

# Proving Grounds

Project Plowshare and  
the Unrealized Dream  
of Nuclear Earthmoving



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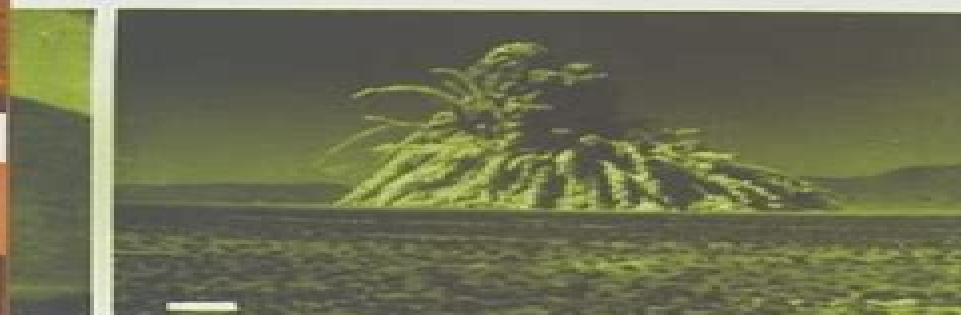


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Scott Kirsch



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# Proving Grounds Project Plowshare And The Unrealized Dream Of Nuclear Earthmoving

**Neil Shafer Oatsvall**



## **Proving Grounds Project Plowshare And The Unrealized Dream Of Nuclear Earthmoving:**

*Proving Grounds* Scott Kirsch, 2005 In *Proving Grounds* Scott Kirsch traces the rise and fall of this astonishing cold war initiative He examines the work that went into making geographical engineering or earthmoving an imminent possibility as well as the public controversy scientific uncertainty and political opposition that kept it with the exception of several massive craters in the Nevada desert out of the landscape

Project Plowshare Scott Kaufman, 2012-11-20 Inspired by President Dwight D Eisenhower's Atoms for Peace speech scientists at the Atomic Energy Commission and the University of California's Radiation Laboratory began in 1957 a program they called Plowshare Joined by like minded government officials scientists and business leaders champions of peaceful nuclear explosions maintained that they could create new elements and isotopes for general use build storage facilities for water or fuel mine ores increase oil and natural gas production generate heat for power production and construct roads harbors and canals By harnessing the power of the atom for nonmilitary purposes Plowshare backers expected to protect American security defend U S legitimacy and prestige and ensure access to energy resources Scott Kaufman's extensive research in nearly two dozen archives in three nations shows how science politics and environmentalism converged to shape the lasting conflict over the use of nuclear technology Indeed despite technological and strategic promise Plowshare's early champions soon found themselves facing a vocal and powerful coalition of federal and state officials scientists industrialists environmentalists and average citizens Skeptical politicians domestic and international pressure to stop nuclear testing and a lack of government funding severely restricted the program By the mid 1970s Plowshare was in the words of one government official dead as a doornail However the thought of using the atom for peaceful purposes remains alive

*Compelled to Act* Sarah Carter, Nanci Langford, 2020-10-02 *Compelled to Act* showcases fresh historical perspectives on the diversity of women's contributions to social and political change in prairie Canada in the twentieth century including but looking beyond the era of suffrage activism In our current time of revitalized activism against racism colonialism violence and misogyny this volume reminds us of the myriad ways women have challenged and confronted injustices and inequalities The women and their activities shared in *Compelled to Act* are diverse in time place and purpose but there are some common threads In their attempts to correct wrongs achieve just solutions and create change women experienced multiple sites of resistance both formal and informal The acts of speaking out of organizing of picketing and protesting were characterized as unnatural for women as violations of gender and societal norms and as dangerous to the state and to family stability Still as these accounts demonstrate prairie women felt compelled to respond to women's needs to challenges to family security both health and economic and to the need for community They reacted with the resources at hand and beyond to support effective action joining the ranks of women all over the world seeking political and social agency to create a society more responsive to the needs of women and their children

*Arming Mother Nature* Jacob Darwin Hamblin, 2013-04-04 When most Americans think of environmentalism they think of the political left of vegans dressed in

organic hemp fabric lofting protest signs In reality writes Jacob Darwin Hamblin the movement and its dire predictions owe more to the Pentagon than the counterculture In *Arming Mother Nature* Hamblin argues that military planning for World War III essentially created catastrophic environmentalism the idea that human activity might cause global natural disasters This awareness Hamblin shows emerged out of dark ambitions as governments poured funds into environmental science after World War II searching for ways to harness natural processes to kill millions of people Proposals included the use of nuclear weapons to create artificial tsunamis or melt the ice caps to drown coastal cities setting fire to vast expanses of vegetation and changing local climates Oxford botanists advised British generals on how to destroy enemy crops during the war in Malaya American scientists attempted to alter the weather in Vietnam This work raised questions that went beyond the goal of weaponizing nature By the 1980s the C I A was studying the likely effects of global warming on Soviet harvests Perhaps one of the surprises of this book is not how little was known about environmental change but rather how much Hamblin writes Driven initially by strategic imperatives Cold War scientists learned to think globally and to grasp humanity's power to alter the environment We know how we can modify the ionosphere nuclear physicist Edward Teller proudly stated We have already done it Teller never repented But many of the same individuals and institutions that helped the Pentagon later warned of global warming and other potential disasters Brilliantly argued and deeply researched *Arming Mother Nature* changes our understanding of the history of the Cold War and the birth of modern environmental science *Would Trotsky Wear a Bluetooth?* Paul R. Josephson, 2009-12-09 After visiting Russia in 1921 the journalist Lincoln Steffens famously declared I have seen the future and it works Steffens referred to the social experiment of technological utopianism he found in the Soviet Union where subway cars and farm tractors would carry the worker and peasant figuratively and literally into the twentieth century Believing that socialism and technology together created a brave new world Boleslaw Bierut of Poland and Kim Il Sung of North Korea and other leaders joined Russia's Vladimir Lenin and Leon Trotsky in embracing big technology with a verve and conviction that rivaled the western world's Paul R Josephson here explores these utopian visions of technology and their unanticipated human and environmental costs He examines the role of technology in communist plans and policies and the interplay between ideology and technological development He shows that while technology was a symbol of regime legitimacy and an engine of progress the changes it spurred were not unequivocally positive Instead of achieving a worker's paradise socialist technologies exposed the proletariat to dangerous machinery and deadly pollution rather than freeing women from exploitation in family and labor they paradoxically created for them the dual and exhausting burdens of mother and worker The future did not work The fall of the Soviet Union in 1991 marked the end of communism's self proclaimed glorious quest to reach and surpass the West Josephson's intriguing study of how technology both helped and hindered this effort asks new and important questions about the crucial issues inextricably linked with the development and diffusion of technology in any sociopolitical system **Animals and War** Ryan Hediger, 2012-11-01 *Animals and War* is the

first collection of essays to explore its important yet neglected topic Scholars from sociology history anthropology and literary and cultural studies investigate the presence of animals in human wars The essays analyze a wide range of phenomena including the new militarization of bees zoo animals during war war dogs Finish horses in World War II Canadian war literature and the effort to memorialize nonhuman war animals Although animals are often forced to participate in human wars their presence also signals human vulnerability and dependence Several chapters demonstrate that in the frequently horrible circumstances of war powerful sympathies nonetheless flourish between humans and animals Animals and War thus exposes the often paradoxical contours of human animal relationships *Toxic Airs* James Rodger Fleming, Ann Johnson, 2014-03-23 *Toxic Airs* brings together historians of medicine environmental historians historians of science and technology and interdisciplinary scholars to address atmospheric issues on a spectrum of scales from body to place to planet The chapters analyze airborne and atmospheric threats posed to humans and contributors demonstrate how conceptions of toxicity have evolved and how humans have both created and mitigated toxins in the air Specific topics discussed include medieval beliefs in the pestilent breath of witches malarial theory in India domestic and military use of tear gas Gulf War Syndrome Los Angeles smog automotive emissions control the epidemiological effects of air pollution transboundary air pollution ozone depletion the contributions of contemporary artists to climate awareness and the toxic history of carbon dioxide Overall the essays provide a wide ranging historical study of interest to students and scholars of many disciplines The First Atomic Age Matthew Lavine, 2013-06-05 At the close of the 19th century strange new forms of energy arrested the American public's attention in ways that no scientific discovery ever had before This groundbreaking cultural history tells the story of the first nuclear culture one whose lasting effects would be seen in the familiar atomic age of the post war twentieth century Treating Weapons Proliferation D. Santoro, 2010-03-01 *Treating Weapons Proliferation* is a chilling exploration of the dynamics of weapons proliferation and nonproliferation In an analogy with the disease of cancer the book walks the reader through the history of the phenomenon with its growing complexities and changing dimensions **Three Mile Island** Grace Halden, 2017-06-27 *Three Mile Island* explains the far reaching consequences of the partial meltdown of Pennsylvania's Three Mile Island power plant on March 28 1979 Though the disaster was ultimately contained the fears it triggered had an immediate and lasting impact on public attitudes towards nuclear energy in the United States In this volume Grace Halden contextualizes the events at Three Mile Island and the ensuing media coverage offering a gripping portrait of a nation coming to terms with technological advances that inspired both awe and terror Including a selection of key primary documents this book offers a fascinating resource for students of the history of science technology the environment and Cold War culture **The Future of Fallout, and Other Episodes in Radioactive World-Making** Joseph Masco, 2020-12-18 In *The Future of Fallout and Other Episodes in Radioactive World Making* Joseph Masco examines the strange American intimacy with and commitment to existential danger Tracking the simultaneous

production of nuclear emergency and climate disruption since 1945 he focuses on the psychosocial accommodations as well as the technological revolutions that have produced these linked planetary scale disasters Masco assesses the memory practices visual culture concepts of danger and toxic practices that in combination have generated a U S national security culture that promises ever more safety and comfort in everyday life but does so only by generating and deferring a vast range of violences into the collective future Interrogating how this existential lag i e the material and conceptual fallout of the twentieth century in the form of nuclear weapons and petrochemical capitalism informs life in the twenty first century Masco identifies key moments when other futures were still possible and seeks to activate an alternative postnational security political imaginary in support of collective life today

*The Anthropocene* David R. Butler, 2021-12-21 This book is devoted to the Anthropocene the period of unprecedented human impacts on Earth s environmental systems and illustrates how Geographers envision the concept of the Anthropocene This edited volume illustrates that geographers have a diverse perspective on what the Anthropocene is and represents The chapters also show that geographers do not feel it necessary to identify only one starting point for the temporal onset of the Anthropocene Several starting points are suggested and some authors support the concept of a time transgressive Anthropocene Chapters in this book are organized into six sections but many of them transcend easy categorization and could have fit into two or even three different sections Geographers embrace the concept of the Anthropocene while defining it and studying it in a variety of ways that clearly show the breadth and diversity of the discipline This book will be of great value to scholars researchers and students interested in geography environmental humanities environmental studies and anthropology The chapters in this book were originally published as a special issue of the journal *Annals of the American Association of Geographers*

*Atomic Environments* Neil Shafer Oatsvall, 2023-02-21 In *Atomic Environments* Neil S Oatsvall examines how top policymakers in the Truman and Eisenhower administrations used environmental science in their work developing nuclear strategy at the beginning of the Cold War While many people were involved in research and analysis during the period in question it was at highest levels of executive decision making where environmental science and nuclear science most clearly combined to shape the nation s policies Because making and testing weapons dealing with fallout and nuclear waste and finding uses for radioactive byproducts required advanced understanding of how nuclear systems interacted with the world policymakers utilized existing networks of environmental scientists particularly meteorologists geologists and ecologists to understand and control the United States use of nuclear technology Instead of profiling individuals Oatsvall focuses on executive institutions especially the leadership of the Atomic Energy Commission AEC and high level officials in the Truman and Eisenhower White Houses including the presidents themselves By scrutinizing institutional policymaking practices and agendas at the birth of the nuclear age a constant set of values becomes clear *Atomic Environments* reveals an emerging technocratic class that consistently valued knowledge about the environment to help create and maintain a nuclear arsenal despite its existential threat to life on earth

and the negative effects many nuclear technologies directly had on ecosystems and the American people alike Atomic Environments is divided into five chapters each of which probes a different facet of the entanglement between environment nuclear technologies and policymaking The first three chapters form a rough narrative arc about nuclear weapons Chapter One situates bombs in their natural habitat by considering why nuclear tests occurred where they did and what testers thought they revealed about the natural environment and how they influenced it Focusing on nuclear fallout Chapter Two argues that nuclear tests actually functioned as a massive uncontrolled experiment in world environments and human bodies that intermingled medicine nuclear science and environmental science Chapter Three shows how the environmental knowledge gained in the first two chapters led to nuclear test ban treaty talks during the Eisenhower era when the advancement of environmental knowledge and the natural world itself became crucial grounds of contention in the creation of nuclear test detection and evasion systems The last two chapters step away from weapons to question how other nuclear technologies and facets of the U S nuclear program interacted with the natural world Chapter Four examines agriculture s place in the U S nuclear program from breakthrough advances in agricultural science including the use of radioisotopes and the direct application of radiation to food to atomic agriculture s public relations value as a peaceful proxy which shifted the moral calculus and further leveraged the U S government s atomic power Chapter Five shows how knowledge of the natural world and the functioning of its systems proved important to uncovering the most effective ways to dispose of nuclear waste Running throughout Oatsvall consistently demonstrates how the natural world and the scientific disciplines that study it became integral parts of nuclear science rather than adversarial fields of knowledge But while nuclear technologies heavily depended on environmental science to develop those same technologies frequently caused great harm to the natural world Moreover while some individuals expressed real anxieties about the damage wrought by nuclear technologies policymakers as a class consistently made choices that privileged nuclear boosterism and secrecy prioritizing institutional values over the lives and living systems that agencies like the AEC were ostensibly charged to protect In the end Oatsvall argues that although policymakers took their charge to protect and advance the welfare of the United States and its people seriously they often failed to do so because their allegiance to the U S nuclear hierarchy blinded them to the real risks and dangers of the nuclear age

Genealogy of Popular Science Jesús Muñoz Morcillo, Caroline Y. Robertson-von Trotha, 2020-10-27 Despite the efforts of modern scholars to explain the origins of science communication as a social rhetorical and aesthetic phenomenon most researchers approach the popularization of science from the perspective of present issues thus ignoring its historical roots in classical culture along with its continuities disruptions and transformations This volume fills this research gap with a genealogically reflected introduction into the popularization of science as a recurrent cultural technique The category popular science is elucidated in interdisciplinary and diachronic dialogue discussing case studies from all historical periods Classicists archaeologists medievalists art historians sociologists and historians of science provide the first

diachronic and multi layered approach to the rhetoric techniques aesthetics and societal conditions that have shaped the dissemination and reception of scientific knowledge *Desiring the Bomb* Calum Lister Matheson, 2018-11-13 A timely interdisciplinary study that applies psychoanalysis and the rhetorical tradition of the sublime to examine the cultural aftermath of the Atomic Age Every culture throughout history has obsessed over various end of the world scenarios The dawn of the Atomic Age marked a new twist in this tale For the first time our species became aware of its capacity to deliberately destroy itself Since that time the Bomb has served as an organizing metaphor a symbol of human annihilation a stand in for the unspeakable void of extinction and a discursive construct that challenges the limits of communication itself The parallel fascination with and abhorrence of nuclear weapons has metastasized into a host of other end of the world scenarios from global pandemics and climate change to zombie uprisings and asteroid collisions *Desiring the Bomb* Communication Psychoanalysis and the Atomic Age explores these world ending fantasies through the lens of psychoanalysis to reveal their implications for both contemporary apocalyptic culture and the operations of language itself What accounts for the enduring power of the Bomb as a symbol What does the prospect of annihilation suggest about language and its limits Thoroughly researched and accessibly written this study expands on the theories of Kenneth Burke Jacques Lacan Sigmund Freud and many others from a variety of disciplines to arrive at some answers to these questions Calum L Matheson undertakes a series of case studies including the Trinity test site nuclear war games urban shelter schemes and contemporary survivalism and argues that contending with the anxieties individual social cultural and political born of the Atomic Age depends on rhetorical conceptions of the real an order of experience that cannot be easily negotiated in language Using aspects of media studies rhetorical theory and psychoanalysis the author deftly engages the topics of Atomic Age survival extinction religion and fantasy along with their enduring cultural legacies to develop an account of the Bomb as a signifier and to explore why some Americans have become fascinated with fantasies of nuclear warfare and narratives of postapocalyptic rebirth **Poison in the Well** Jacob Darwin Hamblin, 2008-01-24 In the early 1990s Russian President Boris Yeltsin revealed that for the previous thirty years the Soviet Union had dumped vast amounts of dangerous radioactive waste into rivers and seas in blatant violation of international agreements The disclosure caused outrage throughout the Western world particularly since officials from the Soviet Union had denounced environmental pollution by the United States and Britain throughout the cold war *Poison in the Well* provides a balanced look at the policy decisions scientific conflicts public relations strategies and the myriad mishaps and subsequent cover ups that were born out of the dilemma of where to house deadly nuclear materials Why did scientists and politicians choose the sea for waste disposal How did negotiations about the uses of the sea change the way scientists government officials and ultimately the lay public envisioned the oceans Jacob Darwin Hamblin traces the development of the issue in Western countries from the end of World War II to the blossoming of the environmental movement in the early 1970s This is an important book for students and scholars in the history of science who want to



explore a striking case study of the conflicts that so often occur at the intersection of science politics and international diplomacy

*The Politics of International Intervention* Mandy Turner, Florian P. Kühn, 2015-09-16 This book critically explores the practices of peacebuilding and the politics of the communities experiencing intervention The contributions to this volume have a dual focus First they analyse the practices of western intervention and peacebuilding and the prejudices and politics that drive them Second they explore how communities experience and deal with this intervention as well as an understanding of how their political and economic priorities can often diverge markedly from those of the intervener This is achieved through theoretical and thematic chapters and an extensive number of in depth empirical case studies Utilising a variety of conceptual frameworks and disciplines the book seeks to understand why something so normatively desirable the pursuit of and building of peace has turned out so badly From Cambodia to Afghanistan Iraq to Mali interventions in the pursuit of peace have not achieved the results desired by the interveners But rather they have created further instability and violence The contributors to this book explore why This book will be of much interest to students academics and practitioners of peacebuilding peacekeeping international intervention statebuilding security studies and IR in general

*Taking on Technocracy* Dolores L. Augustine, 2021-09-17 The German abandonment of nuclear power represents one of the most successful popular revolts against technocratic thinking in modern times the triumph of a dynamic social movement encompassing a broad swath of West Germans as well as East German dissident circles over political economic and scientific elites Taking on Technocracy gives a brisk account of this dramatic historical moment showing how the popularization of scientific knowledge fostered new understandings of technological risk Combining analyses of social history popular culture social movement theory and histories of science and technology it offers a compelling narrative of a key episode in the recent history of popular resistance

*Nature and the Iron Curtain* Astrid Kirchhof, J. R. McNeill, 2019-06-05 In *Nature and the Iron Curtain* the authors contrast communist and capitalist countries with respect to their environmental politics in the context of the Cold War Its chapters draw from archives across Europe and the U S to present new perspectives on the origins and evolution of modern environmentalism on both sides of the Iron Curtain The book explores similarities and differences among several nations with different economies and political systems and highlights connections between environmental movements in Eastern and Western Europe

**Elemental Germans** Christoph Laucht, 2012-05-15 Christoph Laucht offers the first investigation into the roles played by two German born emigre atomic scientists Klaus Fuchs and Rudolf Peierls in the development of British nuclear culture especially the practice of nuclear science and the political implications of the atomic scientists work from the start of the Second World War until 1959

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