

# THE MANHATTAN PROJECT

BIG SCIENCE AND  
THE ATOM BOMB



JEFF HUGHES . . . JEFF HUGHES . . . JEFF HUGHES

# Manhattan Project Big Science And The Atom Bomb

**Edward Jones-Imhotep,Tina Adcock**

## **Manhattan Project Big Science And The Atom Bomb:**

*The Manhattan Project* Jeff A. Hughes,2003 Launched in 1942 the Manhattan Project was a well funded secret effort by the United States the United Kingdom and Canada to develop an atomic bomb before the Nazis The results the bombs named Little Boy and Fat Man were dropped on Hiroshima and Nagasaki in August of 1945 A vast state within a state the Manhattan Project employed 130 000 people and cost the United States and its allies 2 billion dollars but its contribution to science as a prestigious investment was invaluable After the bombs were dropped states began allocating unprecedented funds for scientific research leading to the establishment of many of twentieth century s major research institutions Yet the union of science industry and the military did not start with the development of the atomic bomb World War II only deepened the relationship This absorbing history revisits the interactions among science the national interest and public and private funding that was initiated in World War I and flourished in WWII It then follows the Manhattan Project from inception to dissolution describing the primary influences that helped execute the world s first successful plan for nuclear research and tracing the lineages of modern national nuclear agencies back to their source *The Manhattan Project* Jeff A. Hughes,2009

**The Manhattan Project** F. G. Gosling,2014-12-03 In a national survey at the turn of the millennium journalists and historians ranked the dropping of the atomic bomb and the surrender of Japan to end the Second World War as the top story of the twentieth century Nuclear weapons brought about by the Manhattan Project helped bring an end to World War II and ushered in the atomic age and determined how the next war the Cold War would be fought The Manhattan Project also became the organizational model behind the impressive achievements of American big science during the second half of the 20th century which demonstrated the relationship between basic scientific research and national security This is the revised edition of a comprehensive history of the origins and development of the American atomic bomb program during WWII Includes a Bibliography and Manhattan Project Chronology Figures This is a print on demand report *The Manhattan Project* Francis Gosling,U.s. Department of Energy,2015-08-15 In a national survey at the turn of the millennium journalists and historians ranked the dropping of the atomic bomb and the surrender of Japan to end the Second World War as the top story of the twentieth century The advent of nuclear weapons brought about by the Manhattan Project not only helped bring an end to World War II but ushered in the atomic age and determined how the next war the Cold War would be fought The Manhattan Project also became the organizational model behind the impressive achievements of American big science during the second half of the twentieth century which demonstrated the relationship between basic scientific research and national security

*Big Science and Research Infrastructures in Europe* Katharina C. Cramer,Olof Hallonsten,2020-08-28 This thought provoking book expands on the notion that Big Science is not the only term to describe and investigate particularly large research projects scientific collaborations and facilities It investigates the significant overlap between Big Science and Research Infrastructures RIs in a European context since the early twenty first century Contributions to this innovative book

not only augment the study of Big Science with new perspectives but also launch the study of RIs as a promising new line of inquiry [Big Science Transformed](#) Olof Hallonsten,2016-10-15 This book analyses the emergence of a transformed Big Science in Europe and the United States using both historical and sociological perspectives It shows how technology intensive natural sciences grew to a prominent position in Western societies during the post World War II era and how their development cohered with both technological and social developments At the helm of post war science are large scale projects primarily in physics which receive substantial funds from the public purse Big Science Transformed shows how these projects popularly called Big Science have become symbols of progress It analyses changes to the political and sociological frameworks surrounding publicly funding science and their impact on a number of new accelerator and reactor based facilities that have come to prominence in materials science and the life sciences Interdisciplinary in scope this book will be of great interest to historians sociologists and philosophers of science *The Economics of Big Science* Hans Peter Beck,Panagiotis Charitos,2020-10-29 The essays in this open access volume identify the key ingredients for success in capitalizing on public investments in scientific projects and the development of large scale research infrastructures Investment in science whether in education and training or through public funding for developing new research tools and technologies is a crucial priority Authors from big research laboratories organizations funding agencies and academia discuss how investing in science can produce societal benefits as well as identifying future challenges for scientists and policy makers The volume cites different ways to assess the socio economic impact of Research Infrastructures and their role as hubs of global collaboration creativity and innovation It highlights the different benefits stemming from fundamental research at the local national and global level while also inviting us to rethink the notion of benefit in the 21st century Public investment is required to maintain the pace of technological and scientific advancements over the next decades Far from advocating a radical transformation and massive expansion in funding the authors suggest ways for maintaining a strong foundation of science and research to ensure that we continue to benefit from the outputs The volume draws inspiration from the first Economics of Big Science workshop held in Brussels in 2019 with the aim of creating a new space for dialogue and interaction between representatives of Big Science organizations policy makers and academia It aspires to provide useful reading for policy makers scientists and students of science who are increasingly called upon to explain the value of fundamental research and adopt the language and logic of economics when engaging in policy discussions **[Elemental Germans](#)** Christoph Laucht,2012-05-15 Christoph Laucht offers the first investigation into the roles played by two German born emigre atomic scientists Klaus Fuchs and Rudolf Peierls in the development of British nuclear culture especially the practice of nuclear science and the political implications of the atomic scientists work from the start of the Second World War until 1959 *Made Modern* Edward Jones-Imhotep,Tina Adcock,2018-12-14 Science and technology have shaped not only economic empires and industrial landscapes but also the identities anxieties and understandings of people living in

modern times Made Modern Science and Technology in Canadian History draws together leading scholars from a wide range of fields to enrich our understanding of history inside and outside Canada's borders. The book's chapters examine how science and technology have allowed Canadians to imagine and reinvent themselves as modern. Focusing on topics including exploration, scientific rationality, the occult, medical instruments, patents, communication, and infrastructure, the contributors situate Canadian scientific and technological developments within larger national and transnational contexts. The first major collection of its kind in thirty years, Made Modern explores the place of science and technology in shaping Canadians' experience of themselves and their place in the modern world.

**Science and Politics** Brent S. Steel, 2014-04-21

Recent partisan squabbles over science in the news are indicative of a larger tendency for scientific research and practice to get entangled in major ideological divisions in the public arena. This politicization of science is deepened by the key role government funding plays in scientific research and development, the market-leading position of U.S. based science and technology firms, and controversial U.S. exports such as genetically modified foods or hormone injected livestock. This groundbreaking one-volume A to Z reference features 120-150 entries that explore the nexus of politics and science both in the United States and in U.S. interactions with other nations. The essays, each by experts in their fields, examine health, environmental, and social/cultural issues relating to science and politics. Concerns relating to government regulation and its impact on the practice of science, key historical and contemporary events that have shaped our contemporary view of how science and politics intersect, science and politics: An A to Z Guide to Issues and Controversies is a must-have resource for researchers and students who seek to deepen their understanding of the connection between science and politics.

**The History and Science of the Manhattan Project** Bruce Cameron Reed, 2019-02-19

The development of atomic bombs under the auspices of the U.S. Army's Manhattan Project during World War II is considered to be the outstanding news story of the twentieth century. In this book, a physicist and expert on the history of the Project presents a comprehensive overview of this momentous achievement. The first three chapters cover the history of nuclear physics from the discovery of radioactivity to the discovery of fission and would be ideal for instructors of a sophomore-level Modern Physics course. Student-level exercises at the ends of the chapters are accompanied by answers. Chapter 7 covers the physics of first-generation fission weapons at a similar level again accompanied by exercises and answers. For the interested layman and for non-science students and instructors, the book includes extensive qualitative material on the history, organization, implementation, and results of the Manhattan Project and the Hiroshima and Nagasaki bombing missions. The reader also learns about the legacy of the Project as reflected in the current world stockpiles of nuclear weapons. This second edition contains important revisions and additions including a new chapter on the German atomic bomb program and new sections on British and Canadian contributions to the Manhattan project and on feed materials. Several other sections have been expanded; reader feedback has been helpful in introducing minor corrections and improved explanations and, last but not least, the second

edition includes a detailed index     **The Manhattan Project** U. S. Department of Energy Staff,2010-12-31 In a national survey at the turn of the millennium journalists and historians ranked the dropping of the atomic bomb and the surrender of Japan to end the Second World War as the top story of the twentieth century The advent of nuclear weapons brought about by the Manhattan Project not only helped bring an end to World War II but ushered in the atomic age and determined how the next war the Cold War would be fought The Manhattan Project also became the organizational model behind the impressive achievements of American big science during the second half of the twentieth century which demonstrated the relationship between basic scientific research and national security

**The Ends Of Science** Harry Redner,2019-07-11 In this path breaking and controversial book Harry Redner provides a systematic study of how the epistemologically interesting features of contemporary science are to be understood Taking science to include knowledge from the social sciences and humanities as well as the physical sciences Redner shows how the history of science philosophical theory and current scientific research reveal connections between scientific developments and features of the social organization of science Redner argues that the shift from Classical science to a more complex and less orderly World science after World War II has changed the way scientific research is done and how its knowledge is organized His aim however is not merely to interpret science but to change it Thus this examination is more than a survey and critique it is a positive program for the development of future science Remarkable for its breadth and insight the book is especially valuable for its discussions of authority and social organization with the accompanying themes of academic politics competition power and corruption and for its catalog of the various contemporary critiques of science Some of these are European in origin and will be new to many U S readers A tour de force on several levels this book is essential reading for scientists philosophers sociologists of science historians of ideas critics of contemporary culture and indeed for anyone who takes a serious interest in scientific research and higher learning

**Manhattan Project** Bruce Cameron Reed,2020-06-02 Though thousands of articles and books have been published on various aspects of the Manhattan Project this book is the first comprehensive single volume history prepared by a specialist for curious readers without a scientific background This project the United States Army s program to develop and deploy atomic weapons in World War II was a pivotal event in human history The author presents a wide ranging survey that not only tells the story of how the project was organized and carried out but also introduces the leading personalities involved and features simplified but accurate descriptions of the underlying science and the engineering challenges The technical points are illustrated by reader friendly graphics

**Postmodernism and Big Science** Richard Appignanesi,2002 Brings together five startling essays on some of the greatest scientific thinkers to give startling insights into some of today s most prescient issues

**Secret Weapons and World War II** Walter E. Grunden,2005 Grunden s analysis of this fundamental flaw in the Japanese war effort seamlessly weaves together science technology and military history to provide an entirely unique look at a crucial but understudied aspect of World War II Comparing the science and weapons programs of

all the major combatants he demonstrates that Japan's failure was nearly inevitable given its paucity of strategic resources an inadequate industrial base the absence of effective centralized management to coordinate research military hostility toward civilian scientists and bitter interservice rivalries In the end Japan could not overcome these obstacles and thus failed to make the transition to the kind of Big Science it needed to ward off its enemies and dominate the Far East BOOK JACKET

**The Men who Measured the Universe** John R. Gribbin, Mary Gribbin, 2004 The revolution of our understanding of the cosmos and our place in it happened within a single human lifetime through a combination of new technology and the dedication of a handful of pioneers This is their story of the hard work perseverance and spirit that unlocked the secrets of the night sky *From Engineering Science to Big Science* Pamela Etter Mack, 1998 This volume is a collection of 16 essays on the NACA and NASA aerospace research projects that received the prestigious Robert J Collier Trophy From NACA achievements such as the Whitcomb Area Rule and the NACA Engine Cowling to NASA landmarks such as the first Space Shuttle flight and the Hubble Space Telescope's first servicing mission this book covers a variety of important NACA NASA achievements We recommend it highly for all students interested in aerospace history **Manhattan Project: The Untold**

**Story of the Making of the Atomic Bomb** Stephane Groueff, 2023-12-13 Groueff a Paris Match reporter was sponsored by The Reader's Digest to write this prodigious account of the multiple efforts which went into the creation of the first atomic bomb between 1942 and 1945 The book is a history of the men involved mainly and Groves the military commander is obviously the author's hero Reading like the account of a hurdle race the book charges into a discussion of a problem then finds and describes the man who bested it Thus are described the building of Oak Ridge Fermi's atomic pile the electromagnetic process the crises over the barrier and the valves for the gaseous diffusion process the last minute decisions concerning the implosion process with plutonium Groueff does convey well a scene of fantastic activity where different solutions to one problem were worked on simultaneously where industrial equipment came before scientific results were known where the impossible was achieved in time The material is fascinating and the scientific information is well presented an excellent overall view of a monumental project Kirkus Groueff has for the first time given due recognition to some of the minor figures particularly engineers and technicians and has preserved in his pages much information that would otherwise perish with the participants or lie forever buried in the archives Kendall Birr The American Historical Review Groueff covers the Manhattan Project from its beginning in 1942 to the bombing of Hiroshima he concentrates on the engineering and industrial effort that went into producing the first atomic weapons The result is a popular but responsible account episodic in structure rich in detail and human interest for the first time a book aimed at the mass market gives engineers and industrialists their due It is a great story of the almost incredibly complex task of translating theory into industrial and military reality Oscar E Anderson Jr Science So intriguing in fact and in style is the text of the narrative of this book that once begun it cannot be put down until the end In these pages the names and roles of some of the world's greatest scientists and

engineers unfold in thrilling parade with Dr Vannevar Bush the leader These men of vast knowledge and ability unite with the commercial managers and their companies mobilized by the hundreds for the construction and operation of the many facilities involved Leo A Codd Ordnance Excellent maintains a high degree of exciting suspense Washington Star A fascinating account of a stupendous effort Chicago Tribune *Manhattan Project* Cynthia C. Kelly, 2009-02-10 The definitive collection of writings on the Manhattan Project by the pre eminent scientists historians and the everyday observers who bore witness to the birth of the modern nuclear age Begun in 1939 the Manhattan Project eventually employed more than 130 000 people including our foremost scientists and thinkers and cost nearly 2 billion while operating under a shroud of absolute secrecy This groundbreaking collection of documents essays articles and excerpts from histories biographies plays novels letters and the oral histories of key eyewitnesses provides unique perspectives for the historian and student of history all compiled by experts at the Atomic Heritage Foundation Photographs throughout depict key moments and pivotal figures The Manhattan Project gives actual voice to a significant period in history

## Embracing the Melody of Term: An Emotional Symphony within **Manhattan Project Big Science And The Atom Bomb**

In some sort of taken by displays and the ceaseless chatter of instant communication, the melodic beauty and emotional symphony created by the published word frequently disappear in to the background, eclipsed by the constant noise and disruptions that permeate our lives. Nevertheless, situated within the pages of **Manhattan Project Big Science And The Atom Bomb** a wonderful literary value filled with raw thoughts, lies an immersive symphony waiting to be embraced.

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