

Mineral & Exploration - Dr. Krassmann

Bad Windheim - Rodenberg

Selected List of References

as of May 2011

- Industrial Minerals
- Project Generation
- Hydrogeology
- Mineral Exploration
- Due Diligence
- Waste Water Treatment

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Mining and Mineral Resources :

1982 :

-- Exploration on gold - quartz vein mineralisation with detailed mapping, sampling, underground exploration etc. in high alpine terrain, Sonnblickgruppe, Austria

1985 :

-- Visit and study of various finnish (Vammala, Vihanti, Outokumpu) and swedish (Grängesberg, Yxsjöberg, Kiruna) iron and base metal mines

1986 :

-- Ressource interpretation of a major drilling program on pegmatitic tin - tantalum mineralisation at Uis tinmine, Namibia

-- Visit and study of various irish and english mineral deposits and mines (Navan, Premier Periclase, Stanhope fluorapat, Wheal Jane) with subsequent publication, see : www.mineral-exploration.de/mepub/irlandexplorationbergbau.pdf

1988 :

-- Detailed mapping of gold mineralisation in high metamorphic volcanosedimentary rocks on the Daheim prospect, southern Erongo foreland, Namibia

-- Gold exploration program on gold quartz vein mineralisation on the Ondundu project, central Damaraland, Namibia, see : www.mineral-exploration.de/mepub/namibiabergbau1989.pdf

Mining and Mineral Resources (continued) :

1994 :

- Evaluation of several gemstone and precious metal deposits (emerald, peridot, gold) in southeastern Egypt and developing of an exploration concept, see www.mineral-exploration.de/mepub/sikaitemerald.pdf
- Detailed mapping and examination of abandoned underground asphalt mines and evaluation of caving risks in the Holzen Asphalt mines, Hils; 1994 - 1995

1995 :

- Desk Top Study / Literature survey about natural spinel deposits for use in the refractory industry for Refratechnik GmbH

1996 :

- Geological consultancy on various exploration- and small mining projects (iron, copper, tourmaline) in the Solwezi area, Northwestern Zambia
- Development of a recultivation scheme for a bituminous limestone mine in Eschershausen, Hils
- Investigation and development of sanitation proposals for an imminent landslide in a limestone quarry in the Weserbergland

1997 :

- Exploration for crushed rock resources suitable for quarrying, southern Lower Saxony
- Site Visits in Zambia : Kabwe Mine (Pb – Zn – V), Chingola and Kansanshi Mines (Cu)

1998 :

- Literature survey about the potential usage of bituminous limestones in disposal site construction
- Evaluation of the mineral potential of the DASAG - concession area in the Leinebergland, resulting in the discovery of a 20 Million ton high grade carbonate deposit
- Research and evaluation of the geothermal potential of flooded mine shafts in northern Germany for geothermal heating, 1998 - 1999

1999 :

- Comprehensive study about the market potential, usages and economic geology of chalk filler deposits in northern Germany
- Due Diligence of a proposed remediation & backfill project of a former dolomite quarry in the Spessart area
- Market study on the geology and economics of lapislazuli gemstones, see www.mineral-exploration.de/mepub/lapislazuli.pdf
- Evaluation of the mineral potential of Mt. Malosa area and Kangankunde phosphate - rare earth carbonatite, Malawi

Mining and Mineral Resources (continued) :

2000 :

- Preparation of planning „Rahmenbetriebsplan“ for exploitation of new asphaltic limestone reserves in a mine near Escherhausen, Lower Saxony, 2000 - 2001
- Prospection of aggregate deposits in the surrounding of salt diapirs in northern Germany, 2000 - 2001

2001 :

- Mine planning (Rahmenbetriebsplan) for a new mining section of Stollen Gustav asphalt mine, Eschershausen

2002 :

- Supervision of a drilling program for a high grade limestone deposit near Eschershausen, Lower Saxony
- Resource evaluation of travertine, gypsum and specularite iron deposits in central and eastern Turkey
- Study on landslide activity in the surrounding of the new underground gypsum mine "Breitenstein", Lower Saxony

2003 :

- Exploration for exploitable red coloured granites in Germany

2004 :

- Evaluation of amethyst and quartz deposits in western Turkey

2005 :

- Evaluation of the mineral potential of borate and base metal deposits in Turkey
- Exploration for aquamarine gemstones and lead – zinc - vanadium ores in the central Damaraland, Namibia
- Research study of market potential for namibian marble fillers

2006 :

- Major exploration program and evaluation for CBM - Coal Bed Methane resources in northern Germany, 2006 - ongoing (2011)
- Analysis / Research of the investment potential of Pan African Mining operations for Dr. Kalliwoda Research
- Analysis / Due Diligence of the geological potential of Moto Goldmines, NE - Congo
- Research on the investment potential of Northern Dynasty Minerals Ltd / Pebble Porphyry Copper, Alaska, USA, 2006 - 2007

Mining and Mineral Resources (continued) :

2007 :

- Due Diligence of a north mexican coal exploration project at Monclova for a german investment company
- Project Generation : Assessment of 15 european base metal deposits for further exploration work for Deutsche Rohstoff AG
- Project Generation : Assessment of various industrial mineral deposits (quartz, feldspar, garnet, soda ash) for future exploitation for Wolf & Müller
- Evaluation of potentially economic gold projects in the Czech Republic, Slovakia and Hungary, 2007 – 2008

2008 :

- Evaluation of the copper and sulphuric acid potential of Ophiolites in northern Cyprus
- Project Generation : Assessment of multielement Noble and Base Metal potential (Au, Ag, PGM, Ni, Co, W) in Germany and Austria
- Prospection for synsedimentary fluorspar mineralization in Hessen, Germany for Sachtleben GmbH
- Global study on economics and target generation for tungsten, molybdenum and ferrovanadium deposits for Cronimet - Group
- Identification of aggregate quarries and resources in Germany and Finland for a major austrian construction firm, 2008 - 2010
- Experts opinion on the viability of armenian podiform chromite deposits
- Organisation and supervision of a gold exploration program in eastern Bavaria (Gütting, Unterlangau) for Deutsche Rohstoff AG

2009 :

- Exploration for an underground blasting chamber for explosion clad metal production in Germany for Dynaplats
- Global study on flat ore reefs / ore horizons for a leading mining equipment company
- Evaluation of an extensive manganese shale deposit in the Austrian Alps
- Desk Top Evaluation of the high grade REE deposit Steenkampskraal in southern Namaqualand, South Africa
- Visit of several mineral deposits and mines in Namibia (Namib Lead, Rosh Pinah, Loreley, Scorpion Zinc) and Northern Cape, RSA (Nababeep, Broken Hill, Postmasburg, Northern Kalahari Manganese Field), see www.mineral-exploration.de/mepub/namibiarsa2009.pdf
- Site Visit and Assessment of a potential REE deposit near Trujillo, Northern Peru, 2009

2010 :

- Evaluation and Assessment of the Recsk – Lahoca copper gold deposit, Hungary
- Assessment and Due-Diligence on the Khe Jim Antimony Field, Northern Vietnam, for french Sudamin
- Exploration for suitable underground blasting chambers in Belgium, Alsace, Lorraine and Switzerland for Dynaplasts
- Reconnaissance and field evaluation of marble deposits in western Namibia
- Study on temporary flooding of a graphite mine in Bavaria
- Assessment and field evaluation of ophiolite VMS deposits of the Troodos mountains, Cyprus

2011 :

- Assessment of the Sn – Ta Potential of Uis and Neineis swarm, Central Namibia
- Evaluation of feldspar and kieselgur deposits in western Bohemia
- Visit of several mines and mineral deposits in the Czech and Slovak Republic and Slovenia with emphasis on Pb – Zn – Mo deposits and industrial minerals

Ecogeology / Waste & Waste site remediation :

1993 :

- Major historical research of the Salzgitter area as part of an investigation projects of local cancer causes
- Testing of short term and long term radon emanation/strain of local inhabitants of Salzgitter - Heerte as part of the investigation of local cancer clusters
- Detailed investigation of a former ammunition factory at Carlshütte - Delligsen; 1993 - 1994

1994 :

- Testdrilling and ecorisk assessment of former sludge ponds in Salzgitter - Lebenstedt; 1994 - 1995
- Major historical research and testdrilling to determine dimensions and purpose of military souterrains at Kurhessenkaserne, Hannoversch Münden; 1994 - 1998

1998 – 2001 :

- Experts opinion on possible TNT - contaminated drainage systems in the Werk Tanne explosive factory area, Harz Mountains
- Literature survey and potential study on the usage of bituminous limestones in waste disposal sites for DASAG / Eschershausen
- Detailed historical investigation of a II World War underground factory in Marienhagen, Hils area, 1999 – 2001
- Analysis of dusty work place conditions in the long abandoned Carolus Magnus Coal Mine, Übach – Palenberg, Aachen region
- Fact Finding and Evaluation of the usage of large natural Totora - reedbeds at Puno / Peru as waste water sanitation ponds for Kreditanstalt für Wiederaufbau

2004 :

- 3D - Documentation of the World Heritage Site „Messel Pit“ near Darmstadt

2005 :

- 3D – Documentation of the „Crystal Cave“ with giant halite crystals in the Merkers potash mine

2007 :

- Regional research on natural methane seeps in the Schaumburg coal mining area
- Assessment of economic potential of the “Schlackenberg” dump, Sulzbach Rosenberg

2009 :

- Evaluation of the retention potential of the Benthe potash mine dump near Hanover for hazardous organics and heavy metals

Hydrogeology :

1992 :

- Testdrilling and investigation of soil drain capabilities for artificial wetlands / eco - waste water purification system in Lahstedt (approved as EXPO - project !); 1992-94

1994 :

- Investigation of water biocontamination and development of a sanitation scheme at the Bernsen well site, Auetal community; 1994 - 1995

1995 :

- Feasibility study for a reed bed waste water treatment scheme at Hemeln near Hannoversch Münden; 1995 - 1996
- Analysis and reconstruction concept of a fresh water well in an former mine shaft at Obernkirchen including all necessary reconstruction work; 1995 - 1999

1996 :

- Feasibility study for renewed utilisation of water adits in the Bückeberge near Reinsen;
- Assessment of soilwater permeabilities in ten different construction areas in southern Lower Saxony for decentral rainwater drainage; 1996 - 2002
- Fault Analysis and Rehabilitation concept of the Liethschacht III well, Bückeberge including all necessary construction work, 1996 - 1999

1997 :

- Detailed hydrogeological analysis of untapped water potential in the Bückeberge area

1998 :

- Analysis of the fresh water potential of the former mining area of Altenau / Harz
- Detailed regional study on the geothermal potential of abandoned mine shafts and adits, Schaumburg region

1999 :

- Assessment of the hydrogeological potential of the Obernkirchen golfcourse and localisation of favourable drilling targets
- Assessment of soil permeabilities in Rinteln - Steinbergen

2000 :

- Planning and rehabilitation of the Schierboner Stollen water adit, 2000 - 2002
- Geohydrological investigation and assessment of soil permeability in Hagenburg

2001 :

- Assessment of soil permeability in the Johannishof construction area, Stadthagen

Hydrogeology (continued) :

2003 :

- Evaluation and Assessment of landslides in the vicinity of the Breitenstein gypsum mine near Bodenwerder with subsequent monitoring program, 2003 – ongoing (2011)

2006 :

- Conceptual study on thermographic exploration of submarine sweet water springs for arid and semiarid areas

2010 :

- Conceptual and hydrogeological study on the temporary flooding of a graphite mine

Bad Windsheim, May 2011

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