

# The Harvard College Observatory

The First Four Directorships, 1839-1919

BESSIE ZABAN JONES  
and  
LYLE GIFFORD BOYD



# The Harvard College Observatory The First Four Directorships 1839 1919

**Bessie Zaban Jones**



## **The Harvard College Observatory The First Four Directorships 1839 1919:**

*The Harvard College Observatory* Bessie Zaban Jones, 1971      **The Harvard College Observatory** Bessie Zaban Jones, Lyle Gifford Boyd, 2013-10 Since its founding in 1839 the Harvard College Observatory has pioneered in the development of modern astronomy Its first directors early recognized the potential of spectroscopy in revealing the constitution of the stars and of photography in determining the positions and motions of celestial objects the library of photographic plates made under their direction provides an invaluable history of the stellar universe for the period The Observatory also pioneered in using the talents of women several of whom became noted astronomers and their monumental classification of stars from spectral records constitutes a fundamental contribution to astronomical knowledge The authors vividly portray the genesis growth and achievements of a major scientific institution and its relations with other observatories Through the use of photographs and correspondence they also portray the men and women who played essential roles in the development of astronomy in the nineteenth and early twentieth centuries      **The Harvard College Observatory** Bessie Zaban Jones, Lyle Gifford Boyd, 1971 Since its founding in 1839 the Harvard College Observatory has pioneered in the development of modern astronomy Its first directors early recognized the potential of spectroscopy in revealing the constitution of the stars and of photography in determining the positions and motions of celestial objects the library of photographic plates made under their direction provides an invaluable history of the stellar universe for the period The Observatory also pioneered in using the talents of women several of whom became noted astronomers and their monumental classification of stars from spectral records constitutes a fundamental contribution to astronomical knowledge The authors vividly portray the genesis growth and achievements of a major scientific institution and its relations with other observatories Through the use of photographs and correspondence they also portray the men and women who played essential roles in the development of astronomy in the nineteenth and early twentieth centuries      **James E. Keeler: Pioneer American Astrophysicist** Donald E. Osterbrock, 2002-08-22 The biography of James E Keeler 1857 1900 the leading astronomical spectroscopist of his generation      Observing God William J. Astore, 2017-07-05 Scottish theologian educator astronomer and popularizer of science Thomas Dick 1774 1857 promoted a Christianized form of science to inhibit secularization to win converts to Christianity and to persuade evangelicals that science was sacred His devotional theology of nature made radical claims for cultural authority This book presents the first detailed analysis of his life and works After an extended biographical introduction Dick s theology of nature is examined within the context of natural theology and also his views on the plurality of worlds the nebular hypothesis and geology Other chapters deal with Dick s use of aesthetics to shape social behaviour for millennial purposes and with the publishing history of his works their availability and their reception In the final part the author explores Dick s influence in America His pacifism won him Northern evangelical supporters while his writings dominated the burgeoning field of popular science powerfully shaping science s cultural meaning and its uses

*Proceedings* Alan D. Fiala, Steven J. Dick, 1999      **Einstein's Clocks and Poincaré's Maps** Peter Galison, 2013-10-20

More than a history of science it is a tour de force in the genre New York Times Book Review A dramatic new account of the parallel quests to harness time that culminated in the revolutionary science of relativity Einstein's Clocks Poincaré's Maps is part history part science part adventure part biography part meditation on the meaning of modernity In Galison's telling of science the meters and wires and epoxy and solder come alive as characters along with physicists engineers technicians and others Galison has unearthed fascinating material New York Times Clocks and trains telegraphs and colonial conquest the challenges of the late nineteenth century were an indispensable real world background to the enormous theoretical breakthrough of relativity And two giants at the foundations of modern science were converging step by step on the answer Albert Einstein an young obscure German physicist experimenting with measuring time using telegraph networks and with the coordination of clocks at train stations and the renowned mathematician Henri Poincaré president of the French Bureau of Longitude mapping time coordinates across continents Each found that to understand the newly global world he had to determine whether there existed a pure time in which simultaneity was absolute or whether time was relative Esteemed historian of science Peter Galison has culled new information from rarely seen photographs forgotten patents and unexplored archives to tell the fascinating story of two scientists whose concrete professional preoccupations engaged them in a silent race toward a theory that would conquer the empire of time      Biographical Memoirs National Academy of

Sciences, 1994-01-01 Biographic Memoirs Volume 65 contains the biographies of deceased members of the National Academy of Sciences and bibliographies of their published works Each biographical essay was written by a member of the Academy familiar with the professional career of the deceased For historical and bibliographical purposes these volumes are worth returning to time and again      *Astronomers and Cosmologists* Dean Miller, 2014-01-01 In this book a breakdown of the life and work of some of history's pioneers in the study of astronomy and cosmology are thoroughly explored This volume provides excellent biographical sketches for trailblazers in the sciences Articles are devoted to specific scientists covering the contributions to their field specifically addressing how their research discoveries and inventions impacted human understanding and experience This historical review includes scientists from around the world and throughout the centuries with a chapter specifically devoted to the top scientific contributors of the 21st century      **Literature 1971, Part 2 S.**

Böhme, W. Fricke, U. Güntzel-Lingner, F. Henn, D. Krahn, U. Scheffer, G. Zech, 2013-11-11 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts

will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 6 contains literature published in 1971 and received before March 15 1972 some older literature which was received late and which is not recorded in earlier volumes is also included

**Minding the Heavens** Leila Belkora, 2002-12-01 Today we accept that we live on a planet circling the sun that our sun is just one of billions of stars in the galaxy we call the Milky Way and that our galaxy is but one of billions born out of the big bang Yet as recently as the early twentieth century the general public and even astronomers had vague and confused notions about what lay beyond

**Mask of the Sun** John Dvorak, 2017-03-07 What do Emily Dickinson slave revolts Babylonian Kings and Monticello all have in common A solar eclipse Whether it was deciding on the location of a grand home or castle inspiring poetry timing battles and revolts or planning expeditions eclipses have inspired fear and fascination Solar eclipses allowed Ptolemy to determine the length of the Mediterranean and helped Einstein establish his General Theory of Relativity Pre-literate societies recorded eclipses on turtle shells found in The Wastes of Yin and on the Mayan Dresden Codex Eclipses were later instrumental in the creation of longitude and allowed Hubble to understand the expansion of the Universe and disprove another theory of Einstein's in the process John Dvorak the acclaimed author of Earthquake Storms and The Last Volcano examines this amazing phenomena and reveals the humanism behind the science With insightful detail and vividly accessible prose he provides explanations as to how and why eclipses occur as well as insight into the eclipse of 2017 which was visible across North America

**Globalizing Polar Science** R. Launius, J. Fleming, D. DeVorkin, 2010-11-22 The International Polar Years and the International Geophysical Year represented a remarkable international collaborative scientific effort that has been largely neglected by historians This groundbreaking collection seeks to redress that neglect and illuminate critical aspects of the last 150 years of international scientific endeavour

**Selected Correspondence of William Huggins Vol 1** Barbara J Becker, 2024-10-28 William Huggins 1824-1910 was celebrated in his lifetime as the father of astrophysics The letters and observatory notebooks contained in this edition allow Huggins' important role in the development of astrophysics to fully emerge Material comes from archives around the world and is previously unpublished

**The Passionate Empiricist** Marlana Portolano, 2009-01-01 Explores John Quincy Adams's oratorical work in support of government-funded science This book introduces readers to the role that classical oratory played in changing early American attitudes about pure scientific research Marlana Portolano investigates the impact of John Quincy Adams's oratorical campaigns on the origins of government-funded science in America with a special focus on his classical theory of rhetorical engagement and civic duty In this age where so much government funding of science is based in the military-industrial complex it is fascinating to look at arguments for and against government funding of science at a time when such funding was not a given CHOICE

**A Scientist's Voice in American Culture** Albert E. Moyer, 1992-09-23 In late nineteenth century America Simon Newcomb was

the nation's most celebrated scientist and irascibly doggedly tirelessly he made the most of it Officially a mathematical astronomer heading a government agency Newcomb spent as much of his life out of the observatory as in it acting as a spokesman for the nascent but restive scientific community of his time Newcomb saw the scientific method as a potential guide for all disciplines and a basis for all practical action and argued passionately that it was of as much use in the halls of Congress as in the laboratory In so doing he not only sparked popular support for American science but also confronted a wide spectrum of social cultural and intellectual issues This first full length study of Newcomb traces the development of his faith in science and ranges over topics of great public debate in the Gilded Age from the reform of economic theory to the recasting of the debate between science and religion Moyer's portrait of a restless eager mind also illuminates the bustle of late nineteenth century America

Women Scientists in America Margaret W. Rossiter, 1982 Winner of the Berkshire Conference of Women Historians Prize In volume one of this landmark study focusing on developments up to 1940 Margaret Rossiter describes the activities and personalities of the numerous women scientists astronomers chemists biologists and psychologists who overcame extraordinary obstacles to contribute to the growth of American science This remarkable history recounts women's efforts to establish themselves as members of the scientific community and examines the forces that inhibited their active and visible participation in the sciences

Born in Cambridge Karen Weintraub, Michael Kuchta, 2022-05-03 Anne Bradstreet W E B Du Bois gene editing and Junior Mints cultural icons influential ideas and world changing innovations from Cambridge Massachusetts Cambridge Massachusetts is a city of firsts the first college in the English colonies the first two way long distance call the first legal same sex marriage In 1632 Anne Bradstreet living in what is now Harvard Square wrote one of the first published poems in British North America and in 1959 Cambridge based Carter's Ink marketed the first yellow Hi liter W E B Du Bois Julia Child Yo Yo Ma and Noam Chomsky all lived or worked in Cambridge at various points in their lives Born in Cambridge tells these stories and many others chronicling cultural icons influential ideas and world changing innovations that all came from one city of modest size across the Charles River from Boston Nearly 200 illustrations connect stories to Cambridge locations Cambridge is famous for being home to MIT and Harvard and these institutions play a leading role in many of these stories the development of microwave radar the invention of napalm and Robert Lowell's poetry workshop for example But many have no academic connection including Junior Mints Mount Auburn Cemetery the first garden cemetery and the public radio show Car Talk It's clear that Cambridge has not only a genius for invention but also a genius for reinvention and authors Karen Weintraub and Michael Kuchta consider larger lessons from Cambridge's success stories about urbanism the roots of innovation and nurturing the next generation of good ideas

**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

**When Computers Were Human** David Alan Grier, 2013-11-01 Before Palm Pilots and iPods PCs and laptops the term computer referred to the people who did scientific calculations by hand These workers were neither calculating geniuses nor idiot savants but knowledgeable people who in other circumstances might have become scientists in their own right When Computers Were Human represents the first in depth account of this little known 200 year epoch in the history of science and technology Beginning with the story of his own grandmother who was trained as a human computer David Alan Grier provides a poignant introduction to the wider world of women and men who did the hard computational labor of science His grandmother s casual remark I wish I d used my calculus hinted at a career deferred and an education forgotten a secret life unappreciated like many highly educated women of her generation she studied to become a human computer because nothing else would offer her a place in the scientific world The book begins with the return of Halley s comet in 1758 and the effort of three French astronomers to compute its orbit It ends four cycles later with a UNIVAC electronic computer projecting the 1986 orbit In between Grier tells us about the surveyors of the French Revolution describes the calculating machines of Charles Babbage and guides the reader through the Great Depression to marvel at the giant computing room of the Works Progress Administration When Computers Were Human is the sad but lyrical story of workers who gladly did the hard labor of research calculation in the hope that they might be part of the scientific community In the end they were rewarded by a new electronic machine that took the place and the name of those who were once the computers

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in his recent editorial in diseases of the colon and rectum about the status and future of robotic crs marecik noted that the technology has advanced significantly in the past few years 2019 62 9 1025 1027 its original use mostly as a tool for rectal surgery has expanded to the colon market which is now 4 times larger than the rectal

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robotic surgery for the treatment of rectal cancer is an emerging technique that can overcome some of the technical drawbacks posed by conventional laparoscopic approaches improving the scope and effect of radical operations

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dec 10 2020 robotic surgery represents a qualitative leap in surgical instruments and although there is no strong evidence in favor of the use of robotic surgery over laparoscopic or open surgery there is enough evidence to support its use in colorectal surgery with potential advantages for patients

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