ensuring every Mongolian could work and live in healthy and safe environment.



G. Erdenetugs  
Head of the Occupational Safety,  
Social Security and Inspection Department  
General Agency of Specialized Inspection

General Agency of Specialized Inspection (GASI) was established in 2002 with guidance to administer the law and regulations in Mongolia, to ensure safe and healthy living conditions of the people, as well as enabling access for products and services of good quality and accredited safety for them, thus being reorganized in 2008.

National specialized inspection system consists of offices in 21 provinces and Ulaanbaatar city, specialized inspection departments in 6 district of Ulaanbaatar, borderline inspection offices at three border points, 1505 full-time, 398 adjunct authorized employees and 707 state inspectors at sums and other organizations operating nationwide.

Our agency puts implementation of 104 Mongolian law, 92 international treaties and conventions, 25 State Ikh Khural and 289 Government protocols, adherence to 2669 Mongolian national standards, 753 regulations and 338 norms and mormatives under control.

GASI adopted new concept and guidance for its' activities aiming to provide healthy, safe living conditions for the people, where there is sound business and investment context and where environmental safety is put as the foremost goal. This new concept shall be based on proper control proportion between state, civil society and citizens, consistent with development requirements and modern demands avoiding concentration on only discord or inspection activities.



Dipl.-Ing. Markus Walter  
HOD Measurement and automation technology  
IAB – Institut für Angewandte Bauforschung Weimar gGmbH

The IAB – Weimar Institute of Applied Construction Research is your partner for application-oriented contract research and aim to link the creativity of research to industry needs to shorten the path from ideas to problem solving. Our broad and interlinked competencies provide you with a unique spectrum of research and development options. The institute also offers a comprehensive range of services. More than 90 employees develop innovative end-to-end solutions for the construction, building materials and construction equipment industries. Our services are based on cross-disciplinary collaboration of our building materials, technical systems and sustainable construction research departments.



**Michael Koob**  
 Head Technical Health Protection  
 Institut für Gefahrstoff-Forschung (IGF) der BG RCI

The IGF is a central non-independent institute of BG RCI's prevention department. We are the research institute on questions of dust exposure with more than 80 years of history. Services as the measurement-service institute for all BG RCI departments/ insured persons of BG RCI. Services as a laboratory and sampling institution for German and international customers, too. Applied research (e.g. nanoparticles) and development to improve workplace conditions, especially dust reduction.



**Dr. Jens Juehling**  
 Technical Secretary of the ISSA Electricity Section  
 BGEMEM/ ISSA Electricity Section

The ISSA – International Social Security Association– is a non-profit organization. Members of the ISSA are national institutions from the social security sector. At present more than 340 institutions from 158 countries are members in the ISSA. They share the common objective to promote and enhance social security worldwide. The ISSA was founded in 1927 in Geneva and has its headquarters in the International Labour Office (ILO) in Geneva.

One aim of the ISSA is to enhance occupational safety and health protection worldwide. Thirteen international sections organized according to industries work commonly to achieve this aim. The Electricity Section is one of the 13 Sections.



Helmut Ehnes  
Secretary-General  
ISSA Mining

The International Section of the ISSA on Prevention of Occupational Risks in the Mining Industry (ISSA Mining) aims to foster and improve social security in mining by means of worldwide co-operation, particularly in the field of prevention. Among all industrial activities, mining and other forms of extraction are considered the most dangerous worldwide. Considering this, ISSA Mining aims to achieve worldwide acceptable working conditions in mining operations by influencing OSH policies on a global level, creating recommendations and promoting the transfer of the best solutions and good practice. ISSA Mining is an independent, non-profit, international organisation.

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Ch. Erdenebayar  
Head of HSE Department  
"Mongolyn Alt" LLC

"Mongolyn Alt" (MAK) LLC corporation was first established in 1993 and has now become one of the leading locally owned companies. We perform business activities in mining, construction materials, tourism, agriculture and airline sectors. MAK corporation has always been leading tax payer with total tax paid was 99.1 billion tugriks in 2010 and 168 billion tugriks in 2011 and it was ranked as the second in the list of top 150 entities announced by the Government of Mongolia and Mongolian National Chamber of Commerce and Industry. We not only introduce the best and environmentally friendly technique and technologies for all our activities and production, but also we implement large scale projects which bring benefits to the Mongolian economy.

Recent years have witnessed a rapid growth and expansion in MAK's foreign relations and its business with foreign partners. Currently, we are cooperating with European Bank for Reconstruction and Development (EBRD), Bucyrus LLC, LG International, Bateman Engineering, Caterpillar and many other major global financial, mining and engineering companies.



Kh. Ganbaatar  
Executive Director,  
Mongolian Employers' Federation (MONEF)

Mongolian Employers' Federation is an independent and non-government membership and self-financing organization.

MONEF was established on 29th of September, 1990 by 35 private company owners, voluntarily affiliated with the aim to support the employers' interest and as well as promoting the private sector's development through its services.

The name was changed to Mongolian Employers' Federation (MONEF) by the second assembly resolution, in 1998.

Today, MONEF is a NATIONWIDE organization embracing 21 regional employers' associations, representing agency in 60 soums, 41 professional associations, 12 sectoral associations and representing collectively around 8100 business in the manufacturing, construction, transportation, banking, insurance and service sectors.

MONEF has responsibility of providing members and members-organizations with necessary information, training, consultancy services on related subjects, and playing an important role on developing cooperated activities with other employers' organizations at the international level.



Lars Riemann  
Special Tasks in HSE  
RAG Mining Solutions

### RAG Mining Solutions

is part of the RAG Group of companies. Our core skills are based around years of experience in the German mining sector. We owe our leadership in mining safety and engineering to a long history of operating under the difficult geological and climate conditions prevailing in the German coalfields.

Increasing coal production worldwide has intensified the demand for tried and tested technology and real mining know-how. We also have access to stocks of used and well-proven mining machinery and equipment. We can in addition deliver engineering, consultancy and training services for all aspects of modern mining operations above and below ground. RAG Mining Solutions is also engaged in a wide range of activities in the field of industrial health and safety and environmental protection. Our skills go deep – come and put us to the test.



Frank Lirka  
Expert for harmful substances  
RAG Ruhranalytik

The specialist department for demolition of RAG Ruhranalytik checks buildings and technical facilities for the presence of harmful substances. We create expert reports for dismantling and renovation of former mining sites.

Our business activities comprises the creation of pollutant surveys, renovation, demolition and dismantling concepts as well as expert monitoring and inspection of the tasks to be carried out. For this we take material samples and carry out air measurements. Afterwards our experts evaluate the analysis results.

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U. Otgonbayar  
Deputy Director  
Ikh Ugsaa LLC  
Official Distributor of SKYLOTEC

The owner of "Safety First" shop "Ikh Ugsaa" LLC has been established for trade and import service in 2005 as an 100% locally owned company. We supply our domestic market with products from EU.

Currently we are cooperating with leading personal protective equipment producers such as Beeswift Ltd England, Skylotec GmbH, Asatex AG and Feldtmann KG from Germany. Our trade partners in Mongolia are Oyu Tolgoi LLC, Altain Khuder LLC, Leighton LLC, Ulaanbaatar Railway Joint Institute, Mongolian Railway State Owned Company, APU LC, MCS Properties and other leading producers in mining, infrastructure, construction and food sectors.



# uvex

Lev Chapiro  
General Manager  
UVEX SPR

"protecting people" is the Fürth-based (Germany) uvex safety group's guiding principle. As a brand systems provider with manufacturing expertise, it supplies companies all over the world with personal protection equipment for their employees. With its innovative solutions in protective eyewear, safety helmets, hearing, breathing and hand protection as well as safety footwear, protective clothing, workwear and its network of subsidiaries and distributors worldwide, the uvex safety group offers comprehensive, pioneering safety concepts from head to toe. uvex stands for innovation performance, the highest standards of safety, and pioneering "Made in Germany" technology.





Ts. Dashdondog  
Head of Strategy Implementation Department  
Social Insurance General Office

Social Security system of Mongolia was established in 1942 under the name of "Social security department" with only 4 employees. Currently, it has 1500 employees in 9 districts, 321 soums and 21 provinces of Mongolia.

Social Security Authority is responsible for:

- Organizing activities to implement and enforce Social security law and related regulations;
- Furnishing social insurance fund and ensuring income and expenditure performance;
- Organizing and ensuring pension and other social benefits are provided on time from the social insurance fund;
- Carrying out research and development for upgrading social insurance system and its methods and forms, delivering the research result to the authorities for solution;
- Supervising and providing professional management for the mid and lower level bodies; and
- Implementing other responsibilities stated in the relevant laws and regulations.

Mission of the Social Insurance General Office is to ensure the implementation of laws and regulations on social security and provide a service that secures the insured's social guarantee and esteems the insured's rights.



Dr. Stefan Hanselmann	Program Director, GIZ Integrated Mineral Resource Initiative
O.Batbold	Component Coordinator, GIZ Integrated Mineral Resource Initiative
Helmut Ehnes	Secretary-General, ISSA Mining Technical Director, Berufsgenossenschaft Rohstoffe und chemische Industrie
Jean-Pierre Imbrogiano	Advisor, GIZ Integrated Mineral Resource Initiative
Conference and exhibition organizing team GIZ IMRI	
D.Bayarmaa	Contract, Finance
N.Sugarbayar	Venue, Accommodation
S.Bolortsetseg	Coordinator for all technical assistants
B.Nomindari	Invitation, Registration, Media
Ts.Sergelen	Transport, Technical equipment
B.Gantuul	Translator coordination, Registration
L.Suwid	Layout, Print material