

Scientists On The Manhattan Project

scientists on the manhattan project: *British Scientists and the Manhattan Project* Ferenc Morton Szasz, 1992-06-18 During World War II, Franklin D. Roosevelt and Winston Churchill pooled their nations' resources in the race to beat the Germans to the secret of the atomic bomb. This book tells the story of the British scientists who journeyed to Los Alamos to help develop the world's first nuclear weapons.

scientists on the manhattan project: Atomic Doctors James L. Nolan Jr., 2020-08-06 An unflinching examination of the moral and professional dilemmas faced by physicians who took part in the Manhattan Project. After his father died, James L. Nolan, Jr., took possession of a box of private family materials. To his surprise, the small secret archive contained a treasure trove of information about his grandfather's role as a doctor in the Manhattan Project. Dr. Nolan, it turned out, had been a significant figure. A talented ob-gyn radiologist, he cared for the scientists on the project, organized safety and evacuation plans for the Trinity test at Alamogordo, escorted the "Little Boy" bomb from Los Alamos to the Pacific Islands, and was one of the first Americans to enter the irradiated ruins of Hiroshima and Nagasaki. Participation on the project challenged Dr. Nolan's instincts as a healer. He and his medical colleagues were often conflicted, torn between their duty and desire to win the war and their oaths to protect life. *Atomic Doctors* follows these physicians as they sought to maximize the health and safety of those exposed to nuclear radiation, all the while serving leaders determined to minimize delays and maintain secrecy. Called upon both to guard against the harmful effects of radiation and to downplay its hazards, doctors struggled with the ethics of ending the deadliest of all wars using the most lethal of all weapons. Their work became a very human drama of ideals, co-optation, and complicity. A vital and vivid account of a largely unknown chapter in atomic history, *Atomic Doctors* is a profound meditation on the moral dilemmas that ordinary people face in extraordinary times.

scientists on the manhattan project: *Their Day in the Sun* Ruth H. Howes, Caroline L. Herzenberg, 2003-05 The public perception of the making of the atomic bomb is an image of the dramatic efforts of a few brilliant male scientists.

scientists on the manhattan project: *Raised in the Shadow of the Bomb* Deborah Leah Steinberg, 2016-10-25 This story began before I was born, when my father, Ellis P. Steinberg, and uncle Bernard Abraham worked on the secret undertaking that developed the first atomic bombs. The result is this book-part memoir, part discussions with siblings and cousins, and part interviews with a dozen others who had a parent who worked on the Project.

scientists on the manhattan project: The Making of the Atomic Bomb Richard Rhodes, 2012-09-18 **Winner of the Pulitzer Prize, the National Book Award, and the National Book Critics Circle Award** The definitive history of nuclear weapons—from the turn-of-the-century discovery of nuclear energy to J. Robert Oppenheimer and the Manhattan Project—this epic work details the science, the people, and the sociopolitical realities that led to the development of the atomic bomb. This sweeping account begins in the 19th century, with the discovery of nuclear fission, and continues to World War Two and the Americans' race to beat Hitler's Nazis. That competition launched the Manhattan Project and the nearly overnight construction of a vast military-industrial complex that culminated in the fateful dropping of the first bombs on Hiroshima and Nagasaki. Reading like a character-driven suspense novel, the book introduces the players in this saga of physics, politics, and human psychology—from FDR and Einstein to the visionary scientists who pioneered quantum theory and the application of thermonuclear fission, including Planck, Szilard, Bohr, Oppenheimer, Fermi, Teller, Meitner, von Neumann, and Lawrence. From nuclear power's earliest foreshadowing in the work of H.G. Wells to the bright glare of Trinity at Alamogordo and the arms race of the Cold War, this dread invention forever changed the course of human history, and

The Making of The Atomic Bomb provides a panoramic backdrop for that story. Richard Rhodes's ability to craft compelling biographical portraits is matched only by his rigorous scholarship. Told in rich human, political, and scientific detail that any reader can follow, The Making of the Atomic Bomb is a thought-provoking and masterful work.

scientists on the manhattan project: The Pope of Physics Gino Segrè, Bettina Hoerlin, 2016-10-18 Enrico Fermi is unquestionably among the greats of the world's physicists, the most famous Italian scientist since Galileo. Called the Pope by his peers, he was regarded as infallible in his instincts and research. His discoveries changed our world; they led to weapons of mass destruction and conversely to life-saving medical interventions. This unassuming man struggled with issues relevant today, such as the threat of nuclear annihilation and the relationship of science to politics. Fleeing Fascism and anti-Semitism, Fermi became a leading figure in America's most secret project: building the atomic bomb. The last physicist who mastered all branches of the discipline, Fermi was a rare mixture of theorist and experimentalist. His rich legacy encompasses key advances in fields as diverse as cosmic rays, nuclear technology, and early computers. In their revealing book, The Pope of Physics, Gino Segrè and Bettina Hoerlin bring this scientific visionary to life. An examination of the human dramas that touched Fermi's life as well as a thrilling history of scientific innovation in the twentieth century, this is the comprehensive biography that Fermi deserves.

scientists on the manhattan project: 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.

scientists on the manhattan project: 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.

scientists on the manhattan project: Oppenheimer and the Manhattan Project Cynthia C. Kelly, 2006 2004 marked the centennial of the birth of J Robert Oppenheimer, and brought historians and scholars, former students, nuclear physicists, and politicians together to celebrate

this event. Oppenheimer's life and work became central to 20th century history as he spearheaded the development of the atomic bomb that ended World War II. This book provides a spectrum of interpretations of Oppenheimer's life and scientific achievements. It approaches the extraordinary scientist and teacher from many perspectives, chronicling the years from his boyhood through his role as director of the Los Alamos National Laboratory and afterwards. The book also discusses Oppenheimer's connection to New Mexico, which hosted two of the Manhattan Project's most crucial sites, and addresses his lasting impact on contemporary science, international politics, and the postwar age.

scientists on the manhattan project: The Plutonium Files Eileen Welsome, 2010-10-20 When the vast wartime factories of the Manhattan Project began producing plutonium in quantities never before seen on earth, scientists working on the top-secret bomb-building program grew apprehensive. Fearful that plutonium might cause a cancer epidemic among workers and desperate to learn more about what it could do to the human body, the Manhattan Project's medical doctors embarked upon an experiment in which eighteen unsuspecting patients in hospital wards throughout the country were secretly injected with the cancer-causing substance. Most of these patients would go to their graves without ever knowing what had been done to them. Now, in The Plutonium Files, Pulitzer Prize-winning reporter Eileen Welsome reveals for the first time the breadth of the extraordinary fifty-year cover-up surrounding the plutonium injections, as well as the deceitful nature of thousands of other experiments conducted on American citizens in the postwar years. Welsome's remarkable investigation spans the 1930s to the 1990s and draws upon hundreds of newly declassified documents and other primary sources to disclose this shadowy chapter in American history. She gives a voice to such innocents as Helen Hutchison, a young woman who entered a prenatal clinic in Nashville for a routine checkup and was instead given a radioactive cocktail to drink; Gordon Shattuck, one of several boys at a state school for the developmentally disabled in Massachusetts who was fed radioactive oatmeal for breakfast; and Maude Jacobs, a Cincinnati woman suffering from cancer and subjected to an experimental radiation treatment designed to help military planners learn how to win a nuclear war. Welsome also tells the stories of the scientists themselves, many of whom learned the ways of secrecy on the Manhattan Project. Among them are Stafford Warren, a grand figure whose bravado masked a cunning intelligence; Joseph Hamilton, who felt he was immune to the dangers of radiation only to suffer later from a fatal leukemia; and physician Louis Hempelmann, one of the most enthusiastic supporters of the plan to inject humans with potentially carcinogenic doses of plutonium. Hidden discussions of fifty years past are reconstructed here, wherein trusted government officials debated the ethical and legal implications of the experiments, demolishing forever the argument that these studies took place in a less enlightened era. Powered by her groundbreaking reportage and singular narrative gifts, Eileen Welsome has created a work of profound humanity as well as major historical significance. From the Hardcover edition.

scientists on the manhattan project: The Manhattan Project Cynthia C. Kelly, 2020-07-07 On the seventy-fifth anniversary of the first atomic bomb, discover new reflections on the Manhattan Project from President Barack Obama, hibakusha (survivors), and the modern-day mayors of Hiroshima and Nagasaki. The creation of the atomic bomb during World War II, codenamed the Manhattan Project, was one of the most significant and clandestine scientific undertakings of the 20th century. It forever changed the nature of war and cast a shadow over civilization. Born out of a small research program that began in 1939, the Manhattan Project would eventually employ nearly 600,000 people and cost about \$2 billion (\$28.5 billion in 2020) -- all while operating under a shroud of complete secrecy. On the 75th anniversary of this profoundly crucial moment in history, this newest edition of The Manhattan Project is updated with writings and reflections from the past decade and a half. This groundbreaking collection of essays, articles, documents, and excerpts from histories, biographies, plays, novels, letters, and oral histories remains the most comprehensive collection of primary source material of the atomic bomb.

scientists on the manhattan project: Oppenheimer Charles Thorpe, 2008-09-15 At a time

when the Manhattan Project was synonymous with large-scale science, physicist J. Robert Oppenheimer (1904–67) represented the new sociocultural power of the American intellectual. Catapulted to fame as director of the Los Alamos atomic weapons laboratory, Oppenheimer occupied a key position in the compact between science and the state that developed out of World War II. By tracing the making—and unmaking—of Oppenheimer’s wartime and postwar scientific identity, Charles Thorpe illustrates the struggles over the role of the scientist in relation to nuclear weapons, the state, and culture. A stylish intellectual biography, Oppenheimer maps out changes in the roles of scientists and intellectuals in twentieth-century America, ultimately revealing transformations in Oppenheimer’s persona that coincided with changing attitudes toward science in society. “This is an outstandingly well-researched book, a pleasure to read and distinguished by the high quality of its observations and judgments. It will be of special interest to scholars of modern history, but non-specialist readers will enjoy the clarity that Thorpe brings to common misunderstandings about his subject.”—Graham Farmelo, *Times Higher Education Supplement* “A fascinating new perspective. . . . Thorpe’s book provides the best perspective yet for understanding Oppenheimer’s Los Alamos years, which were critical, after all, not only to his life but, for better or worse, the history of mankind.”—Catherine Westfall, *Nature*

scientists on the manhattan project: *The Wives of Los Alamos* TaraShea Nesbit, 2014-04-24 Their average age was twenty-five. They came from Berkeley, Cambridge, Paris, London and Chicago - and arrived in New Mexico ready for adventure or at least resigned to it. But hope quickly turned to hardship in the desolate military town where everything was a secret, including what their husbands were doing at the lab. They lived in barely finished houses with a P.O. Box for an address, in a town wreathed with barbed wire, all for the benefit of 'the project' that didn't exist as far as the greater world was concerned. They were constrained by the words they couldn't say out loud, the letters they couldn't send home, the freedom they didn't have. Though they were strangers, they joined together - babies were born, friendships were forged, children grew up. But then 'the project' was unleashed and even bigger challenges faced the women of Los Alamos, as they struggled with the burden of their contribution towards the creation of the most destructive force in mankind's history - the atomic bomb. Contentious, gripping and intimate, *The Wives of Los Alamos* is a personal tale of one of the most momentous events in our history.

scientists on the manhattan project: *Remembering the Manhattan Project* Cynthia C. Kelly, 2005-01-27 During World War II, nations raced to construct the world's first nuclear weapon that would determine the future of the world. The Manhattan Project, one of the most significant achievements of the 20th century, was the culmination of America's war effort. Today, although the issue of nuclear weapons frequently dominates world politics, few are aware of the history behind its development. Part I of this book, comprised of papers from the Atomic Heritage Foundation's Symposium on the Manhattan Project, recounts the history of this remarkable effort and reflects upon its legacy. Most of the original structures of the Manhattan Project have been inaccessible to the public and in recent years, have been stripped of their equipment and slated for demolition. Part II proposes a strategy for preserving these historical artifacts for the public and future generations.

scientists on the manhattan project: *Atoms in the Family* Laura Fermi, 2014-10-24 In this absorbing account of life with the great atomic scientist Enrico Fermi, Laura Fermi tells the story of their emigration to the United States in the 1930s—part of the widespread movement of scientists from Europe to the New World that was so important to the development of the first atomic bomb. Combining intellectual biography and social history, Laura Fermi traces her husband's career from his childhood, when he taught himself physics, through his rise in the Italian university system concurrent with the rise of fascism, to his receipt of the Nobel Prize, which offered a perfect opportunity to flee the country without arousing official suspicion, and his odyssey to the United States.

scientists on the manhattan project: *The Girls of Atomic City* Denise Kiernan, 2014-03-11 This is the story of the young women of Oak Ridge, Tennessee, who unwittingly played a crucial role

in one of the most significant moments in U.S. history. The Tennessee town of Oak Ridge was created from scratch in 1942. One of the Manhattan Project's secret cities. All knew something big was happening at Oak Ridge, but few could piece together the true nature of their work until the bomb Little Boy was dropped over Hiroshima, Japan, and the secret was out. The reverberations from their work there, work they did not fully understand at the time, are still being felt today.

scientists on the manhattan project: The Manhattan Project Francis George Gosling, 1999
A history of the origins and development of the American atomic bomb program during WWII. Begins with the scientific developments of the pre-war years. Details the role of the U.S. government in conducting a secret, nationwide enterprise that took science from the laboratory and into combat with an entirely new type of weapon. Concludes with a discussion of the immediate postwar period, the debate over the Atomic Energy Act of 1946, and the founding of the Atomic Energy Commission. Chapters: the Einstein letter; physics background, 1919-1939; early government support; the atomic bomb and American strategy; and the Manhattan district in peacetime. Illustrated.

scientists on the manhattan project: The Bastard Brigade Sam Kean, 2019-07-09
From New York Times bestselling author Sam Kean comes the gripping, untold story of a renegade group of scientists and spies determined to keep Adolf Hitler from obtaining the ultimate prize: a nuclear bomb. Scientists have always kept secrets. But rarely have the secrets been as vital as they were during World War II. In the middle of building an atomic bomb, the leaders of the Manhattan Project were alarmed to learn that Nazi Germany was far outpacing the Allies in nuclear weapons research. Hitler, with just a few pounds of uranium, would have the capability to reverse the entire D-Day operation and conquer Europe. So they assembled a rough and motley crew of geniuses -- dubbed the Alsos Mission -- and sent them careening into Axis territory to spy on, sabotage, and even assassinate members of Nazi Germany's feared Uranium Club. The details of the mission rival the finest spy thriller, but what makes this story sing is the incredible cast of characters -- both heroes and rogues alike -- including: Moe Berg, the major league catcher who abandoned the game for a career as a multilingual international spy; the strangest fellow to ever play professional baseball. Werner Heisenberg, the Nobel Prize-winning physicist credited as the discoverer of quantum mechanics; a key contributor to the Nazi's atomic bomb project and the primary target of the Alsos mission. Colonel Boris Pash, a high school science teacher and veteran of the Russian Revolution who fled the Soviet Union with a deep disdain for Communists and who later led the Alsos mission. Joe Kennedy Jr., the charismatic, thrill-seeking older brother of JFK whose need for adventure led him to volunteer for the most dangerous missions the Navy had to offer. Samuel Goudsmit, a washed-up physics prodigy who spent his life hunting Nazi scientists -- and his parents, who had been swept into a concentration camp -- across the globe. Irène and Frederic Joliot-Curie, a physics Nobel-Prize winning power couple who used their unassuming status as scientists to become active members of the resistance. Thrust into the dark world of international espionage, these scientists and soldiers played a vital and largely untold role in turning back one of the darkest tides in human history.

scientists on the manhattan project: Scientists at War Sarah Bridger, 2015-04-06
Sarah Bridger examines the ethical debates that tested the U.S. scientific community during the Cold War, and scientists' contributions to military technologies and strategic policymaking, from the dawning atomic age through the Strategic Defense Initiative (Star Wars) in the 1980s, which sparked cross-generational opposition among scientists.

scientists on the manhattan project: The Prometheus Bomb Neil J. Sullivan, 2016-12
During World War II, the lives of millions of Americans lay precariously in the hands of a few brilliant scientists who raced to develop the first weapon of mass destruction. Elected officials gave the scientists free rein in the Manhattan Project without understanding the complexities and dangers involved in splitting the atom. The Manhattan Project was the first example of a new type of choice for congressmen, presidents, and other government officials: life and death on a national scale. From that moment, our government began fashioning public policy for issues of scientific development, discoveries, and inventions that could secure or threaten our existence and our future.

But those same men and women had no training in such fields, did not understand the ramifications of the research, and relied on incomplete information to form potentially life-changing decisions. Through the story of the Manhattan Project, Neil J. Sullivan asks by what criteria the people in charge at the time made such critical decisions. He also ponders how similar judgments are reached today with similar incomprehension from those at the top as our society dives down the potential rabbit hole of bioengineering, nanotechnology, and scientific developments yet to come.

scientists on the manhattan project: Hannah's War Jan Eliasberg, 2020-03-03 A mesmerizing re-imagination of the final months of World War II (Kate Quinn, author of *The Alice Network*), *Hannah's War* is an unforgettable love story about an exceptional woman and the dangerous power of her greatest discovery. Berlin, 1938. Groundbreaking physicist Dr. Hannah Weiss is on the verge of the greatest discovery of the 20th century: splitting the atom. She understands that the energy released by her discovery can power entire cities or destroy them. Hannah believes the weapon's creation will secure an end to future wars, but as a Jewish woman living under the harsh rule of the Third Reich, her research is belittled, overlooked, and eventually stolen by her German colleagues. Faced with an impossible choice, Hannah must decide what she is willing to sacrifice in pursuit of science's greatest achievement. New Mexico, 1945. Returning wounded and battered from the liberation of Paris, Major Jack Delaney arrives in the New Mexican desert with a mission: to catch a spy. Someone in the top-secret nuclear lab at Los Alamos has been leaking encoded equations to Hitler's scientists. Chief among Jack's suspects is the brilliant and mysterious Hannah Weiss, an exiled physicist lending her talent to J. Robert Oppenheimer's mission. All signs point to Hannah as the traitor, but over three days of interrogation that separate her lies from the truth, Jack will realize they have more in common than either one bargained for. *Hannah's War* is a thrilling wartime story of loyalty, truth, and the unforeseeable fallout of a single choice.

scientists on the manhattan project: Bulletin of the Atomic Scientists , 1954-09 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world.

scientists on the manhattan project: The Los Alamos Primer Robert Serber, 2020 More than seventy years ago, American forces exploded the first atomic bombs over the Japanese cities of Hiroshima and Nagasaki, causing great physical and human destruction. The young scientists at Los Alamos who developed the bombs, which were nicknamed Little Boy and Fat Man, were introduced to the basic principles and goals of the project in March 1943, at a crash course in new weapons technology. The lecturer was physicist Robert Serber, J. Robert Oppenheimer's protégé, and the scientists learned that their job was to design and build the world's first atomic bombs. Notes on Serber's lectures were gathered into a mimeographed document titled *The Los Alamos Primer*, which was supplied to all incoming scientific staff. The Primer remained classified for decades after the war. Published for the first time in 1992, the Primer offers contemporary readers a better understanding of the origins of nuclear weapons. Serber's preface vividly conveys the mingled excitement, uncertainty, and intensity felt by the Manhattan Project scientists. This edition includes an updated introduction by Pulitzer Prize-winning historian Richard Rhodes. A seminal publication on a turning point in human history, *The Los Alamos Primer* reveals just how much was known and how terrifyingly much was unknown midway through the Manhattan Project. No other seminar anywhere has had greater historical consequences.

scientists on the manhattan project: Pandora's Keepers Brian Van DeMark, 2003-06-01 *There Were Nine of Them*: men with the names Oppenheimer, Teller, Fermi, Bohr, Lawrence, Bethe, Rabi, Szilard, and Compton-brilliant men who believed in science and who saw before anyone else did the awesome workings of an invisible world. They came from many places, some fleeing Nazism in Europe, others quietly slipping out of university teaching jobs, all gathering in secret wartime laboratories to create the world's first atomic bomb. At one such place hidden away in the mountains of northern New Mexico-Los Alamos-they would crack the secret of the nuclear chain reaction and construct a device that incinerated a city and melted its victims so thoroughly that the only thing left

was their scorched outlines on the sidewalks. During the war, few of the atomic scientists questioned the wisdom of their desperate endeavor. But afterward, they were forced to deal with the sobering legacy of their creation. Some were haunted by the dead of Hiroshima and Nagasaki and would become anti-nuclear weapons activists; others would go on to build bigger and even deadlier bombs. Some would remain friends; others would become bitter rivals and enemies. In explaining their lives and their struggles, Brian VanDeMark superbly illuminates the ways in which these brilliant and sensitive men came to terms with their horrific creation. The result is spectacular history and a moral investigation of the highest order.

scientists on the manhattan project: In the Shadow of the Bomb S. S. Schweber, 2013-10-31 How two charismatic, exceptionally talented physicists came to terms with the nuclear weapons they helped to create In 1945, the United States dropped the bomb, and physicists were forced to contemplate disquieting questions about their roles and responsibilities. When the Cold War followed, they were confronted with political demands for their loyalty and McCarthyism's threats to academic freedom. By examining how J. Robert Oppenheimer and Hans A. Bethe—two men with similar backgrounds but divergent aspirations and characters—struggled with these moral dilemmas, one of our foremost historians of physics tells the story of modern physics, the development of atomic weapons, and the Cold War. Oppenheimer and Bethe led parallel lives. Both received liberal educations that emphasized moral as well as intellectual growth. Both were outstanding theoreticians who worked on the atom bomb at Los Alamos. Both advised the government on nuclear issues, and both resisted the development of the hydrogen bomb. Both were, in their youth, sympathetic to liberal causes, and both were later called to defend the United States against Soviet communism and colleagues against anti-Communist crusaders. Finally, both prized scientific community as a salve to the apparent failure of Enlightenment values. Yet their responses to the use of the atom bomb, the testing of the hydrogen bomb, and the treachery of domestic politics differed markedly. Bethe, who drew confidence from scientific achievement and integration into the physics community, preserved a deep integrity. By accepting a modest role, he continued to influence policy and contributed to the nuclear test ban treaty of 1963. In contrast, Oppenheimer first embodied a new scientific persona—the scientist who creates knowledge and technology affecting all humanity and boldly addresses their impact—and then could not carry its burden. His desire to retain insider status, combined with his isolation from creative work and collegial scientific community, led him to compromise principles and, ironically, to lose prestige and fall victim to other insiders. S. S. Schweber draws on his vast knowledge of science and its history—in addition to his unique access to the personalities involved—to tell a tale of two men that will enthrall readers interested in science, history, and the lives and minds of great thinkers.

scientists on the manhattan project: James B. Conant: Harvard to Hiroshima and the Making of the Nuclear Age James Hershberg, 2019-07-31 James B. Conant (1893-1978) was one of the titans of mid-20th-century American history, attaining prominence and power in multiple fields. Usually remembered as an educational leader, he was president of Harvard University for two tumultuous decades, from the Depression to World War II to the Cold War and McCarthyism. To take that job he gave up a scientific career as one of the country's top chemists, and he left it twenty years later to become Eisenhower's top diplomat in postwar Germany. Hershberg's prize-winning study, however, examines a critical aspect of Conant's life that was long obscured by government secrecy: his pivotal role in the birth of the nuclear age. During World War II, as an advisor to Roosevelt and then Truman (on the elite "Interim Committee" that considered how to employ the bomb against Japan), Conant was intimately involved in the decisions to build and use the atomic bomb. During and after the Manhattan Project, he also led efforts to prevent a postwar nuclear arms race between the United States and the Soviet Union that, he feared, threatened the survival of civilization — an apocalyptic prospect he glimpsed in the first instant of the new age, when he witnessed the first test of the new weapon at Alamogordo on July 16, 1945. "... a vivid inquiry... a model of historiography; evocative reading...[Conant was] central to atomic policy and progress; the bomb would be as much Conant's as it was anyone's in Government. His inner response to that burden responsibility has long

been obscured, but it is illumined here.” — Philip Morrison, *The New York Times Book Review* “In his splendid portrait of Conant, James Hershberg has illuminated the life of a pivotal figure in the making of U.S. nuclear, scientific, educational and foreign policy for almost a half-century. But the book is much more: It is not only an insightful narration of Conant’s life; it is also a brilliant and important account of the making of the nuclear age, a chronicle that contains much that is new... Hershberg’s superb study... is a chronicle of Conant’s moral journey and we are the wiser for his having charted Conant’s path.” — S.S. Schweber, *Washington Post Book World* “James G. Hershberg ably comes to grips with Conant and his hazardous times... His book is vibrantly written and compelling, and it breaches Conant’s shield of public discretion in masterly fashion, making extensive use of unpublished interviews, diaries, reports, and correspondence pried from private and governmental repositories. It is a huge, ambitious work — a history of the Cold War as Conant encountered it as well as a study of the man.” — Daniel J. Kevles, *The New Yorker* “... a well-written, comprehensive, nonjudgmental but sensitive biography... Conant was involved in so many and such critical events that students of almost any aspect of our public life over the past half-century will find useful the new material and helpful insights in this book... This fine biography of one of the most important and complicated of America’s twentieth-century leaders immediately establishes James Hershberg as one of America’s outstanding young historians.” — Stephen E. Ambrose, *Foreign Affairs* “... magnificent... Any reader interested in nuclear weapons, Cold War history or American politics from FDR to JFK will find this biography riveting.” — Priscilla McMillan, *Chicago Tribune* “... masterful... The prose is clear, the narrative forceful and the author’s judgments are balanced and judicious. This is simply splendid biography... The highest praise one can give for a book of this sort is that the historian has not shrunk from speaking truth to power. This book quietly but insistently does so. It should be read by the public at large as one of the definitive texts on the cold war and the nuclear age... Hershberg’s triumph is that he has prevailed over all the official lies to give us one more layer of the historical truth.” — Kai Bird, *The Nation* “... riveting... an impressive achievement... honest and comprehensive in its scholarship, the author has shown himself to be a historian of notable achievement and promise.” — McGeorge Bundy, *Nature* “Hershberg’s outstanding, balanced biography lifts the self-imposed secrecy surrounding a key architect of U.S. Cold War policy and of the nuclear age.” — *Publisher’s Weekly* “... [an] impressive and substantial achievement. [Hershberg] has used the life of one strategically placed individual to illuminate the most important issues surrounding America’s role and conduct in the nuclear age. His book will be invaluable to scholars assessing the impact and legacy of the group who acquired the epithet ‘wise men’ now that the Cold War has receded.” — Carol S. Gruber, *Science* “... definitive... a far more textured picture than one finds in Conant’s own guarded and unrevealing autobiography... an important and rewarding book... illuminating... Conant led a remarkable and eventful life in remarkable and eventful times. James Hershberg has explored that life, and those times, in exhaustive and revealing detail.” — Paul Boyer, *The New Republic* “James G. Hershberg has achieved the impossible. He has written a huge biography of a Harvard president that is fascinating, informative and as valuable a piece of American history as anything I have read in years... Mr. Hershberg has brought us back vividly to an age that seems remote, so long ago, but the questions about nuclear proliferation are the same, even while the answers are still ambiguous. As we watch men struggling with unanticipated post-Cold War problems and civil wars sprouting like Jason’s men at arms, it is good to read this story about a complex man who deserves an important place in our history because he helped make that history possible.” — Arnold Beichman, *The Washington Times* “... engrossing... A magisterial study of an awesome and intriguing public career.” — *Kirkus Reviews* “... entertaining... thought-provocative.” — Dick Teresi, *The Wall Street Journal* “Hershberg’s book helps us more clearly understand the postwar Establishment and offers a challenging appraisal of the role of elites, of universities and of the state.” — Gar Alperovitz, *In These Times* “Hershberg deserves great credit for cracking a tough New England walnut, analyzing this very important public figure, demonstrating how he fit into his own time and showing us what we can learn from the man.” — Daniel R. Mortensen, *The Friday Review of Defense Literature* “... a compelling account... an

engaging examination of one of the central figures of the nuclear age. It succeeds in showing 'one man's intersection with great events and issues' and in the process illuminates those issues for us all." — American Historical Review "... well-written... Conant's participation in one of our country's most dynamic periods is, thanks to Hershberg, now much better understood." — Library Journal "A reader of the book will enter the realm of the greats, the shapers of worlds created by the atomic blasts at Hiroshima and Nagasaki... Conant was no bit player in Cold War history... [the book is] very successful in weaving Conant's subsurface persona in with his ups and downs as a prominent and committed public figure. And it leaves out little detail in describing top-level decisions involving the Cold War geopolitics of nuclear weaponry. Conant was a participant in most of these decisions—with Presidents Roosevelt and Truman themselves, their Secretaries of War and State, and, of course, all the major scientific figures of the time." — Chemical & Engineering News "A wonderfully rich portrait that emerges from a carefully documented account of Conant's role in the development of the atomic bomb and post-war nuclear policy... An extraordinarily well written text... Hershberg lays bare the person behind the persona — warts, dimples and all." — Stanley Goldberg, Bulletin of the Atomic Scientists

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flaws, he developed into an inspiring leader and motivated all those involved in the Los Alamos project to make a supreme effort and achieve the unthinkable.

scientists on the manhattan project: Manhattan Project to the Santa Fe Institute George A. Cowan, 2010-02-16 The telephone lay in pieces on George Cowan's office desk in the basement of Princeton's physics building. It was his first day as a graduate student in the fall of 1941. Down the hall, on the door of the cyclotron control room, a sign warned, Don't let Dick Feynman in. He takes tools. On that day, the future Nobel Prize winner Richard Feynman needed a piece from his new office mate's phone, so he borrowed it without even introducing himself. Cowan's memoir is an engaging eyewitness account of how science works and how scientists, as human beings, work as well. In discussing his career in nuclear physics from the 1940s into the 1980s, Cowan weaves in intriguing anecdotes about a large cast of distinguished scientists--all related in his wry, self-deprecating manner. Besides his nearly forty-year career at Los Alamos National Laboratory, Cowan also helped establish banks in Los Alamos and Santa Fe, served as treasurer of the group that created the Santa Fe Opera, and in the late 1980s participated in founding the Santa Fe Institute and served as its first president. He anchored its interdisciplinary work in his quest to find common ground between the relatively simple world of natural science and the daily, messy world of human affairs. Since the early 1990s Cowan has pursued a new interest in psychology and neuroscience to gain a deeper understanding of patterns of human behavior. This autobiography will appeal to anyone interested in a concise, intellectually engaged account of science and its place in society and public policy over the past seventy years.

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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*

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