

BIOWEAPONS PROGRAM

MILTON LEITENBERG, RAYMOND A ZILINSKAS, JENS H KUHN

📖 **BARRIERS TO BIOWEAPONS** SONIA BEN OUAGRHAM-GORMLEY, 2014-12-15 IN BOTH THE POPULAR IMAGINATION AND AMONG LAWMAKERS AND NATIONAL SECURITY EXPERTS, THERE EXISTS THE BELIEF THAT WITH SUFFICIENT MOTIVATION AND MATERIAL RESOURCES, STATES OR TERRORIST GROUPS CAN PRODUCE BIOWEAPONS EASILY, CHEAPLY, AND SUCCESSFULLY. IN BARRIERS TO BIOWEAPONS, SONIA BEN OUAGRHAM-GORMLEY CHALLENGES THIS PERCEPTION BY SHOWING THAT BIOWEAPONS DEVELOPMENT IS A DIFFICULT, PROTRACTED, AND EXPENSIVE ENDEAVOR, RARELY ACHIEVING THE EXPECTED RESULTS WHATEVER THE MAGNITUDE OF INVESTMENT. HER FINDINGS ARE BASED ON EXTENSIVE INTERVIEWS SHE CONDUCTED WITH FORMER U.S. AND SOVIET-ERA BIOWEAPONS SCIENTISTS AND ON CAREFUL ANALYSIS OF ARCHIVAL DATA AND OTHER HISTORICAL DOCUMENTS RELATED TO VARIOUS STATE AND TERRORIST BIOWEAPONS PROGRAMS. BIOWEAPONS DEVELOPMENT RELIES ON LIVING ORGANISMS THAT ARE SENSITIVE TO THEIR ENVIRONMENT AND HANDLING CONDITIONS, AND THEREFORE BEHAVE UNPREDICTABLY. THESE FEATURES PLACE A GREATER PREMIUM ON SPECIALIZED KNOWLEDGE. BEN OUAGRHAM-GORMLEY POSITS THAT LACK OF ACCESS TO SUCH INTELLECTUAL CAPITAL CONSTITUTES THE GREATEST BARRIER TO THE MAKING OF BIOWEAPONS. SHE INTEGRATES THEORIES DRAWN FROM ECONOMICS, THE SOCIOLOGY OF SCIENCE, ORGANIZATION, AND MANAGEMENT WITH HER EMPIRICAL RESEARCH. THE RESULTING THEORETICAL FRAMEWORK RESTS ON THE IDEA THAT THE PACE AND SUCCESS OF A BIOWEAPONS DEVELOPMENT PROGRAM CAN BE MEASURED BY ITS ABILITY TO ENSURE THE CREATION AND TRANSFER OF SCIENTIFIC AND TECHNICAL KNOWLEDGE. THE SPECIFIC ORGANIZATIONAL, MANAGERIAL, SOCIAL, POLITICAL, AND ECONOMIC CONDITIONS NECESSARY FOR SUCCESS ARE DIFFICULT TO ACHIEVE, PARTICULARLY IN COVERT PROGRAMS WHERE THE NEED TO PREVENT DETECTION IMPOSES MANAGERIAL AND ORGANIZATIONAL CONDITIONS THAT CONFLICT WITH KNOWLEDGE PRODUCTION.

📖 **THE SOVIET BIOLOGICAL WEAPONS PROGRAM** MILTON LEITENBERG, RAYMOND A ZILINSKAS, JENS H KUHN, 2012-06-29 THIS IS THE FIRST ATTEMPT TO UNDERSTAND THE FULL SCOPE OF THE USSR'S OFFENSIVE BIOLOGICAL WEAPONS RESEARCH, FROM INCEPTION IN THE 1920S. GORBACHEV TRIED TO END THE PROGRAM, BUT THE U.S. AND U.K. NEVER OBTAINED CLEAR EVIDENCE THAT HE SUCCEEDED, RAISING THE QUESTION WHETHER THE MEANS FOR WAGING BIOLOGICAL WARFARE COULD BE PRESENT IN RUSSIA TODAY.

📖 **GERM GAMBITS** AMY SMITHSON, 2011-07-18 THIS BOOK TELLS THE TALE OF HOW INTERNATIONAL INSPECTORS BEAT INCREDIBLE ODDS TO UNVEIL IRAQ'S COVERT BIOWEAPONS PROGRAM, DRAWS LESSONS FROM THIS EXPERIENCE THAT SHOULD BE APPLIED TO HELP ARREST FUTURE BIOWEAPONS PROGRAMS, PLACES THE IRAQ BIOWEAPONS SAGA IN THE CONTEXT OF OTHER MANMADE BIOLOGICAL RISKS, AND MAKES RECOMMENDATIONS TO REDUCE THOSE PERILS.

📖 **TOXICOLOGIC ASSESSMENT OF THE ARMY'S ZINC CADMIUM SULFIDE DISPERSION TESTS** NATIONAL RESEARCH COUNCIL, DIVISION ON EARTH AND LIFE STUDIES, COMMISSION ON LIFE SCIENCES, SUBCOMMITTEE ON ZINC CADMIUM SULFIDE, 1997-05-30 DURING THE 1950S AND 1960S, THE U.S. ARMY CONDUCTED ATMOSPHERIC DISPERSION TESTS IN MANY AMERICAN CITIES USING FLUORESCENT PARTICLES OF ZINC CADMIUM SULFIDE (ZnCdS) TO DEVELOP AND VERIFY METEOROLOGICAL MODELS TO ESTIMATE THE DISPERSAL OF AEROSOLS. UPON LEARNING OF THE TESTS, MANY CITIZENS AND SOME PUBLIC HEALTH OFFICIALS IN THE AFFECTED CITIES RAISED CONCERNS ABOUT THE HEALTH CONSEQUENCES OF THE TESTS. THIS BOOK ASSESSES THE PUBLIC HEALTH EFFECTS OF THE ARMY'S TESTS, INCLUDING THE TOXICITY OF ZnCdS, THE TOXICITY OF SURROGATE CADMIUM COMPOUNDS, THE ENVIRONMENTAL FATE OF ZnCdS, THE EXTENT OF PUBLIC EXPOSURES FROM THE DISPERSION TESTS, AND THE RISKS OF SUCH EXPOSURES.

📖 **BIOLOGICAL WEAPONS** JEANNE GUILLEMIN, 2005 A TIMELY ACCOUNT OF HOW RESOURCES FOR BIOLOGICAL WEAPONS PROGRAMS WERE MOBILIZED AND WHY SUCH WEAPONS HAVE NEVER BEEN DEPLOYED IN MAJOR CONFLICTS OFFERS AN UNDERSTANDING OF THE RELEVANCE OF THE HISTORICAL RESTRAINTS PLACED ON THE USE OF BIOLOGICAL WEAPONS AND LOOKS AT WHAT CAN BE DONE TO PREVENT THEIR PROLIFERATION IN THE POST-SEPTEMBER 11TH WORLD.

📖 **BIOHAZARD** KEN ALIBEK, STEPHEN HANDELMAN, 2014-03-05 "READ AND BE AMAZED. . . AN IMPORTANT AND FASCINATING LOOK INTO A TERRIFYING WORLD OF WHICH WE WERE BLISSFULLY UNAWARE."—ROBIN COOK, AUTHOR OF CONTAGION ANTHRAX. SMALLPOX. INCURABLE AND HORRIFYING EBOLA-RELATED FEVERS. FOR TWO DECADES, WHILE A FEARFUL WORLD PREPARED FOR NUCLEAR WINTER, AN ELITE TEAM OF RUSSIAN BIOWEAPONERS BEGAN TO TILL A NEW KILLING FIELD: A BLEAK TRACT SOWN WITH POWERFUL SEEDS OF MASS DESTRUCTION—BY DOCTORS WHO HAD COMMITTED THEMSELVES TO CREATING A BIOLOGICAL ARMAGEDDON. BIOHAZARD IS THE NEVER-BEFORE-TOLD STORY OF RUSSIA'S DARKEST, DEADLIEST, AND MOST CLOSELY GUARDED COLD WAR SECRET. NO ONE KNOWS MORE ABOUT RUSSIA'S ASTOUNDING EXPERIMENTS WITH BIOWARFARE THAN KEN ALIBEK. NOW THE MASTERMIND BEHIND RUSSIA'S GERM WARFARE EFFORT REVEALS TWO DECADES OF SHOCKING BREAKTHROUGHS . . . HOW MOSCOW'S LEADING SCIENTISTS ACTUALLY REENGINEERED HAZARDOUS MICROBES TO MAKE THEM EVEN MORE VIRULENT . . . THE SECRETS BEHIND THE DISCOVERY OF AN INVISIBLE, UNTRACEABLE NEW CLASS OF BIOLOGICAL AGENTS JUST RIGHT FOR USE IN POLITICAL ASSASSINATIONS . . . THE STARTLING STORY BEHIND RUSSIA'S ATTEMPT TO TURN A SAMPLE OF THE AIDS VIRUS INTO THE ULTIMATE BIOWEAPON. AND IN A CHILLING WORK OF REAL-WORLD INTRIGUE, BIOHAZARD OFFERS US ALL A RARE GLIMPSE INTO A SHADY SCIENTIFIC UNDERWORLD WHERE DOCTORS MANUFACTURE MASS DESTRUCTION, WHERE WITNESSES TO ERRORS ARE SILENCED FOREVER, AND WHERE GROUND ZERO IS CLOSER THAN WE EVER DARED BELIEVE. PRAISE FOR BIOHAZARD "HARROWING . . . RICHLY DESCRIPTIVE . . . [AN] ABSORBING ACCOUNT."—THE NEW YORK TIMES BOOK REVIEW "REMARKABLE . . . TERRIFYING REVELATIONS . . . [KEN ALIBEK'S] OVERALL MESSAGE IS IGNORED AT GREAT NATIONAL PERIL."—NEWSDAY

📖 **LIVING WEAPONS** GREGORY D. KOBLENTZ, 2011-05-16 BIOLOGICAL WEAPONS ARE WIDELY FEARED, YET RARELY USED. BIOLOGICAL WEAPONS WERE THE FIRST WEAPON PROHIBITED BY

AN INTERNATIONAL TREATY, YET THE PROLIFERATION OF THESE WEAPONS INCREASED AFTER THEY WERE BANNED IN 1972. BIOLOGICAL WEAPONS ARE FREQUENTLY CALLED 'THE POOR MAN'S ATOMIC BOMB,' YET THEY CANNOT PROVIDE THE SAME DETERRENT CAPABILITY AS NUCLEAR WEAPONS. ONE OF MY GOALS IN THIS BOOK IS TO EXPLAIN THE UNDERLYING PRINCIPLES OF THESE APPARENT PARADOXES.—FROM *LIVING WEAPONS*

BIOLOGICAL WEAPONS ARE THE LEAST WELL UNDERSTOOD OF THE SO-CALLED WEAPONS OF MASS DESTRUCTION. UNLIKE NUCLEAR AND CHEMICAL WEAPONS, BIOLOGICAL WEAPONS ARE COMPOSED OF, OR DERIVED FROM, LIVING ORGANISMS. IN *LIVING WEAPONS*, GREGORY D. KOBLENTZ PROVIDES A COMPREHENSIVE ANALYSIS OF THE UNIQUE CHALLENGES THAT BIOLOGICAL WEAPONS POSE FOR INTERNATIONAL SECURITY. AT A TIME WHEN THE UNITED STATES ENJOYS OVERWHELMING CONVENTIONAL MILITARY SUPERIORITY, BIOLOGICAL WEAPONS HAVE EMERGED AS AN ATTRACTIVE MEANS FOR LESS POWERFUL STATES AND TERRORIST GROUPS TO WAGE ASYMMETRIC WARFARE. KOBLENTZ ALSO WARNS THAT ADVANCES IN THE LIFE SCIENCES HAVE THE POTENTIAL TO HEIGHTEN THE LETHALITY AND VARIETY OF BIOLOGICAL WEAPONS. THE CONSIDERABLE OVERLAP BETWEEN THE EQUIPMENT, MATERIALS AND KNOWLEDGE REQUIRED TO DEVELOP BIOLOGICAL WEAPONS, CONDUCT CIVILIAN BIOMEDICAL RESEARCH, AND DEVELOP BIOLOGICAL DEFENSES CREATES A MULTIUSE DILEMMA THAT LIMITS THE EFFECTIVENESS OF VERIFICATION, HINDERS CIVILIAN OVERSIGHT, AND COMPLICATES THREAT ASSESSMENTS. *LIVING WEAPONS* DRAWS ON THE AMERICAN, SOVIET, RUSSIAN, SOUTH AFRICAN, AND IRAQI BIOLOGICAL WEAPONS PROGRAMS TO ENHANCE OUR UNDERSTANDING OF THE SPECIAL CHALLENGES POSED BY THESE WEAPONS FOR ARMS CONTROL, DETERRENCE, CIVILIAN-MILITARY RELATIONS, AND INTELLIGENCE. KOBLENTZ ALSO EXAMINES THE ASPIRATIONS OF TERRORIST GROUPS TO DEVELOP THESE WEAPONS AND THE OBSTACLES THEY HAVE FACED. BIOLOGICAL WEAPONS, KOBLENTZ ARGUES, WILL CONTINUE TO THREATEN INTERNATIONAL SECURITY UNTIL DEFENSES AGAINST SUCH WEAPONS ARE IMPROVED, GOVERNMENTS CAN RELIABLY DETECT BIOLOGICAL WEAPON ACTIVITIES, THE PROLIFERATION OF MATERIALS AND EXPERTISE IS LIMITED, AND INTERNATIONAL NORMS AGAINST THE POSSESSION AND USE OF BIOLOGICAL WEAPONS ARE STRENGTHENED.

📖 **THE SOVIET BIOLOGICAL WEAPONS PROGRAM** MILTON LEITENBERG, RAYMOND A ZILINSKAS, JENS H KUHN, 2012-06-29 THIS IS THE FIRST ATTEMPT TO UNDERSTAND THE FULL SCOPE OF THE USSR'S OFFENSIVE BIOLOGICAL WEAPONS RESEARCH, FROM INCEPTION IN THE 1920S. GORBACHEV TRIED TO END THE PROGRAM, BUT THE U.S. AND U.K. NEVER OBTAINED CLEAR EVIDENCE THAT HE SUCCEEDED, RAISING THE QUESTION WHETHER THE MEANS FOR WAGING BIOLOGICAL WARFARE COULD BE PRESENT IN RUSSIA TODAY.

📖 **BIOLOGICAL WEAPONS** CLAY FARRIS NAFF, 2006 COLLECTION OF ESSAYS DISCUSSING THE ORIGINS AND HISTORY OF BIOWEAPONS, TYPES OF BIOWEAPONS, PERSONAL EXPERIENCES WITH BIOLOGICAL WARFARE, DEFENDING AGAINST A BIOLOGICAL ATTACK, AND THE EMERGING THREATS OF NEW BIOLOGICAL WEAPONRY.

📖 **BIOLOGICAL THREATS IN THE 21ST CENTURY** FILIPPA LENTZOS, 2016-07-13 BIOLOGICAL THREATS IN THE 21ST CENTURY OFFERS A FRESH UNDERSTANDING OF CONTEMPORARY BIOLOGICAL THREATS TO NATIONAL SECURITY. READERS ARE INTRODUCED TO THE POLITICS, PEOPLE, SCIENCE AND HISTORICAL ROOTS OF CONTEMPORARY BIOLOGICAL THREATS THROUGH UP-TO-DATE, RIGOROUS AND ACCESSIBLE CHAPTERS WRITTEN BY LEADING ACADEMICS AND SUPPLEMENTED BY EXPERT POINT-OF-VIEW CONTRIBUTIONS AND INTERVIEWS. THE BOOK PROVIDES INSPIRATION AND RESOURCES FOR STUDENTS AND RESEARCHERS, AS WELL AS POLICY MAKERS IN GOVERNMENT, THE PUBLIC POLICY SECTOR AND THE WIDER COMMUNITY. IT IS PARTICULARLY PERTINENT FOR THOSE INTERESTED IN BIOLOGICAL DISARMAMENT, NON-PROLIFERATION, COUNTERTERRORISM AND HEALTH SECURITY. CONTENTS: EDITOR'S INTRODUCTION: THE POLITICS, PEOPLE, SCIENCE AND HISTORICAL ROOTS (FILIPPA LENTZOS) CROSSING THE NORMATIVE BARRIER: JAPAN'S BIOLOGICAL WARFARE IN CHINA IN WORLD WAR II (JEANNE GUILLEMIN) PAST PROLIFERATORS: THE BRITISH, UNITED STATES AND CANADIAN BIOLOGICAL WARFARE PROGRAMS (BRIAN BALMER & JOHN ELLIS VAN COURTLAND MOON) POINT OF VIEW: OPEN-AIR BIOWARFARE TESTING: AMERICAN AND BRITISH EXPERIENCES (LEONARD A COLE) THE SOVIET BIOLOGICAL WARFARE PROGRAM (JENS H KUHN & MILTON LEITENBERG) POINT OF VIEW: LIFE INSIDE THE SOVIET BIOWEAPONS PROGRAM (SONIA BEN OUAGRHAM-GORMLEY) THE IRAQI BIOLOGICAL WARFARE PROGRAM (TIM TREVAN) POINT OF VIEW: HUNTING SADDAM'S BIOLOGICAL WEAPONS: A FIRST-HAND ACCOUNT (GABRIELE KRAATZ-WADSACK) THE SOUTH AFRICAN BIOLOGICAL WARFARE PROGRAM (ALASTAIR HAY) POINT OF VIEW: OPEN SECRETS: 'TRUTH TELLING' AND TRANSITIONAL JUSTICE IN REVEALING BIOWARFARE PROGRAMS (CHANDR📖 GOULD) BIOWEAPONS IN TODAY'S CONTEXT :RISE, THE RAJNEESHEES, AUM SHINRIKYO AND BRUCE IVINS (W SETH CARUS) POINT OF VIEW: INSIDE THE MIND OF A BIOTERRORIST (TOBY EWING) AFTERSHOCKS OF THE 2001 ANTHRAX ATTACKS (KATHLEEN M VOGEL) POINT OF VIEW: THE THREAT OF MISUSE (GIGI KWIK GRONVALL) SEARCHING FOR CURES OR CREATING PANDEMICS IN THE LAB? (NANCY D CONNELL & BRIAN RAPPERT) POINT OF VIEW: DANGEROUS LIFE SCIENCES RESEARCH (DAVID R FRANZ) EBOLA: FROM PUBLIC HEALTH CRISIS TO NATIONAL SECURITY THREAT (NICHOLAS G EVANS) POINT OF VIEW: BUILDING A SUSTAINABLE BIODEFENSE INDUSTRY (JACOB THORUP COHN) QUANDARIES IN CONTEMPORARY BIODEFENSE RESEARCH (GREGORY D KOBLENTZ) DISARMAMENT AND NON-PROLIFERATION: THE TRADITIONAL TOOLS OF BIOLOGICAL ARMS CONTROL AND DISARMAMENT (MARIE ISABELLE CHEVRIER & ALEX SPELLING) WITNESS SEMINAR: ORIGINS OF THE BIOLOGICAL WEAPONS CONVENTION (JEANNE GUILLEMIN, MATTHEW MESELSON, JULIAN PERRY ROBINSON & NICHOLAS SIMS) INTERVIEW: UNCONVENTIONAL WEAPONS AND ACTIVIST SCIENTISTS (STEVEN ROSE & FILIPPA LENTZOS) POINT OF VIEW: RESPONSIBLE SCIENCE: STRATEGIES FOR ENGAGING KEY STAKEHOLDERS (JO L HUSBANDS) INTERVIEW: INTERNATIONAL SECURITY AND COUNTER-TERRORISM (TREVOR SMITH & FILIPPA LENTZOS) POINT OF VIEW: THE FRONT LINES OF BIOLOGICAL WEAPONS NON-PROLIFERATION (MELISSA FINLEY & JENNIFER GAUDIOSO) ROUNDTABLE: THE FUTURE OF BIOTHREAT GOVERNANCE (IRIS HUNGER, JEZ LITTLEWOOD, CAITRIONA MCLEISH, PIERS MILLETT & RALF TRAPP) READERSHIP: STUDENTS AND RESEARCHERS, AS WELL AS POLICY MAKERS IN GOVERNMENT, THE PUBLIC POLICY SECTOR AND THE WIDER COMMUNITY. IT IS PARTICULARLY PERTINENT FOR THOSE INTERESTED IN BIOLOGICAL DISARMAMENT, NON-PROLIFERATION,

COUNTERTERRORISM AND HEALTH SECURITY.

🔍 **ASSESSING THE BIOLOGICAL WEAPONS AND BIOTERRORISM THREAT** MILTON LEITENBERG, 2005 It is nearly 15 years since biological weapons (BW) have become a significant national security preoccupation. The events of September 11, 2001, although not in any way related to BW, combined with the distribution of professionally prepared anthrax spores through the U.S. postal system in the weeks afterwards, magnified previous concerns by orders of magnitude.

🔍 **PHANTOM MENACE OR LOOMING DANGER?** KATHLEEN M. VOGEL, 2012-12-15 A call for a new way to assess bioweapon threats—recognizing the importance of the sociopolitical context of technological threats. The horrifying terrorist attacks on September 11, 2001, and the anthrax strikes that soon followed gave the United States new reason to fear unconventional enemies and atypical weapons. These fears have prompted extensive research, study, and planning within the U.S. military, intelligence, and policy communities regarding potential attacks involving biological weapons. In *Phantom Menace or Looming Danger?*, Kathleen M. Vogel argues for a major shift in how analysts assess bioweapons threats. She calls for an increased focus on the social and political context in which technological threats are developed. Vogel uses case studies to illustrate her theory: Soviet anthrax weapons development, the Iraqi mobile bioweapons labs, and two synthetic genomic experiments. She concludes with recommendations for analysts and policymakers to integrate sociopolitical analysis with data analysis, thereby making U.S. bioweapon assessments more accurate. Students of security policy will find her innovative framework appealing, her writing style accessible, and the many illustrations helpful. These features also make *Phantom Menace or Looming Danger?* a must-read for government policymakers and intelligence experts. “This is an engrossing book that exemplifies what STS can bring to broader issues of policymaking in the US and potentially beyond, and it is well worth reading.” —CARLA NAPPI, *New Books in Science, Technology, and Society* “Kathleen Vogel has authored one of the most important books written about biological weapons in recent years. . . . Vogel tackles head-on the conventional wisdom regarding the biological weapon (BW) threat, successfully, challenging assumptions that have gone largely unexamined by the broader biodefense community. . . . She also uncovers some deeper organizational and social forces that have shaped US intelligence and threat assessments since the end of international security, not just those with an interest in biodefense or intelligence. This, this book is a must-read for scholars and practitioners in the field of international security, not just those with an interest in biodefense or intelligence.” —GREGORY D. KOBLENTZ, *Nonproliferation Review* “Intriguing, original, and deeply informed. Focusing on potential threats, Vogel shows in engaging historical detail that technical problems are inherently social. She has made an important scholarly contribution to science and technology studies and to studies of intelligence. At the same time, she speaks directly to the policy world. The combination of depth of scholarship and practical implication is remarkable.” —LYNN EDEN, Center for International Security and Cooperation, Freeman Spogli Institute for International Studies, Stanford University

🔍 **A SHORT HISTORY OF BIOLOGICAL WARFARE** W. SETH CARUS, NATIONAL DEFENSE UNIVERSITY (U S), NATIONAL DEFENSE UNIVERSITY. CENTER FOR THE STUDY OF WEAPONS OF MASS DESTRUCTION, 2017-08-03 This publication gives a history of biological warfare (BW) from the prehistoric period through the present, with a section on the future of BW. The publication relies on works by historians who used primary sources dealing with BW. In-depth definitions of biological agents, biological weapons, and biological warfare (BW) are included, as well as an appendix of further reading on the subject. Related items: Arms & Weapons publications can be found here: <https://bookstore.gpo.gov/catalog/arms-weapons> Hazardous materials (HAZMAT & CBRNE) publications can be found here: <https://bookstore.gpo.gov/catalog/hazardous-materials-hazmat-cbrne>

🔍 **DEADLY CULTURES** MARK WHEELIS, LAJOS R. ZSA, 2009-06-30 The threat of biological weapons has never attracted as much public attention as in the past five years. Yet there has been little historical analysis of such weapons over the past half-century. *Deadly Cultures* sets out to fill this gap by analyzing the historical developments since 1945 and addressing three central issues: why states have continued or begun programs for acquiring biological weapons, why states have terminated biological weapons programs, and how states have demonstrated that they have truly terminated their biological weapons programs.

🔍 **ASSESSING THE BIOLOGICAL WEAPONS AND BIOTERRORISM THREAT**,

🔍 **BIOTERROR AND BIOWARFARE** MALCOLM DANDO, 2009-01-15 Covers the history of biological warfare, changes in the way biological agents are used, current attack scenarios, and how to prevent bioterrorism.

🔍 **AMERICAN BIODEFENSE** FRANK L. SMITH III, 2014-09-19 Biological weapons have threatened U.S. national security since at least World War II. Historically, however, the U.S. military has neglected research, development, acquisition, and doctrine for biodefense. Following September 11 and the anthrax letters of 2001, the United States started spending billions of dollars per year on medical countermeasures and biological detection systems. But most of this funding now comes from the Department of Health and Human Services rather than the Department of Defense. Why has the U.S. military neglected biodefense and allowed civilian

ORGANIZATIONS TO TAKE THE LEAD IN DEFENDING THE COUNTRY AGAINST BIOLOGICAL ATTACKS? IN AMERICAN BIODEFENSE, FRANK L. SMITH III ADDRESSES THIS PUZZLING AND LARGELY UNTOLD STORY ABOUT SCIENCE, TECHNOLOGY, AND NATIONAL SECURITY. SMITH ARGUES THAT ORGANIZATIONAL FRAMES AND STEREOTYPES HAVE CAUSED BOTH MILITARY NEGLECT AND THE RISE OF CIVILIAN BIODEFENSE. IN THE ARMED SERVICES, INFLUENTIAL IDEAS ABOUT KINETIC WARFARE HAVE UNDERMINED DEFENSE AGAINST BIOLOGICAL WARFARE. THE INFLUENCE OF THESE IDEAS ON SCIENCE AND TECHNOLOGY CHALLENGES THE CONVENTIONAL WISDOM THAT NATIONAL SECURITY POLICY IS DRIVEN BY THREATS OR BUREAUCRATIC INTERESTS. GIVEN THE IDEAS AT WORK INSIDE THE U.S. MILITARY, SMITH EXPLAINS HOW THE LESSONS LEARNED FROM BIODEFENSE CAN HELP SOLVE OTHER IMPORTANT PROBLEMS THAT RANGE FROM RADIATION WEAPONS TO CYBER ATTACKS.

THE BIOLOGICAL THREAT REDUCTION PROGRAM OF THE DEPARTMENT OF DEFENSE NATIONAL RESEARCH COUNCIL, POLICY AND GLOBAL AFFAIRS, DEVELOPMENT, SECURITY, AND COOPERATION, OFFICE FOR CENTRAL EUROPE AND EURASIA, COMMITTEE ON PREVENTION OF PROLIFERATION OF BIOLOGICAL WEAPONS, 2007-10-10 THIS CONGRESSIONALLY-MANDATED REPORT IDENTIFIES AREAS FOR FURTHER COOPERATION WITH RUSSIA AND OTHER STATES OF THE FORMER SOVIET UNION UNDER THE COOPERATIVE THREAT REDUCTION (CTR) PROGRAM OF THE DEPARTMENT OF DEFENSE IN THE SPECIFIC AREA OF PREVENTION OF PROLIFERATION OF BIOLOGICAL WEAPONS. THE REPORT REVIEWS RELEVANT U.S. GOVERNMENT PROGRAMS, AND PARTICULARLY THE CTR PROGRAM, AND IDENTIFIES APPROACHES FOR OVERCOMING OBSTACLES TO COOPERATION AND FOR INCREASING THE LONG-TERM IMPACT OF THE PROGRAM. IT RECOMMENDS STRONG SUPPORT FOR CONTINUATION OF THE CTR PROGRAM.

BIOLOGICAL WARFARE RAYMOND A. ZILINSKAS, 2000 RECENT REVELATIONS ABOUT IRAQI AND SOVIET/RUSSIAN BIOLOGICAL WEAPONS PROGRAMS AND HIGHLY PUBLICIZED EVENTS SUCH AS THE DEPLOYMENT OF ANTHRAX AND BOTULINUM BY THE AUM SHINRIKYO SECT IN JAPAN HAVE MADE CLEAR THE NECESSITY FOR ADDRESSING THE ISSUES OF BIOLOGICAL WARFARE AND DEFENSE. IN A COMPREHENSIVE ANALYSIS OF THIS IMMINENT THREAT TO GLOBAL SECURITY, FOURTEEN INTERNATIONALLY RECOGNIZED AUTHORITIES CONSIDER THE MOTIVATIONS OF GOVERNMENTS AND TERRORIST GROUPS SEEKING TO ACQUIRE BIOLOGICAL WEAPONS; MANAGING THE CONSEQUENCES OF A BIOLOGICAL ATTACK; TECHNIQUES FOR WEAPONS DEVELOPMENT; METHODS FOR DETECTION OF PATHOGENS AND TOXINS; DEFENSE AGAINST BIOLOGICAL WEAPONS; AND INTERNATIONAL EFFORTS TO COUNTER THEIR PROLIFERATION.

COUNTERING BIOLOGICAL THREATS NATIONAL RESEARCH COUNCIL, POLICY AND GLOBAL AFFAIRS, DEVELOPMENT, SECURITY, AND COOPERATION, OFFICE FOR CENTRAL EUROPE AND EURASIA, COMMITTEE ON PREVENTION OF PROLIFERATION OF BIOLOGICAL WEAPONS IN STATES BEYOND THE FORMER SOVIET UNION, 2009-05-27 IN RESPONSE TO A REQUEST FROM THE U.S. CONGRESS, THIS BOOK EXAMINES HOW THE UNIQUE EXPERIENCE AND EXTENSIVE CAPABILITIES OF THE DEPARTMENT OF DEFENSE (DOD) CAN BE EXTENDED TO REDUCE THE THREAT OF BIOTERRORISM WITHIN DEVELOPING COUNTRIES OUTSIDE THE FORMER SOVIET UNION (FSU). DURING THE PAST 12 YEARS, DOD HAS INVESTED \$800 MILLION IN REDUCING THE RISK FROM BIOTERRORISM WITH ROOTS IN THE STATES OF THE FSU. THE PROGRAM'S ACCOMPLISHMENTS ARE MANY FOLD. THE RISK OF BIOTERRORISM IN OTHER COUNTRIES IS TOO GREAT FOR DOD NOT TO BE AMONG THE LEADERS IN ADDRESSING THREATS BEYOND THE FSU. TAKING INTO ACCOUNT POSSIBLE SENSITIVITIES ABOUT A U.S. MILITARY PRESENCE, DOD SHOULD ENGAGE INTERESTED GOVERNMENTS IN ABOUT TEN DEVELOPING COUNTRIES OUTSIDE THE FSU IN BIOLOGICAL THREAT REDUCTION PROGRAMS DURING THE NEXT FIVE YEARS. WHENEVER POSSIBLE, DOD SHOULD PARTNER WITH OTHER ORGANIZATIONS THAT HAVE WELL ESTABLISHED HUMANITARIAN REPUTATIONS IN THE COUNTRIES OF INTEREST. FOR EXAMPLE, THE U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT, THE CENTERS FOR DISEASE CONTROL AND PREVENTION, AND THE WORLD HEALTH ORGANIZATION SHOULD BE CONSIDERED AS POTENTIAL PARTNERS.

GETTING THE BOOKS **BIOWEAPONS PROGRAM** NOW IS NOT TYPE OF CHALLENGING MEANS. YOU COULD NOT UNAIDED GOING AFTERWARD BOOKS GATHERING OR LIBRARY OR BORROWING FROM YOUR LINKS TO APPROACH THEM. THIS IS AN EXTREMELY SIMPLE MEANS TO SPECIFICALLY ACQUIRE GUIDE BY ON-LINE. THIS ONLINE DECLARATION **BIOWEAPONS PROGRAM** CAN BE ONE OF THE OPTIONS TO ACCOMPANY YOU FOLLOWING HAVING SUPPLEMENTARY TIME.

IT WILL NOT WASTE YOUR TIME. ACKNOWLEDGE ME, THE E-BOOK WILL NO QUESTION ANNOUNCE YOU EXTRA MATTER TO READ. JUST INVEST LITTLE BECOME OLD TO WAY IN THIS ON-LINE MESSAGE **BIOWEAPONS PROGRAM** AS WITHOUT DIFFICULTY AS REVIEW THEM WHEREVER YOU ARE NOW.

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BIOWEAPONS PROGRAM INTRODUCTION

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