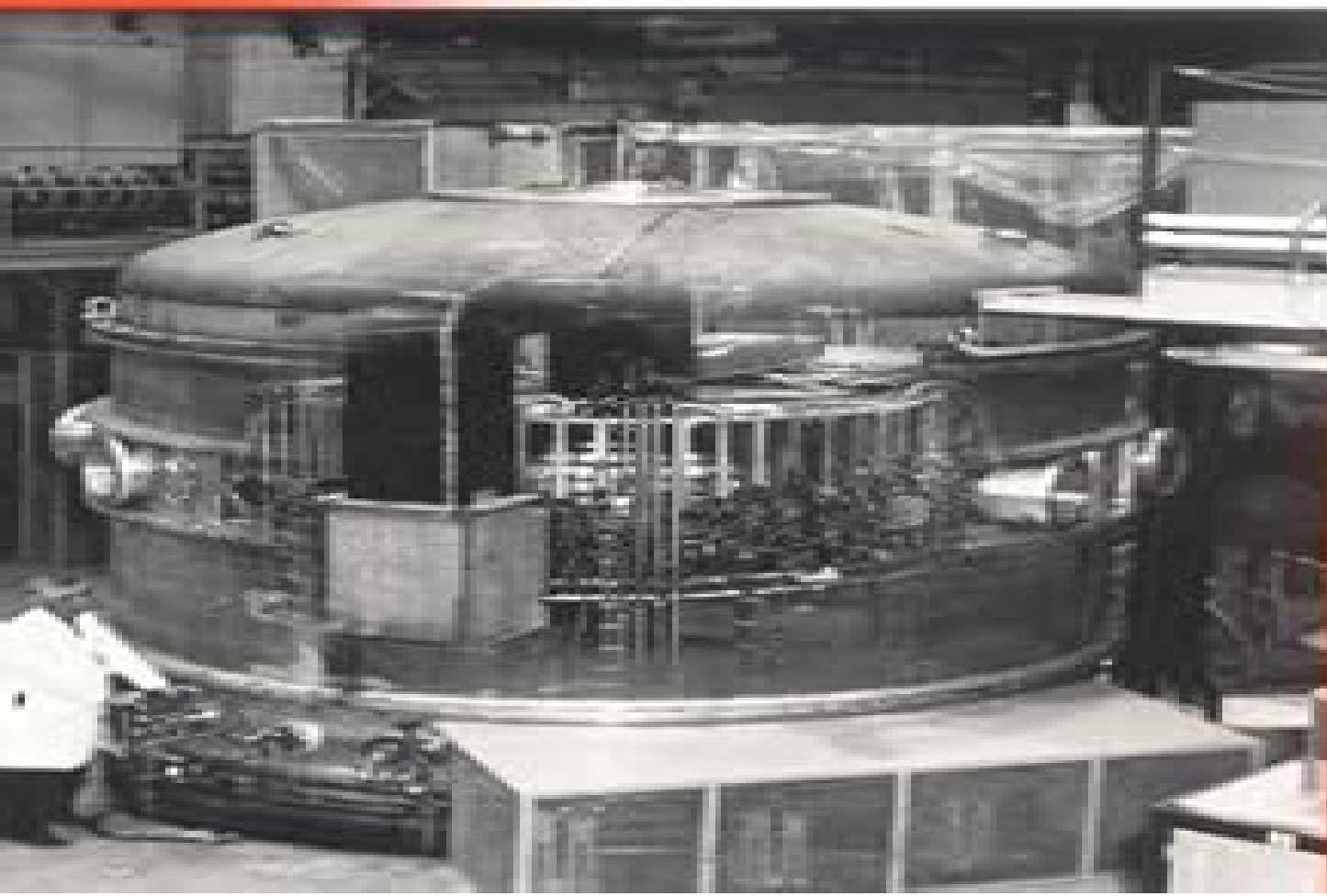


# *FUSION*

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*Science, Politics, and  
the Invention of  
a New Energy Source*

*Joan Lisa Bromberg*



# Fusion Science Politics And The Invention Of A New Energy Source

**Rachel S Tattersall**



## **Fusion Science Politics And The Invention Of A New Energy Source:**

**Fusion** Joan Lisa Bromberg, 1982 For more than thirty years the prospect of unlimited fusion energy has attracted scientists and the public Joan Lisa Bromberg's book documents the history of the American magnetic fusion reactor program It is also a lively account that will inform interested citizens of limited technical background who are concerned with the nation's energy strategy The book carries the story from the program's inception under the auspices of the Atomic Energy Commission in 1951 to its operations under the then new Department of Energy in 1978 Fusion concentrates on the four federally funded laboratories where most of the money has been spent about 2 billion so far Oak Ridge Los Alamos Lawrence Livermore and Princeton It recounts the crucial experiments along the way the ones that succeeded the ones that failed the ones that showed promise And it explains and diagrams the various magnetic configurations and devices that were developed and tested the stellarator the pinch the mirror the tokamak With the government and the public constantly looking over the scientists' shoulders it is no surprise that research directions were heavily influenced by extrascientific pressures the major decisions in fusion research have always emerged from a medley of technical institutional and political considerations The intermingling of science and politics is demonstrated in specific detail The magnetic fusion reactor project is of course ongoing Latest target date for producing commercial power 2050 Estimated total cost 15 billion Dr Bromberg has written extensively on topics in the history of modern science

**The American Lab** C. Bruce Tarter, 2018-08-01 Behind the scenes of the Lawrence Livermore National Laboratory the quintessential American lab Nobel laureate Ernest O Lawrence and renowned physicist Edward Teller founded the Lawrence Livermore National Laboratory in 1952 A new ideas incubator the Lab was at the heart of nuclear testing and the development of supercomputers lasers and other major technological innovations of the second half of the twentieth century Many of its leaders became prominent figures in the technical and defense establishments and by the end of the 1960s Livermore was the peer of Los Alamos National Lab a relationship that continues today In *The American Lab* former Livermore director C Bruce Tarter offers unparalleled access to the inner workings of the Lab Touching on Cold War nuclear science and the technological shift that occurred after the fall of the Berlin Wall he traces the Lab's evolution from its founding under University of California management through its transfer to private oversight Along the way he highlights important episodes in that journey from the invention of Polaris the first submarine launched ballistic missile to the Lab's controversial role in the Star Wars program He also describes Livermore's significant responsibilities in stockpile stewardship the program that ensures the safety and reliability of the US nuclear arsenal The book portrays the lab's extensive work on thermonuclear fusion a potential source of unlimited energy describes the development of the world's largest laser fusion installation the National Ignition Facility and examines a number of smaller projects such as the Lab's participation in founding the Human Genome Project Finally it traces the relationship of the Lab to its federal sponsor the Department of Energy as it evolved from partnership to compliance with orders a shift that

affected all of the national laboratories Drawing on oral histories internal laboratory documents and the author's personal experiences from more than fifty years as a Lab employee *The American Lab* is an illuminating history of the Lab and its revolutionary work

**American Hegemony and the Postwar Reconstruction of Science in Europe** John Krige, 2008-08-29 In 1945 the United States was not only the strongest economic and military power in the world it was also the world's leader in science and technology In *American Hegemony and the Postwar Reconstruction of Science in Europe* John Krige describes the efforts of influential figures in the United States to model postwar scientific practices and institutions in Western Europe on those in America They mobilized political and financial support to promote not just America's scientific and technological agendas in Western Europe but its Cold War political and ideological agendas as well Drawing on the work of diplomatic and cultural historians Krige argues that this attempt at scientific dominance by the United States can be seen as a form of consensual hegemony involving the collaboration of influential local elites who shared American values He uses this notion to analyze a series of case studies that describe how the U.S. administration senior officers in the Rockefeller and Ford Foundations the NATO Science Committee and influential members of the scientific establishment notably Isidor I. Rabi of Columbia University and Vannevar Bush of MIT tried to Americanize scientific practices in such fields as physics molecular biology and operations research He details U.S. support for institutions including CERN the Niels Bohr Institute the French CNRS and its laboratories at Gif near Paris and the never established European MIT Krige's study shows how consensual hegemony in science not only served the interests of postwar European reconstruction but became another way of maintaining American leadership and making the world safe for democracy

*Energy* Herbert F. Mataré, 2018-01-31 This review is supposed to supply to the reader the necessary facts to judge where we stand today in terms of the energy crisis and what has to be done to save humanity from a catastrophic energy shortage

**Introductory Nuclear Physics** Kenneth S. Krane, 1991-01-16 **INTRODUCTORY NUCLEAR PHYSICS**

[Handbook of Science and Technology Studies](#) Sheila Jasanoff, Gerald E. Markle, James C. Peterson, Trevor Pinch, 2001-11-01 This volume represents the social constructivist turn of the field It is evident that social constructivism made a major impact on the field during the 1970s and 1980s The diverse papers included here highlight the role of ethnography in STS In addition we are exposed to new perspectives of the multicultural and gendered nature of knowledge production *Science Technology and Society* For the most current comprehensive resource in this rapidly evolving field look no further than the Revised Edition of the *Handbook of Science and Technology Studies* This masterful volume is the first resource in more than 15 years to define summarize and synthesize this complex multidisciplinary international field Tightly edited with contributions by an internationally recognized team of leading scholars this volume addresses the crucial contemporary issues both traditional and nonconventional social studies political studies and humanistic studies in this changing field Containing theoretical essays extensive literature reviews and detailed case studies this remarkable volume clearly sets the standard for the field It does nothing less than establish itself as

the benchmark one that will carry the field well into the next century The long awaited Handbook of Science and Technology Studies sponsored by the Society for Social Studies of Science is a truly substantial work both in size and in the breadth of its many contributions It is a rich and valuable guide to much that is transpiring in the field of Science and Technology Studies In the editors words it is an unconventional but arresting atlas of the field at a particular moment in its history Science Technology Society This book is not only an important resource for practitioners but it also may help to spark the curiosity of those who are outside the field including scientists and engineers themselves and so pull the half seen world of science and technology studies even more fully into the light of day American Scientist The book as a whole is an impressive testimony to the vitality of a burgeoning field New Scientist It reflects the international and interdisciplinary nature of the society An excellent resource Choice      **Review** Oak Ridge National Laboratory,1983      Energy Research Abstracts ,1986

*Restricted Data* Alex Wellerstein,2024-05-31 Groundbreaking Wellerstein peels back the layers of the nuclear onion to reveal a rich debate about what should be kept secret and why Nature The first full history of US nuclear secrecy from its origins in the late 1930s to our post Cold War present The American atomic bomb was born in secrecy From the moment scientists first conceived of its possibility to the bombings of Hiroshima and Nagasaki and beyond there were efforts to control the spread of nuclear information and the newly discovered scientific facts that made such powerful weapons possible The totalizing scientific secrecy that the atomic bomb appeared to demand was new unusual and very nearly unprecedented It was foreign to American science and American democracy and potentially incompatible with both From the beginning this secrecy was controversial and it was always contested The atomic bomb was not merely the application of science to war but the result of decades of investment in scientific education infrastructure and global collaboration If secrecy became the norm how would science survive Drawing on troves of declassified files including records released by the government for the first time through the author s efforts *Restricted Data* traces the complex evolution of the US nuclear secrecy regime from the first whisper of the atomic bomb through the mounting tensions of the Cold War and into the early twenty first century A compelling history of powerful ideas at war it tells a story that feels distinctly American rich sprawling and built on the conflict between high minded idealism and ugly fearful power Wellerstein examines the health of democracy in the face of big science big government and big weapons Science      **The Handbook of the Arctic** Egor V. Pak,Artem I.

Krivtsov,Natalia S. Zagrebelnaya,2022-07-30 This book offers a broad and holistic overview of issues in the Arctic today a region which is transforming due to changing world order and climate agenda While new economic opportunities and with China as well as other geopolitical players in the region are emerging new security challenges are arising as well In this comprehensive scholarly resource contributors from around the world and from a broad variety of disciplines share their thoughts on the future of the Arctic in a manuscript that will be of interest to researchers economists and policymakers

**The Atomic West** Bruce W. Hevly,John M. Findlay,2011-12-01 The Manhattan Project the World War II race to produce

an atomic bomb transformed the entire country in myriad ways but it did not affect each region equally Acting on an enduring perception of the American West as an empty place the U S government located a disproportionate number of nuclear facilities particularly the ones most likely to spread pollution in western states The Manhattan Project manufactured plutonium at Hanford Washington designed and assembled bombs at Los Alamos New Mexico and detonated the world's first atomic bomb at Alamogordo New Mexico on June 16 1945 In the years that followed the war the U S Atomic Energy Commission selected additional western sites for its work Many westerners initially welcomed the atom Like federal officials they too regarded their region as empty or underdeveloped Facilities to make test and base atomic weapons sites to store nuclear waste and even nuclear power plants were regarded as assets By the 1960s and 1970s however regional attitudes began to change At a variety of locales ranging from Eskimo Alaska to Mormon Utah westerners devoted themselves to resisting the atom and its effects on their environments and communities Just as the atomic age had dawned in the American West so its artificial sun began to set there The Atomic West brings together contributions from several disciplines to explore the impact on the West of the development of atomic power from wartime secrecy and initial postwar enthusiasm to public doubts and protest in the 1970s and 1980s An impressive example of the benefits of interdisciplinary studies on complex topics The Atomic West advances our understanding of both regional history and the history of science and does so with human communities as a significant focal point The book will be of special interest to students and experts on the American West environmental history and the history of science and technology

Technological Transformation E.F. Byrne, Joseph C. Pitt, 2012-12-06 The philosophical study of technology has acquired only recently a voice in academic conversation This situation is due in part to the fact that technology obviously impacts on the real world whereas the favored stereotype of philosophy allegedly does not Furthermore in some circles it was assumed that philosophy ought not impinge on the world This bias continues today in the form of a general dismissal of the growing area now referred to as applied philosophy By contrast the academic scrutiny of science has for the most part been accepted as legitimate for some 30 years primarily because it has been conducted in a somewhat ethereal manner This is in part because it was believed that science being pure one could think even philosophically about science without jeopardizing one's intellectual purity Since World War II however practitioners of the metascientific arts have come to acknowledge that science also shows signs of having touched down on numerous occasions in what can only be identified as the real world No longer able to keep this banal truth a secret purists have sought to defuse its import by stressing the difference between pure and applied science and lest science be tainted by contact with the world through its applications they have devoted additional energy to separating applied science somehow from technology

*The Political Economy of Contemporary Human Civilisation, Volume II* Sangaralingam Ramesh, 2025-03-21 This book the second of two volumes examines the evolution of humanity and development global economic systems to provide insight into the advances and challenges they have created By placing modern technology and

global crises within the context of long term human development it evaluates the threat of climate change on future generations by showing how past civilizations have survived and succumbed to climate events The potential for artificial intelligence quantum computing nuclear fusion and biotechnology to combat the current global challenges is explored alongside possibilities of new technologies exacerbating poverty inequality and social division This book highlights the consequences of human cognition and the constant desire for economic growth and evaluates whether they have been a net positive for human society It will be of interest to students and researchers working on political economy and global challenges

*The Laser in America, 1950-1970* Joan Lisa Bromberg, 1991 In this book Joan Lisa Bromberg brings a historian's broad perspective to bear on the formative years of laser research in the United States

**Nuclear Fusion** C.M. Braams, P.E. Stott, 2002-06-20 Fusion research started over half a century ago Although the task remains unfinished the end of the road could be in sight if society makes the right decisions Nuclear Fusion Half a Century of Magnetic Confinement Fusion Research is a careful scholarly account of the course of fusion energy research over the past fifty years The authors outline the different paths followed by fusion research from initial ignorance to present understanding They explore why a particular scheme would not work and why it was more profitable to concentrate on the mainstream tokamak development The book features descriptive sections in depth explanations of certain physical and technical issues scientific terms and an extensive glossary that explains relevant abbreviations and acronyms

**Spaceflight Revolution** James R. Hansen, 1995

Quantum Generations Helge Kragh, 2020-06-16 At the end of the nineteenth century some physicists believed that the basic principles underlying their subject were already known and that physics in the future would only consist of filling in the details They could hardly have been more wrong The past century has seen the rise of quantum mechanics relativity cosmology particle physics and solid state physics among other fields These subjects have fundamentally changed our understanding of space time and matter They have also transformed daily life inspiring a technological revolution that has included the development of radio television lasers nuclear power and computers In Quantum Generations Helge Kragh one of the world's leading historians of physics presents a sweeping account of these extraordinary achievements of the past one hundred years The first comprehensive one volume history of twentieth century physics the book takes us from the discovery of X rays in the mid 1890s to superstring theory in the 1990s Unlike most previous histories of physics written either from a scientific perspective or from a social and institutional perspective Quantum Generations combines both approaches Kragh writes about pure science with the expertise of a trained physicist while keeping the content accessible to nonspecialists and paying careful attention to practical uses of science ranging from compact disks to bombs As a historian Kragh skillfully outlines the social and economic contexts that have shaped the field in the twentieth century He writes for example about the impact of the two world wars the fate of physics under Hitler Mussolini and Stalin the role of military research the emerging leadership of the United States and the backlash against science that began in the 1960s He also shows how the

revolutionary discoveries of scientists ranging from Einstein Planck and Bohr to Stephen Hawking have been built on the great traditions of earlier centuries Combining a mastery of detail with a sure sense of the broad contours of historical change Kragh has written a fitting tribute to the scientists who have played such a decisive role in the making of the modern world

Science and the Building of a New Japan M. Low, 2005-08-05 This book highlights the importance of individuals in the shaping of postwar Japan by providing an historical account of how physicists constituted an influential elite An history of science perspective provides insight into their role helping us to understand the hybrid identity of Japanese scientists and how they reinvented not only themselves but also Japan The book is special in that it uses the history of science to deal with issues relating to Japanese identity and how it was transformed in the decades after Japan s defeat It explores the lives and work of seven physicists two of whom were Nobel prize winners It makes use of little known Occupation period documents personal papers of physicists and Japanese language source material

**From Pugwash to Putin** Gerson S Sher, 2019-05-17 These firsthand accounts of US and Soviet scientists communicating across the Iron Curtain offer a stunning portrait of Cold War scientific cooperation Physics Today For sixty years scientists from the United States and the Soviet Union participated in state organized programs of collaboration But what really happened in these programs What did the participants and governments hope to achieve And how did these programs weather the bumpiest years of political turbulence From Pugwash to Putin provides accounts from sixty three insiders who participated in these programs including interviews with scientists program managers and current or former government officials In their own words these participants discuss how and why they engaged in cooperative science what their initial expectations were and what lessons they learned They tell stories of gravitational waves classified chalkboards phantom scientists AIDS propaganda and gunfire at meteorological stations illustrating the tensions and benefits of this collaborative work From the first scientific exchanges of the Cold War through the years following the fall of the Soviet Union Gerson S Sher provides a sweeping and critical history of what happens when science is used as a foreign policy tool Sher a former manager of these cooperative programs provides a detailed and critical assessment of what worked what didn t and why it matters

**Energy Abstracts for Policy Analysis** , 1983



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