AMERICAN SCIENTISTS & NUCLEAR WEAPONS POLICY

# **American Scientists And Nuclear Weapons**

Mark A. Prelas, Michael S. Peck

#### **American Scientists And Nuclear Weapons:**

American Scientists and Nuclear Weapons Policy Robert G. Gilpin, 2015-12-08 As this study traces the history of the dramatic intra scientific conflict over nuclear weapons which has developed since World War II it analyzes the politically relevant ideas attitudes and behavior of those scientists who have been influential in the formulation of American policy toward nuclear weapons The author contends that the emergence of the scientist into the mainstream of American political life is one of the great events of our history As he assays the situation he emphasizes the growing need for effective measures for integrating scientist advisers into national policy making processes This well documented book will be of lasting value to both scientists and public administrators and it will be of vital interest to all concerned with current problems of the nuclear era Originally published in 1962 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905 An American Scientist Gabor Somorjai, 2013-09-18 As a young man Gabor Somorjai couldnt have known he would one day be forced to flee his native Hungary But upheaval in Europe during and after World War II led him to the U S where he immersed himself in science and soon began building a research group at one of the powerhouses of scientific discovery The timing couldnt have been better The Sputnik wakeup call that triggered the huge influx of government support for scientific research in the second half of the 20th century bolstered fundamental research programs like the one Somorjai established at the University of California Berkeley and Lawrence Berkeley National Laboratory Key discoveries in his fieldsurface scienceled the way to advances in catalysis know how that underpin todays energy storage and transformation technology and safeguard the environment By revealing the unique ways microscopically thin layers of atoms and molecules control the chemistry and physics of surfaces modern surface science also spawned rapid development in microelectronics high power computing and communication and information technology But the scientific impact of the field that Professor Somorjai shaped doesnt end there Key discoveries in surface science also supported the development of new medical instruments for non invasive investigation of the human body as well as tools and techniques for repairing organs and bones These discoveries have helped increase our life expectancy and vastly improved our quality of life Through a fascinating account of his life story Gabor Somorjai leads us through the dramatic changes in science and technology that took hold during the last half century and are sure to influence our lives in the years to come Nuclear Energy Raymond L. Murray, 2001 Energy Atoms and nuclei Radioactivity Nuclear processes Radiation and materials Fission Fusion Particle accelerators Isotope separators Radiation detectors Neutron chain reactions Nuclear heat energy Breeder reactors Fusion reactors The history of nuclear energy Biological effects of radiation

Information from isotopes Useful radiation effects Reactor safety Nuclear propulsion Radiation protection Radioactive waste disposal Laws regulations and organizations Energy economics International nuclear power Nuclear explosions The future

Nonproliferation Issues For Weapons of Mass Destruction Mark A. Prelas, Michael S. Peck, 2005-01-12 Nonproliferation Issues for Weapons of Mass Destruction provides an understanding of WMD proliferation risks by bridging complex technical and political issues The text begins by defining the world conditions that foster proliferation followed by an analysis of characteristics of various classes of WMDs including nuclear biological and chemica Nuclear Deterrent Eric Heginbotham, Michael S. Chase, Jacob L. Heim, Bonny Lin, Mark R. Cozad, Lyle J. Morris, Christopher P. Twomey, Forrest E. Morgan, Michael Nixon, Cristina L. Garafola, Samuel K. Berkowitz, 2017-03-06 China s approach to nuclear deterrence has been broadly consistent since its first test in 1964 but it has recently accelerated nuclear force modernization China's strategic environment is likely to grow more complex and nuclear constituencies are gaining a larger bureaucratic voice Beijing is unlikely to change official nuclear policies but will probably increase emphasis on nuclear deterrence and may adjust the definition of key concepts The Expanding Roles of Chinese Americans in U.S.-China **Relations** Peter Koehn, Xiao-Huang Yin, Xiao-huang Yin, 2015-02-12 This book addresses the historical and contemporary involvement of Chinese Americans from diverse walks of life in U S China relations The contributors present new evidence and fresh perspectives on familiar and unfamiliar national and transnational networks including families businesspersons community newspapers students lobbyists philanthropists and scientists and consider the likely future impact of such contacts on the most important bilateral relationship at the start of the new millennium. The volume makes a multidisciplinary contribution to understanding the extensive and vital roles and promise of Chinese Americans at this critical juncture in U S China relations and to revealing the importance of migrants as actors in contemporary global politics. The assessments shared by the contributors suggest that the nature and scope of the Chinese American involvement particularly in global civil society networks increasingly will determine the outcome of state to state relations between the United States and the PRC

Russian Foreign Policy toward Missile Defense Bilyana Lilly,2014-08-21 This book is devoted to one of the central issues in U S Russian and NATO Russian relations ballistic missile defense Drawing on more than 2 000 primary sources interviews with Russian and NATO officials and a variety of Russian and Western publications this book offers an unparalleled in depth analysis of the reasons behind Russia's policy towards the construction of a U S ballistic missile defense in Europe It provides a critical assessment of the decision making mechanisms that shape Russia's position on ballistic missile defense as well as Russia's strategic relations with the United States and Russia's interaction with European and non European powers Lilly argues that contrary to Moscow's official claims during the Putin era Russian objections to the construction of ballistic missile defense in Europe have not been wholly dictated by security concerns To Russia missile defense is not purely an issue in and of itself but rather a symbol and instrument of broader political considerations At the

international level the factors that have shaped Russia's response include Moscow's perception of the overall state of U S Russian relations the Kremlin's capacity to project influence and power abroad and NATO's behavior in the post Soviet space Domestically the issue of missile defense has been a facilitating instrument for strengthening Putin's regime and justifying military modernization Taken together these instrumental considerations and their fluctuating intensity in different periods prompt the Russian leadership to pursue contradictory policy approaches simultaneously On the one hand the Kremlin seeks U S cooperation while on the other hand it threatens retaliation and reinforces Russian offensive capabilities The result is Moscow's incoherence inconsistency and double speak over the issue of missile defense **Anthropology and Science** Jeanette Edwards, Penny Harvey, Peter Wade, 2020-10-26 What does it mean to know something scientifically anthropologically socially What is the relationship between different forms of knowledge and ways of knowing How is knowledge mobilised in society and to what ends Drawing on ethnographic examples from across the world and from the virtual and global places created by new information technologies Anthropology and Science presents examples of living and dynamic epistemologies and practices and of how scientific ways of knowing operate in the world Authors address the nature of both scientific and experiential knowledge and look at competing and alternative ideas about what it means to be human The essays analyze the politics and ethics of positioning science culture or society as authoritative They explore how certain modes of knowing are made authoritative and command allegiance or not and look at scientific and other rationalities whether these challenge or are compatible with science Chinese Strategy and Military Power in 2014 Anthony H. Cordesman, 2014-11-25 This report tracks and analyzes trends in Chinese military strategy force structure and regional activity Open source material is used to detail how each branch of the People's Liberation Army has pursued modernization Chinese perspectives on their military s role and development are featured as well as the views of other relevant regional actors The purpose of this report is to provide the basis for an unclassified dialogue on the military developments in China By presenting data on the regional military balance alongside perspectives on China's military development the Burke Chair hopes that readers can better understand how China's strategic goals military development and regional views interact with each other Opposition to War Mitchell K. Hall, 2018-01-04 How have Americans sought peaceful rather than destructive solutions to domestic and world conflict This two volume set documents peace and antiwar movements in the United States from the colonial era to the present Although national leaders often claim to be fighting to achieve peace the real peace seekers struggle against enormous resistance to their message and have often faced persecution for their efforts Despite a well established pattern of being involved in wars the United States also has a long tradition of citizens who made extensive efforts to build and maintain peaceful societies and prevent the destructive human and material costs of war Unarmed activists have most consistently upheld American values at home Opposition to War An Encyclopedia of U S Peace and Antiwar Movements investigates this historical tradition of resistance to involvement in armed conflict an especially

important and relevant topic today as the nation has been mired in numerous military conflicts throughout most of the current century The book examines a largely misunderstood and underappreciated minority of Americans who have committed themselves to finding peaceful resolutions to domestic and international conflicts individuals who have proposed and conducted an array of practical and creative methods for peaceful change from the transformation of individual behavior to the development of international governing and legal systems for more than 250 years Readers will learn how individuals working alone or organized into societies of various size have steadfastly campaigned to stop war end the arms race eliminate the underlying causes of war and defend the civil liberties of Americans when wartime nationalism most threatens them

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