

MS-118: Dr. John Keto Papers

Collection Number: MS-118

Title: Dr. John Keto Papers

Dates: 1951-1981

Creator: Keto, John E., 1909-1996

Summary/Abstract:

The Dr. John Keto Papers consists of materials collected throughout his professional career as a research scientist. Dr. Keto was known for his work developing airborne radar equipment during World War II, pioneering the field of bionics, and heading the Aeronautical Systems Division on Wright-Patterson Air Force Base in Dayton, Ohio as the Chief Scientist in the 1960s. The collection includes correspondence, pamphlets, research reports, speeches, and symposium papers covering such topics as United States Air Force history, bionics, technical education, and scientific research and development in the military, universities, and other private companies.

Quantity/Physical Description: 4.5 linear feet

Language(s): English

Repository:

Special Collections and Archives, University Libraries, Wright State University, Dayton, OH 45435-0001, (937) 775-2092

Restrictions on Access: There are no restrictions on accessing material in this collection.

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Preferred Citation:

[Description of item, Date, Box #, Folder #], MS-118, Dr. John Keto Papers, Special Collections and Archives, University Libraries, Wright State University, Dayton, Ohio.

Acquisition: The collection was donated to Special Collections and Archives at Wright State University by Dr. John E. Keto on June 20, 1981.

Other Finding Aid:

The finding aid is available on the Special Collections & Archives, Wright State University Libraries web site at

http://www.libraries.wright.edu/special/collection_guides/guide_files/ms118.pdf. It is also available in the OhioLINK Finding Aid Repository at <http://ead.ohiolink.edu/xtf-ead/>.

Revisions: Finding aid updated according to DACS standard by Alyssa Stark and Toni Vanden Bos, December, 2018.

Processed by: Special Collections and Archives, June, 1981.

Arrangement:

The collections is arranged into 6 series:

- Series I: Advancements in Aerospace Technology, 1954-1966
- Series II: United States Air Force, 1959-1977
- Series III: Bionics, 1961-1966
- Series IV: Cox Memorial Coronary Heart Institute, 1963-1965
- Series V: Education in Scientific and Technical Disciplines, 1955-1972
- Series VI: Research and Development in the Military, 1951-1981

Biographical Note:

John E. Keto was born on June 9, 1909 in Maynard, Massachusetts. He received a degree in electrical engineering from the University of Cincinnati in 1932. From the same university, he later earned a graduate degree in physics. During graduate school, Keto found work in Cincinnati, Ohio and Detroit, Michigan, working for the Detroit Edison Company as a research employee. Keto later returned to the University of Cincinnati as a teaching fellow in the electrical engineering department. In 1935, he began his position with the Aircraft Radio Laboratory at Wright Field as a physicist. In 1940, Keto was reassigned as a project engineer developing airborne radar equipment for the Army Air Forces. He became chief engineer of the Radar Lab in 1943. Later he assumed the role of chief engineer for Wright-Patterson Air Force Base's newly established Radiation Lab. Keto eventually became the chief engineer of the Aeronautical Systems Division until his retirement in 1969, at the age of 60.

Dr. John E. Keto was heavily invested in the field of research and development. He was known for pioneering the field of bionics, the study of mechanical systems that function like living organisms. In 1946, he was awarded the Medal for Merit for his work developing airborne radar equipment during World War II.

Though it is not evident in his papers, he was an active member of the Wright State community. Keto sat on the Wright State University Advisory Committee in its founding year, 1966-1967. He continued his involvement as a member of the university's Board of Trustees, the Academic Affairs Board, and the Executive Committee. His position on the Board of Trustees ended in 1979. John E. Keto died in June of 1996 and is buried at Woodland Cemetery in Dayton, Ohio.

Scope and Content Note:

The collection primarily reflects the time Dr. Keto spent with the United States Air Force, his bionic research, as well as his interest in scientific research at the university level. The collection is arranged into six series.

Series I. Advancements in Aerospace Technology, consists of correspondence, pamphlets and papers concerning advancing technology in the years 1954 to 1966. The material deals mainly with progressing technology in the aerospace field emphasizing the military applications of high technology.

Series II. United States Air Force, deals with the historical aspects of the United States Air Force, both in the technical sense and in the strictly military aspect. The series consists of pamphlets, research papers and published documents covering the years 1959 to 1977, although the majority of the material concerns the early and mid-1960s.

Series III. Bionics, concerns the field of bionics with emphasis on its military application although much of the material deals with pure research in the field of bionics. Covering the time span from 1960 to 1967, with material ranging from correspondence to published documents, this series also contains articles and papers on the subject authored by Dr. Keto. A large percentage of the series deals with the Advisory Group for Aeronautical Research and Development (AGARD) of which Dr. Keto was associated.

Series IV. Cox Memorial Coronary Heart Institute, contains material related to the institute located in Dayton, Ohio. The series consists of correspondence, newspaper clippings, pamphlets, a paper dealing with the use of computers in the treatment of coronary patients, and a 1963 report of the Institute. The series covers the years from 1963-1965.

Series V. Education in Scientific and Technical Disciplines, consists of various reports, brochures, correspondence, pamphlets and information packets dealing with education in the scientific and technical disciplines. The material mainly concerns programs designed to enhance the degree of cooperation between the Air Force's technical schools and public institutions. Papers dealing with the Dayton Miami Valley Consortium are included in this series, as is material concerning the establishment of Wright State University in Dayton, Ohio. A large segment of the material also deals with the Ohio Research and Development Foundation (ORDF), which works to enhance the teaching of science in Ohio schools. Also included are several ORDF Executive Committee reports during the period Dr. Keto was a member of the committee.

Series VI. Research and Development in the Military, also contains some materials that pertain to work in various public and private institutions. The series consists of correspondence, reports, symposium papers and numerous published documents concerning Research and Development in the physical sciences, emphasizing its application to military uses. Covering the years from 1955 to 1965, the materials also deal with methods to improve management techniques in areas of Research and Development.

Subject Terms

Persons/Families

Keto, John E., 1909-1996

Organizations/Corporate Names

Air Force Research Laboratory (Wright-Patterson Air Force Base, Ohio)
Advisory Group for Aeronautical Research and Development (AGARD)
Ohio Research and Development Foundation
United States. Air Force -- Aviation electronics technicians
Cox Memorial Coronary Heart Institute (Dayton, Ohio)

Places

Dayton (Ohio)

Subjects

Bionics
Aerospace industries

Material Types

Correspondence
Pamphlets
Publications (documents)

Collection Inventory

<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
Series I: Correspondence, Pamphlets, and Papers			1954-1966
1	1	Advancing Technology – Pamphlets	1966
1	2	Advancing Technology	1966
1	3	Advancing Technology – Correspondence	1961
1	4	Advancing Technology – Papers	1954-1961
Series II: United States Air Force			1959-1977
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
1	5	Air Force – Historical – Pamphlets	1963-1965
1	6	Air Force – Historical	1959-1977
Series III: Bionics			1961-1966
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
1	7	Bionics - Advisory Group for Aeronautical Research and Development (AGARD) - Correspondence	1965-1966
1	8	Bionics – Correspondence	1961-1966
1	9	Bionics – Papers presented by Dr. Keto	1964-1965
1	10	Bionics – AGARD	1965
1	11	Bionics – AGARD	1965-1966
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
2	1	Bionics – AGARD Lecture Series	1965
2	2	Feedback – Institute for Cybercultural Research (ICR)	1964-1966
2	3	Bionics – Background Material	1965-1967
2	4	Bionics – Background Material	1960-1967
2	5	Bionics – Background Material	1965-1966
2	6	Bionics – Background Material	1962-1966
2	7	Bionics – Background Material	1962-1966
Series IV: Cox Memorial Coronary Heart Institute			1963-1965
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
2	8	Cox Heart Institute	1963-1965
2	8	Cox Memorial Coronary Heart Institute Report	1963
Series V: Education in Scientific and Technical Disciplines			1955-1972
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
3	1	Air Force/Ohio State Graduate Program	1964
3	2	Dayton Graduate Center of Ohio State University – Report	1958-1959

Box	File	Description	Date
3	3	Dayton Graduate Center of Ohio State University – Report	1960-1961
3	4	Dayton Graduate Center of Ohio State University – Report	1964-1965
3	5	Graduate Study Program at Wright Air Development Center	1957
3	6	Air Force Community Relations Program	1961-1962
3	7	Air Force Community Relations Brochures	1955-1964
3	8	Dayton-Miami Valley Consortium	1966-1972
3	9	Dayton-Miami Valley Consortium	1967
3	10	Dayton-Miami Valley Consortium - Maps	undated
3	11	Honors Seminar Program of Metro Dayton	1962
3	12	Ohio Research & Development Foundation (ORDF)	1963-1964
Box	File	Description	Date
4	1	Ohio Research and Development Foundation	1962-1965
4	2	Ohio Research and Development Foundation	1962-1965
4	3	Ohio Research and Development Foundation	1962-1965
4	4	Ohio Research and Development Foundation	1962-1965
4	5	Ohio Research and Development Foundation	1962-1965
4	6	Ohio Research and Development Foundation	1962-1965
4	7	Ohio Research and Development Foundation	1962-1965
4	8	ORDF Paper – Research & Development in the Dayton Area	1964
4	9	ORDF Report	1962
Box	File	Description	Date
5	1	ORDF Report	1964
5	2	Ohio's Participation in Research and Development	1962
5	3	Ohio High School Science Kit	1964
5	4	<i>Capability Study Committee of Ohio Research and Development Foundation - John E. Keto</i>	1962
5	5	Capabilities Study Committee Report of Capabilities Study: Progress to Date	1963-1964
5	6	Capabilities Study Committee Report and Recommendations	1964
5	7	Ohio Research and Development Capability Study	1962
5	8	An Analysis of the Research and Development Functions and Organization of the Proposed Ohio Development Authority As Set Forth in House Bill 270	1963
5	9	Catalyst... for Action in Ohio!	1965

<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
5	10	ORDF – Information Packet	1963
5	11	ORDF – Information Packet	1963-1965
5	12	ORDF – Information Packet	1964
5	13	ORDF – Information Packet	1963-1964
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
6	1	Annual Report to Contributors	1964 November
6	2	ORDF – Trustees Meeting	1964 December 14
6	3	ORDF – Report of Activities	1965 February
6	4	ORDF – Suggested Program of Activities	1963-1964
6	5	Manuel of Office Procedures	1963 August
6	6	Executive Committee Meeting	1963 January
6	7	Executive Committee Meeting	1963 January
6	8	Prospective Members	1963 January
6	9	Suggested Program	1963-1964
6	10	Wright State Research Center Planning Committee	1966-1967
6	11	Wright State Research Center	undated
6	12	Wright State Research Center	undated
6	13	Center for Advanced Studies and Research Action Plan	undated
Series VI: Military Research and Development			1951-1981
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
7	1	Wright Patterson Air Force Base Research	1955-1965
7	2	Research and Development – Correspondence	1958-1964
7	3	Report on Research – Wright Patterson Base	1962-1966
7	4	<i>Observed Electro-Gas dynamic Properties of Fluid Flows</i> – James Clark	1961 March
7	5	Air Research and Development Command - USAF	1956
7	6	Aeronautical Systems Division – Wright Patterson Base	1962
7	7	Annual Commandant's Report	1965
7	8	Long Range Facility Concept for Area "B"	1976
7	9	Engineering History from McCook Field (1917-1973)	1973
7	10	Compendium of Symposium Papers	1962
7	11	Air Research and Development Command Complex	undated
7	12	Research and Development – Correspondence	1960-1961
7	13	Research and Development	1938-1962
<u>Box</u>	<u>File</u>	<u>Description</u>	<u>Date</u>
8	1	Research and Development	1958-1968

Box	File	Description	Date
8	2	Research and Development	1956
8	3	Research and Development – American Management Association Seminar	1960
8	4	Research and Development – Bell Report	1962
8	5	Research and Development – Management Plan	1964
8	6	<i>The Changing Relationship Between the Air Force and the Aerospace Industry</i> – Robert E. Bickner	1964
8	7	Internal Work in Air Force Laboratories – Edward J. Ward Jr.	1955
8	8	An Inventory of Capabilities – Research and Development in the Dayton Area	1964
8	9	Current Problems in Management of Scientific Personnel	1963
8	10	Meeting for Personnel Interested in Advanced Energy Released Techniques	1961
8	11	<i>The Generation of Charged Colloids for Electric Propulsion via Heterogeneous Condensation in Vacuum of Metal Vapors on a Surface</i> - Bernard Hornstein	1964
8	12	Management of Hardened Systems Development	undated
8	13	Industry and Research in Yellow Springs	1964
8	14	<i>Viewpoint</i> Publication	1980-1981 Winter
8	15	University of Dayton Review of Research	1965-1966
8	16	The University of Denver – Boettner Center for Science, Engineering, and Research	undated
Box			
Box	File	Description	Date
9	1	Research and Development Pamphlets – Public Sector	1957, undated
9	2	<i>Defense Industry Bulletin</i> Vol. 2 No. 7	1966 July
9	3	<i>Landing Gear Vibration</i> – William J. Moreland	1951 October
9	4	Government-University Relations and University Research Reviews	1958, 1966, 1967
9	5	Advisory Group Meeting for Aeronautical Research and Development	1961
9	6	Electronics Research and Development and Defense Lab	1961
9	7	Conference on Management Problems of Military Research, Development, Technology, and Engineering	1960
9	8	Education and Federal Laboratories	1968