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#14/22/693 Cornell University,
Dept. of Physics.
Records, 1876-1984.
GUIDE

14/22/693

1)
Cornell University, Dept. of Physics,
Records, 1876-1984.
16.3 cubic ft.

NYCV84-A1840

Summary: Correspondence, biographical material, clippings, photographs, notes, diagrams, publications, and other items pertaining to Cornell Physics Professor William A. Anthony, Frederick Bedell, Ernest G. Merritt, George S. Moler, Edward L. Nichols, and Floyd K. Richtmyer, as well as physicist Ernest Fox Nichols (Cornell University M.S. 1892); the correspondence pertains to efforts to obtain the biographical material, departmental administration, the study of physics, and other professional matters, such as the dynamo built by Anthony and Moler ca.1875, and its exhibition at the Century of Progress International Exposition in Chicago, 1933, the establishment of the date Bedell invented his stabilized oscilloscope, and negotiations, 1926, for bringing the German physicist, Max Born, to Cornell. Includes correspondence of Livingston Farrand and John Henry Comstock. Also, physics notebooks, 1904-1931, with research data of Edward L. Nichols, Horace L. Howes, Ernest G. Merritt, D. T. Wilber, and others on phosphorescence, fluorescence, luminescence, and spectra, scientific photographs and charts, undated typewritten notes on various subjects by Nichols, Howes, and Wilber, and a monograph, apparently by Nichols and his associates, on the fluorescence and afterglow of solid solutions and their luminescence when rendered incandescent by a hydrogen flame, as well as accounts, 1913-1932, pertaining to a Carnegie Institution grant for this research.

In addition, indexed department account books, 1882-1948; inventory books, 1881-1933; and a "Committee Report on Survey of Floor Area Requirements for Physics, Engineering Physics, and Astronomy for a 15-Year Period, 1947-1962," ca.1946; and personnel records of former faculty, staff, and graduate students who were appointed to the Physics Dept. prior to 1935. Manuscript entitled "Seventy Years of Physics at Cornell," by Harvey E. Howe and Guy E. Grantham, 1958; bound typewritten, "The Cornell Physics Department," by Paul Hartman, 1984, with an index; and chart of department staff, 1868-1940; and THE CORNELL PHYSICS DEPARTMENT: RECOLLECTIONS AND A HISTORY OF SORTS, by Paul Hartman, 1984. Also administrative correspondence of the department, primarily of George S. Moler, 1893-1900.

Personnel records are restricted to permission of the Dept. of Physics.

Findings aids: Box list.

Findings aids: Personnel records have a computer file of key biographical data arranged alphabetically.

Cite as: Cornell University, Dept. of Physics, Records, #14\22\693, Department of Manuscripts and University Archives, Cornell University Libraries.

1. Anthony, William Arnold, 1835-1908.
 2. Bedell, Frederick, 1868-1958.
 3. Born, Max, 1882-1970.
 4. Comstock, John Henry, 1849-1931.
 5. Farrand, Livingston, 1867-1939.
 6. Grantham, Guy Everett, 1886-1970.
 7. Howe, Harley Earl, 1882-1965.
 8. Howes, Horace L.
 9. Merritt, Ernest George, 1865-1948.
 10. Moler, George Sylvanus, 1851-1932.
 11. Nichols, Ernest Fox, 1869-1924.
 12. Nichols, Edward Leamington.
 13. Richtmyer, Floyd Karker, 1881-1939.
 14. Wilber, D. T.
 15. Carnegie Foundation.
 16. Century of Progress International Exposition (1933-1934; Chicago, Ill.)
 17. Electric generators.
 18. Fluorescence.
 19. Luminescence.
 20. Phosphorescence.
 21. Physics--Experiments.
 22. Physics--Research.
 23. Physics--Study and teaching.
 24. Spectrum analysis.
 25. Account books.
 26. Diagrams.
 27. Inventories.
 28. Notebooks.
 29. Photoprints.
 30. Reports.
- I. Hartman, Paul.

RGFN: 14\22\693
ID: NYCV84-A1840

CC: 9554 DCF: PROC: P

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.H329
1984

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Physics Department. Records, 1904-1932.

This addition includes physics notebooks (87 vols., 1904-1931) with research data of Edward L. Nichols, Horace L. Howes, Ernest G. Merritt, D.T. Wilber, and Mabel K. Slattery (later Mrs. George Paul Vincent) on phosphorescence, fluorescence, luminescence, and spectra, scientific photographs and charts, undated typescripts on various subjects by Nichols, Howes and Wilber, and a monograph (562 pp. typescript carbon, undated), apparently by Nichols and his associates, on the fluorescence and after-glow of solid solutions and their luminescence when rendered incandescent by a hydrogen flame, as well as accounts (1 vol., 1913-1932) pertaining to a Carnegie Institution grant for this research. Unpublished guide available. 5 linear ft.

Main entry:

Physics, Department of. Records, 1904-1931.

Cross references to main entry:

Carnegie Institution
Howes, Horace Leonard (PhD '15), 1882-1968
Merritt, Ernest George ('86), 1865-1948
Nichols, Edward Leamington, 1854-1937
Slatterly, Mabel Kathaleen [sic] (Mrs. George Paul Vincent) (MA '26), 1907-1968
Wilber, David Truxton ('10), 1888-1952

BOXES 33-37 ADDED 12.10.98
(FORMERLY 14/22/1008)

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KJ, 3/77

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Physics Department. ██████████ Records, 1904-1932.

Checklist, p. 1.

NOTE: I have tried to indicate whose notebooks are in each box. The notebooks do not always bear names. For each box, I have indicated the name(s) or initial(s) which appear on the notebooks within (I assume the initials stand for the authors as follows: "N"-Nichols; "H"-Howes; "M"-Merritt; "W"-Wilber.) I have also tried to indicate in general the titles or subjects of notebooks within each box. Some titles are somewhat illegible; some notebooks have no titles.

All boxes are ^{etc.} 4", except Box 15, which is 2".

BOX 1: Notebooks (6 MSS Vols.) on fluorescence; phosphorescence; luminescence. (N&M). 1904-1909.

BOX 2: 8 MSS Vols. on the sky; phosphorescence; uranyl compounds; other topics. (Some N&M). 1909-1910.

BOX 3: 6 MSS Vols. on fluorescence; phosphorescence; tables of wave lengths. (Some N&M). 1910-1911.

BOX 4: 6 MSS Vols. on photographic methods on uranyl salts; dehydration of uranyl salts; fluorescence. (N&M, Howes). 1912-1913.

BOX 5: 6 MSS Vols. on fluorescence; spectra; uranyl salts; tabulation of series. (N&M, Howes.) 1913.

BOX 6: 6 MSS Vols. on kunzite; fluorescence of uranyl; measurements of photographs of "Cragwall" salts. (N&M, Howes.) 1913-1914.

BOX 7: 7 MSS Vols. on spectra. (N&M, Howes). 1914-1915.

BOX 8: 7 MSS Vols. of photometry; absorption of Cragwall salts; on the various Ur. Nitrate Spectra. (N&M, Howes). 1915.

BOX 9: 6 MSS Vols. on phosphorence; fluorescence of double acetates; luminescence; luminescence of double acetates and double chlorides; luminescence of the uranyl double chloride. (Nichols, Howes). 1916-1917.

BOX 10: 6 MSS Vols. on phosphorescence; calcites; phos. of rare earths; uranyl acetates; rare earth spectra; history of light standard(s?) color photography of (illegible). (Nichols, Howes, W). 1917-1920.

BOX 11: 6 Vols. on summary of results on lumin. at high temperatures; notes on flame excitation; blue glow of oxides. (Nichols, Wilber, N&H). 1920-1922.

BOX 12: 6 MSS Vols. Study of flame spectra, flame luminescence; obs. on CG_2O_5 ; changes in uranyl salts in radioactivity. (Nichols, Howes, Wilber, Miss M.K. Slattery.) 1920-1925.

BOX 13: 4 MSS Vols. on uranium as an activator; rare earths; bead spectra, (Miss M.K. Slattery, Howes.) 1925-1928.

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CHECKLIST, PAGE 2

⊛ Please update description of Box 15, per notes, 1/18/65

BOX 14: 7 MSS Vols. on Cando-luminescence; candelum. of gadolinium; modes of excitation compared. (Miss M.K. Slattery, Nichols, Howes, Frances G. Weck.) Also includes "Carnegie Institution of Washington, Research Associate, Receipts and Disbursements"--1 MSS Vol. of accounts, bank statements, cancelled checks (1913-1932) re Carnegie Grant. 1913-1928-1932/.

BOX 15: ⊛ Photograph album containing scientific photos (spectra?); and folders of negatives, photos, charts; and loose charts. Also pamphlet, Some Studies of Metals By Means of X-Rays by S. Nishikawa and G. Asahara (repr. from Physical Review, N.S. Vol. XV, No. 1, Jan. 1920, pp. 38-45). ⊛ *captioned: "X-Ray Photographs showing effect of heat treatment on the strain in metal."* ⊛ *Photo album prepared by S. Nishikawa and G. Asahara and distributed to E.L. Nichols, June, 1919*

BOX 16: Charts, typescripts, handwritten items pertaining to:
"The Transformation Spectrum of the Ruby" by Nichols, Howes.
"Studies in Luminescence" by Nichols.
"Cathodo-Luminescence and the Luminescence of Incandescent Solids" by Nichols, Howes, Wilber.
"Physics in 1925" by Nichols.
"On the Active Agents in Lum. Calcites, Aragonites, and Dolomites" by ?
A monograph "which brings together in a single volume studies by the authors and by various collaborators on: the fluorescence and after-glow of solid solutions and the luminescence of such solids when rendered incandescent by contact with a hydrogen flame." (562 pp. carbon typescript.) Authors?

The notebooks cover the period 1904-1931; the Carnegie accounts volume covers the period 1913-1932.

- Box 17 Anthony, William Arnold
Bedell, Frederick
Merritt, Ernest
- Box 18 Moler, George Sylvanus
Nichols, Edward Leamington
- Box 19 Nichols, Edward Leamington
Nichols, Ernest Fox
- Box 20 Richtmyer, Floyd Karker

For info. on separate sheets

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ds, c. 1876-1958.

nical material, clippings, photographs, publications,
ng to Cornell physics professors William Arnold Anthony,
t George, Merritt, George Sylvanus Moler, Edward Leamington
er Richtmyer. The correspondence concerns efforts to
material, physics department administration, and the study
s letters of or between Merritt and Nichols (1906-1929) on
r, Bedell, Elihu Thomson and others (1926) concerning
Anthony and Moler; Albert R. Mann, Chicago Museum of Science
and others (1933) concerning the exhibition of the dynamo
letters from Bedell and other items (1937-1950) concerning
e date of his invention of a stabilized oscilloscope.
clude Max Born, William Weber Coblentz, John Henry Comstock,
Dexter Simpson Kimball. Also, miscellaneous items pertaining
x Nichols. 4 boxes (16 linear in.)

artment of.
1876-1958.

Cross reference to main entry:

Anthony, William Arnold, 1835-1908
Bedell, Frederick (MS '91, PhD '92),
1868-1958
Born, Max, 1882-
Coblentz, William Weber, 1873-
Comstock, John Henry ('74), 1849-1931
Farrand, Livingston, 1867-1939
Kimball, Dexter Simpson, 1864-1952
Mann, Albert Russell ('04), 1880-1947
Merritt, Ernest George ('86), 1865-1948
Moler, George Sylvanus (BME '75), 1851-1932
Nichols, Edward Leamington ('75), 1854-1937
Richtmyer, Floyd Karker (AB '04, PhD '10),
1881-1939
Thomson, Elihu, 1853-1937
Museum of Science and Industry (Chicago,
Illinois)
Nichols, Ernest Fox (MS '93, DSc '97), 1869-
1924

information, see page 2.

14/22/ ⁶⁹³
Boyer 17-20

Physics Department. Records, c. 1876-1958.

Additional information on the following:

Born, Max, 1882-

Correspondence between Ernest Merritt and German physicist Max Born (1926) concerning the latter's accepting a position at Cornell.

Coblentz, William Weber, 1873-

A letter from Coblentz (Nov. 22, 1937) containing reminiscences of Edward Leamington Nichols.

Comstock, John Henry ('74), 1849-1931

A letter (June 17, 1919) from Comstock to Edward Leamington Nichols on the latter's retirement.

Farrand, Livingston, 1867-1939

Correspondence between Frederick Bedell, Floyd Richtmyer and President Farrand (1923) when Richtmyer was considering another job. This correspondence reveals Richtmyer was dissatisfied with aspects of his job at Cornell. Also, other letters from Farrand.

Kimball, Dexter Simpson, 1865-1952

Correspondence between Ernest Merritt and Kimball (1930) concerning the recent high rate of failures in freshman physics.

A.B.I. ^{Winn}, 12-28-66

K. Jacklin, 3-1-77.

Box 17

ERNEST MERRITT

The Physical Review

A JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS
(Conducted by E. L. Nichols, Ernest Merritt, and Frederick Bedell.)

ON CATHODE RAYS AND SOME RELATED PHENOMENA
(An address by Vice-President Ernest Merritt, Chairman of Section B,
before the Section of Physics, American Association for the
Advancement of Science, New York Meeting, June 1900, vol. XLIX, 1900.)

EARLY DAYS OF THE PHYSICAL SOCIETY
(In The Review of Scientific Instruments with Physics News and Views,
vol. 5, no. 4, New Series, April 1934.)

BIOGRAPHICAL MEMOIR OF EDWARD LEWISTON NICHOLS, 1854-1937
(Presented at the National Academy of Sciences, 1940, published
National Academy of Sciences Biographical Memoirs, vol. XXI -
9th memoir.)

A List of the Publications of Ernest Merritt

	<u>estimated pages</u>
Official correspondence (Cornell Administration observation on an eclipse)	24
Biographical material	14
Publications	5
Miscellaneous material on banquet in 1935 honoring Merritt, i.e. cost, bills, etc.	<u>4</u>
Large photograph	Total 113

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Box 17
FREDERICK BEDELL, PROFESSOR OF PHYSICS, CORNELL UNIVERSITY

Printed Pamphlets

THE BEGINNINGS OF ELECTRICAL ENGINEERING AT CORNELL UNIVERSITY
(Reprinted from The Sibley Journal of Engineering, March 1925.)

A DYNAMIC SPEAKER
(Reprinted from The Sibley Journal of Engineering, May 1932.)

LATERAL AND DIRECTIONAL STABILITY OF AN AIRPLANE
(Reprinted from The Sibley Journal of Engineering, August 1918.)

HISTORY OF A.C. WAVE FORM, ITS DETERMINATION AND STANDARDIZATION
(Reprinted from American Institute for Electrical Engineers Transactions, Volume 61, 1942.)

DEVICE FOR INDICATING OSCILLOGRAPH CURVES AS STATIONARY
(April 2, 1929, Filed May 7, 1927.)

SOME CURIOUS CASES OF POWER FACTOR
(Reprinted from The Sibley Journal of Engineering, vol. XL, No. 4, April 1926.)

CHARACTERISTICS OF ADMITTANCE TYPE OF WAVE FORM STANDARD
(Manuscript for this paper was received July 18, 1916.)

COPPER SAVING IN THE JOINT TRANSMISSION OF DIRECT AND ALTERNATING CURRENTS

SUPPLEMENTARY EXPERIMENTS IN ALTERNATING CURRENTS
(Prepared for The Sibley Journal of Engineering by Frederick Bedell.)

THE JOINT TRANSMISSION OF DIFFERING CURRENTS
(Abstract of a paper read before the Electrical Society of Cornell University, February 2, 1903.)

IRREGULAR WAVE FORMS
(Reprinted from the proceedings of the American Institute of Electrical Engineers, June 1915.)

THE USE OF THE SYNCHRONOUS COMMUTATOR IN ALTERNATING MEASUREMENTS
(Reprinted from The Journal of the Franklin Institute, October 1913.)

A FREQUENCY MIXER
(Reprinted from The Journal of the Optical Society of America and Review of Scientific Instruments, vol. 13, No. 1, July 1913.)

THE DIVISION OF AN ALTERNATING CURRENT IN PARALLEL CIRCUITS WITH MUTUAL INDUCTION
(Reprinted from The Physical Review, vol. IV, No. 21, November - December 1896.)

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page 2 FREDERICK BEDELL

ON MAGNETIC POTENTIAL

(Reprinted from The Physical Review, vol. II, no. 10, January - February 1895.)

ADMITTANCE AND IMPEDANCE LOCI

(Advance sheets, confidential, for The Physical Society from The Physical Review, vol. IV; Read before the Physical Society of London, June 26, 1896.)

NON-HARMONIC ALTERNATING CURRENTS

(To be presented at the Regional Meeting of District No. 1 of the American Institute of Electrical Engineers, Pittsfield, Mass., May 25-28, 1927.)

TRANSFORMER DIAGRAMS EXPERIMENTALLY DETERMINED

(Frederick Bedell, assisted by A.W. Berresford, W.M. Craft and B. Gherardi, Jr., reprinted from Electricity, vol. V, nos. 17, 18, 19, November 8, 15, 22, 1893.)

STABILIZED OSCILLOSCOPE WITH AMPLIFIED STABILIZATION

(Frederick Bedell and Jackson G. Kuhn, reprinted from The Review of Scientific Instruments, vol. I, no. 4, April 1930.)

VOLTAGE REGULATING AUTO-TRANSFORMER

(Frederick Bedell and Jackson Kuhn, reprinted from The Review of Scientific Instruments, vol. III, no. 1, January 1932.)

LINEAR CORRECTION FOR CATHODE RAY OSCILLOGRAPH

(Frederick Bedell and Jackson Kuhn, reprinted from The Physical Review, pp. 993-996, vol. 36, no. 5, September 1, 1930.)

A LABORATORY B-VOLTAGE SUPPLY

(Frederick Bedell and Jackson Kuhn, reprinted from The Review of Scientific Instruments, vol. I, no. 4, April 1930.)

THE EFFECT OF IRON IN DISTORTING ALTERNATING CURRENT WAVE FORM

(Frederick Bedell and Elbert B. Tuttle, reprinted from vol. XXV of the Transactions of the American Institute of Electrical Engineers.)

DISTORTION OF ALTERNATING CURRENT WAVE CAUSED BY CYCLIC VARIATION IN RESISTANCE

(Frederick Bedell and E.C. Mayer. Manuscript of this paper received November 30, 1914.)

HEDGECOCK TRANSFORMERS AND CONDENSERS

(Frederick Bedell, K.B. Miller and G.F. Wagner, October 18, 1893, reprinted from vol. X of the Transactions.)

Box 17

page 3 Frederick Bedell

RESONANCE IN TRANSFORMER CIRCUITS

(Frederick Bedell and A.C. Crehore, reprinted from The Physical Review, vol. II, no. 12, May - June 1895.)

A CATHODE RAY OSCILLOGRAPH FOR SEVERAL SIMULTANEOUS WAVES WITH STABILIZED LINEAR TIME AXIS (Frederick Bedell and Herbert J. Reich, reprinted from Science, June 18, 1926, vol. LXIII, no. 1642, page 619.)

THE OSCILLOSCOPE: A STABILIZED CATHODE-RAY OSCILLOGRAPH WITH LINEAR TIME AXIS (Frederick Bedell and Herbert J. Reich, reprinted from Journal, American Institute of Electrical Engineers, June 1927.)

DERIVATION OF WAVE-FORM OF FLUX FROM WAVE-FORM OF ELECTROMOTIVE FORCE (Frederick Bedell and Raoph Bown, reprinted from The Electric Journal, Pittsburgh, Pa., January 1915.)

THE PHOTO-ELECTRIC CELL

(Dr. Robert C. Burt, E.E., reprinted from the September, October, and November 1927 issues of Radio Engineering.)

THE BURT-CELL (A PHOTO-ELECTRIC CELL)
(Advertisement)

Miscellaneous advertisements related to the publications of Frederick Bedell

Proceedings of The Electric Club of Cleveland, June 1903, published monthly under the Supervision of the Board of Managers.

The Scientific Monthly, April 1937.

One folder of miscellaneous data, clippings, etc., also miscellaneous correspondence.

	<u>estimated pages</u>
Correspondences 1922-1950	76
Technical papers 1942	10
Biographical material	<u>30</u>
(Duplicates & Photographs) Total	116
Additional folder of material:	
Correspondence	5
Notes, Sketches, blueprints, tracings, etc.	29
Newspaper clippings (including some biographical material)	25
Manuscript and typescript notes on Oscilloscope	30
Misc. advertisements	7
Typescript of some Bedell publications	2
Photographs (some duplicates)	3

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Box 17

WILLIAM ARNOLD ANTHONY

estimated pages

Biographies and correspondence
concerning them 43

(Duplicated and photographs)

Total 43

#14/22/665

Transferred to 1613
Boxes 17-20, 11-24

Box 18

GEORGE SILVANIUS HOLER

	<u>estimated rares</u>
Biographies (one letter)	11
Historical material and controversies concerning the dynamo invented by Holer	63
Duplicated and miscellaneous photographs	—
Total	74

Boy 19

EDWARD L. NICHOLS

Ueber Das
Von Glühenden Platin
Ausgestrahlte Licht
Ein Beitrag

zur
Allgemeinen Ausstrahlungslehre

Inaugural - Dissertation
zur

Erlangung Der Philosophischen Doctorwürde
An Der
Georg-August-Universität zu Göttingen
1879

ART. XLVIII. --NOTE ON THE ELECTRICAL RESISTANCE AND THE COEFFICIENT OF EXPANSION OF INCANDESCENT PLATINUM

(Read at the Cincinnati meeting of the American Association for the Advancement of Science, August 1881.)

PHOTOGRAPHY OF CONCEALED OBJECTS, THE ROBERTSON EFFECT

(Read before the Albany Institute, March 3, 1896.)

FRANKLIN'S RESEARCHES IN ELECTRICITY

(Reprinted from "The Record of the Celebration of the Two Hundredth Anniversary of the Birth of Benjamin Franklin", under the auspices of the American Philosophical Society, held at Philadelphia for promoting useful knowledge, April 17 - 20, 1906.)

SCIENCE AND THE PRACTICAL PROBLEMS OF THE FUTURE

(Reprinted from Science, N. S., XLIX, no. 731, p. 1-10, Jan. 1, 1909.)

REMARKS AT THE UNIVERSITY DINNER

(June 20, 1919.)

ON FOUNDER'S DAY

(Reprint from The Scientific Monthly, vol. XIV, no. 5, May 1922.)

JOINING THE INFRARED AND ELECTRIC WAVE SPECTRA

(With J. B. Tear, reprinted from the proceedings of The National Academy of Sciences, vol. 9, no. 6, pp. 211-214, June 1923.)

BIOGRAPHICAL MEMOIR OF ERNEST FOX NICHOLS, 1869-1924

(Presented to the National Academy of Sciences, 1925, Published by National Academy of Sciences Biographical Memoirs, vol. XXI - 6th memoir.)

STATEMENT CONCERNING THE ACCIDENT TO W. D. STEVENS

(A handwritten account of a boiler explosion at Rockefeller Hall, Cornell University, 1927.)

RECOLLECTIONS OF WILLIAM SUDDERS FRANKLIN

(From Kansas University Graduate Magazine, November 1930.)

List of books and scientific papers

Titles of papers published under Carnegie Grant 1904-1920 in Physical Review

Publications of E. L. Nichols 1878-1930.

	<u>estimated pages</u>
Honors received 1876-1930	74
Correspondence 1906-1930	100
Writings (3 pamphlets)	32
Biographies	
Correspondence of others	60
Concerning Nichols 1933-1949	<u>43</u>
Total	219

Additional Material

letters on his death 1937

duplicate writings about him

pictures of Nichols and a guest book

miscellaneous material on Ernest Fox Nichols

Box 20

FLOYD K. RICHTMYER

Publications

SOME PHOTO-ELECTRIC PROPERTIES OF THE ALKALI METALS, THE DEPENDENCE OF PHOTO-ELECTRIC CURRENT ON THE WAVE-LENGTH OF THE INCIDENT LIGHT
(Reprinted from the Physical Review, vol. XXX, no. 3, March 1910.)

SIGMA XI AND THE FUTURE
(Presidential Address before the Alpha Chapter of Sigma XI, May 17, 1919, upon the initiation of new members. Reprinted from Science, N.S., vol. L, no. 1282, pp. 75-81, July 25, 1919.)

THE ADDRESS OF DR. F.K. RICHTMYER BEFORE THE PURDUE CHAPTER OF SIGMA XI
(in Bulletin of Purdue University, vol. XXVI, no. 7, May 1926.)

ABSORPTION OF X-RAYS IN V RICUS ELEMENTS
(Reprinted from Nature, December 24, 1927.)

THE DIFFERENCE BETWEEN THE MAJORITY OF THE DISCOVERIES OF PRACTICAL THE SCIENTIST'S PENCHANT FOR PRYING INTO
(Reprinted from Scientific American, July 1930.)

X-RAYS AND THEIR USES
(A radio talk given November 21, 1930, over CBS under the auspices of the National Research Council.)

THE ROMANCE OF THE NEAT DECIMAL PLACE
(From Science, January 1, 1932.)

EDUCATION VERSUS TRAINING
(Reprinted for private circulation from Journal of Higher Education, vol. III, no. 9, December 1932.)

THE WIDTH OF SPECTRUM LINES
(Reprinted from Science, May 3, 1935, vol. 81, no. 2105, pp. 422-423.)

PHYSICS IS PHYSICS
(Reprinted from The American Physics Teacher, vol. 1, no. 1, Feb. 1933.)

GRADUATE WORK IN SCIENCE, PAST, PRESENT AND FUTURE
(Reprinted from Science, July 10, 1936, vol. 84, no. 2167, pp. 27-33.)

HOW DO INSULATORS INSULATE? NEW INSIGHT INTO THE RELATION BETWEEN CONDUCTIVITY AND THE ELECTRICAL STRUCTURE OF MATTER
(in Research Reports, to the Research Associates of the Massachusetts Institute of Technology, vol. V, no. 1.)

INTERNATIONAL SERIES IN PHYSICS
(F. K. Richtmyer consulting editor, McGraw-Hill Book Company.)

	<u>ESTIMATED PAGES</u>
Miscellaneous correspondence 1920-1949	30
Letters of condolence 1939-1940	30
Obituaries & biographical material 1931-1939	41
Writings 1910-1936	<u>21</u>
(Duplicates)	Total. 122

Folder 1 - John Troy negatives of double crystal district reading spectrometer x-ray and Siegbahn Bowl that were sent to Professor F. K. Richtmyer

Folder 2 - Photographs of double crystal district reading spectrometer x-ray and Siegbahn Bowl, one dated October 22, 1937

Article from the December 1934 issue of the Cornellian Council Bulletin with photo of Professor Richtmyer using the spectrometer

Photograph of Manne Siegbahn

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Acad #,
14/22/678 trans to
693, 11-84
Boxes 21-23

Physics Department. Records, 1881-c. 1946.

This addition comprises indexed department account books (29 vols., 1882-1948), inventory books (6 vols., 1881-1933), and a "Committee Report on Survey of Floor Area Requirements for Physics, Engineering Physics, and Astronomy for a 15-Year Period, 1947-1962" (35 pp. mimeo, c. 1946). 3 16" boxes (4 linear ft.)

Card entry: Physics, Department of. No cross references required.
Records, 1881-c. 1946.

Described in 1962-1966 Report, p. 167.

S.J. Gurshman; A.B. Levine, 3-68; K. Jacklin, 3-77.

Box 24.- Departmental correspondence, primarily of George S. Moler, 1893-1901. Folders are arranged in chronological order. E. Engst, 4-86. Photocopy and transcript of a letter from William A. Anthony to M. M. Graves, Jan. 15, 1894.

Hartman, Paul, Cornell Physics Dept., 1994

Copies of materials, some from the the Department of Energy archives relating to Robert Oppenheimer including letter to K. D. Nichols at the U.S. Atomic Energy Commission signed by faculty and students of the Physics and Mathematics Departments regarding the investigation into Oppenheimer.

Boxes 25-31 - Personnel records of faculty, staff, and graduate students prior to 1935, with computer file of key biographical data.

Reel.

Collection #14/22/693

Box 38

Contains Lab Group Theses (1960s and 1970s) and slides from the Aurora Data Center – some from the 1950s

Timeline of Faculty and Staff in the Department of Physics at Cornell University

Transcribed by Corey Ryan Earle, June 2005

Information comes from two large hand-drawn timelines removed from the Kroch Library Mezzanine, May 2005.
Photographs of timeline saved on CD, July 2005.

First timeline labeled:

The First Fifty Years of Physics in Cornell University

Drawn by G.S. Moler

Lettered by P. Mertz

Back of first timeline labeled:

#14/22/693

Top of Map Case

Second timeline labeled:

The Second Fifty Years of Physics in Cornell University

R. Spence (pencilled in small letters at bottom)

Names from 1940 to 1955 not in timeline form. Names were listed for each school year

Years represent school terms; each year begins with the fall term.

Physics Department Location Timeline

1867-1868 Morrill Hall

1868-1872 Old Wooden Chemical Laboratory

1872-1883 McGraw Hall

1883-1906 Franklin Hall

1906- Rockefeller Hall

Use the spreadsheet tabs at the bottom of the screen to navigate to different years.

A	Assistant
AA	Apparatus Assistant/Attendant
AAP	Acting Assistant Professor
AC	Account Clerk
AM	Assistant Mechanician
AP	Assistant Professor
AS	Administrative Secretary
Assoc. P.	Associate Professor
AAssoc. P.	Acting Associate Professor
B	Bookkeeper
C	Curator
CB	Clerk-Bookkeeper
Cl	Clerk
CO	Control Operator
C-T	Clerk-Typist
CW	Circuit Wireman
D	Draftsman
D-T	Development Technician
E	Engineer
EM	Experimental Machinist/Mechanician
ET	Electronics Technician
ESF	Electronics Shop Foreman
Ex. O.	Executive Officer
F	Fellow
FI	Faculty Instructor
GA	Graduate Student
GB	Glassblower
GCA	Geiger Counter Assembler
GS	Graduate Student
GT	Glassware Technician
HF	Honorary Fellow
HS	Head Stockkeeper
I	Instructor
IM	Instrument Maker
IT	Instrument Technician
JET	Junior Electronics Technician
JC	Junior Computer
JD	Junior Draftsman
JM	Junior Machinist/Mechanician
JST	Junior Synchrotron Technician
LA	Lecture Assistant/Attendant
LabA	Laboratory Assistant
LT	Laboratory Technician
M	Machinist/Mechanician
MSF	Machine Shop Foreman
MSS	Machine Shop Supervisor
MST	Machine Shop Technician
P	Professor
PE	Professor Emeritus
PS	Procurement Supervisor
RA	Research Assistant
RD	Resident Doctor
Res. Assoc.	Research Associate
S	Secretary
SA	Stockroom Assistant/Attendant
SECOND HALF MISSING?	

NAME	1940-1941	1941-1942	1942-1943	1943-1944	1944-1945	1945-1946	1946-1947	1947-1948	1948-1949	1949-1950	1950-1951	1951-1952	1952-1953	1953-1954	1954-1955
Adawi, I. H.															Sch. TA
Addiss, R. D. Jr.															
Addiss, R. R.															
Aldrich, R. W.						TA	TA	TA	TA	TA	RA	TA	TA	TA	
Alexander, F. B.															ET
Ames, I.												TA	ET TA	ET GS	
Ames, W. B.											M				VF
Amman, F. M.															
Anagnost, Mrs. M.					St	St									F
Anderson, J. R.													LT		RA
Anderson, Mrs.														TA LT S	RA
Arakengy, A.															S
Arkin, J.											S	S M	S		
Armitage, Mrs. C.													M		M
Aschmotat, M. A.															M
Aschmotat, M. H.															M
Aschmotat, M. R.															M
Ashkin, A.								GS	RA	RA	RA	RA		TA	RA
Atkinson, H. H.										RA					
Aung, S. T.												F	Res. Assoc.	Res. Assoc.	
Austern, N.						P TA M	TA M	TA M	M	M	M				
Bacher, R. F.	Assoc. P.	Assoc. P.	Assoc. P.	Assoc. P.	Assoc. P.	Res. Assoc.	Res. Assoc.	AP	AP						
Backstrand, W.															
Bailey, R. R.															
Baker, B. S.															
Baker, C. P.	Res. Assoc.	Res. Assoc.	Res. Assoc.												
Baker, N. H.															
Baldock, R.	GA														
Bane, H. N.								Sch	TA	RA	RA	RA			
Banta, H. W.	GB														
Baranger, M. J. L.										RA	RA	Res. Assoc. RA P	Res. Assoc. RA P		
Baranger, Mrs. E.															
Barnes, L. L.	AP	AP	AP	Assoc. P.	Assoc. P.	Assoc. P.	Assoc. P.	Assoc. P.	P F	P	P	Res. Assoc.	Res. Assoc.	P	P
Barnett, E. F.															
Baron, R.															
Barrett, P. H.															
Barries, R.															
Bascom, H. D.												Sch			
Baxter, L.								T TA							
Beach, L. A.							TA	TA		Res. Assoc.	Res. Assoc.				
Beaird, Mrs. B.															
Beard, D. B.				TA		GS RA	TA	TA	TA	RA				Ty	
Beard, Mrs. E.															
Bebb, W. H.															
Becker, J. H.								TA						GS	
Beddoe, A. G.					IT PE	IT PE	PE								
Bedell, F.				PE											
Bedo, D. E.															
Beer, A. C.		GA		GA	TA										
Begeal, Mrs. B.															
Begeal, Mrs. M.															
Behnken, Miss E.															
Bell, G. I.															
Benedict, T. S.															
Bennett, D. L.								TA	TA	TA	F TA	SA RA JM			
Berger, C.					WS	WS									
Berley, D.															
Berry, C. R.			GS	GA		TA T									
Bersing, L. A.															
Bess, L.								TA P							
Bethe, H. A.	P	P	P	P	P	P	P	P	P TA	P	P	P	P	P	P
Bever, Mrs. R.															
Beyer, R. T.			GA	GA	TA										
Bharadwaj, H.															
Bird, D. A.															
Bird, J. F.						ShA									
Bistline, J. A.						RA	RA								
Bjork, R. L.															
Blatt, J. M.			GA	GA								GS	TA	TA	TA
Bless, R. C.												GS	GS	GS	TA
Blewett, Mrs. M. H.	GS	GS													
Bludman, S. A.					TA										
Bock, R. O.	GA	GA													
Bodenstedt, E.															
Boehmer, H. W.			GA	GA	TA	RA									VF
Bohan, W. A.															
Bohlke, P. G.	GS														TA
Bojsen, H. G.															
Bollinger, L. M.										TA RA	RA				
Bond, Mrs. A.						RA	RA T	RA	RA						
Bondi, H.											Res. Assoc. Res. Assoc.	Res. Assoc.			
Borsellino, A.												Ty T TA	T	DT TA	D-T RA
Bower, Miss F.															
Bower, R. L.															
Bowers, D. L.															
Bowers, W. A.	GA	GA	I	I	I	I									
Boyd, F.															
Brace, Mrs. N. L.							M	M	M	M	M	EM GCA	GCA	JST	ST RA
Bradbury, T. C.															
Bradley, R. C.															
Branch, G. M.							TA Cl	TA	TA	RA	RA			Res. Assoc.	Res. Assoc.
Branch, Mrs. C.															
Brault, J. W.															
Bremmer, Miss R.	F	F													
Brode, H. L.									F	TA	TA				
Brodnak, Miss M. E.															
Brown, B. B.					Res. Assoc.	Res. Assoc.									St
Brown, B. M.								TA	TA	TA	TA	TA			

