



# Radwaste Nuclear Waste

**Christian Streffer, Carl Friedrich  
Gethmann, Georg Kamp, Wolfgang  
Kröger, Eckard Rehbinder, Ortwin Renn**

## **Radwaste Nuclear Waste:**

Understanding Radioactive Waste Raymond L. Murray, 1994 This objective report originally prepared for the U S Department of Energy tells the glowing happy story of nuclear waste disposal in America The fourth edition has been updated to include the latest legislative and technical changes It begins by explaining what radioactivity is and goes on to explore the merits of various methods of disposal and the use of licensing and regulation as forms of protection Filled with graphs tables diagrams and black and white photos Annotation copyright by Book News Inc Portland OR **Radioactive Waste Management**, 1995-04 **Managing Commercial High-level Radioactive Waste** United States. Congress. Office of Technology Assessment, 1982 Low-Level Radioactive Waste Management and Disposition National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Nuclear and Radiation Studies Board, Planning Committee on Low-Level Radioactive Waste Management and Disposition: A Workshop, 2017-07-05 The Department of Energy's Office of Environmental Management DOE is responsible for the safe cleanup of sites used for nuclear weapons development and government sponsored nuclear energy research Low level radioactive waste LLW is the most volumetrically significant waste stream generated by the DOE cleanup program LLW is also generated through commercial activities such as nuclear power plant operations and medical treatments The laws and regulations related to the disposal of LLW in the United States have evolved over time and across agencies and states resulting in a complex regulatory structure DOE asked the National Academies of Sciences Engineering and Medicine to organize a workshop to discuss approaches for the management and disposition of LLW Participants explored the key physical chemical and radiological characteristics of low level waste that govern its safe and secure management and disposal in aggregate and in individual waste streams and how key characteristics of low level waste are incorporated into standards orders and regulations that govern the management and disposal of LLW in the United States and in other major waste producing countries This publication summarizes the presentations and discussions from the workshop *Calculated Risks* Dr Kenneth A Rogers, Mr Marvin G Kingsley, 2013-03-28 This well documented study examines one of the increasingly pressing problems for US homeland security the storage and management of radioactive waste Despite pressing homeland security and energy security concerns associated with highly radioactive waste political considerations have prevented policy makers from adopting adequate long term solutions to the problem This book explores nuclear waste problems through the broader lens of federal state and local government and the resultant constraints on policy that emerge within the American political system Presenting specific case studies to highlight the deficiencies in current policy and planning as well as the possibility of terrorist activity it is highly suited to courses on security studies and environmental politics *Radioactive Waste*, 2002 **Radioactive Waste Management** Yu S. Tang, James H. Saling, 1990-01-01 A complete overview of sources of radioactive waste this book highlights the issues involved in safe transportation and decontamination as well as in decommissioning of nuclear facilities

It covers radioactive decay and radiation shielding calculations management and disposal of spent nuclear fuel and high level waste low level waste transuranic waste Uranium mill tailings and mixed waste It discusses technical and regulatory aspects of waste management and provides a look at historical record and its influence on current policy

**The Road to Yucca Mountain** J. Samuel Walker, 2009-09-02 In *The Road to Yucca Mountain* J Samuel Walker traces the U S government's tangled efforts to solve the technical and political problems associated with radioactive waste From the Manhattan Project through the designation in 1987 of Yucca Mountain in Nevada as a high level waste repository Walker thoroughly investigates the approaches adopted by the U S Atomic Energy Commission AEC He explains the growing criticism of the AEC's waste programs such as the AEC's embarrassing failure in its first serious effort to build a high level waste repository in a Kansas salt mine Clearly and accessibly Walker explains the issues surrounding deep geological disposal and surface storage of high level waste and spent reactor fuel He analyzes the equally complex and divisive question of fuel reprocessing He weaves reliable research with fresh insights about nuclear science geology politics and public administration making this original and authoritative account an essential guide for understanding the continuing controversy over an illusive and emotional topic

*Radwaste* Fred C. Shapiro, 1981 [Managing the Nation's Commercial High-level Radioactive Waste](#) United States. Congress. Office of Technology Assessment, 1985

**Nuclear Imperatives and Public Trust** Luther J. Carter, 2015-08-11 This title first published in 1987 examines the topic of nuclear waste management and the way in which the public reacts to this issue Part 1 explores the sources of public unease such as the way in which nuclear waste had failed to be properly contained in the past Part 2 looks at the search for a waste policy and the introduction of The Nuclear Waste Policy Act Part 3 examines the waste problem from the standpoint of it being an international issue and finally Part 4 looks to the future and the lessons that we can learn from past nuclear waste management failures This book will be of interest to students of environmental management

**Radioactive Waste Processing and Disposal** U.S. Nuclear Regulatory Commission, 1980

**Radioactive Waste Forms for the Future** Werner Lutze, Rodney C. Ewing, 1988 This volume presents a compilation of important information on the full range of radioactive waste forms that have been developed or at least suggested for the incorporation of high level nuclear waste Many of the results were published in the gray literature of final reports of national laboratories or in various generally less available proceedings volumes This is the first publication to draw information on nuclear waste forms for high level wastes together into a single volume Although borosilicate glass has become the standard waste form additional research in this compound is still necessary With improved technology particularly processing technologies and with a more detailed knowledge of repository conditions glasses and second generation waste forms with improved performance properties can be developed Sustained research programs on nuclear waste form development will yield results that can only add to public confidence and the final safe disposal of nuclear waste The aim of this volume is to provide a spring board for these future research efforts A detailed presentation is given on the

properties and performance of non crystalline waste forms borosilicate glass sintered glass and lead iron phosphate glass and crystalline waste forms Synroc tailored ceramics TiO<sub>2</sub> ceramic matrix glass ceramics and FUETAP concrete A chapter on Novel Waste Forms reviews a number of methods that warrant further development because of their potential superior performance and unique applications The final chapter includes a tabulated comparison of important waste form properties and an extended discussion on the corrosion process and radiation damage effects for each waste form Of particular interest is a performance assessment of nuclear waste borosilicate glass and the crystalline ceramic Synroc This is the first detailed attempt to compare these two important waste forms on the basis of their materials properties The discussion emphasizes the difficulties in making such a comparison and details the types of data that are required Each chapter has been written by an expert and includes a current compilation of waste form properties with an extensive list of references This volume will provide a stimulus for future research as well as useful reference material for scientists working in the field of nuclear waste disposal and materials science

Geochemical Aspects of Radioactive Waste Disposal Douglas G. Brookins, 1984 There is an extremely voluminous literature on radioactive waste and its disposal much in the form of government sponsored research reports To wade through this mountain of literature is indeed a tedious task and it is safe to speculate that very few if any individuals have the time to examine each report that has been issued during the preceding ten years This book attempts to summarize much of this literature Further many workers in the geosciences have not received training in the nuclear sciences and many nuclear scientists could be better versed in geology In this book an attempt is made to cover some background material on radioactive wastes and geotoxicity that may not be an integral part of a geologist's training and background material on geology and geochemistry for the nuclear scientist The geochemical material is designed for both the geoscientist and the nuclear scientist There is no specific level for this book Certainly it should be useful to advanced undergraduates and graduates studying geology and nuclear science It does not pretend to cover a tremendous amount of detail in all subjects yet the references cited provide the necessary source materials for follow up study It is my intention that the reader of this book will have a better broader understanding of the geochemical aspects of radioactive waste disposal than is otherwise available in any one source

**Radioactive Waste** Christian Streffer, Carl Friedrich Gethmann, Georg Kamp, Wolfgang Kröger, Eckard Rehbinder, Ortwin Renn, 2011-11-16 Radioactive waste above all highly radioactive wastes from nuclear installations caused by research medicine and technology must be disposed of safely However both the strategies disputed for the disposal of radioactive waste as well as concrete proposals for choosing a location for final waste disposal are highly debatable An appropriate disposal must conform to both complex technical requirements and fulfill the radio biological conditions to appropriately protect man and nature Ethical legal and social conditions must also be considered An interdisciplinary team from various relevant fields compiled the current status quo and developed criteria and strategies which on the one hand meet the requirements of optimal warning and prevention of risk for present and future

generations and additionally on the other hand meet the needs of what current society agrees what is expected to be allowed This study can be understood as an advanced and continuing contribution to the corresponding scientific specialized debates due to its interdisciplinary treatment At the same time it serves as a fundamentally informing contribution to public and political debates offering an easily comprehensible executive summary and precise content recommendations

**Radioactive Waste** Frans Berkhout, 2003-10-04 Radioactive Waste provides a detailed historical account of the policy and practice of radwaste management in Britain Sweden and the Federal Republic of Germany In their differing approaches these three countries define the parameters of civil nuclear strategy in Europe The comparative analysis of the evolution of policy clarifies the context of political and technical decision making Assessing the varying degrees of influence which the public the industry and the government exercise over these actions Frans Berkhout applies the concept of boundaries of control questioning the extent to which such control can be relinquished This analysis of nuclear strategy the politics of nuclear power and the shifting emphasis of government regulation redefines the issue of radwaste management and sets it at the centre of the current debate about power the environment and society *Mission Plan for the Civilian Radioactive Waste Management Program* United States. Congress. Senate. Committee on Energy and Natural Resources. Subcommittee on Energy Research and Development, 1986 **Report to the U.S. Congress and the U.S. Secretary of Energy** United States. Nuclear Waste Technical Review Board, 1990 Radioactive Waste Ronnie D. Lipschutz, 1980 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine *Management of Commercially Generated Radioactive Waste* United States. Department of Energy. Office of Nuclear Waste Management, 1980

## The Enigmatic Realm of **Radwaste Nuclear Waste**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Radwaste Nuclear Waste** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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