



MILLIKAN'S SCHOOL

A HISTORY OF THE CALIFORNIA INSTITUTE OF TECHNOLOGY

JUDITH R. GOODSTEIN

Millikans School A History Of The California Institute Of Technology

Mark Wolverton



Millikans School A History Of The California Institute Of Technology:

Millikan's School: A History of the California Institute of Technology Judith Goodstein, 2020-10-19 In November 1891 wealthy former abolitionist and Chicago politician Amos Throop founded a thoroughly undistinguished small college in Pasadena California which he named after himself Millikan's School is the history of this institution that stands today at the pinnacle of world academics with 300 full time faculty nearly 1 000 undergraduate 1 250 graduate students and 39 Caltech and alumni Nobel Prize recipients Although Amos Throop the name of the college was changed to Caltech in 1920 could not have realized the importance of geography the fact that Pasadena lay at the foot of Mount Wilson was central to its success astronomer George Ellery Hale built his telescope there in 1902 the finest at that time in the world Later Hale joined the board of trustees of the struggling school and persuaded Arthur Amos Noyes former president of MIT and the nation's leading physical chemist to join him in Pasadena The third member of Caltech's founding troika was renowned physicist Robert A Millikan from the University of Chicago The dedication of Caltech in 1920 and the proclamation of what it stood for in science and education set the stage for Millikan who functioned as the school's president to bring the best and the brightest from all over the world Theodore von Kármán in aeronautics Thomas Hunt Morgan in biology Paul Dirac in physics Benoit Gutenberg in seismology Linus Pauling in chemistry to Pasadena to work in an ever larger number of areas in science and technology The book also covers the funding planning and construction of the 200 inch telescope on Palomar Mountain Willy Fowler's work in nuclear astrophysics and the wartime rocket experiments that grew into the Jet Propulsion Laboratory JPL today the world leader in deep space exploration Millikan's School presents an interesting and thoroughly reliable account of the astonishing change over a period of a few years of a small technical school in Pasadena California into one of the world's leading scientific institutions Linus Pauling In Millikan's School Judith Goodstein tells the remarkable story of the rise of Caltech She details how Millikan aided by Hale and Arthur Amos Noyes America's leading physical chemist and another of Hale's inspired acquisitions took a former trade school and forged from it a grandiose university among the orange groves It would be impossible while reading Goodstein's lively account not to be impressed by the energy drive and boundless enthusiasm of men like Millikan Hale and Noyes who had the bare faced audacity to set about building an institute to rival the cream of the universities of Europe and America Marcus Chown New Scientist Goodstein's story is first and foremost the tale of three men the astronomer George Ellery Hale the chemist Alfred Noyes and the physicist Robert Millikan It is the story of their attempts to transform an undistinguished little school founded in 1891 into a world class scientific establishment A useful book Tony Rothman Science In Millikan's School the story of Throop University's transformation into Caltech is told with precision Judith Goodstein's history offers a quick tour of the landmarks of science in the mid 20th Century and a glance at how pure science puts itself at the service of government commerce and the military Goodstein approaches her subject with a healthy sense of humor and an acute sense of academic politics She tells a wonderful story

about how Caltech lost to Princeton in a bidding war over the services of Albert Einstein for example To her credit Goodstein asks the hard question What is the best way to do science Millikan s School offers enough hard data to enable us to come to our own conclusions Jonathan Kirsch Los Angeles Times A cleanly written scientifically well informed account of one of the world s foremost institutions for science and technology Ed Regis Nature Relying on archival material published secondary sources and interviews with institute scientists Goodstein presents a highly readable account of Caltech s beginnings at the turn of the century substantive informative and a good read Rebecca S Lowen Technology and Culture As a history of science this book is well crafted Orderly in its flow it is not only a tribute to Millikan but also places him within the development of physics as a field Andrew Rolle Southern California Quarterly A fascinating history that speaks to issues far larger than Cal Tech itself This well written and honest account witness the many cited instances of anti-Semitism in the scientific world is both a good read and a sobering reminder that big science and top schools are not brought by storks Carroll Pursell History of Education Quarterly The author focuses on the personalities and the research fields of the principal scientific figures The emphasis on personalities and capsule surveys of relevant scientific fields produce a book that can be apprehended by a wide audience Roger Geiger Isis This chronicle offers glimpses of the passion and drive that have motivated a roster of distinguished scientists Publishers Weekly A lively tale Goodstein s individual profiles are lean and candid her background on subjects as diverse as nuclear astrophysics seismology aeronautical design quantum mechanics and rocket fuel are crisp and understandable With a light style and meticulous documentation Goodstein has produced a tale worthy of her subject Marshall Robinson Foundation News A distinguished and uniquely American institution has found its chronicler and its chronicle in Judith Goodstein s thorough but compact story of Millikan s School The emergence of Caltech as a powerhouse of science and engineering and a makeweight in the technological advancement of 20th century industry is both beautifully and reliably presented Harry Woolf Institute for Advanced Study Princeton University *With Stars in Their Eyes* James B. Breckinridge, Alec M. Pridgeon, 2022-04-29 This book details the lives of two married geniuses Aden and Marjorie Meinel who helped to pioneer modern optics and solar energy in the U S Aden B Meinel and Marjorie P Meinel stood at the confluence of several overarching technological developments during their lifetimes including postwar aerial surveillance by spy planes and satellites solar energy the evolution of telescope design interdisciplinary optics and photonics Yet their incredible stories and their long list of scientific contributions have never been adequately recognized in one place In this book James Breckinridge and Alec M Pridgeon correct this oversight by sharing the story of this powerful duo The book follows their lives and covers large scientific developments between World War II to the Cold War James B Breckinridge a previous advisee and later colleague to the Meinels and historian and scientist Alec M Pridgeon collected more than 200 hours of oral interviews with those who worked closely with the Meinels and some who built their careers around the findings made possible by their work The book shares and analyzes the work done by the Meinels and it also includes incredible insights from an

unpublished Meinel autobiography *Where Minds and Matters Meet* Volker Janssen, Amy Bix, Linda Nash, 2012-12-12 The American West where such landmarks as the Golden Gate Bridge rival wild landscapes in popularity and iconic significance has been viewed as a frontier of technological innovation Where Minds and Matters Meet calls attention to the convergence of Western history and the history of technology showing that the region's politics and culture have shaped seemingly placeless global technological practices and institutions Drawing on political and social history as well as art history the book's essays take the cultural measure of the region's great technological milestones including San Diego's Panama California Exposition the building of the Hetch Hetchy Dam in the Sierras and traffic planning in Los Angeles Contributors Amy Bix Louise Nelson Dyble Patrick McCray Linda Nash Peter Neushul Matthew W Roth Bruce Sinclair L Chase Smith Carlene Stephens Aristotle Tympas Jason Weems Peter Westwick Stephanie Young Science in the Early Twentieth Century Jacob Darwin Hamblin, 2005-03-08 The first A Z resource on the history of science from 1900 to 1950 examining the dynamic between science and the social political and cultural forces of the era Though many books have highlighted the great scientific discoveries of the early 1900s few have tackled the wider context in which these milestones were achieved Science in the Early Twentieth Century covers everything from quantum physics to penicillin and more including all the major scientific developments of the period detailing not only the scientists and their work but also the social and political forces that dominated the scientific agenda Over 200 A Z entries chronicle the landmark scientific discoveries and personalities of the period including such scientific giants as Albert Einstein and Marie Curie Placing science firmly within its cultural context this thoroughly researched accessible resource takes a uniquely interdisciplinary approach making it an invaluable text for scientists educators students and the general reader **Richter's Scale** Susan Elizabeth Hough, 2016-10-25 By developing the scale that bears his name Charles Richter not only invented the concept of magnitude as a measure of earthquake size he turned himself into nothing less than a household word He remains the only seismologist whose name anyone outside of narrow scientific circles would likely recognize Yet few understand the Richter scale itself and even fewer have ever understood the man Drawing on the wealth of papers Richter left behind as well as dozens of interviews with his family and colleagues Susan Hough takes the reader deep into Richter's complex life story setting it in the context of his family and interpersonal attachments his academic career and the history of seismology Among his colleagues Richter was known as intensely private passionately interested in earthquakes and iconoclastic He was an avid nudist seismologists tell each other with a grin he dabbled in poetry He was a publicity hound some suggest and more famous than he deserved to be But even his closest associates were unaware that he struggled to reconcile an intense and abiding need for artistic expression with his scientific interests or that his apparently strained relationship with his wife was more unconventional but also stronger than they knew Moreover they never realized that his well known foibles might even have been the consequence of a profound neurological disorder In this biography Susan Hough artfully interweaves the stories of Richter's

life with the history of earthquake exploration and seismology In doing so she illuminates the world of earth science for the lay reader much as Sylvia Nasar brought the world of mathematics alive in *A Beautiful Mind* **William H. Pickering** Douglas James Mudgway, 2007 From humble beginnings in a remote country town in New Zealand William Pickering became an icon for America's response to the Sputnik challenge alongside Wernher von Braun and James Van Allen *Science and Technology in the Global Cold War* Naomi Oreskes, John Krige, 2014-11-07 Investigations of how the global Cold War shaped national scientific and technological practices in fields from biomedicine to rocket science The Cold War period saw a dramatic expansion of state funded science and technology research Government and military patronage shaped Cold War technoscientific practices imposing methods that were project oriented team based and subject to national security restrictions These changes affected not just the arms race and the space race but also research in agriculture biomedicine computer science ecology meteorology and other fields This volume examines science and technology in the context of the Cold War considering whether the new institutions and institutional arrangements that emerged globally constrained technoscientific inquiry or offered greater opportunities for it The contributors find that whatever the particular science and whatever the political system in which that science was operating the knowledge that was produced bore some relation to the goals of the nation state These goals varied from nation to nation weapons research was emphasized in the United States and the Soviet Union for example but in France and China scientific independence and self reliance dominated The contributors also consider to what extent the changes to science and technology practices in this era were produced by the specific politics anxieties and aspirations of the Cold War Contributors Elena Aronova Erik M Conway Angela N H Creager David Kaiser John Krige Naomi Oreskes George Reisch Sigrid Schmalzer Sonja D Schmid Matthew Shindell Asif A Siddiqi Zuoyue Wang Benjamin Wilson *Societal Impact of Spaceflight* Steven J. Dick, 2007 *Strange Angel* George Pendle, 2006-02 Traces the life story of the rocket scientist whose work was dismissed after his accidental death revealed his occult beliefs discussing his contributions to rocketry and his participation in the occult community of 1930s Los Angeles [Splinters of Infinity](#) Mark Wolverton, 2024-03-12 The riveting story of a modern age scientific feud between two Nobel Prize winning scientists over the nature of cosmic rays and the universe Set in a revolutionary era of physics and science when a series of rapid fire discoveries was upending our understanding of the universe *Splinters of Infinity* by Mark Wolverton tells a little known story the tale of two of America's foremost physicists Robert Millikan 1868 1953 and Arthur Compton 1892 1962 who found themselves locked in an intense often deeply personal conflict about cosmic rays Confirmed in 1912 cosmic rays enigmatic forms of penetrating radiation seemed to raise all new questions about the origins of the universe but they also offered the potential to explain everything or reveal the existence of God In engaging accessible prose Wolverton takes the reader through the twists and turns of the Millikan Compton debate one of the first major public examples of how heated the controversies among scientists could become and the lengths that scientists would go to settle

their disputes What set them apart at least in most cases Wolverton shows was their ability to concentrate finally on what mattered the science Along the way Wolverton probes the forever elusive question still unanswered today about where cosmic rays come from and what they reveal about black holes distant galaxies the existence of dark matter and dark energy and the birth of the universe concluding that these splinters of infinity may not hold the keys to the secret of creation but do bring us ever closer to it

The Command of Light George Kean Sweetnam,2000 Henry Rowland 1848 1901 was one of the most important figures in the founding of modern physics in the U S A principal founder and first pres of the Amer Physical Soc he is best known for his invention of the concave spectral grating for which he won a gold medal and grand prize at the 1890 Paris Exposition A grad of Rensselaer Polytechnic Inst in civil engineering Rowland was prof of physics at Johns Hopkins Univ where he had the principal part in forming the first school of Amer physicists to be professionally trained in the U S In this vol Sweetnam using Rowland s papers and those of his colleagues and students has written the first scholarly exposition of Rowland s work

Thread Of The Silkworm Iris Chang,2008-08-06 The definitive biography of Tsien Hsue Shen the pioneer of the American space age who was mysteriously accused of being a communist deported and became to America s continuing chagrin the father of the Chinese missile program *Up from Generality* Jay A.

Labinger,2013-09-17 In this brief renowned inorganic chemist Jay Labinger tracks the development of his field from a forgotten specialism to the establishment of an independent intellectually viable discipline Inorganic chemistry with a negation in its very name was long regarded as that which was left behind when organic and physical chemistry emerged as specialist fields in the 19th century Only by the middle of the 20th century had it begun to gain its current stature of equality to that of the other main branches of chemistry The author discusses the evidence for this transition both quantitative and anecdotal and includes consideration of the roles of local and personal factors with particular focus on Caltech as an illustrative example This brief is of interest both to historians of science and inorganic chemists who would like to find out how their field began

The New Era in American Mathematics, 1920-1950 Karen Hunger Parshall,2022-02-22 The 1920s witnessed the birth of a serious mathematical research community in America Prior to this mathematical research was dominated by scholars based in Europe but World War I had made the importance of scientific and technological development clear to the American research community resulting in the establishment of new scientific initiatives and infrastructure Physics and chemistry were the beneficiaries of this renewed scientific focus but the mathematical community also benefitted and over time began to flourish Over the course of the next two decades despite significant obstacles this constellation of mathematical researchers programs and government infrastructure would become one of the strongest in the world In this meticulously researched book Karen Parshall documents the uncertain but ultimately successful rise of American mathematics during this time Drawing on research carried out in archives around the country and around the world as well as on the secondary literature she reveals how geopolitical circumstances shifted the course of international

mathematics She provides surveys of the mathematical research landscape in the 1920s 30s and 40s introduces the key players and institutions in mathematics at that time and documents the effect of the Great Depression and the second world war on the international mathematical community The result is a comprehensive account of the shift of mathematics center of gravity to the American stage

Constructing Scientific Understanding Through Contextual Teaching Peter Heering, Daniel Osewold, 2007-01-01 Learning by Doing is about the history of experimentation in science education The teaching of science through experiments and observation is essential to the natural sciences and its pedagogy These have been conducted as both demonstration or as student exercises The experimental method is seen as giving the student vital competence skills and experiences both at the school and at the university level This volume addresses the historical development of experiments in science education which has been largely neglected so far The contributors of Learning by Doing pay attention to various aspects ranging from economic aspects of instrument making for science teaching to the political meanings of experimental science education from the 17th to the 20th century This collected volume opens the field for further debate by emphasizing the importance of experiments for both historians of science and science educators

Enchantment Of Urania, The: 25 Centuries Of Exploration Of The Sky Massimo Capaccioli, 2024-03-19 Today we know much about the sky how stars are born how they live and die and how the universe as a whole evolves We have learned of the existence of another type of matter indifferent to light and yet decisive for the formation of galaxies and we have a hint of a dark energy that since the last 4 5 billion years has taken over the control of the cosmos We postulated and then discovered and even photographed black holes and listened to the faint rustle of the space time ripple produced when these monsters devour each other We reached these astonishing results recognized by a bunch of Nobel Prizes and filling every day the media with wonders for the eyes and the mind by the marriage of physics and astronomy that unified the Earth with the sky and then by the leap forward of science and technology in the Twentieth Century This rich heritage has ancient roots It was built by accumulating discoveries with errors observations with fantasies myths and superstitions with flashes of genius over a span of millennia since Homo sapiens turning his eyes to the immutable and perfect sky began to ask questions The book is a narration of the answers to these questions that had evolved over time a progressive path inserted in the general history with some second thoughts and many obstacles This is a saga of men and machines where greatness sometimes mixes with misery and passion often borders on sacrifice and even martyrdom Why should we know it Because our current knowledge is the result of these efforts and of the preconceptions that accompanied them The challenge has been to present this complex and intricate subject without resorting to any formulas so that it can be accessible to a wide audience of curious people including high school and university students and in general all those who normally keep themselves informed of scientific things A rich bibliography has also been added in the appendix for those wishing to learn more on one or more topics

Hap Arnold and the Evolution of American Airpower Dik

Daso,2022-09-20 Taught to fly by the Wright Brothers appointed the first and only five star general of the Air Force and remembered as the man who won World War II's air war Henry Harley Hap Arnold is one of the most significant figures in American aviation history Despite his legacy as an air pioneer little has been written about him In the thoroughly detailed Hap Arnold and the Evolution of American Airpower reprinted to celebrate the 75th anniversary of the United States Air Force biographer and former military officer Dik Alan Daso draws on primary sources like Arnold's personal papers and formerly declassified military documents to sketch out his incredible life and career Daso describes important technology institutions and individuals who influenced Arnold's decisions as a general and reveals how the peacetime experiences of World War II's foremost military airman shaped the evolution of American military aviation This biography captures the adventurous career dynamic personality and bold vision of the father of the Air Force *Golden Dreams* Kevin

Starr,2011-09-09 A narrative tour de force that combines wide ranging scholarship with captivating prose Kevin Starr's acclaimed multi volume *Americans and the California Dream* is an unparalleled work of cultural history In this volume Starr covers the crucial postwar period 1950 to 1963 when the California we know today first burst into prominence Starr brilliantly illuminates the dominant economic social and cultural forces in California in these pivotal years In a powerful blend of telling events colorful personalities and insightful analyses Starr examines such issues as the overnight creation of the postwar California suburb the rise of Los Angeles as Super City the reluctant emergence of San Diego as one of the largest cities in the nation and the decline of political centrism He explores the Silent Generation and the emergent Boomer youth cult the Beats and the Hollywood Rat Pack the pervasive influence of Zen Buddhism and other Asian traditions in art and design the rise of the University of California and the emergence of California itself as a utopia of higher education the cooling of West Coast jazz freeway and water projects of heroic magnitude outdoor life and the beginnings of the environmental movement More broadly he shows how California not only became the most populous state in the Union but in fact evolved into a mega state en route to becoming the global commonwealth it is today *Golden Dreams* continues an epic series that has been widely recognized for its signal contribution to the history of American culture in California It is a book that transcends its stated subject to offer a wealth of insight into the growth of the Sun Belt and the West and indeed the dramatic transformation of America itself in these pivotal years following the Second World War **Magnificent**

Mavericks Elizabeth Babcock,2008 *Sidewinder* Ron Westrum,2013-08-15 In the mid 1950s a small group of overworked underpaid scientists and engineers on a remote base in the Mojave Desert developed a weapon no one had asked for but everyone in the weapons industry desired This is the story of how that unorthodox team led by visionary Bill McLean overcame U S Navy bureaucracy and other more heavily funded projects to develop the world's best air to air missile Author Ron Westrum examines that special time and place when the old American work ethic and can do spirit were a vital part of U S weapons development to discover how this dedicated team was able to create a simple and inexpensive missile Today many

decades after its invention the Sidewinder missile is still considered one of the best that America has to offer In a time of billion dollar weapons development contracts astronomical cost overruns and defense acquisitions scandals this revealing highly readable tale about one of the most successful weapons in history should be of interest to anyone concerned with national security

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Table of Contents Millikans School A History Of The California Institute Of Technology

1. Understanding the eBook Millikans School A History Of The California Institute Of Technology
 - The Rise of Digital Reading Millikans School A History Of The California Institute Of Technology
 - Advantages of eBooks Over Traditional Books
2. Identifying Millikans School A History Of The California Institute Of Technology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Millikans School A History Of The California Institute Of Technology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Millikans School A History Of The California Institute Of Technology
 - Personalized Recommendations
 - Millikans School A History Of The California Institute Of Technology User Reviews and Ratings
 - Millikans School A History Of The California Institute Of Technology and Bestseller Lists
5. Accessing Millikans School A History Of The California Institute Of Technology Free and Paid eBooks
 - Millikans School A History Of The California Institute Of Technology Public Domain eBooks
 - Millikans School A History Of The California Institute Of Technology eBook Subscription Services
 - Millikans School A History Of The California Institute Of Technology Budget-Friendly Options
6. Navigating Millikans School A History Of The California Institute Of Technology eBook Formats

- ePub, PDF, MOBI, and More
 - Millikans School A History Of The California Institute Of Technology Compatibility with Devices
 - Millikans School A History Of The California Institute Of Technology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Millikans School A History Of The California Institute Of Technology
 - Highlighting and Note-Taking Millikans School A History Of The California Institute Of Technology
 - Interactive Elements Millikans School A History Of The California Institute Of Technology
 8. Staying Engaged with Millikans School A History Of The California Institute Of Technology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Millikans School A History Of The California Institute Of Technology
 9. Balancing eBooks and Physical Books Millikans School A History Of The California Institute Of Technology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Millikans School A History Of The California Institute Of Technology
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Millikans School A History Of The California Institute Of Technology
 - Setting Reading Goals Millikans School A History Of The California Institute Of Technology
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Millikans School A History Of The California Institute Of Technology
 - Fact-Checking eBook Content of Millikans School A History Of The California Institute Of Technology
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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