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- ABT, S.R., KHATTAK, M.S., NELSON, J.D., RUFF, J.F., SHAIKH, A., WITTLER, R.J., LEE, D.W., HINKLE, N.E., "Development of Riprap Design Criteria by Riprap Testing in Flumes: Phase I", Oak Ridge National Laboratory, Report ORNL/TM-10100, NUREG/CR-4651 (1987).
- ALLEN, G.C., Dry Barrier Applications for Landfills, [drybarrier.pdf](http://www.sandia.gov/eeselector/em/topics/remed/remede8.html) at www.sandia.gov/eeselector/em/topics/remed/remede8.html
- AL-TABBAA, A., ARAVINTHAN, T., Natural Clay-Shredded Tire Mixtures as Landfill Barrier Materials.- *Waste Management*, **18** (1998) 9-16.
- ANAND, R., COLBOURNE, T., CHAMBERS, R. (2000): Snip Mine Tailings Dam Closure and Reclamation.- *Mining Environm. Management*, **9**: 7-9.
- ANDRA, Inventaire national des dechets radioactifs, Etabli par l'observatoire de l'Andra, Edition 1997.
- ANTIONIOLI, S., "Mining Technologies Applied to *In Situ* Remediation", Proc. Internatl. Topical Mtg. Nuclear and Hazardous Waste Management Spectrum'94, 14-18 August 1994, Atlanta, GA (1994) 661-668.
- ATOMIC ENERGY CONTROL BOARD (198?): An Approach to the Calculation of Dose Commitment Arising from Different Methods for the Long-Term Management of Uranium Mill Tailings Through Aquatic Pathways.- Report AECB INFO-0097 Appendix A-2: Ottawa Canada.
- ATOMIC ENERGY CONTROL BOARD (1986): A Guide to the Licensing of Uranium and Thorium Mine and Mill Waste Management Systems.- AECB Consultative Document C-36: Ottawa, Canada.
- ATOMIC ENERGY CONTROL BOARD (1986): Policy Statement on Maximum Acceptable Levels of Contamination on Equipment and Materials Leaving Uranium Mine Facilities.- AECB Consultative Document C-95: Ottawa, Canada.
- BAHADIR, M., "Modellmässige Untersuchung zur Fixierung bzw. Mobilisierung von Schadstoffen bei der Verfestigung von Abfällen", Mitt. Inst. Grundbau Bodenmech., TU Braunschweig, Vol. 31: 211-21, Braunschweig (1990).
- BARETTO, P., WEBB, G., MRABIT, K., "Radiation and Waste Safety: Strengthening National Capabilities", IAEA Bulletin, **39**(1) (1997) 29-32.
- BEAK CONSULTANTS, "Approach to the Calculation of Dose Commitment Arising from Different Methods for the Long-Term Management of Uranium Mill Tailings - Summary Report", Report AECB INFO-0097, Ottawa, Canada (1983).
- BEAK CONSULTANTS, "Atmospheric Dispersion of Radionuclides from Uranium Mill Tailings Disposal Sites - Technical Appendix", Report AECB INFO-0097 Appendix ? : Ottawa, Canada (1983).
- BEAK CONSULTANTS, "Probabilistic Calculation of Dose Commitment from Uranium Mill Tailings", Report AECB INFO-0139: Ottawa, Canada (1984).
- BEAK CONSULTANTS, "Derivation of Release Limits for Typical Uranium Mining and Milling Facilities", Report AECB INFO-0165: Ottawa, Canada (1985).
- BEAK CONSULTANTS, "The Cost of Decommissioning Uranium Milling Tailings.- Report AECB INFO-0198: Ottawa, Canada (1986).
- BEEDLOW, P.A., "Designing Vegetation Covers for Long-Term Stabilization of Uranium Mill Tailings", Pacific Northwest Laboratory, Report PNL-4986, NUREG/CR-3674 (1984).
- BEEDLOW, P.A., PARKER, G.B., "Designing Protective Covers for Uranium Mill Tailings Piles: A Review", Pacific Northwest Laboratory, Report PNL-5323, NUREG/CR-4075 (1985).

Long-term Stability of Uranium Mining and Milling Wastes

- BENDA, G.A., WILLIAMS, C.A. "New Developments in Stabilization of Heavy Metals in Mixed Waste Using Inorganic Sulfides", Waste Management 2000, 27 Feb.-02 Mar., Tucson, Ar., <http://www.wmsym.org/wm2000/pdf/31/31-14.pdf> (2000).
- BERGLUND, J.W., "A Model for the Direct Removal of Solid Waste Caused by a Drilling Intrusion into a WIPP Panel", Proc. 6th Internatl. Conf. Radioactive Waste Management and Environmental Remediation, ICEM'97, 12-16 October 1997, Singapore (1997) 663-668.
- BERRY, J.B., FERRADA, J.J., DOLE, L.R., VAN DYKE, J.W. "Sustainable Production in the Mining Industry: By-Product Recovery", Waste Management 2000, 27 Feb.-02 Mar., Tucson, Ar., <http://www.wmsym.org/wm2000/pdf/25/25-1.pdf> (2000).
- BIGU, J., "Characterization of Long-Lived Radioactive Dust Clouds Generated in Uranium Mill Operations", Report AECB INFO-0333: 63 p., Ottawa, Canada (1987).
- BOURAYNE, A. DE, POLLOCK, R., ROWSON, J., "Planning Ahead: Tailings Management for High-Grade Uranium Ores with High Arsenic and Nickel Content", Radwaste Solutions, May/June (2000) 42-48.
- BOWELL, R.J., "Sulphate and Salt Minerals: The Problem of Treating Mine Waste", Mining Environmental Management, 5 (2000) 11-13.
- BOWELL, R.J., DEY, M., POOLEY, F., WILLIAMS, K.P., "ARD in Waste Rock: Preventive Methods", Mining Environmental Management, 5 (2000) 18-19.
- BOYACK, L.A., ROBERTSON, S., GILCREASE, P. "Biological Sulfate Reduction in Alkaline Waters for the Reprocessing of Trona Tailings Ponds", Proc. Conference On Hazardous Waste Research "Environmental Challenges and Solutions to Resource Development, Production, and Use", May 23-25, 2000, Denver, Colorado (2000).
- CAMPBELL, B., HUDDLESTON, G., BALHISER, B., SPRINGER, M., DAYMON, D., "A Non-Traditional In Situ Vitrification Demonstration for Mixed Waste Applications at the Los Alamos National Laboratory", Waste Management 2000, 27 Feb.-02 Mar., Tucson, Ar., <http://www.wmsym.org/wm2000/pdf/38/38-2.pdf> (2000).
- CANADA, "Uranium and Thorium Mining Regulations", Canada Gazette, Part II, May 11, 1988: Ottawa, Canada (1988).
- CHADWICK, J., "Tailings and Mine Waste", Mining Environmental Management, 5 (2000) 20-21.
- CHAMNEY, L.G., "Licensing of Uranium Mine and Mill Waste Management Systems", Report AECB INFO-0218: Ottawa Canada (1986).
- CHING, S.H., "Derived Surface Contamination Limits for the Uranium Mining & Milling Industry", Atomic Energy Control Board of Canada, INFO-0138 (1986).
- COCHI, C., MASTINO, G., A Project Carried out in Italy To Secure a Site Contaminated by Cs-137 of Unknown Origin, IAEA-TECDOC-865, Vol.1, pp.157-182, Vol.2, pp. 135-144, Vol.3, pp. 173-180, IAEA, Vienna (1996).
- COSMA, N., SÄSÄRAN, N., KOVACS, ZS. M., JELEA, M., POPA, M., NAGY, A.-A., GAVRA, A., SAND, W., SCHIPPERS, A., JOZSA, P.-G., SAHELI, H., GOCK, E., "Pilot experiments to reduce environmental pollution caused by acid rock drainage", In: Amils, R., Ballester, A. [Eds.], Biohydrometallurgy and the environment towards the mining of the 21st century. Proceedings IBS'99, Part B, Elsevier, Amsterdam (1999) 741-747.
- COSTELLO, B., DOTTERER, B., Remedy Optimization and Cost Control for Remedial Design and Remedial Action at the Acme Solvents NPL Site, Proceedings of the 12th Annual Conference on Hazardous Waste Research, May 19-22, 1997, Kansas City (1997) www.engg.ksu.edu/HSRC/97Proceed/Metals5/clean.html (tested 1999).

Long-term Stability of Uranium Mining and Milling Wastes

- COTTENS, E. et al., Contamination and Possibilities for Remediation in the Vicinity of the Former Radium Extraction Plant in Olen. A Case Study, Radiation Protection - 74, Vol.1-2, European Commission, Doc. XI-5027/94, p. 263, Luxembourg (1994).
- CUMMINGS, M., BOOTH, S.R., Remediation of Uranium-Contaminated Soil Using the Segmented Gate System and Containerized Vat Leaching Techniques: A Cost Effectiveness Study.- WM'97, www.wmsym.org/wm97proceedings/sess_9/09-03.htm, Tucson, Ar., (1997).
- DIET, J.-N., MOSZKOWICZ, P., S, D., Behaviour of Ordinary Portland Cement During Stabilization/Solidification of Synthetic Heavy Metal Sludge: Macroscopic and Microscopic Aspects, Waste Management, **18** (1998) 17-24.
- ELBERLING, B., SCHIPPERS, A., SAND, W., "Bacterial and chemical oxidation of pyritic mine tailings at low temperatures. Journal of Contaminant Hydrology, 41 (2000) 225-238.
- ELMORE, M.R., HARTLEY, J.N., "Evaluation of Field-Tested Fugitive Dust Control Techniques for Uranium Mill Tailings Piles", Pacific Northwest Laboratory, Report PNL-5340, NUREG/CR-4089 (1985).
- ETTENHUBER, E., JURK, M., KRAUS, W., BIESOLD, H., Radiological Assessment of Sites Contaminated as a Result of Former Mining Activities - The General Procedure in Germany, Kerntechnik, 62(4), (1997).
- ETTENHUBER, E., KRAUS, W., KÜMMEL, M., PRZYBOROWSKI, S., "Basic Problems in Evaluating Radiation Exposures from Mining Residues", Proc. 6th Internatl. Conf. Radioactive Waste Managemt. and Environmental Remediation, ICEM'97, 12-16 October 1997, Singapore (1997) 733-736.
- FAÍSCA, M.C., REIS, M., ALBERTO, G., TEIXEIRA, M.M.R. (1999): Radon Exhalation from Uranium Tailings - Comparison of Experimental and Theoretical Data.- Il Nuovo Cimento, 22C (3-4): 545-50.
- FAUVER, D.N., et al., Site Decommissioning Management Plan, U.S. Nuclear Regulatory Commission, Report NUREG-1444, Washington (1993).
- FAUVER, D.N., et al., Site Decommissioning Management Plan, U.S. Nuclear Regulatory Commission, Report NUREG-1444 Supplement 1, Washington (1995).
- FETISOV, V.I., ROMANOV, G.N., DROZHKO, E.G., Practice and Problems of Environment Restoration at the Location of the Industrial Association "Mayak", Radiation Protection - 74, Vol.1-2, European Commission, Doc. XI-5027/94, p. 507, Luxembourg (1994).
- FOWLER, J., Practical Difficulties Associated with Investigation and Subsequent Remediation of Contaminated Sites, Proc. 9th International Congress on Radiation Protection and General assembly of the International Radiation Protection Association (IRPA), Vienna (Austria) 14-19 April 1996.
- FREAK, G., "Chinese Rehabilitation Trials", Mining Environmental Management, May (1999) 7-9.
- GANDER, J.W., PARKIN, G.F., SCHERER, M.M., "Geomicrobiological Interactions Among Iron Sulfide Minerals and Methanogenic Consortia", Proc. Conference On Hazardous Waste Research "Environmental Challenges and Solutions to Resource Development, Production, and Use", May 23-25, 2000, Denver, Colorado (2000).
- GATZWEILER, R., MAGER, D., "Comparing Remediation Costs of Uranium Production - An International Perspective", Proc. 6th Internatl. Conf. Radioactive Waste Managemt. and Environmental Remediation, ICEM'97, 12-16 October 1997, Singapore (1997) 727-731.

Long-term Stability of Uranium Mining and Milling Wastes

- GERING, K.L., SCHWENDIMAN, G.L., Results from Five Years of Treatability Studies Using Hydraulic Binders to Stabilize Low-Level Mixed Waste at the INEL.- WM'97, www.wmsym.org/wm97proceedings/sess29/29-20.htm, Tucson, Ar., (1997).
- GERLACH, R., CUNNINGHAM, A.B., CACCAVO, F., Jr., "Formation Of Redox-Reactive Subsurface Barriers Using Dissimilatory Metal-Reducing Bacteria", Proceedings of the 1998 Conference on Hazardous Waste Research - Bridging Gaps in Technology and Culture, May 18-21, 1998, Snowbird, Utah (1998) 209-223, <http://www.engg.ksu.edu/HSRC/98Proceed/17Komlos/17komlos.pdf> (tested 07/08/01).
- GILMORE, T., KAPLAN, D., "Reactive Wells", (1998) www.pnl.gov/agg/images/Reactive.html
- GNUGNOLI, G., LARAIA, M., STEGNAR, P., Uranium Mining and Milling: Assessing Issues of Environmental Restoration, IAEA Bulletin Vol. 38, No. 2, pp. 22-26, Vienna (1996).
- GOLIAN, S., ERDMAN, J., DAWSON, G., BRADY, P.V., RICE, D., BLACK, P. "The Department of Energy's Monitored Natural Attenuation Initiative", Waste Management 2000, 27 Feb.-02 Mar., Tucson, Ar., <http://www.wmsym.org/wm2000/pdf/29/29-7.pdf> (2000).
- GONZALES, D. E., MILLARD, J. B., RAGER, R. E. "Freeze/Thaw Impacts on Radon Diffusion Characteristics of Cover Soil on the UMTRA Project", Waste Management 2000, 27 Feb.-02 Mar., Tucson, Ar., <http://www.wmsym.org/wm2000/pdf/06/6-3.pdf> (2000).
- GORDON, S., "Link Between Ore Bodies and Biosphere Concentrations of Uranium", Report AECB INFO-0349: Ottawa, Canada (1992).
- GREEN, R., ERICKSON, L.E., GOVINDARAJU, R., KALITA, P., PIERZYNSKI, G., Modeling the Effects of Vegetation on Heavy Metals Containment, Proceedings of the 12th Annual Conference on Hazardous Waste Research, May 19-22, 1997, Kansas City (1997) www.engg.ksu.edu/HSRC/97Proceed/Poster8/modeling.html (tested 1999).
- HAAS, R.F., "The EnviroWall™ Barrier System", Proc. Internatl. Topical Mtg. Nuclear and Hazardous Waste Management Spectrum'94, 14-18 August 1994, Atlanta, GA (1994) 2368-2370.
- HAGEN, M., JACUBICK, A.T., "The Wismut Experience in Management of Large Scale Remediation Projects", Proc. 6th Internatl. Conf. Radioactive Waste Managemt. and Environmental Remediation, ICEM'97, 12-16 October 1997, Singapore (1997) 719-726.
- HÉBERT, J.P. et al., Decommissioning of Old Uranium Ore Extraction and Treatment Installations, CEC Nuclear Sci. Technol. Rep. EUR16885EN, Luxembourg (1996).
- HEISER, J.H., NORTH-ABBOT, M., SULLIVAN, T., LUDEWIG, H., MANCHESTER, K., ZALUSKI, M., BROWER, J. "Viscous Liquid Barrier Demonstration at the Brookhaven National Laboratory LINAC Isotope Producer", Waste Management 2000, 27 Feb.-02 Mar., Tucson, Ar., <http://www.wmsym.org/wm2000/pdf/31/31-11.pdf> (2000).
- HERRMANN, S.D., LEHTO, M.A., STEWART, N.A., CROFT, A.D., KERN, P.W. "Treatability Study of Absorbent Polymer Waste Form for Mixed Waste Treatment", Waste Management 2000, 27 Feb.-02 Mar., Tucson, Ar., <http://www.wmsym.org/wm2000/pdf/21/21-32.pdf> (2000).
- HOLMES, R.G.G., Land Remediation Using Gentle Technologies.- WM'97, www.wmsym.org/wm97proceedings/sess43/43-07.htm, Tucson, Ar., (1997).
- HOLMES, R.W., "Uncertainty Analysis for the Long-Term Assessment of Uranium Mill Tailings", Proc. Workshop on Uncertainty Analysis for Performance Assessment of Radioactive Waste Disposal Systems, Seattle 1987, OECD-NEA, Paris (1987) 167-190.

Long-term Stability of Uranium Mining and Milling Wastes

- HOWARD, B.K., HOWELL, D., REHMANN, M.R., ROBERTS, H.R., "Recycling and Disposal of FUSRAP Materials from the Ashland 1 Site at a Licensed Uranium Mill", Waste Management 2000, 27 Feb.-02 Mar., Tucson, Ar., (2000).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Current Practices and Options for Confinement of Uranium Mill Tailings, Technical Report Series No. 209, IAEA, Vienna, (1981).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Management of Wastes from Uranium Mining and Milling, Proceedings Series, IAEA, Vienna, (1982).
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Radiation Protection of Workers in the Mining and Milling of Radioactive Ores*, IAEA Safety Series No. 26, IAEA, Vienna (1983)
- INTERNATIONAL ATOMIC ENERGY AGENCY, Environmental Migration of Radium and Other Contaminants Present in Liquid and Solid Wastes from the Mining and Milling of Uranium, IAEA-TECDOC 370, IAEA, Vienna, (1986).
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Application of the Dose Limitation System to the Mining and Milling of Radioactive Ores*, IAEA Safety Series No. 82, IAEA, Vienna (1987)
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Safe Management of Wastes from the Mining and Milling of Uranium and Thorium Ores*, IAEA Safety Series No. 85, IAEA, Vienna (1987)
- INTERNATIONAL ATOMIC ENERGY AGENCY, *The Application of the Principles for Limiting Releases of Radioactive Effluents in the Case of the Mining and Milling of Radioactive Ores*, IAEA Safety Series No. 90, IAEA, Vienna (1989)
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Radiation Monitoring in the Mining and Milling of Radioactive Ores*, IAEA Safety Series No. 95, IAEA, Vienna (1989)
- INTERNATIONAL ATOMIC ENERGY AGENCY, Principles for Limiting Releases of Radioactive Effluents into the Environment, IAEA Safety Series No.77, IAEA, Vienna (1989).
- INTERNATIONAL ATOMIC ENERGY AGENCY, In Situ Leaching of Uranium: Technical, Environmental and Economic Aspects, IAEA-TECDOC 492, IAEA, Vienna, (1989).
- INTERNATIONAL ATOMIC ENERGY AGENCY, The Environmental Behaviour of Radium, Technical Report Series No. 310, IAEA, Vienna, (1990).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Uranium In Situ Leaching, IAEA-TECDOC 720, IAEA, Vienna, (1993).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Measurement and Calculation of Radon Releases from Uranium Mill Tailings, Technical Report Series No. 333, IAEA, Vienna, (1992).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Current Practices for the Management of Uranium Mill Tailings, Technical Report Series No. 335, IAEA, Vienna, (1992).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Analytical Techniques in Uranium Exploration and Ore Processing, Technical Report Series No. 341, IAEA, Vienna, (1992).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Decommissioning of Facilities for Mining and Milling of Radioactive Ores and Close-Out of Residues, Technical Report Series No. 362, IAEA, Vienna, (1994).
- INTERNATIONAL ATOMIC ENERGY AGENCY, Assessment and Comparison of Waste Management System Costs for Nuclear and Other Energy Sources, Technical Report Series No. 366, IAEA, Vienna, (1994).

Long-term Stability of Uranium Mining and Milling Wastes

- INTERNATIONAL ATOMIC ENERGY AGENCY, *Safety Indicators in Different Time Frames for the Safety Assessment of Underground Radioactive Waste Repositories*, IAEA-TECDOC 767, IAEA, Vienna, (1994).
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Guidelines for Comparative Assessment of Environmental Impacts of Wastes from Electricity Generation Systems*, IAEA-TECDOC 787, IAEA, Vienna, (1995).
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Planning and Management of Uranium Mine and Mill Closures*, IAEA-TECDOC 824, IAEA, Vienna, (1995).
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Survey of Radioactively Contaminated Sites - Questionnaire*, IAEA, Vienna, (1995).
- INTERNATIONAL ATOMIC ENERGY AGENCY, *International Basic Safety Standards for Protection against Ionising Radiation for the Safety of Radiation Sources*, IAEA Safety Series No. 115, IAEA, Vienna (1996)
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Regulations for the Safe Transport of Radioactive Material*, IAEA Safety Standard Series No. ST-1, IAEA, Vienna (1996)
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Guidebook on the Development of Regulations for Uranium Deposit Development and Production*, IAEA-TECDOC 862, IAEA, Vienna, (1996).
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Planning for Environmental Restoration of Contaminated Sites in Central and Eastern Europe, Vol.1-3*, IAEA-TECDOC-865, IAEA, Vienna (1996)
- INTERNATIONAL ATOMIC ENERGY AGENCY, *A Summary Report of the Second Research Co-ordination Meeting on Site Characterization Techniques Used in Environmental Restoration, held at CIEMAT, Madrid, Spain, 3-7 Nov 1997*, IAEA, Vienna (1997).
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Technologies for the Remediation of Radioactively Contaminated Sites*, IAEA TECDOC-xxx, Vienna (in press).
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Post Restoration Monitoring of Decommissioned Sites to Ensure Compliance with Clean-up Criteria*, IAEA TECDOC-XXX, IAEA, Vienna (in press).
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Factors for Formulating a Strategy for Environmental Restoration*, IAEA TECDOC-XXX, IAEA, Vienna (in press).
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Application of radiation protection principles to the clean-up of contaminated areas - Interim report for comment*, IAEA TECDOC-987, IAEA, Vienna, (to be published).
- INTERNATIONAL ATOMIC ENERGY AGENCY, *A Review of Current Practices for the Close-Out of Uranium Mines and Mills*, IAEA, Vienna, (to be published).
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Siting, Design, Construction, Operation and Closure of Facilities for the Management of Wastes from Mining and Milling of U/Th Ores*, IAEA Safety Series No. 111-G-5.1, IAEA, Vienna (in prep.)
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Safety Assessment for the Management of Waste from Mining and Milling of U/Th Ores*, IAEA Safety Series No. 111-G-5.3, IAEA, Vienna (in planning)
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Procedures for Close-Out of Mines, Waste Rock and Mill Tailings*, IAEA Safety Series No. 111-P-5.1, IAEA, Vienna (in planning)
- INTERNATIONAL ATOMIC ENERGY AGENCY, *Operational and Post Operational Monitoring, Surveillance and Maintenance of Facilities for the Management of Waste*

Long-term Stability of Uranium Mining and Milling Wastes

- from Mining and Milling of U/Th Ores*, IAEA Safety Series No. 111-P-5.2, IAEA, Vienna (in planning)
- International Symposium on Remediation and Restoration of Radioactively Contaminated Sites in Europe, Antwerp, 11-15 Oct 1993, Symposium Proc. published in Radiation Protection Series of DG XI, Vol.1-2, European Commission, Doc. XI-5027/94, Luxembourg (1994).
- JANECKY, D., Permeable Reactive Barrier Wall Systems with Gel Enhancements.- www-emtd.lanl.gov/TD/Remediation/Gelbarriers.html, (1995).
- JENNINGS, S.R., KRUEGER, J., Clean Tailing Reclamation: Tailing Reprocessing for Sulfide Removal and Vegetation Establishment, Proceedings of the 12th Annual Conference on Hazardous Waste Research, May 19-22, 1997, Kansas City (1997) www.engg.ksu.edu/HSRC/97Proceed/Metals5/clean.html (tested 1999).
- JENSEN, R., SOGUE, A., "Using Proven, Cost-Effective Chemical Stabilization to Remediate Radioactive and Heavy Metal Contaminated Sites", Paper IAEA-SM-359/P-2, Internatl. Symp. Restoration of Environments with Radioactives Residues, Arlington VA, USA, 29.11.-03.12.99, IAEA, Vienna (1999) 123-126.
- JOHNSON, C.D., L.M. BAGAASEN, T.C. CHAN, D.A. LAMAR, J.L. BUELT, C.J. FREEMAN, SKEEN, R.S., "Overview of Technology Modeling in the Remedial Action Assessment System (RAAS)", Proc. Internatl. Topical Mtg. Nuclear and Hazardous Waste Management Spectrum'94, 14-18 August 1994, Atlanta, GA (1994) 1078-1085.
- KAPLAN, D., CANTRELL, K., "Reactive Permeable Barrier Using Iron Colloids for the Remediation of Groundwater Contaminants", (1997) www.pnl.gov/agg/Fe0Barr.htm.
- KNAPP, R., JACKSON, K., *In Situ* Microbial Filters - Bioremediation of Contaminated Groundwaters Using Resting-State Cells, at: www-ep.es.llnl.gov/www-ep/act/biofilt/biofilt.html, (1997).
- KOWINSKI, G.R., LAYTON, M.C., HAMDAN, L.S., FLIEGEL, M.H. (199?): Proposed NRC Staff Final Technical Position on Alternate Concentration Limits [at] Title II Uranium Mill Sites.- Ref. #: 34-6.
- KUYUCAK, N., "AMD Prevention and Control", Mining Environmental Management, January (2001) 12-15.
- LAMBERT, M., PIERZYNSKI, G., HETTIARACHCHI, G., The Use of Phosphorous in Sequestration of Lead and Cadmium in Smelter Slag, Proceedings of the 12th Annual Conference on Hazardous Waste Research, May 19-22, 1997, Kansas City (1997) www.engg.ksu.edu/HSRC/97Proceed/Metals5/clean.html (tested 1999).
- LANGMUIR, D., MAHONEY, J., MACDONALD, A., ROWSON, J., "Predicting arsenic concentrations in the porewaters of buried uranium mill tailings", *Geochim. Cosmochim. Acta* **63**(19/20) (1999) 3379-3394.
- LERCH, J., CARLSON, R., JAMES, J., "Hanford 300 Area 618-4 Burial Ground Technology Baseline for Treatment and Disposal of Depleted Uranium with RCRA and TSCA Constraints", *Waste Management* 2000, 27 Feb.-02 Mar., Tucson, Ar., (2000).
- LINDGREN, E.R., ALLEN, G.C., *Electrokinetic Remediation of Metals*, [drybarrier.pdf at www.sandia.gov/eeselector/em/topics/contain/contain.html](http://www.sandia.gov/eeselector/em/topics/contain/contain.html).
- LITTLEPAGE, B., SCHURMANN, S., MALONEY, D., "Treating Metals Contaminated Sludges with Envirobond™", *Mining Environmental Management*, May (2000) 22.
- LO, I. M.-C., YANG, X.-Y., Removal and Redistribution of Metals from Contaminated Soils by a Sequential Extraction Method, *Waste Management*, **18** (1998) 1-7.
- LOOMIS, G.G., ZDINAK, A.P., Field-Scale Permeation Testing of Jet-Grouted Buried Waste Sites.- WM'97, www.wmsym.org/wm97proceedings/sess30/30-05.htm, Tucson, Ar., (1997).

Long-term Stability of Uranium Mining and Milling Wastes

- MacARTHUR, D., "Long-Range Alpha Detector Applied to NORM", (1998) www-emtd.lanl.gov/TD/Remediation/LRAD-NORM.html.
- MARCUS, J.J. [Ed.], "Mining Environmental Handbook - Effects of Mining on the Environment and American Environmental Controls on Mining", Imperial College Press (1997) 816 p.
- MASON, C.F.V., "Remediation of Uranium-Contaminated Soils", (1995) www-emtd.lanl.gov/TD/Remediation/UraniumHeap.html.
- MASON, C.F.V., "Remediation of Radioactively Contaminated Soils", (1996) www-emtd.lanl.gov/TD/Remediation/radiosoils.html.
- McNEARNY, R.L. "Revegetation of a Mine Tailings Impoundment Using Municipal Biosolids in a Semi-Arid Environment", Proceedings of the 1998 Conference on Hazardous Waste Research - Bridging Gaps in Technology and Culture, May 18-21, 1998, Snowbird, Utah (1998) 87-100, <http://www.engg.ksu.edu/HSRC/98Proceed/8McNearnny/8mcnearnny.pdf> (tested 07/08/01).
- MIKHEIKIN, S.V., ALEKSEEV, A.N., LAGUZIN, E.A., OGULNIK, P.G., PRONINA, L.V., SMSIRNOV, A.YU., "Modern Techniques for Contaminated Sites Remediation", WM'99, Sess. 63, Tucson (1999).
- MIKHEIKIN, S.V., LAGUZIN, E.A., OGULNIK, P.G., PRONINA, L.V., SMIRNOV, A.YU., SIMONOV, V.P., ALEXEEV, A., ZEZIN, A.B., BOLYSHEVA, T.N., GLAZUNOV, G.P., FLESS, A.D. "Interpolyelectrolyte Complexes for Contaminated Soil Immobilization and Remediation", Waste Management 2000, 27 Feb.-02 Mar., Tucson, Ar., <http://www.wmsym.org/wm2000/pdf/31/31-04.pdf> (2000).
- MINING ASSOCIATION OF CANADA, "A Guide to the Management of Tailings Facilities", (1998) pdf-file at www.mining.ca.
- MITCHELL, P., ANDERSON, A., "Silica Micro Encapsulation Treatment of Tailings", Mining Environmental Management, 5 (2000) 16-17.
- MITCHELL, P., WHEATON, A., "Acid Mine Drainage", Mining Environmental Management, July (1999) 7-9.
- MORRISON, S.J., METZLER, D.R., CARPENTER, C.E., "Uranium Precipitation in a Permeable Reactive Barrier by Progressive Irreversible Dissolution of Zerovalent Iron", Environmental Science & Technology, 35(2) (2001) 385-390.
- NAGY, J.W., WAGNER, J.G., "Health Issues Associated with the Operations and Closure of a Surface Impoundment Remediation Project", Proc. Internatl. Topical Mtg. Nuclear and Hazardous Waste Management Spectrum'94, 14-18 August 1994, Atlanta, GA (1994) 1651-1656.
- NELSON, J.D., VOLPE, R.L., WARDELL, R.E., SCHUMM, S.A., STAUB, W.P., "Design Considerations for Long-Term Stabilization of Uranium Mill Tailings Impoundments", Oak Ridge National Laboratory, Report ORNL-5979, NUREG/CR-3397 (1983).
- NELSON, J.D., WARDWELL, R.E., ABT, S.R., STAUB, W.P., "Consolidation of Tailings", Oak Ridge National Laboratory, Report ORNL/TM-8690, NUREG/CR-3204 (1983).
- O'DONNELL, E., GODWIN, P. "Control of Water Infiltration Through Covers at Radioactive Waste Disposal Facilities, Uranium Mill Tailings Sites, and Decommissioning Sites -- Results of 13 Years of Cover Performance in Lysimeters at a Humid Region Site, Beltsville, Maryland", Waste Management 2000, 27 Feb.-02 Mar., Tucson, Ar., <http://www.wmsym.org/wm2000/pdf/06/6-1.pdf> (2000).
- OPITZ, B.E., SHERWOOD, D.R., DODSON, M.E., SERNE, R.J., "Tailings Neutralization and Other Alternatives for Immobilizing Toxic Materials in Tailings", Pacific Northwest Laboratory, Report PNL-5467, NUREG/CR-4259 (1985).

Long-term Stability of Uranium Mining and Milling Wastes

- PANGBURN, G.C., SCHUM, E.Y., "Current Regulation of Uranium Mill Tailings in the United States", Internat. Workshop on Radiol. Prot. in Mining, April 4-8, 1988, Darwin, Australia (1988).
- PIKAEV, A.K., YURIK, T.K., MINAEV, A.A. "Properties of Stone Casting as a Material of Facilities and Items in Radioactive Waste Management", Waste Management 2000, 27 Feb.-02 Mar., Tucson, Ar., <http://www.wmsym.org/wm2000/pdf/21/21-18.pdf> (2000).
- ROENSCH, W., ETTENHUBER, E., Relics of Mining and Milling in Eastern Germany and Their Radiological Consequences, Radiation Protection - 74, Vol.1-2, European Commission, Doc. XI-5027/94, p. 119, Luxembourg (1994).
- RUDY, C., et al., Technologies for Environmental Restoration in Ukraine, IAEA-TECDOC-865, Vol.3, pp.243-280, IAEA, Vienna(1996).
- RUSSEL, L., BOTZ, M., MILLER, S., MUDDER, T., "Life-Cycle Management of Waste at Golden Cross", Mining Environmental Management, 5 (2000) 7-10.
- SAND, W., RÈGE, H. VON, ROHWERDER, T., SCHIPPERS, A., WENTZIEN, S.. "Kalorimetrische Quantifizierung der Schwermetallmobilisierung in Laugungsbiotopen", In: Heiden, S. [Ed.] Innovative Techniken der Bodensanierung - ein Beitrag zur Nachhaltigkeit, Kapitel 13, S. 190-212, Spektrum Akademischer Verlag, Heidelberg (1999).
- SANDRU, P., Technology for Restoration of Contaminated Sites: Review of Available Experience in the Field of Environmental Restoration in Romania, IAEA-TECDOC-865, Vol.3, pp. 181-188, IAEA, Vienna (1996).
- SAUER, N., Soluble Polymers for Heavy Metal Recovery.- www-emtd.lanl.gov/TD/Remediation/HeapLeach.html, (1995).
- SASSOON, M., "Grazing Solution for Tailings", Mining Environmental Management, July (1999) 10-13.
- SCHIPPERS, A., JOZSA, P.-G., KOVACS, ZS. M., JELEA, M., SAND, W., "Large-scale experiments for microbiological evaluation of measures for safeguarding sulfidic mine waste", Waste Management, 21 (2001) 139-146.
- SCHIPPERS, A., JOZSA, P.-G., SAND, W., "Evaluation of the efficiency of measures for sulfidic mine waste mitigation. Appl. Microbiol. Biotechnol., 49 (1998) 698-701.
- SCHIPPERS, A., JOZSA, P.-G., SAND, W.: Überprüfung der Effizienz von Maßnahmen zur Sanierung von Bergbaualtlasten", In: Przybylski, T., Merkel, B., Althaus, M., Kurzydło, H. [Eds.]: Rekultivierung und Umweltschutz in Bergbau-Industriegebieten, Band 2, Towarzystwo Przyjaciół Nauk, Legnica, Polen, (1999) 307-312 and 357-361.
- SCHIPPERS, A., JOZSA, P.-G., SAND, W., KOVACS, ZS. M., JELEA, M., "Microbiological pyrite oxidation in a mine tailings heap and its relevance to the death of vegetation", Geomicrobiol. J., 17 (2000) 151-162.
- SCHWENDIMAN, L.C., SEHMEL, G.A., HORST, T.W., "A Field and Modeling Study of Windblown Particles from a Uranium Mill Tailings Pile", Pacific Northwest Laboratory, Report PNL-3345, NUREG/CR-1407 (1980).
- SENE CONSULTANTS LIMITED, "Determination of Radon Flux Rates in an Uranium Mine (Cluff Lake, Saskatchewan)", Report AECB INFO-0347: Ottawa, Canada (1989).
- SHELP, G., "Electrochemical Treatment", Mining Environmental Management., March (2000) 23.
- SICK, G.P., MCGEE, R.D., "Closure Site Long-Term Maintenance USDA Technology Transfer at Savannah River Site", Proc. Internatl. Topical Mtg. Nuclear and Hazardous Waste Management Spectrum'94, 14-18 August 1994, Atlanta, GA (1994) 1664-1667.

Long-term Stability of Uranium Mining and Milling Wastes

- SIMONTON, S., DIMSHA, M., CATHY, G., THOMSON, B., BARTON, L., "Determination of Long-Term Stability of Metals Immobilized by In Situ Microbial Remediation Processes", Proc. Conference On Hazardous Waste Research "Environmental Challenges and Solutions to Resource Development, Production, and Use", May 23-25, 2000, Denver, Colorado (2000).
- SLAVIK, O., MORAVEK, J., VLADAR, M., Technologies for and Implementation of Environmental Restoration Project in the Slovak Republic, IAEA-TECDOC-865, Vol.3, pp.211-224, IAEA, Vienna (1996).
- SMITH, R.D., "United States Uranium Recovery Activities - A Brief Summary", Ref. ? (1988).
- SOROKA, Y., MOLCHANOV, A., ISAYEVA, N., BEDNARIK, O., "The Rehabilitation Program for Territory of Town Zhovty Vody after 40 Years of Uranium Ores Output", Proc. 6th Internatl. Conf. Radioactive Waste Managemt. and Environmental Remediation, ICEM'97, 12-16 October 1997, Singapore (1997) 773-776.
- SOUNDARARAJAN, R., "Theory and Practice of the Inorganic/Organic Stabilization/Hardening Process", Proc. 3rd. KfK/TNO Conf. Altlastensanierung, 1449-52, (1991).
- STEFFEN ROBERTSON & KIRSTEN INC., "Canadian Uranium Mill Waste Disposal Technology", National Uranium Tailings Program, Energy Mines and Resources Canada, Ref. ? (1987)
- SÜSSKRAUT, G., "Übersicht über marktgängige Einbindeverfahren", in: Sicherung v. Altlasten: Erfahrungen u. Empfehlungen, (1994) 163-70
- SUZUKI, K., HIRANO, M., NAKASHIMA, T., BAKER, R.L., BALDWIN, P.N., A Study of Removal of Hazardous Metals and Radionuclides in Ground Water.- WM'97, www.wmsym.org/wm97proceedings/sess29/29-29.htm, Tucson, Ar. (1997).
- SZILAGYI, A.P., MARTINEZ, R., "Mining Surveillance and Maintenance Dollars", Waste Management 2000, 27 Feb.-02 Mar., Tucson, Ar., <http://www.wmsym.org/wm2000/pdf/63/63-7.pdf> (2000).
- TAWACHSUPA, S., ISLEYEN, M., RAMASWAMI, A., "Zero-Valent Iron for Treatment of High Arsenic Water", Proc. Conference On Hazardous Waste Research "Environmental Challenges and Solutions to Resource Development, Production, and Use", May 23-25, 2000, Denver, Colorado (2000).
- TAYLOR, R.M., ROBINS, R.G., "Treatment of Berkeley Pitlake Water Using the Green Precipitate Process", Proceedings of the 1998 Conference on Hazardous Waste Research - Bridging Gaps in Technology and Culture, May 18-21, 1998, Snowbird, Utah (1998) 2-15, <http://www.engg.ksu.edu/HSRC/98Proceed/1Robins/1robins.pdf> (tested 07/08/01).
- THIERS, G.R., "Remediation of Uranium Milling Sites in the United States", Proc. 6th Internatl. Conf. Radioactive Waste Managemt. and Environmental Remediation, ICEM'97, 12-16 October 1997, Singapore (1997) 793-795.
- THOMPSON, L., OMBRELLARO, P., MEGALOS, N., OSBORN, D., TIMMONS, D., "Final Results from the In Situ Vitrification Treatment at Maralinga", Waste Management 2000, 27 Feb.-02 Mar., Tucson, Ar., <http://www.wmsym.org/wm2000/pdf/38/38-1.pdf> (2000).
- TRETTIN, R., FREYER, K., STRAUCH, G., TREUTLER, H.-C., GLÄSSER, W., "Isotopenuntersuchungen zur Wechselwirkung von Grund- und Oberflächenwasser in der Entstehungsphase von Berbausen", Grundwasser, 1/99 (1999) 3-10.
- ULRICH, B., EAST, D., GORMAN, J., "Subaerial Tailing Deposition", Mining Environmental Management, 5 (2000) 14-15.

Long-term Stability of Uranium Mining and Milling Wastes

- UNITED ENVIRONMENTAL PROTECTION AGENCY, OFFICE OF SOLID WASTE, "Feasibility Analysis: A Comparison of Phosphogypsum and Uranium Mill Tailings Waste Unit Designs (1997).
- UNITED NATIONS ENVIRONMENT PROGRAMME, "Environmental Management of Mine Sites, Training Manual", UNEP Technical Rep. No. 30 (1994).
- UNITED STATES NUCLEAR REGULATORY COMMISSION, "Calculational Models for Estimating Radiation Doses to Man from Airborne Radioactive Materials Resulting from Uranium Milling Operations", Regulatory Guide 3.51 (Task RH 802-4) (1982).
- UNITED STATES NUCLEAR REGULATORY COMMISSION, "Health Physics Surveys in Uranium Mills", Regulatory Guide 8.30 (Task OH 710-4) (1983).
- UNITED STATES NUCLEAR REGULATORY COMMISSION, "Guidelines for Ground-Water Monitoring at in situ Uranium Solution Mines", Draft Regulatory Guide (Task ES 114-4) (1983).
- UNITED STATES NUCLEAR REGULATORY COMMISSION, "Guidelines for Modeling Ground-Water Transport of Radioactive and Nonradioactive Contaminants at Tailings Disposal Sites", Draft Regulatory Guide (Task ES 115-4) (1983).
- UNITED STATES NUCLEAR REGULATORY COMMISSION, "Uranium Mill Tailings Regulations - Conforming NRC Requirements to EPA Standards", Federal Register **50**(200) (1985) 41852-66.
- UNITED STATES NUCLEAR REGULATORY COMMISSION, "Onsite Meteorological Measurement Program for Uranium Recovery Facilities - Data Acquisition and Reporting", Regulatory Guide 3.63 (Task ES 401-4) (1988).
- UNITED STATES NUCLEAR REGULATORY COMMISSION, "Calculation of Radon Flux Attenuation by Earthen Uranium Mill Tailings Covers", Regulatory Guide 3.64 (Task WM 503-4) (1989).
- UNITED STATES NUCLEAR REGULATORY COMMISSION, "Custody and Long-Term Care of Uranium and Thorium Mill Tailings Disposal Sites", Federal Register **55**(210) (1990): 45591-600.
- UNITED STATES OF AMERICA, Uranium Mill Tailings Radiation Control Act of 1978, Public Law 95-604 [H.R. 13650], Washington (1978).
- WAGGITT, P., "A Review of Worldwide Practices for Disposal of Uranium Mill Tailings", Supervising Scientist for the Alligator Rivers Region, Technical Memorandum 48 (1994) 44 p.
- WAGH, A.S., JEONG, S.Y., SINGH, D., ALOY, A.S., KOLYTCHEVA, T.I., KOVARSKAYA, E.N., MACHERET, Y., Iron-Phosphate-Based Chemically Bonded Phosphate Ceramics for Mixed Waste Stabilization.- WM'97, www.wmsym.org/wm97proceedings/sess29/29-07.htm, Tucson, Ar., (1997).
- WAGH, A.S., JEONG, S.Y., SINGH, D., STRAIN, R., NO, H., WESCOTT, J., Stabilization of Contaminated Soil and Wastewater with Chemically Bonded Phosphate Ceramics.- WM'97: www.wmsym.org/wm97proceedings/sess29/29-06, Tucson, Ar. (1997).
- WAGH, A.S., JEONG, S.Y., SINGH, D., Low Temperature-Setting Phosphate Ceramics for Mixed Waste Stabilization.- Proc. 2nd Internatl. Symp. & Exhibit. Environm. Contam. Central & Eastern Europe: 633-5, Budapest, (1994).
- WALTERS, W.H., "Rock Riprap Design Methods and Their Applicability to Long-Term Protection of Uranium Mill Tailings Impoundments", Pacific Northwest Laboratory, Report PNL-4252, NUREG/CR-2684 (1982).
- WALTERS, W.H., SKAGGS, R.L., "The Protection of Uranium Tailings Impoundments Against Overland Erosion", Pacific Northwest Laboratory, Report PNL-5520, NUREG/CR-4323 (1986).

Long-term Stability of Uranium Mining and Milling Wastes

- WARDWELL, R.E., NELSON, J.D., ABT, S.R., STAUB, W.P., "In Situ Dewatering Techniques for Uranium Mill Tailings", Oak Ridge National Laboratory, Report ORNL/TM-8689, NUREG/CR-3203 (1983).
- WARREN, R.W., HAKONSON, T.E., TRUJILLO, G., "Water Balance Relationships in Four Alternative Cover Designs for Radioactive and Mixed Waste Landfills", Proc. Internatl. Topical Mtg. Nuclear and Hazardous Waste Management Spectrum'94, 14-18 August 1994, Atlanta, GA (1994) 2362-2367.
- WHITEHEAD, W., "Decommissioning of Uranium Mines and Mills - Canadian Regulatory Approach and Experience", Report AECB INFO-0219: Ottawa, Canada, (1986).
- WILLETT, M.J., "A Bioengineering Management Technology Demonstration on a Shallow Land Disposal Trench in a Humid Environment", WM'97, www.wmsym.org/wm97proceedings/sess33/33-05.htm, Tucson, Ar., (1997).
- WILLETT, M.J. "Lessons Learned From a Bioengineering Pilot Project on a Shallow-Land Disposal Trench in Western New York", Waste Management 2000, 27 Feb.-02 Mar., Tucson, Ar., <http://www.wmsym.org/wm2000/pdf/06/6-2.pdf> (2000).
- W&W RADIOLOGICAL & ENVIRONMENTAL CONSULTANT SERVICES, "Doses Resulting from Intrusion into Uranium Tailings Areas", Report AECB INFO-0182, Canada (1986).
- YORK, D., MASON, C.F.V., "Removal of Uranium from Soil", www-emtd.lanl.gov/TD/Remediation/UraniumRemoval.html (1995).
- YOUNG, J.A., CADWELL, L.L., FREEMAN, H.D., HWALEY, K.A., "Long-Term Surveillance and Monitoring of Decommissioned Uranium Processing Sites and Tailings Piles", Pacific Northwest Laboratory, Report PNL-5755, NUREG/CR-4504 (1986).
- ZIEMKIEWICZ, P., "Steel Slag: Applications For AMD Control", Proceedings of the 1998 Conference on Hazardous Waste Research - Bridging Gaps in Technology and Culture, May 18-21, 1998, Snowbird, Utah (1998) 44-61, <http://www.engg.ksu.edu/HSRC/98Proceed/5Ziemkiewicz/5ziemkiewicz.pdf> (tested 07/08/01).

<http://www.geopolymer.org/geopolytech.html>