

SIIPRI Research Report No. 10

THE SOVIET NUCLEAR WEAPON LEGACY

MARCO DE ANDREIS
AND FRANCESCO CALOGERO

Soviet Nuclear Weapon Legacy

**Thirumalaisamy P.
Velavancorresponding**

Soviet Nuclear Weapon Legacy:

The Soviet Nuclear Weapon Legacy Marco De Andreis, Francesco Calogero, 1995 The breakup of the Soviet Union left a cold war nuclear legacy consisting of tens of thousands of nuclear weapons and a sprawling infrastructure for their production and maintenance This book examines the fate of this vast nuclear weapon complex and the unprecedented non proliferation challenges associated with the breakup of a nuclear weapon state It describes the high level diplomatic bargaining efforts to consolidate in Russia the nuclear weapons based in newly independent Belarus Kazakhstan and Ukraine and to strengthen central control over these weapons It surveys the problems associated with dismantling nuclear weapons and the difficulties involved in safely storing and disposing of large stockpiles of fissile material It reviews the key provisions of the principal nuclear arms control measures and initiatives including the START I and START II treaties Finally the book assesses the contribution of international assistance programmes to the denuclearization process under way in the former Soviet Union

The Soviet Nuclear Weapons Program Charles River Editors, 2019-08-06 Includes pictures Includes a bibliography for further reading Tens of millions died during World War II as the warring powers raced to create the best fighter planes tanks and guns and eventually that race extended to bombs which carried enough power to destroy civilization itself While the war raged in Europe and the Pacific a dream team of Nobel Laureates was working on the Manhattan Project a program kept so secret that Vice President Harry Truman didn't know about it until he took the presidency after FDR's death in April 1945 The Manhattan Project would ultimately yield the Little Boy and Fat Man bombs that released more than 100 Terajoules of energy at Hiroshima and Nagasaki but weeks earlier on July 16 1945 the first detonation of a nuclear device took place in Alamogordo New Mexico The first bomb was nicknamed the gadget to avoid espionage attempts to discover that it was indeed a bomb In some sense the device detonated in July was not really a bomb anyway it was not a deployable device though it was a detonatable one With this success word reached President Truman who was then attending the Potsdam Conference and while there he presented the news to Soviet leader Joseph Stalin Stalin feigned surprise in an ironic twist of fate espionage missions had revealed American nuclear research to the Soviets before it had even reached Vice President Truman The attacks on Hiroshima and Nagasaki in August 1945 along with the Cold War era tests and their accompanying mushroom clouds would demonstrate the true power and terror of nuclear weapons but in the late 1930s these bombs were only vaguely being thought through particularly after the successful first experiment to split the atom by a German scientist Despite the fact the Nazis quest for a nuclear weapon began in earnest in 1939 no one really had a handle on how important nuclear weapons would prove to war and geopolitics so the Germans were hesitant to expend resources on it Moreover they were hampered by the fact their policies had compelled Jewish scientists like Liz Meitner and Albert Einstein to flee before the war For their part Stalin's regime had been working on a nuclear weapons program since 1942 relying greatly upon successful Soviet espionage to help lead the way With intelligence sources connected to the Manhattan

Project Stalin was able to keep abreast of the Allies progress toward creating an atomic bomb so that by 1945 the Soviets already had a working blueprint of America's first atomic bombs. On August 29, 1949, the Soviets successfully tested an atomic bomb and with that the Soviet Union became the second nation after the U.S. to develop and possess nuclear weapons. The nuclear age itself was still in its infancy but within a few short years the advent of nuclear war loomed over the world and the prospect of a malign dictatorship possessing nuclear superiority kept Western leaders awake at night. The Soviet Nuclear Weapons Program: The History and Legacy of the USSR's Efforts to Build the Atomic Bomb examines the Soviets' race to reach the ultimate goal during and after World War II and how they went about their objectives. Along with pictures of important people, places, and events, you will learn about Nazi Germany's nuclear weapons program like never before.

Politics and the Bomb Sara Z. Kutchesfahani, 2013-09-05 Epistemic communities represent networks of knowledge-based experts that help articulate cause and effect relationships of complex problems, define the self-interests of a state, or formulate specific policies for state decision makers. However, the role of these scientists and knowledgeable professionals in nuclear policy formulation is poorly understood. Thoroughly documented and making excellent use of source material, *Politics and the Bomb* provides refreshingly new empirical evidence and theoretical analysis of the importance of scientists and experts behind the creation of new non-proliferation agreements. Simply not another book on nuclear proliferation, Sara Z. Kutchesfahani explores the differences in the emergence, composition, and influence mechanisms of the epistemic communities behind the nuclear non-proliferation policy formulation in Brazil's Agency for Accounting and Control of Nuclear Materials (ABACC) and the Nunn-Lugar Cooperative Threat Reduction (CTR) Program. In doing so, she eloquently demonstrates how the role of these non-proliferation experts leads to the possibility of creating more effective non-proliferation policies in the future and hints at the need to sustain non-proliferation epistemic communities in all countries that can provide input to the global proliferation problem until it is solved. **Risk Methodologies for Technological**

Legacies Dennis Bley, Vitaly A. Eremenko, 2012-12-06 The Cold War Era left the major participants, the United States and the former Soviet Union (FSU), with large legacies in terms of both contamination and potential accidents. Facility contamination and environmental degradation, as well as the accident-vulnerable facilities and equipment, are a result of weapons development, testing, and production. Although the countries face similar issues from similar activities, important differences in waste management practices make the potential environmental and health risks of more immediate concern in the FSU and Eastern Europe. In the West, most nuclear and chemical waste is stored in known, contained locations, while in the East, much of the equivalent material is unconfined, contaminating the environment. In the past decade, the U.S. started to address and remediate these Cold War legacies. Costs have been very high, and the projected cost estimates for total cleanup are still increasing. Currently, in Russia, the resources for starting such major activities continue to be unavailable.

Russian-American Nuclear Nonproliferation Dialogue Vladimir A. Orlov, Sergey D. Semenov, 2022-08-30 This book

explores the history of the nuclear nonproliferation dialogue between Russia USSR and the United States By looking into the particulars of bilateral cooperation on NPT Cooperative Threat Reduction program arms control and other issues the authors offer lessons to be learned in preventing nuclear confrontations in the future The book has been prepared in coordination between Russian and American scholars and experts and is a result of a series of Track 2 5 events devoted to restoring the nonproliferation cooperation between Russia and the United States Covering all the aspects of the bilateral partnership since 1960 until today this book will interest scholars of great power conflicts and nonproliferation The workshop and the consequent work on the monograph became possible thanks to generous organizational financial support from Centre russe d etudes politiques Geneva and the Center for Policy Studies in Russia Monterey USA [Routledge Handbook of Russian Security](#) Roger E. Kanet,2019-01-15 The Routledge Handbook of Russian Security offers a comprehensive collection of essays on all aspects of Russian security and foreign policy by international scholars from across the world The volume identifies key contemporary topics of research and debate and takes into account the changes that have occurred in the study of Russian security strategy since the end of the Cold War The handbook is organised into five sections The theory and nature of Russian security policy The domestic and foreign policy nexus Instruments used by Russia in pursuing its security Global and regional aspects of Russian security and foreign policy Case studies of Russian involvement in a series of security conflicts The book concludes with case studies of the major examples of Russian involvement and operations in a series of security conflicts including that in Georgia the intervention in Ukraine and occupation of Crimea and the ongoing Civil War in Syria This volume will be of great interest to students of Russian security strategic studies foreign policy European politics and International Relations in general **The Legacy of Hiroshima** Edward Teller,Allen Brown,1975 [From Antagonism to Partnership](#) Togzhan Kassenova,2007-09-03 This book is a study of cooperative security efforts between the United States and Russia since the collapse of the Soviet Union It undertakes an analysis of the Cooperative Threat Reduction CTR Program and several other programs established by different U S Departments The CTR process demonstrates both the achievements and limitations of the evolving new framework of interaction between the U S and Russia This investigation is the first attempt to use the CTR process as a case study for U S Russian strategic relations in the post Cold War international security system By answering the questions of why this process is prone to some persistent problems of implementation and why it was possible in the first place it yields significant conclusions regarding the nature of U S Russian relations and the achievements as well as limitations in the bilateral relationship since the end of the Cold War From Antagonism to Partnership contributes to the existing literature on cooperative threat reduction as a study linking CTR to the wider context of the opportunities challenges and constraints determining the nature of post Cold War relations between the U S and Russia *The Successor States to the USSR* John W. Blaney,1995 Twenty two articles analyze a range of major issues facing the 15 new republics created by the breakup of the Soviet Union as well as examining their relationships with key outside

powers Annotation copyright by Book News Inc Portland OR The Politics of Nuclear Renunciation William C. Potter,1995

Current Bibliographical Information Dag Hammarskjöld Library,1992 **Does Nuclear Proliferation Really Matter?** David Joseph Karl,1996 Deadly Arsenals Joseph Cirincione,Jon B. Wolfsthal,Miriam Rajkumar,2002 An authoritative study of the dangers nations face today from weapons of mass destruction and the successes and failures of international nonproliferation efforts This proliferation atlas documents with maps charts and graphs the spread of nuclear chemical and biological weapons and missile delivery systems The book describes the weapons and the regimes that try to control them it also details the countries that have want or have given up weapons of mass destruction Deadly Arsenals provides the most up to date and comprehensive assessment available on the subject and is a valuable resource for policymakers scholars students and the media **Pugwash Newsletter** ,1997 **Post-Soviet Geography and Economics** ,1996 Proceedings of the ... Pugwash Conference on Science and World Affairs ,1998 **The Fissile Material Cut-off Debate** Daiana Cipollone,United Nations Institute for Disarmament Research,1996 In view of the topic s likely future importance UNIDIR has accordingly chosen to produce the present bibliographical survey source list It will provide an access route for all interested parties be they from the research or diplomatic communities into a range of political sources on issues related to fissile material **Nuclear Proliferation After the Cold War** Mitchell Reiss,Robert Litwak,1994-08 Woodrow Wilson Center Press **Bibliographie Mensuelle** United Nations Library (Geneva, Switzerland),1993 **Weapons of Mass Destruction** Jennifer A. Hurley,1999 Authors debate the likelihood of terrorism involving weapons of mass destruction discuss weapons proliferation policies and propose methods of defending against attack

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