

ACS SYMPOSIUM SERIES

# MATERIALS FOR BOOSTING ENERGY STORAGE. VOLUME 1

ADVANCES IN SUSTAINABLE ENERGY TECHNOLOGIES



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# Radioactive Waste In Geologic Storage Acs Symposium Series 1

**Gregory J. McCarthy**



## **Radioactive Waste In Geologic Storage Acs Symposium Series 1:**

*Scientific Basis for Nuclear Waste Management* Gregory J. McCarthy, 2012-12-06 During late 1978 a symposium entitled Science Underlying Radioactive Waste Management was one component of the Annual Meeting of the Materials Research Society held in Boston Massachusetts The purpose of this Symposium was to bring together for the first time the entire range of sciences that form the basis for the treatment solidification and isolation of radioactive wastes Some 79 papers were presented to an international audience of over 300 The Symposium was such an impressive success that another will be held at the 1979 Annual Meeting of the Materials Research Society The proceedings of the forthcoming symposium will also be published and it is for this reason that the present volume has been designated Volume 1 The scope of the Symposium was defined by the following steering committee Rustum Roy The Pennsylvania State University Chairman Richard S Claassen Sandia Laboratories Don Ferguson Oak Ridge National Laboratory Victor I Spitsyn U S S R Academy of Sciences Moscow David B Stewart United States Geological Survey Torbjorn Westermarck Royal Institute of Technology Stockholm The program was organized by the following committee Gregory J McCarthy The Pennsylvania State University Chairman Harry C Burkholder Battelle Memorial Institute Arnold M Friedman Argonne National Laboratory Werner Lutze Hahn Meitner Institut Berlin John G Moore Oak Ridge National Laboratory Robert W Potter II United States Geological Survey Richard L Schwoebel Sandia Laboratories Roger W Staehle Ohio State University

## **Rationale for Geologic Isolation of High-level Radioactive Waste, and Assessment of the Suitability of Crystalline Rocks** Harry Wynn Smedes, 1980

**Scientific Basis for Nuclear Waste Management** Clyde J. Northrup, 2013-12-19 The Symposium on the Scientific Basis for Nuclear Waste Management was held in the fall of 1979 in Boston Massachusetts and was one of a number of symposia included in the Annual Meeting of the Materials Research Society The thrust of this annual Symposium is unique in the area of waste management Recognizing that this is an area of great complexity which requires contributions from scientists with many different backgrounds some of which are not normally associated with nuclear energy the Materials Research Society provides a forum for discussions of a wide range of materials behavior and transport phenomena As can be seen from the list of references in each paper the authors draw heavily on contributions associated with professional societies in addition to the Materials Research Society and this annual meeting encourages the cross fertilization between disciplines that are essential to an adequate treatment of the problems associated with nuclear waste management The proceedings of the first Symposium that was held in 1978 was designated as Volume 1 in this series The third Symposium is scheduled for 1980 The scope of the 1979 Symposium was guided by the Steering Committee R L Schwoebel Sandia Laboratories USA Chairman W Carbiener Battelle Memorial Institute Columbus USA D Ferguson Oak Ridge National Laboratory USA W Heimerl DWK Mol Belgium W Lutze Hahn Meitner Institut Berlin W Germany J D Mather Institute of Geological Sciences Harwell UK G Oertel Department of Energy USA R *U.S. Geological Survey Research in Radioactive Waste Disposal--fiscal*

Year 1979 ,1982      Geological Survey Circular ,1989      **Hydrologic and Geologic Aspects of Waste Management and Disposal** Elinor H. Handman, Geological Survey (U.S.), John C. Behrendt, N. Terence Edgar, Richard A. Smith, Robert O. Burford, Robert W. Rowland, Ted Arnow, Margaret R. Goud, Richard B. Alexander, Thomas D. Gilmore, Bonnie A. McGregor, 1949      *Status of Technology for Isolating High-level Radioactive Wastes in Geologic Repositories* Cyrus Klingsberg, 1980      **In the Matter of Proposed Rulemaking on the Storage and Disposal of Nuclear Waste** United States. Department of Energy, 1980      **U.S. Geological Survey Circular** ,1983      **Waste Package Materials Screening and Selection** ,1981      **Third International Symposium: Radiological Protection, Advances in Theory and Practice** ,1982      **Radioactive Waste Processing and Disposal** U.S. Nuclear Regulatory Commission, U.S. Nuclear Regulatory Commission. Office of Nuclear Material Safety and Safeguards. Division of Waste Management and Environmental Protection, 1980      **Radionuclide Migration/retardation** Judith B. Moody, 1982      *Scientific Basis for Nuclear Waste Management* ,1979      **Scientific Basis for Nuclear Waste Management** John G. Moore, 1981-09-01 The third International Symposium on the Scientific Basis for Nuclear Waste Management was held in Boston Massachusetts on November 17 20 1980 as part of the Annual Meeting of the Materials Research Society The purpose of this Symposium was to provide an interdisciplinary forum for the discussion of scientific research dealing with all levels and types of radioactive wastes and their management Since its inception in 1978 this annual Symposium has provided a unique opportunity for scientists of widely differing backgrounds to share in such discussions The proceedings of the first two meetings were published as Volumes 1 and 2 in this series The fourth Symposium is scheduled to be held in the autumn of 1981 The efforts of many people went into making this meeting a success The scope of the 1980 Symposium was guided by the following Steering Committee K J Notz Chairman Oak Ridge National Laboratory USA G H Daly Department of Energy USA D E Ferguson Oak Ridge National Laboratory USA R H Flowers Atomic Energy Research Establishment UK F Girardi Ispra Establishment Italy T Ishihara Radioactive Waste Management Center Japan R W Lynch Sandia Laboratories USA S A Mayman Atomic Energy of Canada Ltd Canada G J McCarthy North Dakota State University USA E Merz Kernforschungsanlage Jillich FRG L Nilsson KBS Project Sweden D M Rohrer Nuclear Regulatory Commission USA R Roy Pennsylvania State University USA T E Scott Ames Laboratory USA C      Weekly Record ,1978      *Energy Research Abstracts* ,1992      **Basalt Waste Isolation Project, Hanford Site Characterization Report** ,1982      **A Selected, Annotated Bibliography of Studies Relevant to the Isolation of Nuclear Wastes** ,1980      *Science and Technology for Disposal of Radioactive Tank Wastes* Wallace W. Shulz, Nicholas J. Lombardo, 2013-11-11 Radioactive wastes resulting from over 40 years of production of nuclear weapons in the U S are currently stored in 273 underground tanks at the U S Department of Energy Hanford site Idaho National Engineering and Environmental Laboratory Oak Ridge Reservation and Savannah River site Combined tanks at these sites contain approximately 94 000 000 gallons of waste in a variety of forms

including liquid concrete like salt cake and various sludges More than 730 000 000 curies of several radioactive isotopes are present in the underground tanks Certainly one of the greatest challenges facing the U S Department of Energy is how to characterize retrieve treat and immobilize the great variety of tank wastes in a safe timely and cost effective manner For several years now the U S Department of Energy has initiated and sponsored scientific and engineering studies tests and demonstrations to develop the myriad of technologies required to dispose of the radioactive tank wastes In recent times much of the Department of Energy R responsibility for technical operations of the TF A has been assigned to the Pacific Northwest National Laboratory

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