

BOOK REVIEWS

Applications of a Beneficence

The Earth, the Heavens, and the Carnegie Institution of Washington. GREGORY A. GOOD, Ed. American Geophysical Union, Washington, DC, 1994. xiv, 252 pp., illus. \$42; also AGU members, \$29.40. History of Geophysics, vol. 5. Based on a conference, Washington, DC, June 1992.

But for the stubbornness of Andrew Carnegie and the influence of John S. Billings, the Carnegie Institution of Washington (CIW), founded in 1902 with a gift of \$10 million from Carnegie, might have been a national university rather than a private institution for the patronage and conduct of scientific research. This book deals mainly with the CIW's support of geomagnetic research, astronomy, and ionospheric studies. Biology under the CIW's umbrella, some of it studied recently by Sharon Kingsland and Joel Hagen, and oceanography are left to others.

In its early days, the second president of the institution, Robert S. Woodward, its executive council, and its board struggled with the conflict between supporting "the exceptional man" (the phrase was Carnegie's) and support for disciplinary research or research groups. Initially aloof from universities, the CIW inadvertently found itself supporting the research stables of eminent academics. The debate was lengthy, but within a few years the CIW was the mainstay of a number of prominent scientists working in established and developing disciplines, among them Vilhelm Bjerknes, Raphael Pumpelly, F. A. Vening Meinesz, George Ellery Hale, and T. C. Chamberlin. It also established a number of research departments, among them its Department of Terrestrial Magnetism (1904) and its Geophysical Laboratory (1906-1907), both still in existence after nine decades of distinguished work.

In contrast to earlier studies of the CIW by Nathan Reingold and Robert Kohler, which mainly dealt with the founding of the CIW and its conduct of patronage in science, this book deals with the science itself, centering on geophysics but ranging from archeology to meteorology. Its sections are focused on the foundation of the institution and the evolution of geophysics in the early 20th century; fieldwork and exper-

ditions; astronomy, notably the Mount Wilson Observatory; ionospheric studies; the CIW's research in other countries and at sea; geophysics after the Second World War, with emphasis on the influence of Merle Tuve; and bibliographic sources and resources relating to the CIW and to geophysics in general.

Inevitably, a book that ranges from hard-core history of science by recognized practitioners (among them Gregory Good, Ralph Jewell, Naomi Oreskes, Ronald Doel, R. S. Brashers, David DeVorkin, N. S. Hetherington, John Lankford, Owen Gingerich, C. Stewart Gillmor, Bruce Hevly, R. W. Home, H. E. LeGrand, and Thomas Cornell) to recollections by participants in the research will be uneven in style, format, and quality. Such is the case here. But the historical essays are of uniformly high quality and the recollections and interpretations of the participants add immediacy to this first concentrated account of the CIW's work in earth sciences.

Historians of geophysics will return to this volume frequently, partly because of its attention to sources: nearly every essay outlines the location and contents of its sources. The concluding section, Resources for Historical Research, outlines the strategy of archival collecting, describes the collections available at the CIW and elsewhere (the Huntington Library and the American Institute of Physics), and presents an album of photographs of CIW activities in the field and laboratory, all of high quality and historical interest.

I was intrigued especially by several of the essays. Good describes the uncertain status of geophysics in the early 20th century, its transition from data collection to topical and regional studies, and its struggle to win professional recognition separate from geodesy. Jewell will annoy social constructivists by his attention to Bjerknes's motives in providing a "grounding theory" of atmospheric motions. The CIW provided the justification of Bjerknes's attempt to give his theoretical work practical expression and the means by which it could be accomplished. Out of this came a series of unexpected advances in atmospheric and oceanic dynamics—and the Bergen school of meteorology.

Vening Meinesz's use of his new multi-

pendulum gravimeters in submarines at sea during the 1920s came at a time when the figure of the Earth and isostasy were under intense study and when Alfred Wegener's mobilism threatened to upset geological appercarts. Oreskes makes the case that Vening Meinesz's work was an important step in linking an applied science, geodesy, with theoretical geology; out of this and later developments came the new discipline of geophysics.

Doel examines expeditions, particularly those supported by CIW money, as "transient institutions," asking how expeditions are related to or may result in the permanent institutions of science. He asks interesting questions about the origins of expeditions, their results, their relation to laboratory science, their dependence on vehicles, and their use of imagery as artifact and as promotional device.

Big science such as astronomy required collaborative work as well as big bucks. Theoreticians and observational astronomers rubbed shoulders, often with distrust, and women edged into science as "computers" of the masses of data emanating from observatories such as Mount Wilson, which was established by Hale in 1904. A series of papers paints a picture of the complexity of activity at Mount Wilson, the establishment of a physics laboratory in the observatory, and the development of theoretical astrophysics.

Neither Mount Wilson nor the CIW's other departments could be independent of outside links. Hevly shows the complexity of research cooperation between the CIW's Department of Terrestrial Magnetism (DTM) and a government agency, the Naval Research Laboratory, in ionospheric studies. Rather than arriving at a common view of what was important, the two maintained their own approaches and independence despite exchanges of ideas, money, and instruments. The DTM had scientific enterprises in far-off places as well, undertaking surveys of geomagnetism in unstudied areas, including the oceans. Home's paper describes the colonial approach of the DTM to the establishment of a magnetic observatory in a remote part of Western Australia and how local initiative led to the evolution of the observatory from an outpost of a foreign power to a component of burgeoning Australian science 30 years later.

Merle Tuve, director of the DTM from 1946 into the 1960s, had a powerful influence on CIW science and was not afraid to swing his colleagues' work into areas he considered important. Tuve warned at first to paleomagnetic research. Then as it grew confusing he redirected the attention of his department to isotopic dating, as LeGrand

The Earth The Heavens And The Carnegie Institution Of Washington History Of Geophysics Vol 5

Nicola Mößner, Alfred Nordmann



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The Cambridge History of Science: Volume 5, The Modern Physical and Mathematical Sciences David C. Lindberg, Mary Jo Nye, Roy Porter, Ronald L. Numbers, 2003 A new and comprehensive examination of the history of the modern physical and mathematical sciences The Earth, the Heavens and the Carnegie Institution of Washington Gregory Good, 1994-01-10 Published by the American Geophysical Union as part of the History of Geophysics Series Volume 5 To reduce errors in geomagnetic measurements the research vessel Carnegie was specially constructed of non magnetic materials While refueling in Apia Harbor Samoa November 29 1929 an explosion occurred destroying the ship and taking the lives of Captain J P Ault and the ship s cabin boy In her 20 years Carnegie cruised 342 681 miles of the world s oceans Centennial History of the Carnegie Institution of Washington: Volume 3, The Geophysical Laboratory Louis Brown, 2004 For over a century the Geophysical Laboratory of the Carnegie Institution of Washington has witnessed exciting discoveries and ingenious research made possible by the scientific freedom granted to members of the department For the most part this research has involved laboratory experimentation on the physics and chemistry of rock forming minerals at high temperature and pressure This third volume in a series of five histories of the Carnegie Institution documents the contribution made by the members of the Geophysical Laboratory to our understanding of the Earth from mineral formation deep below the surface to the search for the origins of life and out into space to study the chemical evolution of the interstellar medium Field work has taken researchers from active volcanoes to ships collecting ocean sediments and geological mapping expeditions around the world Contemporary photographs throughout illustrate the evolution of the department and its research *Sciences of the Earth: A-G* Gregory Good, 1998 First published in 1998 Routledge is an imprint of Taylor Francis an informa company Probing the Sky with Radio Waves Chen-Pang Yeang, 2013-07-02 By the late nineteenth century engineers and experimental scientists generally knew how radio waves behaved and by 1901 scientists were able to manipulate them to transmit messages across long distances What no one could understand however was why radio waves followed the curvature of the Earth Theorists puzzled over this for nearly twenty years before physicists confirmed the zig zag theory a solution that led to the discovery of a layer in the Earth s upper atmosphere that bounces radio waves earthward the ionosphere In *Probing the Sky with Radio Waves* Chen Pang Yeang documents this monumental discovery and the advances in radio ionospheric propagation research that occurred in its aftermath Yeang illustrates how the discovery of the ionosphere transformed atmospheric science from what had been primarily an observational endeavor into an experimental science It also gave researchers a host of new theories experiments and instruments with which to better understand the atmosphere s constitution the origin of atmospheric electricity and how the sun and geomagnetism shape the Earth s atmosphere This book will be warmly welcomed by scholars of astronomy atmospheric science geoscience military and institutional history and the history and philosophy of science and technology as well as by radio amateurs and electrical engineers interested in historical

perspectives on their craft *Sciences of the Earth* Gregory A. Good, 2019-10-18 The planet as seen by its inhabitants In two millenia our knowledge of the planet and its natural laws and forces has undergone remarkable changes from the religious belief of earth as the center of the universe to the modern astronomers view that it is a mere speck in the cosmos Now a first of its kind reference work charts this remarkable intellectual progression in our evolving perception of the earth by surveying the history of geology geography geophysics oceanography meteorology space science and many other fields Covers human understanding of the Earth in various times and cultures The Encyclopedia traces our understanding of the earth and its functioning throughout history summarizing historical explanations of earthly occurrences including explanations with no scientific basis It presents the latest facts and theories explains how our understanding of the earth has evolved and shows why many outrageous and fanciful earlier ideas were accepted in their time The coverage explores the physical phenomena that inform our knowledge starting at the earth's core and extending outward through the mantle crust oceans and atmosphere to the magnetosphere and beyond Charts the evolution of our perceptions The primary focus of the Encyclopedia is the history of the study of the earth It also discusses the institutions that advanced and shaped science and probes the interplay between science practical applications and social and political forces The result is a unified historical overview of the earth across a wide canvas of time and place from antiquity to the space age Its wide ranging articles summarize subjects as diverse as geography and imperialism environmentalism computers and meteorology ozone formation theories since 1800 scientific rocketry the Scopes trial and much more Special Features Shows how diverse disciplines from geology to space science fit together in a coherent view of the earth Explains earlier ideas and theories in the context of the beliefs and scientific knowledge of their time Spotlights important institutions that have shaped the history of science Explores relationships between science practical applications and sociopolitical concerns Provides a subject index and an index of scientists with birth death dates Smithsonian Institution Secretary, Charles Doolittle Walcott Ellis Leon Yochelson, 2001 Geological Survey as secretary of the Smithsonian Institution as a founding member of the National Research Council and as president of the National Academy of Sciences **The History of Cartography, Volume 6** Mark Monmonier, 2015-05-18 For more than thirty years the History of Cartography Project has charted the course for scholarship on cartography bringing together research from a variety of disciplines on the creation dissemination and use of maps Volume 6 Cartography in the Twentieth Century continues this tradition with a groundbreaking survey of the century just ended and a new full color encyclopedic format The twentieth century is a pivotal period in map history The transition from paper to digital formats led to previously unimaginable dynamic and interactive maps Geographic information systems radically altered cartographic institutions and reduced the skill required to create maps Satellite positioning and mobile communications revolutionized wayfinding Mapping evolved as an important tool for coping with complexity organizing knowledge and influencing public opinion in all parts of the globe and at all levels of society Volume 6 covers these changes comprehensively while thoroughly

demonstrating the far reaching effects of maps on science technology and society and vice versa The lavishly produced volume includes more than five hundred articles accompanied by more than a thousand images Hundreds of expert contributors provide both original research often based on their own participation in the developments they describe and interpretations of larger trends in cartography Designed for use by both scholars and the general public this definitive volume is a reference work of first resort for all who study and love maps

Encyclopedia of Geomagnetism and Paleomagnetism David Gubbins, Emilio Herrero-Bervera, 2007-07-19 Understanding the process underlying the origin of Earth magnetic field is one of the greatest challenges left to classical Physics Geomagnetism being the oldest Earth science studies the Earth's magnetic field in its broadest sense The magnetic record left in rocks is studied in Paleomagnetism Both fields have applications pure and applied in navigation in the search for minerals and hydrocarbons in dating rock sequences and in unraveling past geologic movements such as plate motions they have contributed to a better understanding of the Earth Consisting of more than 300 articles written by ca 200 leading experts this authoritative reference encompasses the entire fields of Geomagnetism and Paleomagnetism in a single volume It describes in fine detail at an assessable level the state of the current knowledge and provides an up to date synthesis of the most basic concepts As such it will be an indispensable working tool not only for geophysicists and geophysics students but also for geologists physicists atmospheric and environmental scientists and engineers

Reasoning in Measurement Nicola Mößner, Alfred Nordmann, 2017-03-16 This collection offers a new understanding of the epistemology of measurement The interdisciplinary volume explores how measurements are produced for example in astronomy and seismology in studies of human sexuality and ecology in brain imaging and intelligence testing It considers photography as a measurement technology and Henry David Thoreau's poetic measures as closing the gap between mind and world By focusing on measurements as the hard won results of conceptual as well as technical operations the authors of the book no longer presuppose that measurement is always and exclusively a means of representing some feature of a target object or entity Measurement also provides knowledge about the degree to which things have been standardized or harmonized it is an indicator of how closely human practices are attuned to each other and the world

The Nordic Seas Helge Drange, 2005-01-14 Published by the American Geophysical Union as part of the Geophysical Monograph Series Volume 158 The world's largest positive temperature deviation from zonal mean temperatures lies within the realm of the Nordic Seas comprising bodies of water variously referred to as the Norwegian Sea the Iceland Sea and the Greenland Sea Its role as a mixing cauldron for waters entering from the North Atlantic and the Arctic Oceans and its function as a major source of deep and abyss water make our understanding of the Nordic Seas a crucial element in advancing the knowledge of climate dynamics in the Northern Hemisphere In this context its small extent covering only 0.75% of the area of the world's oceans and its unique location which allows for accessibility and detailed exploration are of special significance The current book speaks to that significance specifically and also to assessing the

region's present and future response to and influence on global climate change. It is the first such work since B G Hurdle's groundbreaking *The Nordic Seas* published in 1986.

Science on a Mission Naomi Oreskes, 2021-04-19 A vivid portrait of how Naval oversight shaped American oceanography revealing what difference it makes who pays for science. What difference does it make who pays for science? Some might say none. If scientists seek to discover fundamental truths about the world and they do so in an objective manner using well established methods then how could it matter who's footing the bill? History however suggests otherwise. In science as elsewhere money is power. Tracing the recent history of oceanography Naomi Oreskes discloses dramatic changes in American ocean science since the Cold War uncovering how and why it changed. Much of it has to do with who pays. After World War II the US military turned to a new uncharted theater of warfare the deep sea. The earth sciences particularly physical oceanography and marine geophysics became essential to the US Navy which poured unprecedented money and logistical support into their study. *Science on a Mission* brings to light how this influx of military funding was both enabling and constricting it resulted in the creation of important domains of knowledge but also significant lasting and consequential domains of ignorance. As Oreskes delves into the role of patronage in the history of science what emerges is a vivid portrait of how naval oversight transformed what we know about the sea. It is a detailed sweeping history that illuminates the ways funding shapes the subject scope and tenor of scientific work and it raises profound questions about the purpose and character of American science. What difference does it make who pays? The short answer is a lot.

Proceedings, American Philosophical Society (vol. 140, No. 4, 1996) , **History of Oceanography** , 1989 [SEA KNOWS NO BOUNDARIES \(cl\)](#) Helen M. Rozwadowski, 2002 **Earth Sciences History** , 2003 *First World War, the Universities and the Professions in Australia 1914-1939* Kate Darian-Smith, James Waghorne, 2019-02-19 Australia's extraordinary contribution to World War I extended well beyond its military forces to the expertise of its universities and professional men and women. Scientists and engineers oversaw the manufacture of munitions and the development of chemical weapons. Doctors sustained soldiers in the trenches and treated the physically and psychologically damaged. Public servants, lawyers and translators were employed in the war bureaucracy while artists and writers found new modes to convey the trauma of war. The graduates and staff of Australia's six universities Sydney Melbourne Adelaide Tasmania Queensland and Western Australia and Queensland were involved in this expansion of expertise. But what did these men and women do after the guns were silenced? How were the professions and universities transformed by the immediate and longer term impacts of the war? *The First World War the Universities and the Professions* examines how the technical and conceptual advances that occurred during World War I transformed Australian society. It traces the evolving role of universities and their graduates in the 1920s and 1930s the increasing government validation of research the expansion of the public service and the rise of modern professional associations and international networks. While the war contributed to greater specialisations in traditional professions such as teaching or medicine it also stimulated

new jobs and training whether in economics anthropology or graphic art This volume provides a new account of the interwar years that places knowledge and expertise at the heart of the Australian story Its four sections The Medical Sciences Science and Technology Humanities Social Sciences and Teaching and The Arts Design Music and Writing highlight how World War I disrupted and shaped the careers of individuals as well as the development of Australian society and institutions

Philanthropy and the Future of Science and Technology Evan S. Michelson, 2020-06-14 An increasingly important and often overlooked issue in science and technology policy is recognizing the role that philanthropies play in setting the direction of research In an era where public and private resources for science are strained the practices that foundations adopt to advance basic and applied research needs to be better understood This first of its kind study provides a detailed assessment of the current state of science philanthropy This examination is particularly timely given that science philanthropies will have an increasingly important and outsized role to play in advancing responsible innovation and in shaping how research is conducted *Philanthropy and the Future of Science and Technology* surveys the landscape of contemporary philanthropic involvement in science and technology by combining theoretical insights drawn from the responsible research and innovation RRI framework with empirical analysis investigating an array of detailed examples and case studies Insights from interviews conducted with foundation representatives scholars and practitioners from a variety of sectors add real world perspective A wide range of philanthropic interventions are explored focusing on support for individuals institutions and networks with attention paid to the role that science philanthropies play in helping to establish and coordinate multi sectoral funding partnerships Novel approaches to science philanthropy are also considered including the emergence of crowdfunding and the development of new institutional mechanisms to advance scientific research The discussion concludes with an imaginative look into the future outlining a series of lessons learned that can guide how new and established science philanthropies operate and envisioning alternative scenarios for the future that can inform how science philanthropy progresses over the coming decades This book offers a major contribution to the advancement of philanthropic investment in science and technology Thus it will be of considerable interest to researchers and students in public policy public administration political science science and technology studies sociology of science and related disciplines

Charles Doolittle Walcott, Paleontologist Ellis Leon Yochelson, 1998 This biography of geologist Charles Doolittle Walcott 1850 1927 documents his career and life from birth to his retirement from the US Geological Survey in 1907 when he became Secretary of the Smithsonian Institution *Atmospheric Science at NASA* Erik M.

Conway, 2008-12-08 Honorable Mention 2008 ASLI Choice Awards Atmospheric Science Librarians International This book offers an informed and revealing account of NASA s involvement in the scientific understanding of the Earth s atmosphere Since the nineteenth century scientists have attempted to understand the complex processes of the Earth s atmosphere and the weather created within it This effort has evolved with the development of new technologies from the first instrument

equipped weather balloons to multibillion dollar meteorological satellite and planetary science programs Erik M Conway chronicles the history of atmospheric science at NASA tracing the story from its beginnings in 1958 the International Geophysical Year through to the present focusing on NASA's programs and research in meteorology stratospheric ozone depletion and planetary climates and global warming But the story is not only a scientific one NASA's researchers operated within an often politically contentious environment Although environmental issues garnered strong public and political support in the 1970s the following decades saw increased opposition to environmentalism as a threat to free market capitalism Atmospheric Science at NASA critically examines this politically controversial science dissecting the often convoluted roles motives and relationships of the various institutional actors involved among them NASA congressional appropriation committees government weather and climate bureaus and the military

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