Kelley, Henry J. Papers

Henry J. Kelley Papers

1948-1988

Title Statement

Kelley, Henry J. PapersHenry J. Kelley Papers, 1948-1988 Ms.1988.021

Author: Special Collections and University Archives Staff; Tyler Williams, Student Assistant; and LM Rozema, Archivist

Sponsor: The description of this collection was updated as part of the project, "Piercing the Veil: Creating Access to the Archives of American Aerospace Exploration at Virginia Tech," funded by the National Historical Publications and Records Commission (NHPRC) from 2022 to 2024.

Publication Statement

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Descriptive Summary

Unit ID

Ms.1988.021

Unit Date

1948-1988

Language

The materials in the collection are in English.

Abstract

The Henry J. Kelley Papers include correspondence, notes, drafts and offprints of publications, teaching materials, and research reports from 1948-1988 documenting the career of Kelley (1926-1988), an aerospace engineer and authority on flight optimization. The majority of the collection consists topic based subject/research files, files on individuals (correspondence, resumes, and papers), teaching/course materials, and conference/professional organizational files. There are drafts and final copies of papers by Kelley and others on a range of aerospace and other engineering topics. The collection also includes slides and transparencies, most of which depict equations, charts, graphs, and occasional text.

Creator

Kelley, H. J. (Henry Joseph), 1926-1988

Extent

14.8 Cubic Feet 40 boxes

Repository

Special Collections and University Archives, Virginia Tech

Administrative Information

Conditions Governing Access

The collection is open for research.

Conditions Governing Reproduction and Use

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Source of Acquisition

The Henry J. Kelley Papers were donated to Special Collections and University Archives in 1988.

Processing Information

The processing, arrangement, and description of the Henry J. Kelley Papers was completed in 2012. Original folder titles and physical order of Series I were retained. Series II was organized by archivists. Minimal description was completed in 1988. Updates were made to the description in 2023.

The description of this collection was updated as part of the project, "Piercing the Veil: Creating Access to the Archives of American Aerospace Exploration at Virginia Tech," funded by the National Historical Publications and Records Commission (NHPRC) from 2022 to 2024.

Preferred Citation

Researchers wishing to cite this collection should include the following information: [identification of item], [box], [folder], Henry J. Kelley Papers, Ms1988-021, Special Collections and University Archives, Virginia Tech, Blacksburg, Va.

Biographical Note

Henry Joseph "Hank" Kelley was born to Bernard Joseph and Margaret (nee McKillop) Kelley in New York City on February 8, 1926. He married Maureen Youngkin on October 26, 1958, and they had two children Henry Bernard and Maureen E.

Kelley was an aerospace engineer and authority on flight optimization. He earned a B.Ae.E. in 1948, M.S. in 1951, and an Sc.D. in 1958, all from New York University. From 1948-1963, he worked for Grumman Aircraft as a researcher and as assistant chief of the Research Department. In 1963, he founded Analytical Mechanics Associates, which worked with NASA on parameterized steering approaches for Apollo mission planning. From 1978 until his death in 1988, he served as a professor of Aerospace and Ocean Engineering at Virginia Tech and held the Christopher C. Kraft, Jr. Chair of the department.

Hank Kelley died on February 9, 1988.

External sources:

Cliff, E. M., "In Memory of Henry J. Kelley," Journal of Optimization Theory and Applications, Vol. 60, No. 1, January 1989, pp. 1-5, https://doi-org.ezproxy.lib.vt.edu/10.1007/BF00938794, accessed June 20, 2023.

Henry Joseph Kelley death certificate, Virginia, Deaths, 1912–2014. Virginia Department of Health, Richmond, Virginia. On Ancestry.com, https://www.ancestrylibrary.com/discoveryui-content/view/4677324:9278, accessed June 20, 2023.

"Cole-Kelley", *Roanoke Times*, May 30, 1993, on Virginia Tech website, https://scholar.lib.vt.edu/VA-news/ROA-Times/issues/1993/rt9305/930530/05280342.htm, accessed June 20, 2023.

Henry J. Kelley marriage record, New York State Marriage Index, New York State Department of Health, Albany, NY., on Ancestry.com, https://www.ancestrylibrary.com/discoveryui-content/view/712924:61632, accessed June 20, 2023.

Scope and Content

The Henry J. Kelley Papers include correspondence, notes, drafts and offprints of publications and research reports. The majority of the collection consists topic based subject/research files, files on individuals (correspondence, resumes, and papers), teaching/course materials, and conference/professional organizational files. There are drafts and final copies of papers by Kelley and others on a range of aerospace and other engineering topics.

The collection also includes slides and transparencies, most of which depict equations, charts, graphs, and occasional text. For the most part, these visual materials are unidentified.

Related Materials

Virginia Tech Special Collections and University Archives also has several publications by Henry J. Kelley in the Rare Book Collection.

Keywords

Aerospace engineers
Archives of American Aerospace Exploration (AAAE)
Faculty and staff
Science and Technology
University History
Virginia Polytechnic Institute (1944-1970)
Virginia Polytechnic Institute and State University (1970-)

Rights Statement for Archival Description

Arrangement

The collections is arranged into two series based on material type, Series I: Papers and Series II: Audiovisual Materials.

Series I: Papers remains physically in the order in which it was brought to Special Collections and University Archives. It is unclear if this was Henry Kelley's original order. Kelley's original folder labels were maintained when the collection was rehoused in 2012. In the inventory below, the series is intellectually organized alphabetically to facilitate searching.

Series II: Audiovisual Materials contains slides and transparencies, Although the slides are unidentified, most were grouped with rubber bands. Those groups were retained within the box of slides. Identified transparencies were left in their original groupings, and unidentified transparencies are grouped together.

Description of Subordinate Components

Series I: Papers

A. Das
box-folder 22 (box)
Container 6 (folder)

Active Constraint Logic (2 folders)
box-folder 5 (box)
Container 5-6 (folder)

Aerospace Proposal

box-folder 35 (box)
Container 17 (folder)

AFATL/FXG (2 folders)
box-folder 26 (box)
Container 3-4 (folder)

AFRPL/ARP (2 folders)
box-folder 36 (box)
Container 1-2 (folder)

AFSI
box-folder 23 (box)
Container 7 (folder)

American Institute of Aeronautics and Astronautics (AIAA)/American Astronautical Society (AAS) Astrodynamics Conference
box-folder 4 (box)
Container 9 (folder)

AIAA Atmospheric Flight
box-folder 23 (box)
Container 8 (folder)

AIAA Atmospheric Flight Mechanics Conference
box-folder 28 (box)
Container 8 (folder)

AIAA Fellow Nominations
box-folder 3 (box)
Container 12 (folder)

AIAA M-S Award
box-folder 20 (box)
Container 9 (folder)

AIAA Publications Committee (5 folders)
box-folder 28 (box)
Container 1-5 (folder)

AIAA Section
box-folder 20 (box)
Container 10 (folder)

Air Combat Analysis
box-folder 28 (box)
Container 9 (folder)

Aircraft Cruise-Dash Optimization
box-folder 17 (box)
Container 3 (folder)

Air Force Office of Scientific Research
box-folder 4 (box)
Container 12 (folder)

American Astronautical Society (AAS) Denver Paper
box-folder 3 (box)
Container 7 (folder)

Analytical Mechanics Associates (3 folders)
box-folder 23 (box)
Container 3-5 (folder)

Aerospace and Ocean Engineering (AOE) (Virginia Tech)
box-folder 32 (box)
Container 1 (folder)

AOE 3210 Vibrations
box-folder 7 (box)
Container 2 (folder)

AOE 3220
box-folder 10 (box)
Container 1 (folder)

AOE 3220 Records
box-folder 7 (box)
Container 1 (folder)

AOE 4800
box-folder 31 (box)
Container 8 (folder)

AOE 5240 (2 folders)
box-folder 31 (box)
Container 9-10 (folder)

AOE 6220
box-folder 31 (box)
Container 11 (folder)

AOE 6241 CC
box-folder 31 (box)
Container 7 (folder)

AOE 6241 (Virginia Tech) (2 folders)
box-folder 31 (box)
Container 1-2 (folder)

AOE 6241 (4 folders)
box-folder 31 (box)

Container 3-6 (folder)

AOE 6242 (4 folders)
box-folder 34 (box)
Container 8-11 (folder)

AOE Faculty (2 folders)
box-folder 34 (box)
Container 3-4 (folder)

AOE Teaching (3 folders)
box-folder 34 (box)
Container 5-7 (folder)

Applicants
box-folder 32 (box)
Container 7 (folder)

Archives
box-folder 32 (box)
Container 11 (folder)

ARO
box-folder 19 (box)
Container 11 (folder)

Astrodynamics and Orbit Determination
box-folder 3 (box)
Container 8 (folder)

Balady (6 folders)
box-folder 36 (box)
Container 8-13 (folder)

BMO (2 folders)
box-folder 17 (box)
Container 6-7 (folder)

Boost-Glide
box-folder 22 (box)
Container 7 (folder)

Bounded Control Comparison (3 folders)
box-folder 35 (box)
Container 6-8 (folder)

Boyd
box-folder 8 (box)
Container 8 (folder)

Brodsky
box-folder 8 (box)
Container 6 (folder)

Buning
box-folder 8 (box)
Container 9 (folder)

Burroughs
box-folder 3 (box)
Container 10 (folder)

Burroughs Trajectory Optimization
box-folder 27 (box)
Container 1 (folder)

Calise
box-folder 11 (box)
Container 2 (folder)

Cat Data (2 folders)
box-folder 34 (box)
Container 1-2 (folder)

Chattering Cruise
box-folder 22 (box)
Container 5 (folder)

Ching-Fang Lin (2 folders)
box-folder 33 (box)
Container 7-8 (folder)

Chin-Lin, Yuan
box-folder 8 (box)
Container 10 (folder)

Chuang and Speyer
box-folder 28 (box)
Container 6 (folder)

Classroom Readings
box-folder 10 (box)
Container 2 (folder)

Collision Avoidance Maneuvers for Ships
box-folder 4 (box)
Container 10 (folder)

Conjugate Methods
box-folder 8 (box)

Container 12 (folder)

CONMIN Proposal
box-folder 32 (box)
Container 10 (folder)

Constrained Filter
box-folder 35 (box)
Container 1 (folder)

Contacts
box-folder 23 (box)
Container 6 (folder)

Coppola/Fallin (3 folders)
box-folder 20 (box)
Container 11-13 (folder)

Cruise (6 folders)
box-folder 21 (box)
Container 1-6 (folder)

Cruise-Dash Optimization
box-folder 22 (box)
Container 4 (folder)

D. Bell
box-folder 32 (box)
Container 8 (folder)

D. Bristol
box-folder 8 (box)
Container 7 (folder)

D.W. Rew
box-folder 1 (box)
Container 5 (folder)

Danesi
box-folder 19 (box)
Container 1 (folder)

DARPA-AUV
box-folder 8 (box)
Container 16 (folder)

Das OCAM Paper (2 folders)
box-folder 9 (box)
Container 1-2 (folder)

Defense Technical Information Center (4 folders)
box-folder 32 (box)
Container 2-5 (folder)

Defense Technical Information Center (DTIC) Technical Report
box-folder 21 (box)
Container 8 (folder)

Dubrovnik
box-folder 11 (box)
Container 8 (folder)

Dynamical System Parameters
box-folder 28 (box)
Container 11 (folder)

Edelbaum (2 folders)
box-folder 32 (box)
Container 12-13 (folder)

Eglin (2 folders)
box-folder 17 (box)
Container 4-5 (folder)

"Energy Climb"
box-folder 3 (box)
Container 5 (folder)

Energy-Climb Transitions (4 folders)
box-folder 19 (box)
Container 2-5 (folder)

Energy State Revisited (2 folders)
box-folder 21 (box)
Container 10-11 (folder)

Erzberger
box-folder 11 (box)
Container 7 (folder)

Excellence
box-folder 33 (box)
Container 12 (folder)

F. Kaiser Report (2 folders)
box-folder 18 (box)
Container 1-2 (folder)

Flight Test Data
box-folder 35 (box)

Container 14 (folder)

Fossard
box-folder 6 (box)
Container 4 (folder)

Games (2 folders)
box-folder 7 (box)
Container 4-5 (folder)

The Goddard Problem
box-folder 22 (box)
Container 3 (folder)

Gracey (3 folders)
box-folder 19 (box)
Container 7-9 (folder)

Grad Co-op
box-folder 6 (box)
Container 5 (folder)

Gradient Chapter
box-folder 27 (box)
Container 3 (folder)

Gradient-Envelope
box-folder 27 (box)
Container 2 (folder)

GRD Report RE- 159
box-folder 26 (box)
Container 5 (folder)

Grocery Slides-Summer '81
box-folder 19 (box)
Container 6 (folder)

Grumman Research Department
box-folder 26 (box)
Container 6 (folder)

Gruver
box-folder 8 (box)
Container 13 (folder)

Guidance and Control
box-folder 28 (box)
Container 10 (folder)

Guidance Law Handbook for classical Proportional Navigation (2 folders)
box-folder 4 (box)
Container 1-2 (folder)

H. Ashley
box-folder 8 (box)
Container 4 (folder)

H. Robbins
box-folder 1 (box)
Container 6 (folder)

H. Stalford
box-folder 1 (box)
Container 4 (folder)

Henry J. Kelley Thesis
box-folder 21 (box)
Container 9 (folder)

Hix Proposal
box-folder 6 (box)
Container 3 (folder)

Honor System
box-folder 33 (box)
Container 14 (folder)

Honorifics Committee (2 folders)
box-folder 6 (box)
Container 1-2 (folder)

Houlihan AIAA m/s
box-folder 22 (box)
Container 8 (folder)

I. B. Rhodes
box-folder 4 (box)
Container 8 (folder)

International Federation of Automatic Control (IFAC), 1987
box-folder 10 (box)
Container 5 (folder)

IFAC 10th World Congress
box-folder 22 (box)
Container 1 (folder)

IFAC Ardema
box-folder 13 (box)

Container 4 (folder)

IFAC Advisory Comm. (6 folders)
box-folder 16 (box)
Container 1-6 (folder)

IFAC Budapest
box-folder 13 (box)
Container 3 (folder)

IFAC Capri Workshop
box-folder 20 (box)
Container 5 (folder)

IFAC/Klaus Well
box-folder 13 (box)
Container 5 (folder)

IFAC Kyoto (2 folders)
box-folder 13 (box)
Container 1-2 (folder)

IFAC/Mathematics of Control Committee
box-folder 13 (box)
Container 6 (folder)

IFAC MOC (7 folders)
box-folder 25 (box)
Container 1-7 (folder)

IFAC Munich (2 folders)
box-folder 20 (box)
Container 1-2 (folder)

IFAC Sochi (2 folders)
box-folder 27 (box)
Container 8-9 (folder)

IFAC Rauch (3 folders)
box-folder 5 (box)
Container 1-3 (folder)

Inlet
box-folder 33 (box)
Container 13 (folder)

J. Case
box-folder 8 (box)
Container 11 (folder)

J. Dunn
box-folder 8 (box)
Container 14 (folder)

J. Ogg
box-folder 1 (box)
Container 1 (folder)

J. Speyer
box-folder 1 (box)
Container 3 (folder)

JACC
box-folder 11 (box)
Container 6 (folder)

JACC 1981
box-folder 9 (box)
Container 4 (folder)

JACC/JGC Reprisal m/s
box-folder 9 (box)
Container 6 (folder)

JGC
box-folder 9 (box)
Container 5 (folder)

Joseph Dunn
box-folder 26 (box)
Container 7 (folder)

Jzkubowski letters
box-folder 12 (box)
Container 3 (folder)

K-T Screening (2 folders)
box-folder 33 (box)
Container 4-5 (folder)

Katzir
box-folder 30 (box)
Container 1 (folder)

Kelley
box-folder 23 (box)
Container 9 (folder)

Kelley-GRD
box-folder 26 (box)

Container 8 (folder)

Kelley & Klaus Well, ACC 1983
box-folder 5 (box)
Container 4 (folder)

Kelley Publications
box-folder 22 (box)
Container 2 (folder)

Kelley Thesis (2 folders)
box-folder 26 (box)
Container 1-2 (folder)

Kiforenko
box-folder 17 (box)
Container 2 (folder)

Kirklova
box-folder 12 (box)
Container 2 (folder)

Khalil
box-folder 15 (box)
Container 1 (folder)

Knox (2 folders)
box-folder 33 (box)
Container 1-1 (folder)

Kokotovic/Perkins
box-folder 33 (box)
Container 3 (folder)

Kraft Chair
box-folder 12 (box)
Container 1 (folder)

Kraft Lecture
box-folder 12 (box)
Container 6 (folder)

L. Anderson
box-folder 8 (box)
Container 5 (folder)

Langley Intercept (2 folders)
box-folder 12 (box)
Container 4-5 (folder)

Lawden's Problem
box-folder 11 (box)
Container 1 (folder)

Lefton
box-folder 23 (box)
Container 1 (folder)

Leitmann
box-folder 33 (box)
Container 6 (folder)

Leitmann chapter
box-folder 35 (box)
Container 5 (folder)

LeMercier Part I (3 folders)
box-folder 20 (box)
Container 6-8 (folder)

Lifting Vehicle Entry Range Analysis
box-folder 28 (box)
Container 7 (folder)

Lunar Trajectory Error Coefficents
box-folder 35 (box)
Container 15 (folder)

Mancill (5 folders)
box-folder 36 (box)
Container 3-7 (folder)

Marchal (3 folders)
box-folder 33 (box)
Container 9-11 (folder)

Mauchly
box-folder 3 (box)
Container 4 (folder)

McGlinchey
box-folder 30 (box)
Container 7 (folder)

Meirovitch
box-folder 28 (box)
Container 12 (folder)

Mendon G&C (2 folders)
box-folder 18 (box)

Container 3-4 (folder)

Midcourse
box-folder 3 (box)
Container 9 (folder)

Mills/Clare (2 folders)
box-folder 15 (box)
Container 7-8 (folder)

Moyer m/s
box-folder 7 (box)
Container 6 (folder)

Multiobjective Optimization
box-folder 4 (box)
Container 6 (folder)

NSF
box-folder 2 (box)
Container 3 (folder)

NSF Collision Avoidance (2 folders)
box-folder 2 (box)
Container 1-2 (folder)

NSF Singular
box-folder 15 (box)
Container 2 (folder)

NASA Langley Oct. '85-86 Renewel
box-folder 17 (box)
Container 1 (folder)

NAVAIR (Naval Air Systems Command) Exec. Inst.
box-folder 2 (box)
Container 9 (folder)

Neo Classical Cruise
box-folder 22 (box)
Container 9 (folder)

Oberwolfach (2 folders)
box-folder 20 (box)
Container 3-4 (folder)

OCAM [Optimal Control Applications and Methods?]
box-folder 2 (box)
Container 4 (folder)

Off-Campus (5 folders)
box-folder 24 (box)
Container 1-5 (folder)

Olsder
box-folder 2 (box)
Container 7 (folder)

Optimality of Intermediate Thrusts Arcs in Rotation Potential Force Fields
box-folder 4 (box)
Container 7 (folder)

Optimization for Burroughs
box-folder 21 (box)
Container 7 (folder)

Optimum Thrust Trajectories in General Central Force Fields
box-folder 4 (box)
Container 5 (folder)

P&T
box-folder 1 (box)
Container 2 (folder)

Pachter
box-folder 7 (box)
Container 3 (folder)

Pendray
box-folder 2 (box)
Container 6 (folder)

PKA Menon Prelim Fall '82
box-folder 15 (box)
Container 4 (folder)

Polynomial Proposal
box-folder 35 (box)
Container 2 (folder)

Powers
box-folder 2 (box)
Container 5 (folder)

A Problem of Collision Avoidance
box-folder 4 (box)
Container 4 (folder)

Proposal for Oscillatory Cruise Research
box-folder 8 (box)

Container 15 (folder)

PSQ
box-folder 11 (box)
Container 3 (folder)

Publications of Henry J. Kelley (4 folders)
box-folder 14 (box)
Container 1-4 (folder)

Publications by Others
box-folder 14 (box)
Container 5 (folder)

Quadratic Feedback
box-folder 35 (box)
Container 4 (folder)

Quasi Circular Guidance
box-folder 35 (box)
Container 16 (folder)

Quasi-circular Orbital Rendezvous
box-folder 27 (box)
Container 7 (folder)

R. Kumar (4 folders)
box-folder 30 (box)
Container 2-5 (folder)

Redstone
box-folder 15 (box)
Container 5 (folder)

RE Entry
box-folder 6 (box)
Container 6 (folder)

Re Entry RFP
box-folder 1 (box)
Container 7 (folder)

Resumes (4 folders)
box-folder 24 (box)
Container 6-9 (folder)

Rew m/s
box-folder 9 (box)
Container 3 (folder)

RPL Contract
box-folder 3 (box)
Container 13 (folder)

Russian Mathematics Institutes Reports
box-folder 4 (box)
Container 11 (folder)

RV Manuevering
box-folder 24 (box)
Container 10 (folder)

Samso (3 folders)
box-folder 29 (box)
Container 5-7 (folder)

Saxena
box-folder 8 (box)
Container 1 (folder)

SCHEV [Most likely State Council of Higher Education for Virginia]
box-folder 32 (box)
Container 6 (folder)

Schy
box-folder 29 (box)
Container 9 (folder)

SDI (5 folders)
box-folder 26 (box)
Container 9-13 (folder)

2nd VAR
box-folder 35 (box)
Container 12 (folder)

Seywald (2 folders)
box-folder 30 (box)
Container 8-9 (folder)

Shankar
box-folder 30 (box)
Container 6 (folder)

Shiner
box-folder 29 (box)
Container 8 (folder)

Shiner and Speyer
box-folder 23 (box)

Container 11 (folder)

Sigma Gamma Tau
box-folder 29 (box)
Container 10 (folder)

Single Perturbations in Flight Mechanics
box-folder 10 (box)
Container 4 (folder)

Singular Cases (3 folders)
box-folder 35 (box)
Container 9-11 (folder)

Singular Perturbation Analysis
box-folder 4 (box)
Container 3 (folder)

Siry/Geyzing/McRuer
box-folder 3 (box)
Container 1 (folder)

Sobieski
box-folder 29 (box)
Container 11 (folder)

Solar Sailing Gradient
box-folder 3 (box)
Container 3 (folder)

Solar Sailing Indirect
box-folder 27 (box)
Container 4 (folder)

Sussman Rodin
box-folder 8 (box)
Container 2 (folder)

Tapley
box-folder 29 (box)
Container 12 (folder)

Topics in Optimization
box-folder 23 (box)
Container 2 (folder)

Tracking Data
box-folder 35 (box)
Container 13 (folder)

Traffic Comm.
box-folder 10 (box)
Container 3 (folder)

TRANS AC Note
box-folder 3 (box)
Container 6 (folder)

3-D Boost Turns (2 folders)
box-folder 27 (box)
Container 5-6 (folder)

3-D Singular Perturbation
box-folder 29 (box)
Container 13 (folder)

Tsoitras
box-folder 8 (box)
Container 3 (folder)

T-V Energy Turns m/s
box-folder 11 (box)
Container 5 (folder)

Unidentified Sub-routine data
box-folder 14 (box)
Container 6 (folder)

U. Michigan Talk
box-folder 3 (box)
Container 2 (folder)

V.B. Haas
box-folder 11 (box)
Container 4 (folder)

Valentine Device
box-folder 35 (box)
Container 3 (folder)

Variable Sweep Paper (2 folders)
box-folder 29 (box)
Container 15-16 (folder)

Visser (5 folders)
box-folder 24 (box)
Container 11-15 (folder)

V.P.I. (4 folders)
box-folder 29 (box)

Container 1-4 (folder)

W. Boyne
box-folder 32 (box)
Container 9 (folder)

Well [Klaus]
box-folder 23 (box)
Container 10 (folder)

Weston
box-folder 15 (box)
Container 3 (folder)

Weston Dissertation (2 folders)
box-folder 18 (box)
Container 5-6 (folder)

Whitaker/Moyer
box-folder 29 (box)
Container 14 (folder)

XW
box-folder 35 (box)
Container 18 (folder)

Yang P.C.
box-folder 15 (box)
Container 6 (folder)

Z40
box-folder 3 (box)
Container 11 (folder)

Zaremba
box-folder 19 (box)
Container 10 (folder)

Series II: A/V Materials

Transparencies (Identified)
box 37

Scope and Content
This box contains transparencies related to the following topics: Differential Turns Energy Model, Singular Perturbations, Variable Metric Projection, and Second Order Variational Approximation (SECVAR).

Transparencies (Unidentified)
box 38
box 39

Slides (Unidentified)
box 40