

MS 11  
12 October 2022  
Schreck, Christopher J.

**SQUIER, GEORGE O.**  
**1883-1934**  
**LINEAR FT.: 9.6**  
**APPROX. NO. PGS.: 14,000**

**BIOGRAPHICAL NOTE**

George Owen Squier (1865-1934) was a scientist, inventor, and the commanding general of the U.S. Army Signal Corps during World War I.

Squier graduated from the U.S. Military Academy at West Point in 1887 and earned a Ph.D. from Johns Hopkins University in 1893. He served in the IS Army Signal Corps, where he was named head of the Aviation Section May 1916. During his career, he prepared specifications for the first military planes. He was also prominent in the buildup of air power ahead of World War I and was instrumental in the passage of the Aviation Act of 1917 that called for 40,000 planes at a cost of \$640 million, the largest single military appropriation of funds up to that time. Squier was promoted to Chief Signal Officer in February 1917, where he oversaw the expansion of the Air Service from 65 officers and 1,100 enlisted men to 12,000 officers and 135,000 enlisted men.

As a scientist, Squier wrote and edited many books and articles on the subject of radio and electricity. As an inventor, he and Dartmouth professor Albert Cushing Crehore developed a magneto-optical streak camera, "The Polarizing Photo-chronograph," in 1896 to measure the speed of projectiles both inside a cannon and directly after they left the cannon barrel. They also worked to develop synchronous AC telegraphic systems. His most famous scientific contribution, however, was that of telephone carrier multiplexing in 1910, for which he was elected to the National Academy of Science in 1919. In 1922, he created Wired Radio, a service which piped music to businesses and subscribers over wires (Muzak). His scientific contributions and capable leadership earned him the Distinguished Service Medal in 1919. Squier retired 31 December 1923 and died in Washington, D.C. on 24 March 1934.

This collection was donated to the Air Force Academy in 1973 by George Squier's niece, Lorena Babcock. There are similar materials concerning Squier at the Michigan Historical Society at the University of Michigan.

**SCOPE AND CONTENT NOTE**

This collection contains materials related to Squier's military career and personal life from the time he entered the United States Military Academy in 1883 until after his retirement from the U.S. Army Signal Corps as its commanding general in 1923. It is comprised of ten standard boxes and eight packages (non-standard boxes) of materials divided into fourteen series, outlined below. There is also one addendum to this collection, which is described separately at the end of this finding aid document.

**SERIES ONE: RECORDS AND CORRESPONDENCE**

Consists of five hard-bound books containing Squier's official records and correspondence, as well as several folders containing copies of his military orders and personal letters.

**SERIES TWO: SPEECHES AND ADDRESSES**

Consists of a single folder of copies of speech material, most of which relates to the application of communication engineering to the military.

**SERIES THREE: LEGAL DOCUMENTS**

An assortment of Squier's legal papers dealing with patents for electrical circuits, contracts, wills, and letters.

**SERIES FOUR: EVENTS AND INVITATIONS**

Includes invitations to social events such as dinners, dances, parties, discussions, and visits that Squier either attended or were given in his honor.

**SERIES FIVE: NOTEBOOKS**

A collection of ten notebooks that relate to Squier's studies at the U.S. Military Academy, his research while on duty with the Signal Corps, records of his personal activities, notes related to his assignment in laying the Trans-pacific Cable, and mathematical calculations related to his work in engineering communications.

**SERIES SIX: SQUIER PUBLICATIONS**

A collection of articles written by Squier concerning the science of communications, especially their application for military artillery and aeronautics purposes.

**SERIES SEVEN: PUBLICATIONS**

Contains published information related to the scientific disciplines of interest to Squier and his research, as well as articles about Squier and his scientific accomplishments.

**SERIES EIGHT: PERIODICALS**

A collection of magazines, newspapers, and other periodicals that pertain to Squier's work in aeronautics and communications. Also includes news references to his life following his retirement from the military, when he contributed much of his time and money to the establishment of "a country club for country people" in his native city of Dryden, Michigan.

**SERIES NINE: ARTWORK**

Consists of an album containing 4" x 6" Chinese oil paintings on rice paper and Chinese postage stamps that depict various World War I aircrafts.

**SERIES TEN: PHOTOGRAPHS**

Includes photographs depicting Squier's military and personal life from the time he entered service as a cadet to his retirement years. Topics include Squier's property and friends at Dryden, Michigan, Squier as a cadet in 1883, his assignment in San Antonio, Texas, gatherings of family and friends following his retirement, military honors, and his duty stations while in the Signal Corps. Most of these photos are uncaptioned.

**SERIES ELEVEN: TAPE RECORDINGS**

Consists of two thirty-minute tapes that relate to the letters, documents, photographs, certificates and other written material contained within this collection. The recording was taped in 1961 to explain the type of material in the Squier collection.

**SERIES TWELVE: SCRAPBOOKS**

A package of 4 scrapbooks that contain photographs, letters, calling cards, poems, and records of both Squier and his friends from his military and private life. Much of the material deals with his relatives and property in and near Dryden, Michigan.

**SERIES THIRTEEN: SOUVENIRS**

An assortment of items collected by Squier, which are listed in the *Arrangement and Description* below.

**Names:** Squier, George O.; Crehore, Albert C.; Babcock, Lorena

**Keywords and terms:** United States Army Signal Corps; Generals; Scientists; Physicists; Aviation Act of 1917; Trans-pacific Cable (TPC) (TRANSPAC); Telegraph Lines; Communication Technology; Submarine Cables; Radio; Journals; Diaries; United States Military Academy Graduates; West Point Graduates; Fort McHenry; Dryden, Michigan; Baltimore, Maryland; United States

For information on how to cite the materials in this collection, see the Clark Special Collections Citation Guide at <https://usafa.libguides.com/spc>, or contact Clark Special Collections at (719) 333-4674.

**ARRANGEMENT AND DESCRIPTION****SERIES ONE: RECORDS AND CORRESPONDENCE****BOX 1**

- |        |  |
|--------|--|
| Book 1 | Personal Orders & Letters, 1893. Official Correspondence |
| Book 2 | Personal Orders & Letters, 1894. Official Correspondence |
| Book 3 | Personal Orders & Letters, 1896. Official Correspondence |

**BOX 2**

- Book 1 Personal Orders & Letters, 1896-1898. Official Correspondence  
Book 2 Personal Orders & Letters, 1898. Official Correspondence

**BOX 3**

- Book 1 Personal Correspondence, 1933  
Book 2 Personal Correspondence, 1944  
Folder 1 Personal Correspondence, 1919-1932  
Folder 2 Personal Correspondence, 1933-1945  
Folder 3 Personal Correspondence, Undated  
Folder 4 Signed Personal Correspondence, 1921-1941
- Letter, Calvin Coolidge to Squier, 27 June 1931. Signed by Coolidge
  - Letter, John J. Pershing to Ira Parker, 1 February 1921. Signed by Pershing
  - Letter, Herbert Hoover to Squier, 14 November 1925. Signed by Hoover
  - Letter, Dawson Olmstead to James A. Purcell, 7 February 1941. Signed by Olmstead

**PKG 1** Oversized Framed Documents: 1833-1916

- Certificate of Land Registration #6027, 8 June 1833, Macomb County, Michigan Territory Land Office of Detroit
- Michigan Territory Land Office of Detroit #16654, 1 May 1837
- Certificate, Franklin Institute Award, Elliott Cresson Gold Medal to Squier, 5 June 1912, for Invention in Multiplex Telephony
- Certificate, Promotion to Major General Squier, 6 Oct 1916, signed by Woodrow Wilson.
- Certificate, Appointment of Squier to Advisory Committee for Aeronautics, 29 May 1916.

**SERIES TWO: SPEECHES AND ADDRESSES**

**BOX 4**

- Folder 1 Speeches and Addresses, 1924-1934

**SERIES THREE: LEGAL DOCUMENTS**

**BOX 4**

- Folder 2 Legal Documents, 1876-1956. An assortment of Squier's legal papers dealing with patents for electrical circuits, contracts, wills, and letters

**SERIES FOUR: EVENTS AND INVITATIONS**

**BOX 4**

- Folder 3      Invitations, 1916-1937  
Folder 4      Event Documentation

**SERIES FIVE: NOTEBOOKS**

**BOX 4**

- Book 1      Literary Notebook, 1885. Notes from the US Military Academy at West Point  
Book 2      Private notebook and Diary, 1886. Notes from the US Military Academy at West Point  
Book 3      The Chemical Laboratory, 1890. Chemistry notes from John's Hopkin's University  
Book 4      Dr. Anne's Lectures in Light, 1892. Notes from John's Hopkin's University

**BOX 5**

- Book 1      Course in Artillery Notebook, 1894  
Book 2      Trans-Pacific Cable, 1902  
Book 3      Private Notebook and Diary, 1904  
Book 4      The International Law of Submarine Cables, 1919. International Communications Conference  
Book 5      Metropolitan Club, Washington D.C., 1932. Notes on radio and telephone technology

**SERIES SIX: SQUIER PUBLICATIONS**

**BOX 6**

- Folder 1      Squier Publications, 1893-1900
- "Electro-chemical Effects due to Magnetization." Reprinted from the *American Journal of Science*, 1893.
  - "Note on a Photographic Method of Determining the Complete Motion of a Gun During Recoil." Reprinted from the *Journal of the United States Artillery*, Vol. IV, No. 4, 1895.
  - "Experiments with a New Polarizing Photo-Chronograph as Applied to the Measurement of the Velocity of Projectiles." Reprinted from the *Physical Review*, Vol. III, No. 13, July-August 1895.
  - "The New Polarizing Photo-Chronograph at the United States Artillery School, Fort Monroe, VA, and Some Experiments with It." Reprinted from the *Journal of the United States Artillery*, Vol. VI, No. 3, 1896.

- "Experiments with a New Polarizing Photo-chronograph as Applied to the Measurement of the Velocity of Projectiles." Reprinted from the *Physical Review*, Vol. III, No. 13, July-August 1895.
- "Discussion of the Currents in the Branches of a Wheatstone's Bridge, Where Each Branch Contains Resistance and Inductance, and there is an Harmonic Impressed Electromotive Force." Reprinted from the *London, Edinburgh, and Dublin Philosophical Magazine*, March 1897.
- "Le Synchronographe Nouvelle Methode De Transmission Rapide De Nouvelles Par Le Courant Alternatif." Presented at Congres Postal International, Washington, D.C., May 1897.
- "Tests of the Synchronograph on the Telegraph Lines of the British Government." Reprinted from the *Journal of the Franklin Institute*, Vol. CXLV, 1898.
- "A Horizontal-Base Range and Position Finder for Coast Artillery." Reprinted from the *Journal of the United States Artillery*, Vol. X, No. 3, 1899.
- "A Practical Transmitter Using the Sine Wave for Cable Telegraphy, and Measurements with Alternating Currents upon an Atlantic Cable." Reprinted from *Transactions*, 1900.

Folder 2 Squier Publications, 1906-1919

- "Team-work in War." Reprinted from *U.S. Cavalry Journal*, July 1906.
- "The Present Status of Military Aeronautics." Reprinted from *The Journal, The American Society of Mechanical Engineers*, 1908.
- "Multiplex Telephony and Telegraphy by Means of Electric Waves Guided by Wires." Presented at a meeting of the Technical Conference Army Signal School, Fort Leavenworth, Kansas, 19 April 1911.
- "Electrical Methods of Intercommunication for Military Purposes," reprinted from the *Journal of the Franklin Institute*, December 1911.
- "Some Experiments in "Wired Wireless" Telegraphy for Field Lines of Information for Military Purposes." Publisher unknown, n.d.
- "On an Unbroken Alternating Current for Cable Telegraphy." Reprinted from the Proceedings of the Physical Society of London, Vol. XXVII, Part V, 15 August 1915.
- "Aeronautics in the United States at the Signing of the Armistice, November 11, 1918." An address before the American Institute of Electrical Engineers, 10 January 1919.

Folder 3 Squier Publications, 1919-1933

- "Multiplex Telephony and Telegraphy by Means of Electric Waves Guided by Wires." Government Printing Office, Washington, D.C., 1919.
- "Tree Telephony and Telegraphy." Reprinted from the *Journal of the Franklin Institute*, June 1919.

- "Multiplex Telephony and Telegraphy over Open-Circuit Bare Wires Laid in the Earth or Sea." Reprinted from the *Journal of the Franklin Institute*, June 1920.
- "Telling the World." The Williams and Wilkins Company in cooperation with the Century of Progress Exposition, 1933.

## **SERIES SEVEN: PUBLICATIONS**

### **BOX 7**

#### Folder 1 Publications, 1892-1896

- Whistler, Garland N. "Graphic Tables of Fire." 5th Artillery, Artillery circular C, 23 June 1892. Adjutant General's Office, Government Printing Office, Washington, D.C., 1892.
- J.O. Arnold and R.A. Hadfield. "The Physical Influence of Elements on Iron" and "The Results of Heat Treatment on Manganese Steel and Their Bearing upon Carbon Steel." Reprinted from the *Journal of the Iron and Steel Institute*, 1894.
- Carbaugh, H.C. "Experimental use of the Essick Page Printing Telegraph for Transmitting Information in Sea-coast Artillery Firing, 1895." Reprinted from the *Journal of the United States Artillery* 4, no. 4 (1895): 593-602.
- Cohen, Abraham. "On A Certain Class of Functions Analogous to the Theta Functions." Dissertation presented to the Board of University Studies of the Johns Hopkins University for the Degree of Doctor of Philosophy. Baltimore, 1894.
- Moore, D. McFarlan. "Recent Developments in Vacuum Tube Lighting." A paper to be presented at the 105th meeting of the American Institute of Electrical Engineers. New York, 22 April 1896.

#### Folder 2 Publications, 1907-1923

- Cushman, Allerton S., and Prevost Hubbard. "The Decomposition of the Feldspars." U.S. Department of Agriculture, Office of Public Roads, Bulletin No. 28. Washington, D.C.: Government Printing Office, 1907.
- *Transactions of the Illuminating Engineering Society* 2, no. 6 (June 1907). New York: Illuminating Engineering Society, 1907.
- Burgess, G.K., and H. LeChatelier. *The Measurement of High Temperatures*. New York: John Wiley and Sons, 1912.
- Wiseman, Robert J. "The Dielectric Strength of Cables." Abstract of a thesis submitted to the faculty of the Massachusetts Institute of Technology. Boston: 1915.
- "The Homing Pigeon, Care and Training for Military Purposes." Prepared in the Office of Chief Signal Officer. Government Printing Office, Washington, D.C., February 1920,

- Bauer, Louis A. "The Earth's Magnetic Field for 1922." Reprinted from *Nature*, 25 August 1923.
- Bauer, Louis A. "Some Physical Aspects of a Recent Analysis of the Earth's Magnetic Field." Reprinted from *Science* 43, no. 1494. 17 August 1923.
- Watt, R.A.W., and E.V. Appleton. "On the nature of atmospherics." Reprinted from *Proceedings of the Royal Society* 103, 1923.
- Nichols. E.F., and J.O. Tear. "Joining the Infra-Red and Electric Wave Spectra." Reprinted from the *Physical Review* 21, no. 6. June 1923.
- E.F. Nichols and J.D. Tear, "Short Electric Waves." Reprinted from the *Physical Review* 21, no. 6. June 1923.
- Tear, J.D. "The Optical Constants of Certain Liquids for Short Electric Waves." Reprinted from the *Physical Review* 21, no. 6. June 1923.
- Cohen, Louis. "Applications of Heaviside Expansion Theorem." Reprinted from the *Journal of the Franklin Institute*. March 1923.
- Cohen, Louis. "Electric Filter Circuits." Reprinted from the *Journal of the Franklin Institute*. May 1923.
- Fortescue, C.L. "The Design of Inductances for High-frequency Circuits." Reprint from the *Journal of the Institution of Electrical Engineers* 61, no 321. August 1923.

Folder 3      Publications, 1924-1935

- Jenkins, C. Francis. *Pictures by Radio*. Washington, D.C.: The Radio Pictures Corporation, 1924.
- "The status of women in the government service in 1925." *Bulletin of the Women's Bureau* 53. U.S. Department of Labor, Government Printing Office. Washington, D.C., 1926.
- "Multiplex Telegraphy and Telephony." Letter from the Secretary of Commerce, 69th Congress, 2nd Session, Document No. 172. Government Printing Office. Washington, D.C., 1926.
- "Discussions on Telephone Communication over High Power Lines by High Frequency Currents." Reprinted from The Institute of Radio Engineers for December 1927.
- Butler, Nicholas Murray. "The Search for Security." Address delivered in the Hall of Parliament. Budapest, 16 June 1931.
- Butler, Nicholas Murray. "The Republican Form of Government." Address delivered in the Hall of Parliament. Vienna, 22 June 1931.
- *Pantheon de la Guerre* "Cyclorama of the World War and its Heroes. New York: The Stockbridge Press, Inc., 1932
- Tyler, Tracy Ferris. "Some Interpretations and Conclusions of the Land-Grant Radio Survey." National Committee on Education by Radio. Washington, D.C., 1933.



- “Report of Proceedings: Eighth Annual Aircraft Engineering Research Conference.” Under auspices of the National Advisory Committee for Aeronautics. Langley Field, VA, 4 May 1933.
- Report of the United States National Museum, 1935. Washington, D.C.: Smithsonian Institution, 1935.

Folder 4 Science Abstracts, 1914-1932

- *Science Abstracts*, Vol. 17, No. 194, Part 2, 25 February 1914.
- *Science Abstracts*, Vol. 17, No. 196, Part 4, 27 April 1914.
- *Science Abstracts*, Vol. 21, No. 244, Part 4, 30 April 1918.
- *Science Abstracts*, Vol. 21, No. 245, Part 5, 31 May 1918.
- *Science Abstracts*, Vol. 21, No. 247, Part 7, 31 July 1918.
- *Science Abstracts*, Vol. 21, No. 252, Part 12, 31 December 1918.
- *Science Abstracts*, Vol. 26, No. 306, Part 6, 25 June 1923.
- *Science Abstracts*, Vol. 26, No. 309, Part 9, 25 September 1923.
- *Science Abstracts*, Vol. 35, No. 409, Section A, Jan 1932.

Folder 5 German Publications

**SERIES EIGHT: PERIODICALS**

**BOX 8**

Folder 1 Periodicals, 1895-1908

- *Munsey*, October 1895.
- *Munsey*, Vol. LXX, No. 3, August 1920.
- *In and Around Salt Lake City*, Frank S. Thayer, Denver, Colorado, 1900.
- *Human Life*, Vol. 1, No. 1, June 1904.
- *Putnam's Monthly*, Vol. II, No. 2, May 1907.
- *Journal of the U.S. Cavalry Association*, Vol. XVIII, No. 66, October 1907.
- *Journal of the U.S. Cavalry Association*, Vol. XVIII, No. 67, January 1908.

Folder 2 Periodicals, 1916-1923

- Raernaekers Cartoons, Empire House, Kingway, London, February 1916.
- Scraps of Paper: German Proclamations in Belgium and France, Hodder and Stoughton, London, 1916.
- *World's Work*, Vol. XXXIII, No. 3, January 1917.
- *World's Work*, Vol. XXXIV, No. 3, July 1917.
- *Popular Radio*, Vol. II, No. 2, October 1922.
- *Popular Radio*, Vol. III, No. 2, February 1923.
- *Detroit Motor News*, Vol. 6, No. 3, September 1923.
- *Radio Electricite*, Vol. IV, No. 10, 1923.

Folder 3 Periodicals, 1926-1953

- *Atlantic Monthly*, Vol. 138, No. 2, August 1926.
- *Forbes*, Vol. XXI, No. 5, March 1928.
- 23rd Annual Report of the Pacific Gas and Electric Company, December 1928.
- *Nation's Business*, Vol. 17, No. 1, January 1929.
- *Natural History*, Vol. XXXIII, No. 1, January-February 1933.
- *National Geographic Magazine*, Vol. CIV, No. 6, December 1953.

**PKG 7** Newspapers and Articles

**PKG 8** Oversized Periodicals

- *The Graphic*, February 1916-September 1916.
- *The Illustrated London News*, January-December 1916.
- *Country Gentleman*, June 1930.

**SERIES NINE: ARTWORK**

**BOX 9**

Folder 1 Artwork

- Album: Chinese artwork, oil on rice paper, undated
- Chinese postage stamps depicting World War I aircraft

**SERIES TEN: PHOTOGRAPHS**

**BOX 9**

Folder 2 Photographs. Includes images of Squier, his family, West Point, Dryden, the Squier Laboratory, and Squier's grave

Folder 3 Squier family and friends, undated

Folder 4 European Photo Logs. Three booklets of scenic photographs, one each from Strasbourg, France (n.d.), Stratford-on-Avon, England (n.d.), and Copenhagen (1894)

**PKG 2** Framed photos, 1914-1923

- Aeronautical Society of American, dinner, 28 Nov 1916
- Squier family reunion, 16 July 1924
- Squier family, August 1925
- Summer home of Gen. Squier, Dryden, Michigan
- Albert Kahn, 13 November 1933
- George O. Squier, December 1933
- Birthday roses, March 1923
- Thomas Edison, autographed, 29 Jan 1914

**PKG 3** Framed photos, 1911-1921

- Photo WWI aviator, unidentified, 16 May 1917
- Office of the Chief Signal Officer Maneuver Division San Antonio, Texas, July 1911
- Retirement dinner, Squier, Washington, D.C., December 1923
- Unidentified gentlemen, 1921
- General George Gibbs, 1919
- Cablesip Burnside, 1902

**PKG 4** Fort McHenry, Maryland. Bound book of large photos depicting Ft. McHenry and many of the people who worked and served there. Approximately 75 captioned photos

### **SERIES ELEVEN: TAPE RECORDINGS**

#### **BOX 9**

Folder 5 Tape Recordings. Two reel-to-reel tapes dated 12-14 June 1961. Both labelled "Gen. Squier Excerpts & etc. Life and history of his achievements."

### **SERIES TWELVE: SCRAPBOOKS**

#### **PKG 5**

Scrapbook1 Yellowed wood cover scrapbook with leather bindings. The word "Memories" and an iris appear on the cover. Includes a variety of materials such as photographs, telegrams, business cards, newspaper clippings, poems, and announcements. Some of these items are listed in detail below:

#### Letters

- 19 April 1933 to Ira and Lorena Parker from Joseph Chapman
- 1 July 1941; 26 December 1923 from George Squier to his sister Mary Parker
- 25 June 1937 to Mary Parker from Albert Kahn
- 24 March 1937 to Mary Parker from D.J. Allison
- 17 January 1924 from George Squier to Mrs. Hoover acknowledging a letter from Mrs. Hoover dated 12 January 1924 regarding establishing a Girl Scouts troop in Dryden
- 3 January 1924 to Mary Parker from Freysinger regarding a banquet given by the Signal Corps in General Squier's honor
- 12 July 1933 to Ira and Mary Parker from George Squier
- 6 November 1924 to Mary Parker from George Squier regarding women's political involvement
- 3 December 1919 to General Squier from Martha B. Sanders
- To Mary Parker from Mrs. H.L. French
- 9 December 1919 to Mary Parker from Frank J. Griffin
- 20 May 1941 to Mary Parker from Edgar L. Clewell
- 11 December 1919 to Mary Parker

- 19 March 1927 to Mary from George regarding sending her money to buy herself a car with
- 10 June 1931 from General Squier while en route by train from Berlin to Paris
- 6 February 1854 to Ann Eliza Dryden from Emily Gardener
- January 1885 to Ira Parker from his mother
- January 1881
- January 1888 to Ira from his mother Abigail
- 1884 to Ira Parker from his mother Abigail
- February 1885 to Ira Parker

#### Postcards

- 1906; 1934
- B&W photo of Signal Corps Laboratories, Ft. Monmouth, NJ

#### Announcements

- 1919 Lapeer County Medical Society Meeting announcement
- February 1940 from James Loos regarding the church's rededication
- Ira Parker personal property auction
- Dryden Community Club 15th anniversary
- Balch-Wade wedding announcement
- 1931 Dryden High School 50th reunion
- NRA luncheon menu

#### Newspaper Clippings

- Several newspaper clippings on the Parker family and town of Dryden, including a 1934 fire that destroyed several businesses. Other topics include deaths, an auction, the businesses of the Parker brothers Ira and Homer
- Program for an Exhibition at Wood's Hall in Dryden March 15, 1875
- 15 August 1934 tribute to Gen Squier
- Several clippings dated 1913; 1934; 12 December 1934; 1935

Scrapbook 2 Red cover with the word "Scrapbook" in gold lettering inside a double lined gold diamond. Includes a variety of materials such as photographs, telegrams, pamphlets, and newspaper clippings. Some of these items are listed in detail below:

#### Letters

- Letter from the Society of the Daughters of the U.S. Army to Gen Squier
- 24 January 1934 memorandum from George Squier to Robert Bridges regarding combining religion, science, and art for humanity's benefit
- 15 January 1934 to Gen Squier from Gen Harbord regarding his name being used in connection with solicitations without his consent

- Christmas card from Mr. and Mrs. Sidney D. Waldon 1931-1932

#### Telegrams

- One telegram dated 25 January 1934

#### Pamphlets

- 13 July 1933 Episcopal Church Outing
- 8 July 1933 Sixth Bicentennial meeting of the Dryden HS Alumni picnic
- 25 May D.H.S. Commencement program
- O.M.P. Winter Sports Club invitation
- 24 January 1934 Winter Convention of the American Institute of Electrical Engineers Edison Medal presentation ceremonies

#### Photographs

- Newspaper photo of Gen Squier and Chief Charles MacDonald
- Gen Squier and R.D. Duncan Jr. Chief engineer of the Signal Corps using a “new super-phone”
- Newspaper photo dated 17 December 1933, Washington Bachelor’s Cotillions featuring Gen. Squier

#### Newspaper Clippings

- 11 January 1919 covering General Squier extolling the benefits of the “radiophone” in wartime and dirigibles for transatlantic travel
- 11 January 1919 General Squier’s address to the American Institute of Electrical Engineers discussing aeronautics in the U.S.
- 11 January 1919 General Squier’s address to the American Institute of Electrical Engineers defending and promoting aeronautics in the U.S.
- 4 articles on the above mentioned
- 11 January 1919 Gen Squier’s speech “Aeronautics in the United States, 1918” presented to the American Institute of Electrical Engineers emphasizing his stance on the dirigible
- 23 November 1933 on Gen Squier’s concept for a “Radiolite”
- 17 December 1933 The Washington Bachelor’s Cotillion
- 18 December 1933 “Wright Brothers Honored by Women Fliers”
- Education on Indian Children article
- Article on “Trio Who Helped Wrights Fly Head Kitty Hawk Pilgrimage”
- 6 September 1933 article on Gen Squier’s book “The Telephone Girl”
- 5 September 1933 talking about Gen Squier’s role as an inventor

- 15 July 1928
- “Pershing Bust Racket Bared” concerning an individual benefiting financially from forging Squier’s signature
- 15 January 1934 interview with Dr. Charles F. Kettering VP of GM
- Article on Gen Pershing memorial hoax
- 4 February 1934 Article on Gen Squier’s achievements and retirement activity of restoring his childhood swimming hole for the public benefit
- 5 February 1934 regarding William Howard Taft and Helen Herron
- 31 December 1933 discussing art exhibitions featuring a photograph of Gen Squier’s painting by Bjorn Egeli

#### Congressional Records

- 13 December 1918 regarding the increased use of the telephone and telegraph wires and the Army appropriation bill of 1910

### **PKG 6**

Scrapbook 1 Black cover with a paper copy of the painting “The Letter Writer Surprised” by Gabriel Metsu. Includes a variety of materials such as letters, photographs, telegrams, newspaper clippings, poems, and announcements. Some of these items are listed in detail below:

#### Letters

- File copy 3 September 1918 from Woodrow Wilson to Gen Squier and his 4 September response regarding a commission for Charles F.H. Johnson
- 8 April 1932 from Maj Gen Charles H. Martin to Gen Squier regarding House Bill S. 2778
- 1 February 1921 to Mary Parker from John J. Pershing regarding the Dryden Ladies Aid
- 24 November 1931 Radiogram from Sir Robert Hadfield to Gen Squier concerning the Smithsonian and the Royal Institution
- 10 February 1931 to Gen Squier from Gen Pershing
- 22 August 1931 to Gen Squier from Gene Morgan regarding meeting the Gen and enclosed poems
- 23 November 1921 to Gen Squier from Charles E. Hughes notifying Gen Squier of his designation as an Expert Assistant to the American Commissioners appointed by the President
- 13 February 1931 to Gen Pershing about his bust at the National Museum of Art
- 7 December 1931 to Colonel Bishop from Gen Squier regarding the “Squier-Orehore Range and Position Finder for Coast Artillery”

- 7 May 1931 “Archbishops of Big Business” by George Squier Delegate of International Chambers of Commerce
- 8 June 1931 to Gen Squier from Herbert L. Satterlee
- 9 May 1931 to Gen Squier from E.F. Williams concerning the submission of his book to the Chicago’s World Fair

#### Newspaper Clippings

- 20 July 1932 15<sup>th</sup> anniversary of the Dryden Community Club
- Dryden Club semi-annual meeting
- Gen Squier’s “Victory Creed”
- 14 June 1932 Olive M. Rheame’s poem
- Article on Gen Squier cleaning up the dilapidated local swimming hole to create the Dryden Community Club
- 22 April 1928 regarding the Dryden Community Club
- 1 March 1928 Dryden Community Club
- 15 November 1919 Memorial tree planting
- Dedication of Forest Hall
- 15 February 1928 concerning Gen Squier’s view on inventions and patents
- Hilliker Reunion
- 26 February 1930 covering Gen Squier’s recent invention the monophone
- Dryden County Medics Picnic
- Dryden Senior Banquet
- August 1928 several Dryden reunions
- 17 August 1932 the Schooch reunion
- 17 August 1932 dedication of the Gen Squier Highway in Dryden
- 27 April 1932 George Washington tree planting memorial in Dryden
- 14 August 1922 concerning the Dryden Community Club
- 15 June 1931 Gen Squier’s Victory Creed
- 18 February 1932 Social function dinner at the Rolyat Hotel with a photo of the guests including Billie Burke, Babe Ruth, Gen Squier, Opie Read, Oliver R. Fuller, Billy DeBeck, etc.
- 14 December 1932 Gen Squier “Television should be Radiovision”
- 1 January 1931 photo of Gen MacArthur entering the White House
- 20 May 1932 by Frederic William Wile in the *Washington Observations* on the naming of a highway after him
- “Old and New Academy Officers” covering the department head vacancies at Maryland Academy
- Late December 1932 articles on Gen Squier’s Burnside House fire at the Old Mill Pond in Dryden

- “The Present Status of Wired Wireless Broadcasting on Power Lines” by George Squier presented before the National Academy of Sciences, Autumn Meeting 16-18 November 1931
- “Retrospection” Mrs. J.C. Taylor to Gen Squier and Mary Parker concerning the Native American Pokagon tribe of the Almont-Dryden region

#### Articles

- 29 January 1929 “The Amazing Years Ahead” by Gen Squier for *Nation's Business* discussing scientific advancements
- August 1932 “A Free Country Club” in *Michigan Motor News*
- June 1930 “A Country Club for Country People” by Mary Margaret McBride

#### Photographs

- B&W photo of George Squier as a boy

#### Announcements

- 26 August Lapeer's Centennial and Home Coming
- 15 June 1927 Dryden Alumni Association
- List of Dryden H.S. graduates from 1881-1927
- 28 July 1932 Dryden Day dedications
- 14 August 1931 13<sup>th</sup> Annual Meeting of the Earle Memorial Highway Association Officers
- 23 June 1931 from Thomas Martin General Secretary of the Royal Institution to Gen Squier extending an invitation to the Weekly Evening Meetings, with the ticket for 2 November 1931 included

#### Telegrams

- Withdrawal of precious invitation to be the guest of honor on American Inventors Day from International Patent Exposition Co.
- 13 December 1931 from Gen Squier to Walter S. Gifford suggesting Gifford take charge of Research role
- 1 October 1931 from Gen Squier to Harry G. Green President of the International Patent Exposition regarding his 1910 invention and patent
- 1 January 1931 from Gen Squier to Albert Kahn regarding Central Park
- To Mary Parker from George Squier concerning his visits to West Point, Dover House, Edison's Bier, Gen Pershing's, Marshall Petain's, and the Premier of France.
- From Gen Squier to Assistant Secretary Castle regarding the Executive Committee meeting



### Poems

- “Burnside House” to Gen Squier from Olive M. Rheaume
- 7 February 1932 “The Little Spring” by Lillie Mae Ulrich dedicated to Gen Squier
- 11 July 1929 Dryden H.S. Alumni Association
- 7 July 1931 Dryden H.S. Alumni Association
- Dryden High School Pep song
- “He is my Friend” by Edgar A. Guest
- “My Year” by Grace E. Frysinger
- 19 August 1931 “Hit or Miss” by Gene Morgan
- Christmas poem by Harry G. Green

Scrapbook 2 Red cover with gold lettering “Scrapbook” on the right side with a gold sun on the bottom and its rays going up the left side of the cover. Includes a variety of materials such as journal articles, letters, photographs, telegrams, newspaper clippings, poems, and announcements. Some of these items are listed in detail below:

### Articles

- “The Monophone- A One-Way Telephone for Program Service” by George O. Squier reprinted from the Journal of the Maryland Academy of Sciences Vol. I, No. I, January 1930

### Photographs

- Squier coat of arms
- Younger Gen Squier in uniform
- October 1922 Newspaper photo of Gen Squier
- Photo of Gen Squier with Alexandre Gustave Eiffel and Gen Ferrier, Chief of the Tower’s Wireless Station
- B&W photo of Gen Squier receiving a medal at a commendation ceremony

### Letters

- 3 December 1931 from Gen Squier to President Hoover acknowledging the invitation to the “President’s Conference on Home Building” and Squier attached his submission “Wired-Wireless in the Home”
- 21 January 1932 from Gen Squier to unknown concerning his “Victory Creed”
- 23 March 1932 to Gen Squier from Henry Crew regarding Squier’s 1911 paper “Multiplex Telephony and Telegraphy” also mentioned J.B. Taylor and F.B. Jewett

- 1932-33 Christmas card from Mr. and Mrs. Sidney D. Waldon
- 24 February 1933 to Gen Squier from Brig Gen James F. McKinley regarding Squier's contract A-3456
- 28 February 1933 to Gen Squier from attorneys Satterlee and Canfield regarding his "Wired Wireless, Inc."
- 3 March 1933 to Gen Squier from attorneys Satterlee and Canfield concerning changing the name of "Wired Wireless, Inc." to "The Radiopolitan Corporation"
- 19 January 1933 to Gen Squier from Henry Crew regarding Squier's new manuscript
- 21 January 1933 to Gen Squier from Henry Crew regarding Squier's dedication in his new book

#### Newspaper Clippings

- 26 January 1931 article praising the "Telephone Girl" by Gen Squier to *The New York Times*
- "Gen Squier Reports on Bill to Academy of Sciences" regarding S.B. 2778
- "Gen Squier Addresses Foreign War Veterans"
- "General Squier to Attend Dinner" regarding the social dinner at the Rolyat Hotel in Florida on February 16 (2 copies on different pages)
- Honored guests banquet at Rolyat Hotel in Florida articles and photo
- "A Radio Scheme" regarding a national broadcasting chain using radio as an educational tool in schools
- 14 July 1932 poem dedicated to Gen Squier by Olive M. Rheume
- 8 January 1932 "Couzens Seeks Data on Air Ads" about government versus private operated radio advertisements
- 28 May 1932 "The General Squier Highway"
- 13 January 1931 "Washington Bachelors' Cotillion" in *The Evening Star* accompanying photo of event
- 1930 mention of Squier's winter activities of pheasant shooting and visiting New York and his estate in Michigan
- 1932 Dryden Community Club open for 1932 season
- "Medics Hold Annual Picnic" Squier spoke at the Lapeer County Medical Association picnic
- "Wired Radio Found Better Than Spaced" Gen Squier promoting the efficiency of wired radio

### Articles

- 23 April 1929 abstract of a paper presented before the National Academy of Sciences: “The Monophone-A One-Way Telephone for Program Service” by George Squier
- January 1929 in *Nation's Business* discusses how scientific advancements affect American society
- “A Free Country Club” by Grace Junkin Johnson in *Michigan Motor News* August 1932 covering the conversion of the land from a dump to Country Club
- “This is Your Country Club” by Edward Marshall about the Dryden Community Club
- “A Country Club for Country People” by Mary Margaret McBride June 1930 in *The Country Gentleman* about the Dryden Country Club
- August 1920 “A Country Club for Country People” by Edward M. Stack in *Munsey's Magazine*
- October 1922 *Popular Radio* article “What Will Take the Place of Today's Broadcasting?” by Major-General George O. Squier
- January 1929 “The Amazing Years Ahead” by Gen Squier in *Nation's Business* discussing scientific advancements
- 29 October 1927 “Broadcasting Over Wires” by Gen Squier in *Electrical World* discussing radio applications

### Telegrams

- 14 January 1932 from Gen Squier to Walter S. Gifford concerning S.B. 2778
- 19 January 1932 from Gen Squier to Archbishop Gifford of Big Business concerning iodine
- 31 May 1932 from Gen Squier to the Chief Engineer of Ford proposing setting a speed control for automobiles
- From George Squier to Mary Parker concerning the highway named after him
- 25 November 1932 from Gen Squier to Charles F. Kettering concerning his thoughts on where family life will center in the home
- 6 June 1932 from Gen Squier to NY Times editor proposing new name for Central Park
- 21 April 1932 to Mary Parker from Mary Stewart regarding George Washington memorial tree planting

### Announcements

- The Dedication of Pine Knob
- Dryden Ladies Library Association

- 15 June 1927 Dryden Alumni Association
- “Graduates of Dryden H.S.” lists graduates from 1881 to 1927

Miscellaneous

- The Signed check made out to the Dryden State Bank
- 23 February 1933 receipt from SHS Radio Corporation of America

**SERIES TWELVE: SOUVENIRS**

**BOX 10**

Purse, needlepoint	1 each, Chinese plate
Fan, ivory, from India	1 each, Austrian plate
Necklace, shell	Prayer-sticks, Chinese
Dishes, China 2 each, hand-painted	Booklet, Japanese Fairy Tale Series #13

MS 11-Addendum 1  
 12 October 2022  
 Schreck, Christopher J.

**SQUIER, GEORGE O.**  
**1895-1930**  
**LINEAR FT.: 1**  
**APPROX. NO. PGS.: 1500**

**SCOPE AND CONTENT NOTE**

Addendum One consists of three boxes of published scientific materials, most of which were authored or co-authored by George O. Squier.

**ARRANGEMENT AND DESCRIPTION**

**ADD 1-BOX 1**

- |          |  |
|----------|--|
| Folder 1 | Cohen, Louis. "Alternating Current Cable Telegraphy." Press of J.B. Lippincott Company, 1923. (2 copies)   |
| Folder 2 | Cohen, Louis. "Applications of Heaviside Expansion of Theorem." Press of J.B. Lippincott Company, 1923. (16 copies)  |
| Folder 3 | Cohen, Louis. "Electric Filter Circuits." Press of J.B. Lippincott Company, 1923. (5 copies)   |
| Folder 4 | <i>The Country Gentleman</i> , June 1930. Includes "A Country Club for Country People," article by Mary Margaret McBride   |
| Folder 5 | Crehore, Albert C., and George O. Squier. "A Practical Transmitter Using the Sine Wave for Cable Telegraphy, and Measurements with Alternating Currents Upon an Atlantic Cable." Presented at the 17th General Meeting of the American Institute of Electrical Engineers, Philadelphia, PA, 18 May 1900. Reprinted from Vol. XVII of the <i>Transactions</i> . |
| Folder 6 | Crehore, Albert C., and George O. Squier. "Experiments with a New Polarizing Photo-Chronograph as Applied to the Measurement of the Velocity of Projectiles." Reprinted from the <i>Physical Review</i> , Vol. III, No. 13, July-August 1895 (2 copies).   |
| Folder 7 | Crehore, Albert C., and George O. Squier. "Tests of the Synchronograph on the Telegraph Lines of the British Government."  |
| Folder 8 | Crehore, Albert C., and George O. Squier. "Tests of the Synchronograph on the Telegraph Lines of the British Government. A Report to the Postmaster General of the United States." (3 copies)  |
| Folder 9 | <i>Forbes</i> , 1 March 1928. Includes "This is Your Club" article by Edward Marshall  |

- Folder 10 *Popular Radio*, October 1922. Depicts Squier on the cover and his article “What Will Take the Place of Today’s Broadcasting?”
- Folder 11 *Science Abstracts* No. 245, Vol. 21, Part 5, 31 May 1918.
- Folder 12 “Aeronautics in the United States at the Signing of the Armistice November 11, 1918.” An Address before the American Institute of Electrical Engineers by George Owen Squier, Ph.D.
- Folder 13 Squier, George O. “Electrical Methods of Intercommunication for Military Purposes.” Press of J.B. Lippincott Company, 1911 (3 copies).
- Folder 14 Squier, George O. “Electro-Chemical Effects due to Magnetization: A dissertation presented to the board of university studies of the Johns Hopkins University of the degree of Doctor of Philosophy.” Reprinted from the *American Journal of Science*, 1893 (2 copies).

**ADD 1-BOX 2**

- Folder 1 Squier, George O. “Multiplex Telephony and Telegraphy by Means of Electric Waves Guided by Wires.” Reprinted from the *Transaction of the American Institute of Electrical Engineers*, Vol. 30, Part II, 1911 (4 copies).
- Inside the copy with the “Squier of Eaton-Soron” stamp are two newspaper clippings. One mentions Gen Squier’s burial and some of his life achievements. The second article covers his burial at Arlington cemetery.
- Folder 2 Squier, George O. “Multiplex Telephony and by Means of Electric Waves Guided by Wires.” Reprinted from the *Transaction of the American Institute of Electrical Engineers*, Vol. 30, Part II, 1911 (4 copies).
- Folder 3 Squier, George O. “Multiplex Telephony and by Means of Electric Waves Guided by Wires.” Reprinted from the *Transaction of the American Institute of Electrical Engineers*, Vol. 30, Part II, 1911 (4 copies).
- Folder 4 Squier, George O. “Multiplex Telephony and by Means of Electric Waves Guided by Wires.” Reprinted from the *Transaction of the American Institute of Electrical Engineers*, Vol. 30, Part II, 1911 (2 copies).
- Folder 5 Squier, George O. “On an Unbroken Alternating Current for Cable Telegraphy.” From the *Proceedings of the Physical Society of London*, Vol. XXVII, Part V, 15 August 1915 (3 copies).
- Squier, George O. “On an Unbroken Alternating Current for Cable Telegraphy.” Reprinted from the *Journal of The Franklin Institute*, September 1915.
- Folder 6 Squier, George O. “Team-Work in War.” Reprint from the *U.S. Cavalry Journal*, July 1906 (3 copies).

- Folder 7 Squier, George O. "The present Status of Military Aeronautics." Reprint from the *Journal of the American Society of Mechanical Engineers* (2 copies). Contains B&W photos and sketches of various types of dirigibles, zeppelins, and Wright Brother's aeroplane including the Ft. Myer, VA. September 9 & 12, 1908 flights
- Folder 8 Squier, George O. "The present Status of Military Aeronautics." Reprint from the *Journal of the American Society of Mechanical Engineers* (2 copies).

**ADD 1-BOX 3**

- Folder 1 Squier, George O. "The present Status of Military Aeronautics." Reprint from *The Journal of the American Society of Mechanical Engineers*, n.d. (2 copies).
- Folder 2 Squier, George O. "The present Status of Military Aeronautics." Reprint from *The Journal of the American Society of Mechanical Engineers*, n.d. (2 copies).
- Folder 3 Squier, George O. "The present Status of Military Aeronautics." Reprint from *The Journal of the American Society of Mechanical Engineers*, n.d. (2 copies).
- Folder 4 Squier, George O., and Albert C. Crehore. "A Horizontal-Base Range and Position Finder for Coast Artillery." Reprinted from the *Journal of the United States Artillery*, Vol. X No. 3. Fort Monroe, Virginia: Artillery School Press, 1899 (3 copies).
- Folder 5 *Transactions of the Illumination Engineering Society* Vol. III, No. 5, May 1908. Missing cover. Handwritten "Squier" at the top of the page.