

COLLECTIONS OF CORRESPONDENCE AND MANUSCRIPT DOCUMENTS

NAME OF COLLECTION: Lucy Julia HAYNER PapersSOURCE: Transferred from the Physics Library, 1981SUBJECT: Nuclear physics; Electron emissionsDATES COVERED: 1922-1937 NUMBER OF ITEMS: ca. 1500

STATUS: (check appropriate description)

Cataloged: Listed: Arranged: Not organized:

CONDITION: (give number of vols., boxes, or shelves)

Bound: Boxed: 3 Stored: LOCATION: (Library) Rare Book and Manuscript CALL-NUMBER Ms Coll/HaynerRESTRICTIONS ON USE None

DESCRIPTION: Manuscripts, typescripts, manuscript notes, diagrams, letters and reprints of the physicist, Lucy Julia Hayner (Mrs. Bernhard Kurrelmeyer) 1898-1971 (A.B., 1919; Barnard; A.M., 1920; Ph.D., 1925, Columbia). Hayner was professor of physics at Columbia University, 1929-1971, and these papers represent her early work while a graduate student and a teaching assistant at Columbia, 1920-1925, as a research physicist for General Electric, 1925-1928, and while a professor at Columbia, 1929-1937. The papers deal with research on the "shot effect" of electron emissions in vacuum tubes. There are notes on "arc" research, 1924-1925, notes and drafts of her 1925 Columbia Ph.D. dissertation: The Persistence of the Radiation Excited in Mercury Vapor, files of notes on "secondary emissions", 1922-1928, and notes, manuscript and typescript drafts of her two articles: "Shot Effect of Secondary Electrons Currents" (Physics VI, Oct. 1935) and "Shot Effect of Secondary Electrons from Nickel and Beryllium" (The Physical Review, LII, Nov. 1, 1937). The second article was co-authored by her husband, Bernhard Kurrelmeyer and there are also notes and drafts by him. In addition there are manuscripts and notes for his article: "The Photoelectric Conductivity of Sulphur (1927)". There are also a few letters from other physicists relating to the publication of these articles.

For a box list see over.

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Lucy J. Hayner Box List

Box 1: Secondary Emissions Research, 1922-1928

Box 2: Arc Research, 1924-1925
Columbia Dissertation, 1925

Box 3: Shot Effect Articles, 1935 & 1937
Bernhard Kurrelmeyer Article, 1927,