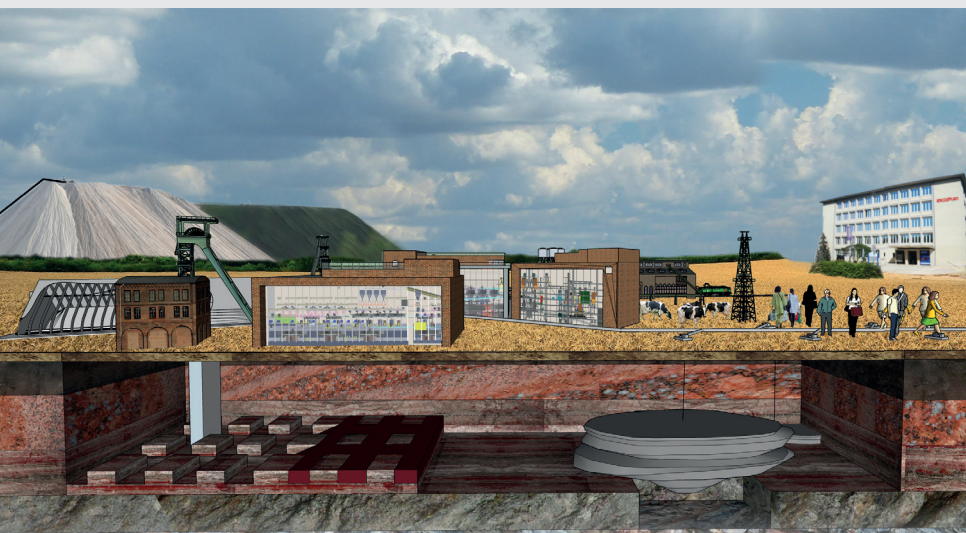


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| | | Dr Reiner Zimmermann | Project Manager; K-UTECH AG Salt Technologies, Sondershausen (Germany) |



LECTURE PROGRAMME AND LIST OF AUTHORS

International Symposium
THE POTASH INDUSTRY IN THE 21st CENTURY
Exploration, Mining, Processing and Disposal of Resulting Residues

Erfurt, 08 to 10 June 2017
 organised under the patronage of the
 Thuringian State Premier, Mr Bodo Ramelow

LECTURE PROGRAMME

9:30 – 11:00 --- PLENARY SESSION 01 in Carl-Zeiss-Hall, Ground Floor

Henry Rauche (ERCOSPLAN)
Opening Address (German)

Bodo Ramelow (Premier of the Free State of Thuringia)
Welcome Address (German)

Hartmut Kiessling (TLBA, Gera)
Welcome Address (German)

Alexa Hergenröther (K+S KALI, Kassel)
Potash – an essential nutrient to feed the world. Demand + supply outlook (English)

Coffee, Tea and Snacks

11:30 – 12:40 --- PLENARY SESSION 02 in Carl-Zeiss-Hall, Ground Floor

Ivan I. Golovaty (BELARUSKALI, Soligorsk)
Belarus Potash Industry - New Opportunities (Russian)

Jamal Amira (APC, Amman)
The APC Production Extension Program (English)

Stuart Middleton (Amec Foster Wheeler, Saskatoon)
Potash in Canada: Past, Present and Future (English)

Lunch Break

13:30 – 15:00 --- PARALLEL SESSION 03 in the Conference Rooms ...

| ... Heinrich Erhardt, First Floor Series A: Conventional Underground Mining | ... Christian Reichart, Second Floor Series B: Solution Mining | ... Ernst Abbe, Second Floor Series C: Mine Safety and Geomechanics | ... Carl-Zeiss-Hall, Ground Floor Series D: Processing |
|---|---|--|---|
| Stefan Hotz & Patrick Rennkamp (HERRENKNECHT, Schwabau) Developments of Mechanized Shaft Sinking Technologies (English) | Michael Pfeiffer (DEUSA, Bleicherode) Potash Mining Without Miners? Solution Mining as an Alternative – Potential and Limits (German) | Stanislav Y. Kvitkin & Vera V. Kovalskaya (URALKALI, Berezniki), Alexander A. Baryakh & Vladimir I. Trofimov (Mining Institute UB RAS, Perm) Injection of Mineralized Waters/Brines into Post-Evaporite Rocks of the Upper Kama Deposit (Russian) | Heiko Schulze (FAMA KO, Berlin) Complex Plants in the Potash Industry - Advantages of Delivery from a Single Source (German) |
| Tim van Heyden, Eduard Dorn & Björn Wegner (THYSSEN SCHACHTBAU, Mülheim a. d. R.) Freeze Shaft Sinking by THYSSEN SCHACHTBAU GMBH in the Russian Federation (German) | Norbert Grüschow (NGConsulting, Sondershausen) & Christian Theis (DEUSA, Bleicherode) Optimization of Cavern and Brine Field Operation by Numerical Modelling (English) | Mihail A. Zhuravkov, Sergey F. Shemet & Vladimir V. Savchenko (EuroChem, Moscow) Geomechanical Support of Potash Projects of JSC EuroChem Group (Russian) | Sven Hörschkes (FLSmidth, Copenhagen) Extended Process Responsibility of Machine Suppliers in the Potash Industry (German) |
| Jochen A. Greinacher & Jürgen Franz (Deilmann-Haniel, Dortmund) Shaft Sinking for the Sirius Polyhalite Project in Yorkshire, England (English) | Siu Ma & Robin Phinney (Kamalyte, Saskatoon) The Wynyard Carnallite Project in Saskatchewan, Canada: An Innovative Design Approach to Produce High Purity Granular Potash Pellets and to Minimize Environmental Impact (English) | Wolfgang Minkley & Christoph Lüdeling (IfG, Leipzig) Longwall Caving in Potash Mining – Geomechanical Assessment of Damage and Barrier Integrity (English) | Sebastian Ebner (Ebner, Eiterfeld) Trends Towards Process- and Energy-Optimization in the Industrial Evaporation and Crystallization (English) |
| Felix Strassburger & Thomas Deimel (GHH Fahrzeuge, Gelsenkirchen) Productivity Increase of Diesel-Driven and Electric Large Load-Haul-Dumpers (LHDs) Through Innovative Drive Technology (English) | Sebastiaan van der Klauw, Alireza Hezarkhani & Lukas Nawa (ERCOSPLAN) Potash Solution Mining Today: Optimization of Established Operations and Innovations for New Projects (English) | Carsten Ackermann & Katsiaryna Iholka (ERCOSPLAN), Wolfgang Schreiner, Klaus Salzer (IfG, Leipzig) Mining System Design and Barrier Integrity in Conventional Potash Mining in the Light of Various National Safety Requirements (English) | Fabian Horbert (Köppers, Freiberg) Optimization of Compaction-Granulation Plants for Potassium Salts (English) |

Coffee, Tea and Snacks

15:30 – 17:00 --- PARALLEL SESSION 04 in the Conference Rooms ...

| ... Heinrich Erhardt, First Floor Series A: Conventional Underground Mining | ... Christian Reichart, Second Floor Series B: Solution Mining | ... Ernst Abbe, Second Floor Series E: Mine Closure and Remediation | ... Carl-Zeiss-Hall, Ground Floor Series F: Environmental Protection |
|--|--|---|--|
| Abhichati Sayasinchana (APOT, Bangkok) ASEAN Potash Project in Thailand: A Long History Becomes Reality (English) | Thomas Fliss, Wolfgang Ramm & Benjamin Müller (K-UTECH, Sondershausen) Selective Solution Mining Within Complex Deposit Structures at Dallol Region in Ethiopia (English) | Vera Böttge, Gerhard Jost, Günter Schönberg & Bodo-Carlo Ehling (LAGB, Halle) The Stassfurter Sattel in the Stress Field of Abandoned Potash Mines, Current Solution Mining Operations and Natural Subrosion (German) | Christoph Wehner (K+S KALI, Philippsthal) Environmental Challenges Based on the Example of the Werra Plant (German) |
| Sergei G. Popov (SLAVKALIJ, Minsk) The Development of the Nezhin Project (English) | Jana Neubert, Christian Assmuth & Stephan Donndorf (ERCOSPLAN) From Drilling, Sampling and Assaying to Potash Resources – Stumbling Stones Along this Journey (English) | Jörg Domnowski (LMBV, Sondershausen) Two Decades of Closing Potash Mines in the South Harz Potash District – An Assessment (German) | Florian Krause (K+S AG, Kassel) & Kathrin Brinschwitz (Fugro, Berlin) Application of Airborne Geophysics for Groundwater Exploration in Areas Surrounding Salt Tailings Piles (German) |
| Keith Attoe (APMC, Saint John) Competitive Cost Advantage - The Key to Successful Project Development (English) | Christian Fritze & Stephan Pfeifer (ERCOSPLAN) Resource Estimation of Natural Brines: Similarities with (Solid) Mineral Resources and Differences (English) | Astrid Gessert, Holger Thoma, Ronny Köhler (K-UTECH, Sondershausen) & Hubert Prühl (LMBV, Holungen) Seismic Monitoring of Former Potash Mines in the South Harz Potash District – Development of Technology and Activity as Mine Closure Progresses (German) | Heiner Marx, Heinz Scherzberg, Stephan Kaps & Reiner Zimmermann (K-UTECH, Sondershausen) Comprehensive Use of Waste Brines from Production and Tailings Piles of the Werra Plant (German) |
| Dzianis Iholka, Thomas Teichert, Sascha Engler & Jorge Carracedo (ERCOSPLAN) Present and Future Challenges for Potash Mine Engineering: Solutions Based on Experience (English) | Flávio Faria (KIB, Belo Horizonte) Optimal Process Design for an Early-Stage Greenfield Potash Project (English) | Andreas Wölke, Manuela Gruber, André Radünz & Heidrun Rauche (ERCOSPLAN) The Time After: From Shaft Closure to the Monitoring of Abandoned Potash Mines (German) | Elke Kaps & Sven Harms (ERCOSPLAN) Reduction of Processing Residues in the Potash Industry: Yesterday – Today – The Day After (German) |

Coffee, Tea and Snacks

17:30 – 18:20 --- PLENARY SESSION 05 in Carl-Zeiss-Hall, Ground Floor

Terzan Atmaca (BGR, Hanover), Khamtanh Vongphansipaseut & Vongthong Thimamahaxay (DOM, Vientiane)
Lao-German Development Cooperation Project: Sustainable Development in the Mining Sector in Laos (English)

Andreas Jockel & Detlef Wolff (ERCOSPLAN)
25 Years of ERCOSPLAN: The Success Story from the Perspective of the “Grandchild” Generation (German)

Closing Remarks