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5,89 m

15,3 m



# MEMO-2023

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DIAGRAM 1

After collision



DIAGRAM 2



# 13 June Physics Paper 1 Memorandum

**Patrick Vollmar**



### 13 June Physics Paper 1 Memorandum:

The Invisible Industrialist J. Gaudillière, 1998-07-13 Industrial methods and industrially produced instruments reagents and living organisms are central to research activities today They play a key role in the homogenization and the diffusion of laboratory practices thus in their transformation into a stable and unproblematic knowledge about the natural world This book displays the frequently invisible role of industry in the construction of fundamental scientific knowledge through the examination of case studies taken from the history of nineteenth and the twentieth century physics chemistry and biomedical sciences *Nuclear Science Abstracts*, 1972 Subject Index to Unclassified ASTIA Documents Defense Documentation Center (U.S.), 1960 **First Steps Toward Space** Frederick C. Durant, George S. James, 1974 **The Launching of Duke University, 1924-1949** Robert Franklin Durden, 1993 In this rich and authoritative history distinguished historian Robert F Durden tells the story of the formation of Duke University beginning with its creation in 1924 as a new institution organized around Trinity College As Durden reveals this narrative belongs first and foremost to Duke University's original President William Preston Few whose visionary leadership successfully launched the building of the first voluntarily supported research university in the South In focusing on Duke University's most formative and critical years its first quarter century Durden commemorates Few's remarkable successes while recognizing the painful realities and uncertainties of a young institution Made possible by a gift from James B Duke the wealthiest member of the family that had underwritten Trinity College since 1890 Duke University was organized with Few as president Few's goal was to turn Duke into a world class institution of higher education and these early years saw the development of much of what we know as Duke University today Drawing on extensive archival material culled over a ten year period Durden discusses the building of the Medical Center the rebuilding of the School of Law the acquisition of the Duke Forest and development of the School of Forestry the nurturing of the Divinity School and the enrichment of the Graduate School of Arts and Sciences It was also during this period as Durden details that such treasures as the Sarah P Duke Gardens were created as well as some near treasures as seen by the failed attempt to start an art museum Although the story of the birth of this University belongs largely to William Preston Few other people figure prominently and are discussed at length Alice Baldwin who led in the establishment of the Woman's College emerges as a fascinating figure as do William H Wannamaker James B Duke William Hanes Ackland Robert L Flowers Justin Miller and Wilburt Cornell Davison among others Although impressive growth occurred in Duke's formative years tensions also arose The need to strike an institutional balance between the twin demands of teaching and research of regional versus national status combined with continual shortages of funds created occasional obstacles The problem of two sets of trustees one for the university and another for the Duke Endowment loomed largest of all As Few himself said during these early years Duke successfully embarked on a long journey for it was not until after World War II that Duke University consolidated the growth begun in the inter war years An important contribution to the history of Southern higher education as well as to

Duke University this book will be of great interest to historians alumni and friends of Duke University alike      **Official Index to the Times**, 1920 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement      *Title Announcement Bulletin*, 1957      *Smithsonian Annals of Flight*, 1964      **Technical Information Pilot**, 1949      **Edward Condon's Cooperative Vision** Thomas C. Lassman, 2018-09-19 Born in 1902 Edward Condon made significant contributions to quantum theoretical physics Nearly ten years at Princeton University sealed his reputation as a leading figure in the field Then in 1937 he gave it all up to pursue an industrial career first at the Westinghouse Electric and Manufacturing Company and then by way of the federal government the National Bureau of Standards In a radical departure from professional norms Condon sought to redefine the relationship between academic science and technological innovation in industry He envisioned intimate cooperation with the universities to serve the needs of his employers and also the broader business community This book explores the birth life and death of that vision during the Great Depression World War II and the early Cold War Condon's cooperative model of R D evolved over time and by consequence laid bare sharp disagreements among academic corporate and government stakeholders about the practical value of new knowledge where and how it should be produced and ultimately on whose behalf it ought to be put to use      **Tunnel Visions** Michael Riordan, Lilian Hoddeson, Arienne W. Kolb, 2015-11-20 A detailed and engaging account of the development of the superconducting supercollider one of the largest scientific undertakings in the United States Journal of American History Starting in the 1950s US physicists dominated the search for elementary particles aided by the association of this research with national security they held this position for decades In an effort to maintain their hegemony and track down the elusive Higgs boson they convinced President Reagan and Congress to support construction of the multibillion dollar Superconducting Super Collider project in Texas the largest basic science project ever attempted But after the Cold War ended and the estimated SSC cost surpassed ten billion dollars Congress terminated the project in October 1993 Drawing on extensive archival research contemporaneous press accounts and over one hundred interviews with scientists engineers government officials and others involved Tunnel Visions tells the riveting story of the aborted SSC project The authors examine the complex interrelated causes for its demise including problems of large project management continuing cost overruns and lack of foreign contributions In doing so they ask whether Big Science has become too large and expensive including whether academic scientists and their government overseers can effectively manage such an enormous undertaking Focusing on the scientific technical and political conflicts that led to delays ever rising costs and eventually the SSC's cancellation by Congress Tunnel Visions is a true techno thriller Burton Richter winner of the Nobel Prize in Physics Most good science stories are tales of discovery and success but failure can be just as riveting Here two historians and an archivist describe the greatest particle physics experiment that never was Scientific American      **NASA and the Long Civil Rights Movement** Brian C. Odom, Stephen P. Waring, 2022-04-12

Examining the ways in which NASA's goal of space exploration both conflicted and aligned with the cause of racial equality this volume provides new insights into the complex relationship between the space program and the civil rights movement in the Jim Crow South and abroad      *Keywords Index to U.S. Government Technical Reports* United States. Department of Commerce. Office of Technical Services, 1963      *Air Service Information Circular* , 1923      *Monthly Catalogue, United States Public Documents* , 1970      *Creating the Cold War University* Rebecca S. Lowen, 1997-07-01 The cold war university is the academic component of the military industrial academic complex and its archetype according to Rebecca Lowen is Stanford University Her book challenges the conventional wisdom that the post World War II multiversity was created by military patrons on the one hand and academic scientists on the other and points instead to the crucial role played by university administrators in making their universities dependent upon military foundation and industrial patronage Contesting the view that the federal grant university originated with the outpouring of federal support for science after the war Lowen shows how the Depression had put financial pressure on universities and pushed administrators to seek new modes of funding She also details the ways that Stanford administrators transformed their institution to attract patronage With the end of the cold war and the tightening of federal budgets universities again face pressures not unlike those of the 1930s Lowen's analysis of how the university became dependent on the State is essential reading for anyone concerned about the future of higher education in the post cold war era      **Giant Telescopes** W. Patrick McCray, 2006-04-30 Every night astronomers use a new generation of giant telescopes at observatories around the world to study phenomena at the forefront of science By focusing on the history of the Gemini Observatory twin 8 meter telescopes located on mountain peaks in Hawaii and Chile *Giant Telescopes* tells the story behind the planning and construction of modern scientific tools offering a detailed view of the technological and political transformation of astronomy in the postwar era Drawing on interviews with participants and archival documents W Patrick McCray describes the ambitions and machinations of prominent astronomers engineers funding patrons and politicians in their effort to construct a modern facility for cutting edge science and to establish a model for international cooperation in the coming era of megascience His account details the technological institutional cultural and financial challenges that scientists faced while planning and building a new generation of giant telescopes Besides exploring how and why scientists embraced the promise and potential of new technologies he considers how these new tools affected what it means to be an astronomer McCray's book should interest anyone who desires a deeper understanding of the science technology and politics behind finding our place in the universe      **The Rocket Lab** Michael G. Smith, 2023-05-15 *The Rocket Lab* Maurice Zucrow Purdue University and *America's Race to Space* focuses on the golden era of space exploration between 1946 and 1966 specifically the life and times of Purdue University's Dr Maurice J Zucrow a pioneering teacher and researcher in aerospace engineering Zucrow taught America's first university course in jet and rocket propulsion wrote the field's first textbook and established the country's first educational Rocket Lab He was part of a

small circle of innovators who transformed Purdue into the country's largest engineering university which became a cradle of astronauts Taking a chronological and thematic approach *The Rocket Lab* weaves between the local and national drawing in rival universities especially Harvard MIT Princeton and Caltech Also covered is Zucrow's role in the national project system of research and development through World War II and the Cold War At Aerojet he was one of the country's original project engineers dedicated to scientific technical expertise and the stepwise approach He made vanguard power plant contributions to the Northrop Flying Wing as well as the Corporal Nike and Atlas missiles among others Zucrow's work in propulsion helped to improve the country's arsenal of ballistic missiles and space launchers and as a teacher he educated the first generation of aerospace engineers This book elevates Zucrow and the central role he played in getting the United States to space

*Scientists at War* Sarah Bridger, 2015-04-06 Sarah Bridger examines the ethical debates that tested the U.S. scientific community during the Cold War and scientists' contributions to military technologies and strategic policymaking from the dawning atomic age through the Strategic Defense Initiative Star Wars in the 1980s which sparked cross generational opposition among scientists

*Facing Asia* Daniel Oakman, 2010-10-01 No nation can escape its geography warned Percy Spender Australia's Minister for External Affairs in 1950 With the immediate turmoil of World War II over communism and decolonisation had ended any possibility that Asia could continue to be ignored by Australia In the early 1950s Australia embarked on its most ambitious attempt to engage with Asia the Colombo Plan This book examines the public and private agendas behind Australia's foreign aid diplomacy and reveals the strategic political and cultural aims that drove the Colombo Plan It examines the legacy of WWII how foreign aid was seen as crucial to achieving regional security how the plan was sold to Australian and Asian audiences and the changing nature of Australia's relationship with Britain and the United States Above all this is the question of how Australia sought to project itself into the region and how Asia was introduced into the Australian consciousness In answering these questions this book tells the story of how an insular society deeply scarred by the turbulence of war chose to face its regional future

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