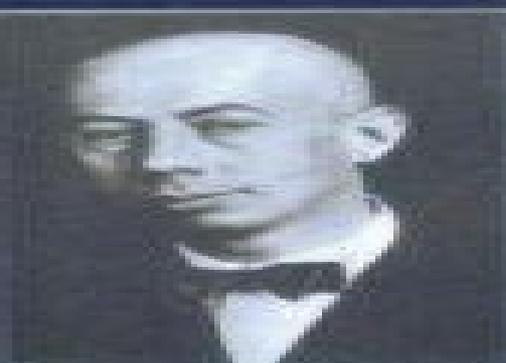


# STALIN'S CAPTIVE

Nikolaus Riehl and the  
Soviet Race for the Bomb



Nikolaus Riehl and Frederick Seitz

History of Modern Chemical Sciences

# Stalins Captive Nikolaus Riehl And The Soviet Race For The Bomb

**Massimo Mastrogregori**



## **Stalins Captive Nikolaus Riehl And The Soviet Race For The Bomb:**

*Stalin's Captive* Nikolaus Riehl, Frederick Seitz, 1996 After World War II German scientist Nikolaus Riehl and his family were held captive in the Soviet Union from 1945 to 1955 His story is uniquely interesting in part because of its historical content in part because he was bilingual in German and Russian having grown up in St Petersburg as the son of a German father and a Russian mother and as a result of his warm human interest in the Russian people He tells his story in *Ten Years in a Golden Cage* Frederick Seitz has written a detailed introduction that provides a historical context for his translation from German of Riehl's book *Stalin and the Scientists* Simon Ings, 2017-02-21 One of the finest most gripping surveys of the history of Russian science in the twentieth century Douglas Smith author of *Former People The Final Days of the Russian Aristocracy* *Stalin and the Scientists* tells the story of the many gifted scientists who worked in Russia from the years leading up to the revolution through the death of the Great Scientist himself Joseph Stalin It weaves together the stories of scientists politicians and ideologues into an intimate and sometimes horrifying portrait of a state determined to remake the world They often wreaked great harm Stalin was himself an amateur botanist and by falling under the sway of dangerous charlatans like Trofim Lysenko who denied the existence of genes and by relying on antiquated ideas of biology he not only destroyed the lives of hundreds of brilliant scientists he caused the death of millions through famine But from atomic physics to management theory and from radiation biology to neuroscience and psychology these Soviet experts also made breakthroughs that forever changed agriculture education and medicine A masterful book that deepens our understanding of Russian history *Stalin and the Scientists* is a great achievement of research and storytelling and a gripping look at what happens when science falls prey to politics Longlisted for the Baillie Gifford Prize for Non Fiction in 2016 A New York Times Book Review Paperback Row selection Ings's research is impressive and his exposition of the science is lucid Filled with priceless nuggets and a cast of frauds crackpots and tyrants this is a lively and interesting book and utterly relevant today The New York Times Book Review A must read for understanding how the ideas of scientific knowledge and technology were distorted and subverted for decades across the Soviet Union The Washington Post [Spying on the Bomb: American Nuclear Intelligence from Nazi Germany to Iran and North Korea](#) Jeffrey T. Richelson, 2007-09-17 *Spying on the Bomb* is an engrossing Wall Street Journal global history of the American led effort to spy on every nation with nuclear ambitions A global history of U S nuclear espionage from its World War II origins to twenty first century threats from rogue states For more than sixty years the United States has monitored friends and foes who seek to develop the ultimate weapon Since 1952 the nuclear club has grown to at least nine nations while others are making serious attempts to join Each chapter of *Spying on the Bomb* chronologically focuses on the nuclear activities of one or more countries intermingling what the United States believed was happening with accounts of what actually occurred in each country's laboratories test sites and decision making councils Jeffrey T Richelson weaves recently declassified documents into his interviews with the scientists and spies involved

in the nuclear espionage Spying on the Bomb reveals new information about U S intelligence work on the Soviet Russian French Chinese Indian Israeli and South African nuclear programs on the attempts to solve the mysterious Vela Incident and on current efforts to uncover the nuclear secrets of Iran and North Korea The book also includes spy satellite photographs never before extracted from the national archives

**Culture of Chemistry** Balazs Hargittai, István Hargittai, 2015-04-20 Includes specially selected articles that previously appeared in The Chemical Intelligencer magazine published 1995 2000 Excerpts of these Editor s choice chapters chronicle the culture and history of chemistry featuring great chemists and discoverers Contributors from among the best known authors of the chemistry community including numerous Nobel laureates Features behind the scenes stories about pivotal discoveries intricacies of laboratory life and interactions among scientists favorite recipes of renowned researchers life histories and anecdotes Chapters detail the human side of science but also present scientific information communicated in an easy to perceive and entertaining way This unique book is not only aimed at chemists but individuals who are interested in the cultural aspects of our science

War, Science and Terrorism Dr J Richardson, 2012-12-06 Describes the application of research to the evolution of weapons It shows how natural engineering information and environmental sciences are exploited how even social science is applied to recruitment battlefield and logistical management and careful preparation of terroristic acts

War, Science, and Terrorism Jacques Richardson, 2002 Describes the application of research to the evolution of weapons It shows how natural engineering information and environmental sciences are exploited how even social science is applied to recruitment battlefield and logistical management and careful preparation of terroristic acts

**Stalin's Great Science: The Times And Adventures Of Soviet Physicists** Alexei B Kojevnikov, 2004-08-23 World class science and technology developed in the Soviet Union during Stalin s dictatorial rule under conditions of political violence lack of international contacts and severe restrictions on the freedom of information Stalin s Great Science The Times and Adventures of Soviet Physicists is an invaluable book that investigates this paradoxical success by following the lives and work of Soviet scientists including Nobel Prize winning physicists Kapitza Landau and others throughout the turmoil of wars revolutions and repression that characterized the first half of Russia s twentieth century The book examines how scientists operated within the Soviet political order communicated with Stalinist politicians built a new system of research institutions and conducted groundbreaking research under extraordinary circumstances Some of their novel scientific ideas and theories reflected the influence of Soviet ideology and worldview and have since become accepted universally as fundamental concepts of contemporary science In the process of making sense of the achievements of Soviet science the book dismantles standard assumptions about the interaction between science politics and ideology as well as many dominant stereotypes mostly inherited from the Cold War about Soviet history in general Science and technology were not only granted unprecedented importance in Soviet society but they also exerted a crucial formative influence on the Soviet political system itself Unlike most previous studies Stalin s Great Science recognizes

the status of science as an essential element of the Soviet polity and explores the nature of a special relationship between experts scientists and engineers and communist politicians that enabled the initial rise of the Soviet state and its mature accomplishments until the pact eroded in later years undermining the communist regime from within **Stalin** Simon Sebag Montefiore, 2007-12-18 NATIONAL BESTSELLER This widely acclaimed biography of a Soviet dictator and his entourage during the terrifying decades of his supreme power transforms our understanding of the Marxist leader and Russian tsar From the bestselling author of *The Romanovs* The first intimate portrait of a man who had more lives on his conscience than Hitler Disturbing and perplexing The New York Times Book Review Based on groundbreaking research Simon Sebag Montefiore reveals the fear and betrayal privilege and debauchery family life and murderous cruelty of this secret world Written with bracing narrative verve this feat of scholarly research has become a classic of modern history writing Showing how Stalin's triumphs and crimes were the product of his fanatical Marxism and his gifted but flawed character this is an intimate portrait of a man as complicated and human as he was brutal and chilling **Nuclear Russia** Paul Josephson, 2022-10-20 In the first cultural and political history of the Russian nuclear age Paul Josephson describes the rise of nuclear physics in the USSR the enthusiastic pursuit of military and peaceful nuclear programs through the Chernobyl disaster and the collapse of the Soviet Union and the ongoing self-proclaimed renaissance of nuclear power in Russia in the 21st century At the height of their power the Soviets commanded 39 000 nuclear warheads yet claimed to be servants of the peaceful atom which they also pursued avidly This book examines both military and peaceful Soviet and post-Soviet nuclear programs for the long duration before the war during the Cold War and in Russia to the present whilst also grappling with the political and ideological importance of nuclear technologies the associated economic goals the social and environmental costs and the cultural embrace of nuclear power *Nuclear Russia* probes the juncture of history of science and technology political and cultural history and environmental history It considers the atom in Russian society as a reflection of Leninist technological utopianism Cold War imperatives scientific hubris public acceptance and a state desire to conquer nature Furthermore the book examines the vital and perhaps unexpected significance of ethnicity and gender in nuclear history by looking at how Kazakhs and Nenets lost their homelands and their health in Russia in the wake of nuclear testing as well as the surprising sexualization of the taming of the female atom in the Russian Miss Atom contests that commenced in the 21st century **Historical Dictionary of the 1940s** James Gilbert Ryan, Leonard C Schlup, 2015-03-26 The only available historical dictionary devoted exclusively to the 1940s this book offers readers a ready reference portrait of one of the twentieth century's most tumultuous decades In nearly 600 concise entries the volume quickly defines a historical figure institution or event and then points readers to three sources that treat the subject in depth In selecting topics for inclusion the editors and authors offer a representative slice of life as contemporaneous Americans saw it with coverage of people movements court cases and economic social cultural political military and technological changes The book focuses chiefly on

the United States but places American lives and events firmly within a global context *Nylon and Bombs* Pap A. Ndiaye, 2007-01-31 How the chemical engineering behemoth that brought us Teflon Kevlar Lycra Freon and more shaped the culture of postwar America What do nylon stockings and atomic bombs have in common DuPont The chemical firm of DuPont de Nemours pioneered the development of both nylon and plutonium among countless other innovations playing an important role in the rise of mass consumption and the emergence of the notorious military industrial complex In this fascinating account of the lives and careers of Du Pont's chemical engineers Pap A Ndiaye deftly illustrates the contribution of industry to the genesis of a dominant post World War II American model connecting prosperity with security The consumer and military dimensions of twentieth century American history are often studied separately Ndiaye reunites them by examining Du Pont's development of nylon which symbolized a new way of life and plutonium which was synonymous with annihilation Reflecting on the experiences and contributions of the company's engineers and physicists Ndiaye traces Du Pont's transformation into one of the corporate models of American success **Spying on the Nuclear Bear** Michael S. Goodman, 2007 Based on previously unavailable sources this book reveals the Anglo American intelligence effort to penetrate the most secret domain of the Soviet government its nuclear weapons program **Taking Nazi Technology** Douglas M. O'Reagan, 2021-03-30 Intriguing real life espionage stories bring to life a comparative history of the Allies efforts to seize control and exploit German science and technology after the Second World War During the Second World War German science and technology posed a terrifying threat to the Allied nations These advanced weapons which included rockets V 2 missiles tanks submarines and jet airplanes gave troubling credence to Nazi propaganda about forthcoming wonder weapons that would turn the war decisively in favor of the Axis After the war ended the Allied powers raced to seize intellectual reparations from almost every field of industrial technology and academic science in occupied Germany It was likely the largest scale technology transfer in history In *Taking Nazi Technology* Douglas M O Reagan describes how the Western Allies gathered teams of experts to scour defeated Germany seeking industrial secrets and the technical personnel who could explain them Swarms of investigators invaded Germany's factories and research institutions seizing or copying all kinds of documents from patent applications to factory production data to science journals They questioned hired and sometimes even kidnapped hundreds of scientists engineers and other technical personnel They studied technologies from aeronautics to audiotapes toy making to machine tools chemicals to carpentry equipment They took over academic libraries jealously competed over chemists and schemed to deny the fruits of German invention to any other land including that of other Allied nations Drawing on declassified records O Reagan looks at which techniques worked for these very different nations as well as which failed and why Most importantly he shows why securing this technology how the Allies did it and when still matters today He also argues that these programs did far more than spread German industrial science they forced businessmen and policymakers around the world to rethink how science and technology fit into diplomacy business and society itself **Red**

**Prometheus** Dolores L. Augustine, 2007 This analysis of the relationship between science and totalitarian rule in one of the most technically advanced countries in the East bloc examines professional autonomy under dictatorship and the place of technology in Communist ideology In Cold War era East Germany the German tradition of science based technology merged with a socialist system that made technological progress central to its ideology Technology became an important part of East German socialist identity crucial to how Communists saw their system and how citizens saw their state In *Red Prometheus* Dolores Augustine examines the relationship between a dictatorial system and the scientific and engineering communities in East Germany from the end of the Second World War through the 1980s Drawing on newly opened archives and extensive interviews Augustine looks in detail at individual scientists interactions with the East German system examining the effectiveness of their resistance against the party's totalitarian impulses She explains why many German scientists and engineers who were deported to the Soviet Union after World War II returned to East Germany rather than defecting to the capitalist West traces scientists attempts to hold on to some aspects of professional autonomy and describes challenges to their professional identity on the factory floor Augustine examines the quality of science and technology produced under Communist rule looking at failed research projects and clashing cultures of innovation She looks at technological myth building in science fiction and propaganda She explores individual career strategies including the role played by gender in high tech professions and the ways that both enterprises and individuals responded to increasing state and party control of research during the 1980s We cannot understand the economic choices made by East Germany Augustine argues unless we understand the cultural values reflected in the East German belief in technology as indispensable to progress and industrial development

*Spying on Science* Paul Maddrell, 2006-02-16 The years 1945-61 saw the greatest transformation in weaponry that has ever taken place as atomic and thermonuclear bombs intercontinental ballistic missiles and chemical and biological weapons were developed by the superpowers It was also a distinct era in Western intelligence collection These were the years of the Germans Mass interrogation in West Germany and spying in East Germany represented the most important source of intelligence on Soviet war related science weapons development and military capability until 1956 and a key one until 1961 This intelligence fuelled the arms race and influenced Western scientific research weapons development and intelligence collection Using intelligence and policy documents held in British and US archives and records of the Ministry of State Security MfS of the former German Democratic Republic GDR this book is the most penetrating study of the scientific intelligence gathering and subversive operations of the British US and West German intelligence services in the period to date East Germany's scientific potential was contained by inducing leading scientists and engineers to defect to the West and Paul Maddrell shows that the US Government's policy of containment was more aggressive than has hitherto been accepted He also demonstrates that the Western secret services espionage in the GDR was very successful even though the MfS and KGB achieved triumphs against them George Blake twice did appalling damage the MI6's spy networks The book

reveals the identity of the most distinguished scientist to spy for the CIA as yet uncovered **1996** Massimo Mastrogregori, 2014-02-21 Annually published since 1930 the International bibliography of Historical Sciences IBOHS is an international bibliography of the most important historical monographs and periodical articles published throughout the world which deal with history from the earliest to the most recent times The works are arranged systematically according to period region or historical discipline and within this classification alphabetically The bibliography contains a geographical index and indexes of persons and authors **The Kremlin's Nuclear Sword** Steven J. Zaloga, 2014-05-27 The prevailing Western view of Russia's Cold War strategic nuclear weapons policy is that it resulted from a two part interplay between the leaders of the Communist Party and the military Steven J Zaloga has found that a third contributor the Russian defense industry also played a vital role Drawing from elusive Russian source material and interviews with many proud Russian and Ukrainian engineers Zaloga presents a definitive account of Russia's strategic forces who built them and why The book is the first in English to refer to the weapons by their actual Soviet names providing the bedrock for future works Helpful appendices list U S NATO and other designations and the illustrations provide clear visual references The Scientific World of Karl-Friedrich Bonhoeffer Kathleen L. Housley, 2018-09-05 In twentieth century Germany Karl Friedrich Bonhoeffer rose to prominence as a brilliant physical chemist even as several of his relatives Dietrich Bonhoeffer among them became involved in the resistance to Hitler leading to their executions This book traces the entanglement of science religion and politics in the Third Reich and in the lives of Karl Friedrich his family and his colleagues including Fritz Haber and Werner Heisenberg Nominated for the Nobel Prize Karl Friedrich was an expert on heavy water a component of the atomic bomb During the war he was caught in the middle between relatives who were trying to kill Hitler and friends who were helping Hitler build a nuclear weapon Karl Friedrich emerges as a complex figure an agnostic whose brother was a renowned theologian and a chemist who both reluctantly advised German nuclear scientists and collaborated with Paul Rosbaud a spy for the British Illuminating the uneasy position of science in twentieth century Germany The Scientific World of Karl Friedrich Bonhoeffer is the story of a man in love with chemistry his family and his nation trying to do right by all of them in the midst of chaos *Women in Chemistry* Marelene F. Rayner-Canham, Geoffrey Rayner-Canham, 1998 Though rarely noted women have been active participants in the chemical sciences since the beginning of recorded history This thought provoking book brings to life the many talented women who besides the universally respected Marie Curie made significant contributions to chemistry The Rayner Canhams examine the forces that have defined women's roles in the progress of chemistry observing that many were thwarted from capitalizing on their achievements by the prejudices of their time Their book discusses women chemists from as far past as the Babylonian civilization but focuses on professional women chemists from the mid 19th century when women gained access to higher education Read this book and learn about the chemist assistants of the French salons about independent researchers in the 19th century about the three disciplinary havens for

women in the 20th century about how war helped bring women into the chemical industry and much more Hitler's Secret Weapons of Mass Destruction Michael FitzGerald, 2018-09-10 As the Nazi advance across Europe stalled Adolf Hitler repeatedly told his military advisers and inner circle that Germany possessed Wunderwaffen miracle weapons that would turn the tide and bring the Germans ultimate victory But was he simply boasting out of desperation or were the miracle weapons real Ideas that other governments considered too outrageous were funded by the Third Reich At this time German scientists and engineers led the world in the fields of aviation research rocketry and the quest for alternative sources of energy They even came perilously close to beating the British and Americans in the search to build the first atomic bomb This book describes the Nazis secret plans to produce weapons of mass destruction and shows how they almost succeeded in defeating the Allies in World War II

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