

Chemical Warfare 2

United States. Army. Chemical Warfare Service

The Chemical Warfare Service Leo P Brophy, George J B Fisher, Center of Military History, 2023-07-18 This book is a comprehensive and authoritative history of the Chemical Warfare Service, a key military unit responsible for developing and deploying chemical weapons during World War I. Drawing on extensive archival research and interviews with veterans, the authors provide a detailed and unvarnished account of this controversial and often overlooked aspect of modern warfare. A must-read for military history enthusiasts, policymakers, and anyone interested in the ethics and consequences of warfare. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

The Chemical Warfare Service Leo P. Brophy, George J. B. Fisher, 1959

Chemical Warfare Toxicology Franz Worek, John Jenner, Horst Thiermann, 2016-05-17 This book provides an up-to-date treatise on the on-going research into the toxicology of chemical warfare agents, the diagnosis and verification of exposure, and the pre- and post-exposure treatment of poisoning.

Chemical Warfare (II) , 2020

The Chemical Warfare Service: The chemical warfare service; from laboratory to field , 1959

The Chemical Warfare Service: from Laboratory to Field Leo P. Brophy, 1959

The Chemical Warfare Service Brooks E. Kleber, Dale Birdsell, 1966

The Chemical Warfare Service: Organizing for war , 1959

A Bridge Not Attacked Harold Johnston, 2003 This book tells the novel true stories concerning highly talented civilian scientists in some unusual places and situations during World War II. The purpose of this book is to present an almost forgotten history of secret war research in universities. The focus is on the narrow subject of chemical warfare research and on a small number of individuals, but with in-depth study of these individuals and what they did. Mostly graduate students and young instructors, they were working under the direction of professors at the California Institute of Technology (Caltech) and the University of California (Berkeley). Action took place in California, Florida and the jungles of Panama. This history touches on the work of four senior Nobel Prize winners and eight junior, future Nobel Prize winners at Caltech and Berkeley.

Handbook of Toxicology of Chemical Warfare Agents Ramesh C. Gupta, 2015-01-21 Handbook of Toxicology of Chemical Warfare Agents, Second Edition covers every aspect of deadly toxic chemicals used in conflicts, warfare and terrorism. Including findings from experimental as well as clinical studies, this essential reference offers in-depth coverage of individual toxicants, target organ toxicity, major incidents, toxic effects in humans, animals and wildlife, biosensors and biomarkers, on-site and laboratory analytical methods, decontamination and detoxification procedures, and countermeasures. Expanding on the ground-breaking first edition, Handbook of Toxicology of Chemical Warfare Agents has been completely updated, presenting the most recent advances in field. Brand new chapters include a case study of the Iran-Iraq war, an overview of chemical weapons of mass destruction, explosives, ricin, the human respiratory system, alternative testing methods, brain injuries, and more. Unites world-leading experts to present cutting-edge, agent-specific information on chemical warfare agents and their adverse effects on human and animal health and the environment. Covers all aspects of chemical warfare agent modes of action, detection, prevention, therapeutic treatment and countermeasures. Features a full update on the first edition to reflect the most recent advances in the field as well as nine new chapters.

Chemical Warfare Bulletin United States. Army. Chemical Warfare Service, 1934-10

The Chemical Warfare Service Brooks E. Kleber, Dale Birdsell, 1966 Preface: This is the first of three volumes devoted to the activities of the Chemical Warfare Service in World War II. Part one of the present volume traces the organization and administration of the Chemical Warfare Service from its origins in World War I up through World War II. Part two deals with training of military personnel for offensive and defensive chemical warfare in the same period.

Toxic Exposures Susan L. Smith, 2017-01-17 Mustard gas is typically associated with the horrors of World War I battlefields and trenches, where chemical weapons were responsible for tens of thousands of deaths. Few realize, however, that mustard gas had a resurgence during the Second World War, when its uses and effects were widespread and insidious. *Toxic Exposures* tells the shocking story of how the United States and its allies intentionally subjected thousands of their own servicemen to poison gas as part of their preparation for chemical warfare. In addition, it reveals the racialized dimension of these mustard gas experiments, as scientists tested whether the effects of toxic exposure might vary between Asian, Hispanic, black, and white Americans. Drawing from once-classified American and Canadian government records, military reports, scientists' papers, and veterans' testimony, historian Susan L. Smith explores not only the human cost of this research, but also the environmental degradation caused by ocean dumping of unwanted mustard gas. As she assesses the poisonous legacy of these chemical warfare experiments, Smith also considers their surprising impact on the origins of chemotherapy as cancer treatment and the development of veterans' rights movements. *Toxic Exposures* thus traces the scars left when the interests of national security and scientific curiosity battled with medical ethics and human rights.

One Hundred Years of Chemical Warfare: Research, Deployment, Consequences Bretislav Friedrich, Dieter Hoffmann, Jürgen Renn, Florian Schmaltz, Martin Wolf, 2017-11-26 This book is open access under a CC BY-NC 2.5 license. On April 22, 1915, the German military released 150 tons of chlorine gas at Ypres, Belgium. Carried by a long-awaited wind, the chlorine cloud passed within a few minutes through the British and French trenches, leaving behind at least 1,000 dead and 4,000 injured. This chemical attack, which amounted to the first use of a weapon of mass destruction, marks a turning point in world history. The preparation as well as the execution of the gas attack was orchestrated by Fritz Haber, the director of the Kaiser Wilhelm Institute for Physical Chemistry and Electrochemistry in Berlin-Dahlem. During World War I, Haber transformed his research institute into a center for the development of chemical weapons (and of the means of protection against them). Bretislav Friedrich and Martin Wolf (Fritz Haber Institute of the Max Planck Society, the successor institution of Haber's institute) together with Dieter Hoffmann, Jürgen Renn, and Florian Schmaltz (Max Planck Institute for the History of Science) organized an international symposium to commemorate the centenary of the infamous chemical attack. The symposium examined crucial facets of chemical warfare from the first research on and deployment of chemical weapons in WWI

to the development and use of chemical warfare during the century hence. The focus was on scientific, ethical, legal, and political issues of chemical weapons research and deployment – including the issue of dual use – as well as the ongoing effort to control the possession of chemical weapons and to ultimately achieve their elimination. The volume consists of papers presented at the symposium and supplemented by additional articles that together cover key aspects of chemical warfare from 22 April 1915 until the summer of 2015.

The Chemical Warfare Service Brooks E. Kleber, Dale Birdsell, 1966

Holding Their Breath Marion Girard Dorsey, 2023-03-15 Holding Their Breath uncovers just how close Britain, the United States, and Canada came to crossing the red line that restrained chemical weapon use during World War II. Unlike in World War I, belligerents did not release poison gas regularly during the Second World War. Yet, the looming threat of chemical warfare significantly affected the actions and attitudes of these three nations as they prepared their populations for war, mediated their diplomatic and military alliances, and attempted to defend their national identities and sovereignty. The story of chemical weapons and World War II begins in the interwar period as politicians and citizens alike advocated to ban, to resist, and eventually to prepare for gas use in the next war. M. Girard Dorsey reveals, through extensive research in multinational archives and historical literature, that although poison gas was rarely released on the battlefield in World War II, experts as well as lay people dedicated significant time and energy to the weapon's potential use; they did not view chemical warfare as obsolete or taboo. Poison gas was an influential weapon in World War II, even if not deployed in a traditional way, and arms control, for various reasons, worked. Thus, what did not happen is just as important as what did. Holding Their Breath provides insight into these potentialities by untangling World War II diplomacy and chemical weapons use in a new way.

A Bridge Not Attacked,

Chemical Warfare Fredric Brown, 2017-09-04 In the aftermath of 9/11, the potential terror of weapons of mass destruction--from nuclear, biological, and chemical to dirty bombs--preoccupies national security experts. In Chemical Warfare, Frederic J. Brown, presents a cogent, innovative framework for understanding the historical forces that have restrained the use of WMD and how they continue to have relevance today. Analyzing both world wars, he argues that the restraints on use were complex and often unpredictable and ranged from the political to the technological. The author offers a detailed examination of American chemical warfare policy as it was shaped by industry and public sentiment, as well as national and military leaders. The organization of the book into three parts reflects the importance of battlefield experiences during the First World War and of international political restraints as they evolved during the interwar years and culminated in no first use policies by major powers in World War II. Part I examines the use of chemical weapons in World War I as it influenced subsequent national policy decisions. Part II focuses on the evolution of political, military, economic, and psychological restraints from 1919 to 1939. Part III discusses World War II during two critical periods: 1939 to early 1942, when the environment of the war was being established largely without American influence; and during 1945, when the United States faced no credible threat of retaliation to deter its strategic and battlefield use of chemical weapons. Written at the height of controversy about the U.S. use of chemicals in Vietnam, Chemical Warfare offers a valuable historical perspective, as relevant now in its analysis of chemical and also nuclear policy as it was when first published.

The Preparatory Manual of Chemical Warfare Agents Third Edition Volume 2 Jared Ledgard, 2017-11 The Preparatory Manual of Chemical Warfare Agents Third Edition Volume 2 is the continuation of Volume 1, and includes many upgraded data and informational contents on the world's most common Chemical Warfare Agents. These existing warfare agents in Volume 2 include updated toxicity data and information regarding environmental persistence, contamination degree, lethal dose, and biological routes of entry and bodily function. As well, each chemical entry includes updated molecular formulas for preparation and structure, 3D molecular images, molecular physical properties, and laboratory chemistry, procedures, and safety. The third edition Volume 2 includes brand new chapters and sections including: Chapter 11: Preparation of Nerve Agent Antidotes including complete laboratory preparation and biological methods of nerve agent antidotes. Section VI: EXPERIMENTAL CHEMICAL WARFARE AGENTS, AND POTENTIAL CHEMICAL WARFARE AGENTS, Chapter 12: The preparation of experimental specialty quaternary nitrogen ion chemical warfare nerve agents; Chapter 13: The preparation of intermediates used in the preparation of experimental and Potential warfare Nerve Agents; Chapter 14: The preparation of experimental and potential nerve agents (Non-quaternary nitrogen ion containing); Section VII: THE PREPARATION AND MILITARIZATION OF BZ Chapter 15: BZ; toxicity data and information regarding environmental persistence, contamination degree, lethal dose, and biological routes of entry and bodily function. As well, includes molecular formulas for preparation and structure, 3D molecular images, molecular physical properties, and laboratory chemistry, procedures, and safety. Complete preparation and methods of military weaponization; Section VIII: THE PREPARATION OF RICIN Chapter 16: Ricin; toxicity data and information regarding environmental persistence, contamination degree, lethal dose, and biological routes of entry and bodily function. As well, chemical entry includes molecular formulas for preparation and structure, 3D molecular images, molecular physical properties, and laboratory chemistry, procedures, and safety. Complete and in depth guide on the extraction, isolation, and military weaponization. Section IX: METHODS OF DISSEMINATION OF CHEMICAL WARFARE AGENTS AND USE, Chapter 17: Dissemination techniques and munitions including upgrades to methods of chemical dissemination i.e. chemical warfare munitions; Aerosol Techniques (pressure release systems), Aerosol Warfare agent compositions, Smoke generating techniques (pyrotechnic devices), Warfare agents and their pyrotechnic smoke producing compositions, Explosive techniques (explosives munitions), and Special techniques (atomizers, humidifiers, and foggers); and then a simple Reference guide. The Preparatory Manual of Chemical Warfare Agents Third Edition Volume 2 is an extremely valuable reference book used to teach scientific, laboratory, and toxicity data for students, researchers, government agencies, contractors, first responders, and military operatives.

The Chemical Warfare Service: from Laboratory to Field Leo P. Brophy, Wyndham D. Miles, Rexmond C. Cochrane,

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