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Guide to the Herbert L. Anderson Papers 1911-1988



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Descriptive Summary

Identifier	ICU.SPCL.ANDERSONHL
Title	Anderson, Herbert L. Papers
Date	1911-1988
Size	95 linear feet (184 boxes)
Repository	Special Collections Research Center University of Chicago Library 1100 East 57th Street Chicago, Illinois 60637 U.S.A.

Abstract Herbert L. Anderson (1914-1988) physicist. The papers document Anderson's participation in the Manhattan Project, including his close collaboration with Enrico Fermi, as well as his subsequent career as a researcher, teacher and administrator.

Acknowledgments

The Herbert L. Anderson Papers were processed and preserved with support from a History of Modern Physics grant, provided by the American Institute of Physics.

Information on Use

Access

Series XV contains evaluative student material that is restricted for 80 years and budget material that is restricted for 50 years. The remainder of the collection is open for research.

Citation

When quoting material from this collection, the preferred citation is: Anderson, Herbert L., [Box #, Folder #], Special Collections Research Center, University of Chicago Library.

Biographical Note

Herbert L. Anderson was born in New York City on May 24th, 1914. By 1940, Anderson had earned an A.B. degree, a B.S. in electrical engineering, and a Ph.D. in physics, all from Columbia University. He also had helped to build Columbia's first cyclotron and, with that same machine, and under the direction of Nobel Prize Winner Enrico Fermi, he confirmed the discovery of nuclear fission in 1939. That was the first collaboration with the distinguished Italian professor and the beginning of a very close personal and professional relationship that, among other greatly important experiments and results, produced the first self-sustaining chain reaction of human history.

Anderson participated in the Manhattan Project from beginning to end. After producing the first chain reaction, the physicist was given the task of directing the construction of two new reactor piles. The first one, CP2, was to be built in the same place where the original pile had hosted the first reaction. The second, CP3, was built in Batavia, Illinois, where Argonne Laboratory was being constructed. After that, Anderson became the main consultant for DuPont while the corporation was building the Hanover reactors. In 1944, Anderson went to Los Alamos, where he played a leading role in his research group and participated in all the tests leading to the production of nuclear energy and the atom bomb.

After WWII, Anderson returned to the University of Chicago where he worked until he left for Los Alamos again in 1978. Herb, as he was known among the university community, was assistant professor of physics (1946-47), associate professor (1947-50), professor (1950-77), and distinguished service professor (1977-82). He directed the Enrico Fermi Institute from 1958 to 1962. He was appointed a Guggenheim fellow (1955-57) and a Fulbright lecturer in Italy (1956-57). He was elected to the National Academy of Sciences in 1960, to the American Academy of Arts and Sciences in 1978, and was awarded the Enrico Fermi Award for 1982.

In a biographical memoir written by Harold M Agnew, fellow physicist and colleague at Los Alamos, the author remarks: "Anderson's further work at the cyclotron dealt with rare modes of the π and μ decay. This helped establish the form of the weak interaction. His study of μ capture and μ mesic atoms turned out to be a very fruitful field of research, which he pursued with his students and a group of Canadian physicists for more than ten years. These experiments gave highly precise measurements of the size and shape of the distribution of electric charge in nuclei. They also provided a searching experimental test of vacuum polarization and the theory of quantum electrodynamics as it applied to muonic atoms".

Anderson became one of the capital names in the foundations of nuclear physics as well as a respected administrative authority in the university. He helped building accelerators in Brazil and in Italy and consulted frequently for the private sector. Anderson, who was an excellent organizer of people, kept a fruitful and productive relation with many participants of the Manhattan Project, and so he also participated indirectly in the construction of the first computer hardware and software.

In the last part of his career Anderson worked with biologist Theodore Puck in developing instrumentation to analyze the proteins made by living cells. In this project he designed a protein analyzer to measure the separated proteins by direct X-ray counting. Anderson was also the sponsor of many successful careers in Physics.

The physicist's physicist, as some close friends called Anderson, always declared a vast admiration for Fermi, whom he considered his most valuable teacher. That admiration crystallized in the publication Fermi's complete works with Anderson as editor.

Anderson died of Berylliosis at the age of 74 in Los Alamos, New Mexico.

Scope Note

The Herbert L. Anderson Papers are rich in documents concerning the development of nuclear energy, including research data and calculations, narrative accounts, photographs and press materials. The notebook in which Anderson and Fermi recorded the first uranium fission is of particular interest. Other notebooks show Anderson's careful and precise drafts and calculations for constructing CP2, CP3 and many other accelerators.

The collection also documents the development of the Enrico Fermi Institute and the Argonne National Laboratory, and the strong professional and personal ties that Anderson developed within the University of Chicago community.

Series I contains Anderson's personal and professional correspondence, primarily from the 1950s through the 1980s. His exchanges with other Manhattan Project veterans are particularly notable.

Series II: General, contains personal and biographical materials, including diaries, as well files documenting Anderson's relationships with industry and the private sector.

Series III includes research material, calculations and data gathered by Anderson and the papers that resulted from his research. Closely related material may be found in Series IV, which contains planning and administrative materials for experiments in which Anderson participated, and Series VIII, which includes his research notebooks.

Series V includes material related to Anderson's work on the development of particle accelerators, while Series VI documents his interest and involvement in the development of computer hardware and software.

Series VII documents Anderson's professional relationships with several major laboratories. The subseries on Los Alamos National Laboratory and the National Accelerator Laboratory are of particular interest because they show the development of those institutions.

Series IX includes information on conferences and events in which Anderson participated, including those at which he delivered papers or lectures.

Series X contains files compiled by Anderson about the life and work of Enrico Fermi. It is rich in biographical accounts, tributes and memoirs, and includes files on the editing of Fermi's Complete Works. Of particular interest are the preprints and reprints of all Femi Papers prior to his arrival to the United States. Similarly, the files in Series XI were collected by Anderson to document the history of the first nuclear chain reaction.

Series XII documents Anderson's career as a professor and administrator at the University of Chicago, including his work with affiliated institutions such as the Enrico Fermi Institute.

Series XIII contains visual materials, including photographs, lantern slides and transparencies. Series XIV contains oversized materials.

Series XV contains files to which access is restricted. Subseries 1 and 3 include evaluative student material, which is restricted for 80 years. Subseries 2 includes budget materials, restricted for 50 years.

Related Resources

The following related resources are located in the Department of Special Collections:

<http://www.lib.uchicago.edu/e/spcl/select.html>

Subject Headings

- Anderson, Herbert Lawrence
- Fermi, Enrico, 1901-1954
- University of Chicago. Dept. of Physics
- Nuclear energy -- Research
- Physicists
- Nuclear physicists

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