

SIPRI Research Report No. 10

# THE SOVIET NUCLEAR WEAPON LEGACY

MARCO DE ANDREIS  
AND FRANCESCO CALOGERO

# Soviet Nuclear Weapon Legacy

**Vladimir A. Orlov, Sergey D. Semenov**



## **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.

**Military Legacies** James A. Tyner, 2010-01-26 Landmines, cluster bombs, chemical pollutants, and other remnants of war continue to cause death to humans and damage to the environment long after the guns have fallen silent. From the jungles of Vietnam to the arctic tundra of Russia, no region has escaped the legacy of warfare. To understand the legacy of modern militarism, this book presents an overview of post-conflict societies with an emphasis on the human toll exacted by modern warfare.

**Towards A Nuclear-weapon-free World - Proceedings Of The Forty-fifth Pugwash Conference On Science And World Affairs** Joseph Rotblat, Michiji Konuma, 1997-07-01 In this volume, scientists write on the desirability and feasibility of eliminating nuclear weapons, including reflections 50 years after the destruction of Hiroshima and Nagasaki by atomic bombs. The following topics are discussed: strategies for preventing the proliferation of weapons of mass destruction; ways and means to monitor and control the arms trade; the need for global governance; specific aspects of security in the Asia-Pacific region; and interactions between the problems of meeting the world's energy demand, reducing environmental pollution, and promoting sustainable development.

**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

**Nuclear Legacies** Bryan C. Taylor, William J. Kinsella, Stephen P. Depoe, 2008-01-01 Over the past two decades citizens organizations and governments have passionately debated the nature of the consequences of nuclear production and how they should be managed This volume focuses on the role of communication in shaping and potentially resolving the conflicts that emerge during these debates

*USSR: 1917-1991* A.J. Kingston, 2023 Discover the captivating story of the Soviet Union with our book bundle *USSR 1917 1991 The Rise and Fall of the Soviet Union* Immerse yourself in the dramatic events ideologies and personalities that shaped one of the most significant political entities of the 20th century This comprehensive collection takes you on an insightful journey through the key periods and transformative moments in Soviet history Book 1 *Building the Socialist State Industrialization and Collectivization in the USSR 1921 1932* explores the early years of the Soviet Union a time of immense ambition and radical transformation Dive into the efforts to industrialize a vast nation and witness the controversial implementation of collectivization as the Soviet Union strives to build a socialist society In Book 2 *Cold War Chronicles The USSR and the United States in the Nuclear Age 1945 1962* experience the intense rivalry and global tensions that defined the Cold War era Uncover the intricate dynamics between the Soviet Union and the United States as they engaged in a high stakes ideological struggle nuclear arms race and proxy conflicts Book 3 *Thawing the Iron Curtain The Soviet Union's Era of Destalinization and Khrushchev's Reforms 1953 1964* takes you through a period of significant change within the Soviet Union Witness the de Stalinization campaign led by Nikita Khrushchev and the subsequent thawing of political and cultural restrictions challenging the status quo and setting the stage for a new era Finally in Book 4 *Perestroika and the Collapse of the Soviet Empire Gorbachev's Reforms and the End of the USSR 1985 1991* witness the remarkable rise of Mikhail Gorbachev and his ambitious reform agenda Explore the profound changes brought about by perestroika and glasnost and the subsequent unraveling of the Soviet Union that marked the end of an era This book bundle provides a comprehensive and engaging exploration of the Soviet Union's history taking you on a journey through its rise its role on the global stage and its eventual collapse It delves into the grand ambitions ideological

struggles and human stories that shaped this complex and enigmatic nation Whether you are a history enthusiast a student of political science or simply curious about the fascinating story of the Soviet Union this book bundle is an invaluable resource Gain a deeper understanding of the political social and cultural forces that shaped the Soviet Union and its impact on the world Don't miss this opportunity to immerse yourself in the captivating story of the Soviet Union Order the USSR 1917 1991 The Rise and Fall of the Soviet Union book bundle today and embark on an unforgettable journey through one of the most compelling chapters in modern history

**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

*Joseph Rotblat* Reiner Braun, Robert Hinde, David Krieger, Harold Kroto, Sally Milne, 2007-06-27 Sir Joseph Rotblat 1908 2005 British physicist and one of the most prominent critics of the nuclear arms race received the Nobel Peace Prize in 1995 in conjunction with the Pugwash Conferences on Science and World Affairs an organization of scientists which he headed at the time for their efforts towards nuclear disarmament Joseph Rotblat Visionary for Peace is dedicated to the life of this unique scientist and humanist It contains contributions by Nobel Laureates eminent scholars and prominent politicians who each from their own perspective shed light on the life and work of this distinguished scientist An introduction by the editors is followed by five central articles on Rotblat's biography the impact of his work on science and peace and the Pugwash organization The third part of the book consists of over 30 commentaries written by the likes of Martin Rees

Mikhail Gorbachev Jack Steinberger Mohamed ElBaradei Paul J Crutzen and Mairead Corrigan Maguire

**Disarmament and Defence Industrial Adjustment in South Africa** Peter G. Batchelor, Susan Willett, 1998 Peter Batchelor and Susan Willett analyse the response of the South African defence industry to drastic cuts in military expenditure and the demilitarization of society since the end of the cold war and apartheid and the stabilization of the regional security situation The new ANC led government is seeking to use the resources released the peace dividend to restructure and revitalize the country's industrial base and to support reconstruction development and redistribution A lively debate on the country's security needs and strategic doctrine is under way As in other countries strategies of industrial diversification and conversion have met with limited success In the absence hitherto of any coherent government policy on defence industrial adjustment

significant skills and technologies have been lost or wasted This book provides a historical analysis of South Africa s unique opportunity to develop new and innovative policies on defence and security matters the arms industry and arms exports and makes a valuable contribution to the international debate on the relationship between disarmament and development The Defence Industry in East-Central Europe Judit Kiss,1997 In 1989 90 the collapse of state socialism and the end of the Cold War brought dramatic changes for the defence industries of East Central Europe Initially it seemed that the resources devoted to the Cold War confrontation might become available for investment in non military economic and social progress However by 1994 this optimism had given way to recognition that the transformation would involve significant costs and could not be accomplished quickly The Defence Industry in East Central Europe charts the development of the industries of the Visegrad countries Czechoslovakia and its successor states the Czech Republic and Slovakia Poland and Hungary In the first part national case studies underline the different approaches to reform adopted in the individual countries The second part uses unique information derived from extensive interviews at enterprises in each of the four countries to examine the transformation of industry from a producer perspective **Peace 1991-1995** Irwin Abrams,1999 The last decade of the twentieth century is already proving to be as dramatic as any decade before The chances of global peace seem stronger now than at any time since 1900 and the people and organizations that have contributed most towards this progress are recognized by the Norwegian Nobel Committee The Nobel Peace prizewinners during the period 1991 1995 include men women and organizations whose principles dedication and diligence continue to shape history This volume is a collection of the Nobel Lectures delivered by the prizewinners together with their biographies portraits and presentation speeches by representatives of the Norwegian Nobel Committee for the period 1991 1995 Each Nobel Lecture is based on the work that won the laureate his her prize New biographical data of the laureates since they were awarded the Nobel prize are also included This volume of inspiring lectures by outstanding individuals should be on everyone s bookshelf Below is a list of the prizewinners during the period 1991 1995 Aung San Suu Kyi R Mench Tum N R Mandela F W de Klerk Y Arafat S Peres Y Rabin J Rotblat Pugwash Conferences on Science and World Affairs **The Arms Dynamic in World Politics** Barry Buzan,Eric Herring,1998 Presented as a successor to the Cold War era book An Introduction to Strategic Studies this volume explores issues of military security through a framework that links the issues of technology and world politics Arguing that the technological aspect of the global strategic environment is partway through a centuries long process of transformation sped up by the advent of the information age the authors examine such issues as different levels of industrial development on security what they argue is the relative infrequency of the use of force between states the use of military threats such as mass destruction concepts that military means create problems in themselves such as fear of war and insecurity and finally ways in which regulatory schemes such as disarmament can be put to use to solve some of those problems Paper edition unseen 22 50 Annotation copyrighted by Book News Inc Portland OR *Global Nuclear Order* Sara Z.

Kutchesfahani, 2018-10-26 This book examines the importance of global nuclear order emphasising the importance of perspective in our understanding of it and its significance in international politics Addressing a gap in existing literature this book provides an introduction to nuclear weapon states and their relationship with the global nuclear order disorder paradigm It explores four main themes and aims to 1 conceptualise the dichotomous paradigm of global nuclear order disorder 2 outline the different phases of global nuclear order disorder from 1945 to present 3 address the Nuclear Non Proliferation Treaty NPT and the wider international nuclear non proliferation regime 4 provide an overview of every nuclear weapon state s national nuclear doctrines throughout the years The book will be of much interest to students of nuclear proliferation global governance security studies Cold War studies foreign policy and IR more generally Arms, Transparency, and Security in South-East Asia Bates Gill, J. N. Mak, 1997 This report jointly sponsored by SIPRI and the Maritime Institute of Malaysia MIMA draws together the work of eight experts on armaments and Asia Pacific security affairs to present analysis and extensive data on arms and defence related transparency mechanisms in South East Asia It also includes a de facto arms trade register for South East Asia covering the period 1975-96 The book will prove useful to security analysts and policy makers seeking analysis of and practical approaches to transparency and confidence building in South East Asia *Preventive Defense* Ashton B. Carter, William J. Perry, 2000-09-01 William J Perry and Ashton B Carter two of the world s foremost defense authorities draw on their experience as leaders of the U S Defense Department to propose a new American security strategy for the twenty first century After a century in which aggression had to be defeated in two world wars and then deterred through a prolonged cold war the authors argue for a strategy centered on prevention Now that the cold war is over it is necessary to rethink the risks to U S security The A list threats to U S survival is empty today The B list the two major regional contingencies in the Persian Gulf and on the Korean peninsula that dominate Pentagon planning and budgeting pose imminent threats to U S interests but not to survival And the C list such headline grabbing places as Kosovo Bosnia Somalia Rwanda and Haiti includes important contingencies that indirectly affect U S security but do not directly threaten U S interests Thus the United States is enjoying a period of unprecedented peace and influence but foreign policy and defense leaders cannot afford to be complacent The authors preventive defense strategy concentrates on the dangers that if mismanaged have the potential to grow into true A list threats to U S survival in the next century These include Weimar Russia failure to establish a self respecting place for the new Russia in the post cold war world allowing it to descend into chaos isolation and aggression as Germany did after World War I Loose Nukes failure to reduce and secure the deadly legacy of the cold war nuclear chemical and biological weapons in Russia and the rest of the former Soviet Union A Rising China Turned Hostile failure to shape China s rise to Asian superpower status so that it emerges as a partner rather than an adversary Proliferation spread of weapons of mass destruction and Catastrophic Terrorism increase in the scope and intensity of transnational terrorism They also argue for *Fatal Future?* Richard M. Pearlstein, 2004-04-01



Annotation This groundbreaking book examines the evolution of terrorism in the context of the new global disorder

*Dangerous Ground* Scott Ritter, 2010-03-30 In *Dangerous Ground* Scott Ritter one of the world's leading experts on arms control tells a bold and revisionist account of the inseparable histories of the post World War II American presidency and nuclear weapons Unpacking sixty years of nuclear history Ritter shows that nuclear weapons have become such a fixture that they define present day America on economic military political and moral grounds And despite fears of global nuclear proliferation the greatest threat to international stability Ritter argues is the US's addiction to nuclear weapons Even in light of Barack Obama's historic speech in April 2009 which called for the eventual abolition of nuclear weapons America continues to guard a significant and dangerous nuclear stockpile The notion that we are more secure with nuclear weapons is deeply entrenched in the American psyche and virulently protected by forces in the US establishment As long as this paradigm persists Ritter suggests there will be no fundamental US policy change and as such no change in global nuclear proliferation

*Dismantling the Cold War* John M. Shields, William C. Potter, 1997 The Nunn Lugar Cooperative Threat Reduction CTR program has since authorized more than 1.5 billion for a wide array of weapons destruction demilitarization nuclear security and nonproliferation activities in the Newly Independent States NIS of the former Soviet Union

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## **Table of Contents Soviet Nuclear Weapon Legacy**

1. Understanding the eBook Soviet Nuclear Weapon Legacy
  - The Rise of Digital Reading Soviet Nuclear Weapon Legacy
  - Advantages of eBooks Over Traditional Books
2. Identifying Soviet Nuclear Weapon Legacy
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Soviet Nuclear Weapon Legacy
  - User-Friendly Interface
4. Exploring eBook Recommendations from Soviet Nuclear Weapon Legacy
  - Personalized Recommendations
  - Soviet Nuclear Weapon Legacy User Reviews and Ratings
  - Soviet Nuclear Weapon Legacy and Bestseller Lists
5. Accessing Soviet Nuclear Weapon Legacy Free and Paid eBooks
  - Soviet Nuclear Weapon Legacy Public Domain eBooks
  - Soviet Nuclear Weapon Legacy eBook Subscription Services

- Soviet Nuclear Weapon Legacy Budget-Friendly Options
- 6. Navigating Soviet Nuclear Weapon Legacy eBook Formats
  - ePub, PDF, MOBI, and More
  - Soviet Nuclear Weapon Legacy Compatibility with Devices
  - Soviet Nuclear Weapon Legacy Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Soviet Nuclear Weapon Legacy
  - Highlighting and Note-Taking Soviet Nuclear Weapon Legacy
  - Interactive Elements Soviet Nuclear Weapon Legacy
- 8. Staying Engaged with Soviet Nuclear Weapon Legacy
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Soviet Nuclear Weapon Legacy
- 9. Balancing eBooks and Physical Books Soviet Nuclear Weapon Legacy
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Soviet Nuclear Weapon Legacy
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Soviet Nuclear Weapon Legacy
  - Setting Reading Goals Soviet Nuclear Weapon Legacy
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Soviet Nuclear Weapon Legacy
  - Fact-Checking eBook Content of Soviet Nuclear Weapon Legacy
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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