

# SELECTIONS FROM THE SCIENTIFIC CORRESPONDENCE OF ELIHU THOMSON

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EDITED BY  
HAROLD J. ASHMAN AND MARION B. SAYRE

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# Selections From The Scientific Correspondence Of Elihu Thomson

**Jonathan Coopersmith**



## **Selections From The Scientific Correspondence Of Elihu Thomson:**

**Selections from the Scientific Correspondence of Elihu Thomson** Elihu Thomson, 1853-1937 was one of the most inventive scientists of his time and one of the few truly scientific inventors. Because he saw no reason for making sharp separations between the pure and the applied between science and technology he was able to illuminate each aspect of his work with the light of his experience in the other. The result as his correspondence confirms was a progressive reaching out into numerous areas some far removed from the electrical studies on which his fame has chiefly rested. This collection of letters on scientific topics both to and from Thomson displays his interest in and knowledge of astronomy telescope making physical chemistry x ray studies the history of science industrial research and production scientific education military and naval armament acoustics air pollution noise abatement and other matters. His electrical and electromechanical interests are of course well represented in this selection. These areas the reader will in large part be able to match against the well known scientists and inventors among those included in the book who shared concerns and exchanged letters with Thomson: Sir William H Bragg, William D Coolidge, R E B Crompton, Thomas A Edison, George E Hale, Irving Langmuir, Robert A Millikan, Michael I Pupin, George W Ritchey, George A Sarton, Harlow Shapley, Samuel W Stratton and Willis R Whitney. Thomson is credited with almost 800 electrical inventions. The process by which some of these were made are revealed in his letters in discussing generators, arc lights, measuring instruments, transformers and other implements. Other letters reflect the rise of his company which merged with Edison's to become the General Electric Company. It is of interest that Thomson chose to remain at General Electric all his life as a consultant even though he could have had almost any academic post he desired including the M I T presidency. Thomson was in fact an early advocate of the value of in house industrial support of scientific activity of a sort transcending narrow and obvious self interest such support he felt would mutually benefit both science and industry. Some of the most interesting of the letters deal with his advice to Hale and others on the making of the great 100 and 200 inch telescope mirrors. Others describe how as a young Philadelphia high school teacher he was able to produce electromagnetic waves and detect them at a distance some twelve years before the experiments of Hertz. At that time he realized their utility as a medium of communication twenty years before Marconi's successful transmissions. Thomson's letters to and from each correspondent are grouped together in order to show with greater continuity the development of Thomson's warm personal relationships and the unfolding of ideas and results in the various fields. The editors have provided an introduction, biographical accounts and annotations. The latter are extensive and varied in nature comprising explanations, anecdotes, commentaries and identifications of now obscure references.

**Selections from the Scientific Correspondence of Elihu Thomson** Harold J. Abrahams, Marion B. Savin, 2003-02-01 Elihu Thomson 1853-1937 was one of the most inventive scientists of his time and one of the few truly scientific inventors. Because he saw no reason for making sharp separations between the pure and the applied between science and technology

he was able to illuminate each aspect of his work with the light of his experience in the other The result as his correspondence confirms was a progressive reaching out into numerous areas some far removed from the electrical studies on which his fame has chiefly rested This collection of letters on scientific topics both to and from Thomson displays his interest in and knowledge of astronomy telescope making physical chemistry x ray studies the history of science industrial research and production scientific education military and naval armament acoustics air pollution noise abatement and other matters His electrical and electromechanical interests are of course well represented in this selection These areas the reader will in large part be able to match against the well known scientists and inventors among those included in the book who shared concerns and exchanged letters with Thomson Sir William H Bragg William D Coolidge R E B Crompton Thomas A Edison George E Hale Irving Langmuir Robert A Millikan Michael I Pupin George W Ritchey George A Sarton Harlow Shapley Samuel W Stratton and Willis R Whitney Thomson is credited with almost 800 electrical inventions The process by which some of these were made are revealed in his letters in discussing generators arc lights measuring instruments transformers and other implements Other letters reflect the rise of his company which merged with Edison s to become the General Electric Company It is of interest that Thomson chose to remain at General Electric all his life as a consultant even though he could have had almost any academic post he desired including the M I T presidency Thomson was in fact an early advocate of the value of in house industrial support of scientific activity of a sort transcending narrow and obvious self interest such support he felt would mutually benefit both science and industry Some of the most interesting of the letters deal with his advice to Hale and others on the making of the great 100 and 200 inch telescope mirrors Others describe how as a young Philadelphia high school teacher he was able to produce electromagnetic waves and detect them at a distance some twelve years before the experiments of Hertz At that time he realized their utility as a medium of communication twenty years before Marconi s successful transmissions Thomson s letters to and from each correspondent are grouped together in order to show with greater continuity the development of Thomson s warm personal relationships and the unfolding of ideas and results in the various fields The editors have provided an introduction biographical accounts and annotations The latter are extensive and varied in nature comprising explanations anecdotes commentaries and identifications of now obscure references

**Selections from the Scientific Correspondence of Elihu Thomson**, 1971\* Innovation as a Social Process W. Bernard Carlson, 2003-02-13 Elihu Thomson was a late nineteenth century American inventor who helped create the first electric lighting and power systems One of the most prolific inventors in American history Thomson was granted nearly 700 patents in a career spanning the 1880s to 1930s Steinmetz: Engineer and Socialist Ronald R. Kline, 2019-12-12 When Charles Proteus Steinmetz 1865 1923 died suddenly at the height of his fame his face was as familiar to Americans as that of Babe Ruth Henry Ford or Jack Dempsey Newspapers quoted his views on religion politics he was a Socialist science and future technological wonders All were intrigued by the Horatio Alger tale of the penniless hunchbacked German

immigrant who rose to fame as the Wizard of Science chief engineer at General Electric and symbol of the new breed of scientists who daily surpassed the feats of Thomas Alva Edison This intellectual biography follows Steinmetz from his education in Germany to his rise as General Electric s chief consulting engineer Steinmetz obtained nearly 200 patents he made his most important contributions in electrical energy loss or hysteresis the understanding and wider use of alternating current and high voltage power transmission General Electric became Steinmetz s home his identity and a platform from which he stepped onto the wider stage of world affairs As leader of the American Institute of Electrical Engineers Socialist councilman in Schenectady New York and part time professor at Union College Steinmetz attempted to engineer society in the direction of a technocratic utopia by promoting welfare capitalism Lenin s electrification of the Soviet Union and other schemes all with limited success In a life filled with contrasts perhaps even Steinmetz himself a prominent Socialist serving as chief engineer of a major corporation was not always able to separate the myth from the man Steinmetz Engineer and Socialist was the subject of the 2014 PBS documentary film *Divine Discontent* Well informed by recent studies of similar mythologizing Kline explains both the rise and decline of Steinmetz s popular reputation Robert Friedel Science Kline s explanations are lucid and he offers broader insights about science and technology that will interest all cultural historians Mark Pittenger *Journal of American History* Steinmetz not only provides the first comprehensive technically sophisticated analysis of Steinmetz s engineering achievements but also carefully examines his influential political and social writings and judiciously dissects the making of the Wizard of Schenectady legend David Sicilia *Reviews in American History* *The Electrification of Russia, 1880-1926* Jonathan Coopersmith, 2016-11-01 The Electrification of Russia 1880 1926 is the first full account of the widespread adoption of electricity in Russia from the beginning in the 1880s to its early years as a state technology under Soviet rule Jonathan Coopersmith has mined the archives for both the tsarist and the Soviet periods to examine a crucial element in the modernization of Russia Coopersmith shows how the Communist Party forged an alliance with engineers to harness the socially transformative power of this science based enterprise A centralized plan of electrification triumphed to the benefit of the Communist Party and the detriment of local governments and the electrical engineers Coopersmith s narrative of how this came to be elucidates the deep seated and chronic conflict between the utopianism of Soviet ideology and the reality of Soviet politics and economics

**Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1973 *The Power Makers* Maury Klein, 2010-09-01 Maury Klein is one of America s most acclaimed historians of business and society In *The Power Makers* he offers an epic narrative of his greatest subject yet the power revolution that transformed American life in the course of the nineteenth century The steam engine the incandescent bulb the electric motor inventions such as these replaced backbreaking toil with machine labor and changed every aspect of daily life in the span of a few generations The cast of characters includes inventors like James Watt Elihu Thomson and Nikola Tesla entrepreneurs like George Westinghouse savvy businessmen like J P Morgan Samuel Insull and

Charles Coffin of General Electric Striding among them like a colossus is the figure of Thomas Edison who was creative genius and business visionary at once With consummate skill Klein recreates their discoveries their stunning triumphs and frequent failures and their unceasing bare knuckled battles in the marketplace In Klein s hands their personalities and discoveries leap off the page The Power Makers is a dazzling saga of inspired invention dogged persistence and business competition at its most naked and cutthroat a biography of America in its most astonishing decades Willis R. Whitney, General Electric and the Origins of U.S. Industrial Research George Wise, 2020-01-21 Born in Jamestown New York Willis R Whitney 1868 1958 was the longtime director of General Electric s Research Laboratory and is widely considered one of the fathers of industrial research He graduated from MIT in 1890 to become assistant professor of chemistry there In 1896 he received his Ph D from the University of Leipzig under Wilhelm Ostwald Having grown dissatisfied with purely academic work he jumped at the opportunity provided by Elihu Thompson in 1900 to become director of the newly created GE Research Laboratory The laboratory was to be devoted exclusively to original research It is hoped a 1902 report stated that many profitable fields may be discovered and so it was when Whitney took over GE needed more economical lamp filaments and the laboratory developed a new form of metallized carbon which gave 25% more light for the same wattage the first radical improvement in Edison s incandescent carbon filament Millions of the new lamps were sold in a single year The laboratory s many other contributions include the tungsten lamp several applications for wrought tungsten replacing platinum targets in X ray tubes and platinum contacts in spark coils magnetos and relays and the Coolidge X ray tube in a wide range of sizes Whitney s broad scientific knowledge ability as a chemist and resourcefulness as an experimenter lay the basis for all the work of the laboratory He stepped down as director in 1932 He was a member of numerous institutions including the American Institute of Electrical Engineers American Society of Electrochemical Engineers National Academy of Sciences British Institute of Metals and National Research Council and he received many honors such as the Willard Gibbs Medal in 1920 the Perkin Medal in 1921 the Gold Medal of the National Institute of Social Sciences in 1928 and the AIEE Edison Medal in 1934 for his contributions to electrical science his pioneer inventions and his inspiring leadership in research Whitney invented modern industrial research George Wise re creates much of the anxiety and excitement of the decades when business discovered science and vice versa David Diamond The New York Times Wise has not simply written biography and a story of the research laboratory at General Electric but also a great deal of General Electric history and history of technology as well The author s technical and scientific presentations are generally lucid and accessible to the layperson Martha M Trescott Journal of Economic History A book of many strengths Most immediately apparent is the very high quality of the writing As a skilled biographer Wise succeeds in bringing the reader into the life of an interesting and important individual Wise does not neglect the personal side of Whitney s life including his unhappy family situation and his personal illnesses The primary focus however is on his work at GE work the author expertly fits into broader patterns of

science industry and society in early twentieth century America James H Madison *Journal of American History* A thoroughly researched and lucidly written book Wise's book makes important contributions to the understanding of the origins of industrial research and the development of science in the American context John K Smith *Technology and Culture* George Wise effectively develops the foundation for an interesting and in depth view of a man who made an outstanding contribution to industrial research while at the same time suffering personal disappointments and fighting a continuing battle with recurring mental depression Wise's book is warm personal and rich in historical background it provides a view into the life of the individual who set the stage for industrial research in America Alfred A Bolton *Academy of Management Review* An important book Wise's portrayal of Whitney is acute and sensitive Moreover it demonstrates that the depiction of industrial scientists as either alienated and unhappy academics in exile or mindless minions of the giant corporation is overly simple Wise has produced a first rate study of a pioneering establishment that should be read by anyone interested in the crucial relationships between science and modern industry Larry Owens *Business History Review* A turning point in the long neglected history of industrial research Not merely outstanding a definitive work that establishes critical standards for future research in this field beautifully crafted a sensitive and insightful biography of Willis R Whitney Edwin T Lawton Jr Isis Wise has accomplished perhaps the most difficult task before any biographer successfully connecting his subject's historical significance with the deeper elements of his humanity This humanity is described with a biographer's sympathy and a historian's sophistication Wise writes with sympathy and often charm drawing not only from substantial archival records but also from dozens of interviews carried out with Whitney's associates and workers This biography will not only be the standard study of Whitney but it will also provide a useful model and guide for all students of the key institutions of modern science Robert Friedel *British Journal for the History of Science*

**Literature 1972, Part 2** S. Böhme, W. Fricke, U. Güntzel-Lingner, F. Henn, D. Krahn, U. Scheffer, G. Zech, 2013-04-18 *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 8 contains literature published in 1972 and received before March 15 1973 some older literature which was received late and which is not recorded in earlier volumes is also included

*Meteorite Craters* Kathleen Mark, 1995-09-01 The scientific community has argued for decades over the origin of giant craters on the earth In a highly readable fashion Kathleen Mark

recounts the fascinating detective story of how scientists came to recognize meteorite craters both ancient and relatively recent

**Wizard:** Marc Seifer, 2011-10-24 The story of one of the most prolific independent and iconoclastic inventors of this century fascinating Scientific American Nikola Tesla 1856 1943 credited as the inspiration for radio robots and even radar has been called the patron saint of modern electricity Based on original material and previously unavailable documents this acclaimed book is the definitive biography of the man considered by many to be the founding father of modern electrical technology Among Tesla's creations were the channeling of alternating current fluorescent and neon lighting wireless telegraphy and the giant turbines that harnessed the power of Niagara Falls This essential biography is illustrated with sixteen pages of photographs including the July 20 1931 Time magazine cover for an issue celebrating the inventor's career A deep and comprehensive biography of a great engineer of early electrical science likely to become the definitive biography Highly recommended American Association for the Advancement of Science Seifer's vivid revelatory exhaustively researched biography rescues pioneer inventor Nikola Tesla from cult status and restores him to his rightful place as a principal architect of the modern age Publishers Weekly Starred Review Wizard brings the many complex facets of Tesla's personal and technical life together in to a cohesive whole I highly recommend this biography of a great technologist A A Mullin U S Army Space and Strategic Defense Command COMPUTING REVIEWS Along with A Beautiful Mind one of the five best biographies written on the brilliantly disturbed WALL STREET JOURNAL Wizard is a compelling tale presenting a teeming vivid world of science technology culture and human lives

*American Studies* Jack Salzman, American Studies Association, 1986-08-29 This is an annotated bibliography of 20th century books through 1983 and is a reworking of American Studies An Annotated Bibliography of Works on the Civilization of the United States published in 1982 Seeking to provide foreign nationals with a comprehensive and authoritative list of sources of information concerning America it focuses on books that have an important cultural framework and does not include those which are primarily theoretical or methodological It is organized in 11 sections anthropology and folklore art and architecture history literature music political science popular culture psychology religion science technology medicine and sociology Each section contains a preface introducing the reader to basic bibliographic resources in that discipline and paragraph length non evaluative annotations Includes author title and subject indexes ISBN 0 521 32555 2 set 150 00

**The Publishers Weekly**, 1972

**Prior Art** Peter H. Christensen, 2024-05-07 A groundbreaking text on the history of the use of patents in architecture Although patents existed in Renaissance Italy and even in Confucian thought it was not until the middle third of the nineteenth century that architects embraced the practice of patenting in significant numbers Patents could ensure as they did for architects engineering brethren the economic and cultural benefits afforded by exclusive intellectual property rights But patent culture was never directly translatable to the field of architecture which tended to negotiate issues of technological innovation in the context of the more abstract issues of artistic influence and formal expression In Prior Art scholar Peter Christensen offers



the first full scale monographic treatment of this complex relationship between art and invention Christensen's method a site oriented approach steeped in multinational and multilingual archival work is geared toward unifying fractured global histories of architectural patents through the distinct union of architectural cultural and legal history Prior Art offers a record of the marriage of intellectual property and architectural invention a momentous understudied and still underutilized aspect of architectural culture in the nineteenth and twentieth centuries and the ways in which it influenced how buildings are conceived designed engineered constructed and promoted

**Suffering For Science** Rebecca Herzig, 2005-10-17 From gruesome self experimentation to exhausting theoretical calculations stories abound of scientists willfully surrendering health well being and personal interests for the sake of their work What accounts for the prevalence of this coupling of knowledge and pain and for the peculiar assumption that science requires such suffering In this lucid and absorbing history Rebecca M Herzig explores the rise of an ethic of self sacrifice in American science Delving into some of the more bewildering practices of the Gilded Age and the Progressive Era she describes when and how science the supposed standard of all things judicious and disinterested came to rely on an enthralled investigator willing to embrace toil danger and even lethal dismemberment With attention to shifting racial sexual and transnational politics Herzig examines the suffering scientist as a way to understand the rapid transformation of American life between the Civil War and World War I 3 Suffering for Science reveals more than the passion evident in many scientific vocations it also illuminates a nation's changing understandings of the purposes of suffering the limits of reason and the nature of freedom in the aftermath of slavery

Proceedings, American Philosophical Society (vol. 116, No. 6, 1972) , **Technology and Culture** ,1980 Tesla W. Bernard Carlson, 2015-04-27 The gold standard for Tesla biography Science Superb Nature The definitive account of Tesla's life and work Nikola Tesla was a major contributor to the electrical revolution that transformed daily life at the turn of the twentieth century His inventions patents and theoretical work formed the basis of modern AC electricity and contributed to the development of radio and television Like his competitor Thomas Edison Tesla was one of America's first celebrity scientists enjoying the company of New York high society and dazzling the likes of Mark Twain with his electrical demonstrations An astute self promoter and gifted showman he cultivated a public image of the eccentric genius Even at the end of his life when he was living in poverty Tesla still attracted reporters to his annual birthday interview regaling them with claims that he had invented a particle beam weapon capable of bringing down enemy aircraft Plenty of biographies glamorize Tesla and his eccentricities but until now none has carefully examined what how and why he invented In this groundbreaking book W Bernard Carlson demystifies the legendary inventor placing him within the cultural and technological context of his time and focusing on his inventions themselves as well as the creation and maintenance of his celebrity Drawing on original documents from Tesla's private and public life Carlson shows how he was an idealist inventor who sought the perfect experimental realization of a great idea or principle and who skillfully sold his inventions to the public

through mythmaking and illusion This major biography sheds new light on Tesla s visionary approach to invention and the business strategies behind his most important technological breakthroughs      **Whitaker's Cumulative Book List** ,1973

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