Eckart, Carl Henry  1902-1973

Carl Henry Eckart Papers, 1902-1973

Physical Description: 9 mss

Arrangement: The Carl Eckart Reprint Collection was received in the SIO Archives in pamphlet boxes. Many of these were labeled with subject headings, and others were unlabeled. The published reprints were separated from the collection and separate sheets prepared giving full citations for this material. The remaining material includes near print material, mimeographed documents, reports, photographs, slides and some correspondence. These were placed in folders labeled with the subject heading under which the material was originally filed. Reprint collection material received in unlabeled boxes was filed under "Miscellaneous Reprints." The reprint collection included many individual reports, notes and correspondence received in unlabelled boxes. Correspondence was arranged chronologically and placed in the correspondence series. A card file consisting of Eckart’s 1963 calendar and a list of his publications on index cards was placed in the calendar series. Individual reports and notes were arranged alphabetically by title in the notes and report series. Photographs, negatives, 35mm slides and lantern slides were arranged in the photographs and slides series. The original handwritten manuscript and the 1974 typescript for Our Modern Idol was placed in the series entitled manuscripts of publications. The original handwritten manuscripts are arranged as received. The pagination is not continuous, which may indicate that Eckart or Liebermann rearranged the manuscript for publication.

Description: This collection consists of two components, Eckart’s reprint collection and manuscripts for his last book, Our Modern Idol. The reprint collection actually includes reprints, preprints, manuscripts of publications sent to Eckart for comment, mimeographed notes of seminars, lecture notes and other notes made or received by Eckart, photographs, negatives, slides and a few reports of sponsored research. The reprint collection includes correspondence, but this consists almost entirely of letters of transmittal. The reprint collection includes a few course descriptions. These include description of courses in physical oceanography offered at the Scripps Institution of Oceanography, and notes on early courses offered at the UCSD Department of Physics. The reprint collection also includes some photographs, slides and lantern slides. These include images of equations possibly used for lectures and images of waves. Reprints for which full citations were available have been listed and separated from this collection. Roger Revelle gave Leonard Liebermann Carl Eckart’s handwritten manuscript of his last book and asked him to prepare Our Modern Idol for publication. Liebermann worked entirely from the handwritten copy in the preparation of the
book. The collection includes part of Eckart’s handwritten manuscript which was received in three loose-leaf notebooks numbered 2, 6 and 7. The remaining notebooks were apparently lost after the publication of the book. However the Walter Munk Papers at the SIO Archives includes a 1972 photocopy of notebooks 2-6.

Related Material: The main body of Carl Henry Eckart’s papers is at the Library of Congress, Washington D.C. Three inches of Eckart’s correspondence and other papers dated 1945-1973 can be found in the SIO Archives collection: SIO Biographical Files, Box 2, folders 164-176. This includes two folders of correspondence exchanged by Eckart and Heilbron concerning the American Institute of Physics' project Sources for History of Quantum Physics, a folder including talks presented at the memorial service for Eckart held at the SIO in 1973, and a copy of Eckart’s will. These files also include material documenting the efforts made by Leonard Liebermann and others to publish *Our Modern Idol: Mathematical Science* after Eckart’s death and a folder on the preparation of Eckart’s memorial for the National Academy of Sciences.

Eckart’s records as Director of the SIO appear to have been integrated into the SIO Subject Files. Two linear inches of his files documenting the Marine Research Committee and the formation of the California Cooperative Oceanic Fisheries Investigation (CalCOFI) can be found in SIO Archives accession 81-21, SIO Office of the Director (Eckart), Records, 1948-1954.

Records documenting Eckart’s long association with the Marine Physical Laboratory can be found among the MPL Records in the SIO Archives.

The Walter Munk Papers boxes 9 and 10 at the SIO Archives include a 1972 photocopy of Eckart’s handwritten manuscript of *Our Modern Idol*, notebooks 2, 3, 4, 5 and part of notebook 6.
FOLDER LIST

CORRESPONDENCE

[ Box 1 ]
[ Folder 1 ]
1954, 1966

[ Folder 2 ]
1967

[ Folder 3 ]
1970

[ Folder 4 ]
1972

CALENDAR

[ Box 1 ]
[ Folder 5 ]
Card File: 1963 Office Calendar and list of Carl Eckart Publications

MANUSCRIPTS OF PUBLICATIONS

[ Box 1 ]
[ Folder 6 ]

[ Folder 7 ]
Notebook 6, pp. 786-861.

[ Folder 8 ]
Notebook 6, pp. 862-872

[ Folder 9 ]
Notebook 6, pp. 873-941.1

[ Folder 10 ]
Notebook 7, pp. 942-999

[ Folder 11 ]
Notebook 7, pp. 1000-1069

[ Box 2 ]
[ Folder 1 ]
Notebook 7, pp. 1070-1052
MANUSCRIPTS OF PUBLICATIONS

Our Modern Idol: Mathematical Science, Notebook 2, pp. 145-294. (continued)

[ Box 2 ]
[ Folder 2 ]
Notebook 7, pp. 1053-904

[ Folder 3 ]
Our Modern Idol: Mathematical Science, Typescript June 1974, part 1, Chapters 1-8

[ Folder 4 ]
Part 1, Chapters 9-17

[ Folder 5 ]
Part 2, Chapters 1-6

[ Folder 6 ]
Part 3, Chapters 1-8

[ Folder 7 ]
Part 3, Chapters 9-14

[ Folder 8 ]
Part 3, Chapters 15-18

[ Folder 9 ]
Part 3, Chapters 19-23

[ Folder 10 ]
Part 3, Chapters 24-29

[ Folder 11 ]
Part 4, Chapters 1-5

[ Box 3 ]
[ Folder 1 ]
Part 4, Chapters 6-9

SUBJECT FILES

[ Box 3 ]
[ Folder 2 ]
Acoustics, 1951, 1970

[ Folder 3 ]
Class Notes for a Course in Ocean Waves, R.S. Arthur, August 1, 1951

[ Folder 4-5 ]
Class Projects Oceanography 222A, 1968
SUBJECT FILES (continued)

[ Box 3 ]
[ Folder 6 ]
CNY, 1968

[ Folder 7 ]
CNY: Convair, 1968

[ Folder 8 ]
CNY: Convair, Stratton Commission Report, 1969

[ Folder 9 ]
CNY: R.F. Devereux, 1968

[ Folder 10-11 ]
CNY: Ocean Data Systems, 1968

[ Box 4 ]
[ Folder 1 ]
CNY: Ocean Data Systems, 1968

[ Folder 2 ]
Geodesy and Gravity, 1954-1968

[ Folder 3 ]
Hydrodynamics, 1958-1960

[ Folder 4 ]
Geomagnetism, n.d.

[ Folder 5 ]
Mathematics, 1938-1968

[ Folder 6 ]
Miscellaneous Reprints, 1936-1968

[ Folder 7 ]
Ocean Currents, 1950-1957

[ Folder 8 ]
Ocean Currents-I, 1949

[ Folder 9 ]
Ocean Currents-II, 1950-1959

[ Folder 10 ]
Quantum Theory, 1962-1968

[ Folder 11 ]
Relativity and E.M. Theory, 1908-1968
SUBJECT FILES (continued)

[ Box 9 ]
[ Folder 1L ]
Sea Water, n.d.

[ Box 5 ]
[ Folder 1-3 ]
1956

[ Folder 4 ]
1956-1957

[ Folder 5 ]
1957-1969

[ Folder 6 ]
1966

[ Folder 7 ]
Seismology, 1956-1962

[ Folder 8 ]

[ Box 9 ]
[ Folder 2L ]
Thermodynamics and Continua II, n.d.

[ Box 5 ]
[ Folder 9 ]
Thermodynamics and Continua II, 1941-1953

[ Folder 10 ]
Turbulence I, 1953, 1967

[ Box 6 ]
[ Folder 1 ]
Turbulence, 1948-1970

[ Folder 2 ]
Turbulence II, 1953-1975

[ Folder 3 ]
UG Physics, 1960-1967

[ Box 9 ]
[ Folder 3L ]
Waves: Generation, n.d.
SUBJECT FILES (continued)

[ Box 6 ]
[ Folder 4 ]
Waves: Generation, 1947-1959

[ Folder 5 ]
Waves Internal I, 1965

[ Folder 6 ]

[ Folder 7 ]

[ Box 9 ]
[ Folder 4L ]
1967

NOTES AND REPORTS

[ Box 6 ]
[ Folder 10 ]
Notes, n.d.

[ Box 7 ]
[ Folder 1 ]
Notes, 1948

[ Folder 2 ]
#2, May 30, 1950

[ Folder 3 ]
Notes, June 2, 1952

[ Folder 4 ]
Chain Reactor Notes, Alvin Weinberg, 1956

[ Folder 5 ]
"Envelope Fluctuations of Non-Gaussian Noise," T.A. Magness, MPL-U-16 19 September 1955

[ Folder 6 ]
Free Oscillations of a Stratified Fluid #1, 1955
NOTES AND REPORTS (continued)

[ Box 7 ]  
[ Folder 7 ]  

[ Folder 8 ]  
Groups and Spectroscopy, Notes by Racah and Wigner, Princeton '53

[ Folder 9 ]  
"Impulsively Generated Waves," Rept. No. II- 12 August 1957, William G. Van Dorn, UCLJ Contract Nonr 233(35)

[ Folder 10 ]  
"Information Transfer and the Definition of an Organism," Walter Elsasser, n.d.

[ Folder 11 ]  
NDRC-14 Notes, 1948-1950

[ Box 8 ]  
[ Folder 1 ]  

[ Folder 2 ]  
Polar Coordinates, n.d.

[ Folder 3 ]  
The Scattering of Plane Waves by Soft Spherical Obstacles, Hart, Robert W. and Montroll, Elliott W. August 1950

[ Folder 4 ]  
Scattering of Sound by Inhomog. Engines, 1953

[ Folder 5 ]  
Statistical Mechanics of the Sea Surface, 1952

[ Folder 6 ]  
The Steady Flow of a Heavy Inviscid Fluid of Constant Density, Notes based on Lectures, Fall Semester, 1957-58 by Carl Eckart, February 12, 1958

[ Folder 7 ]  
Streaming and Similar Things, 1954

[ Folder 8 ]  
Thermodynamics of Mixtures, 1956

[ Folder 9 ]  
The Variation Principles of Hydrodynamics, Carl Eckart
PHOTOGRAPHS AND SLIDES

[ Box 8 ]
[ Folder 10 ]
Photographs and illustrations, n.d.

[ Folder 11 ]
Eckart Gleason Lantern Slides

[ Folder 12 ]
Dr. Eckart Slides 101-114 Shock Waves and Phase Boundaries, 14 lantern slides

[ Folder 13 ]
Waves--Ewing Ripples, Internal Waves, 35mm slides