

# Keith M. Baldwin Collection MTU-260

This finding aid was produced using ArchivesSpace on January 10, 2025. Material is in English Describing Archives: A Content Standard

Michigan Technological University Archives and Copper Country Historical Collections

1400 Townsend Drive Houghton 49931 copper@mtu.edu

URL: http://www.lib.mtu.edu/mtuarchives/

# **Table of Contents**

Summary Information	3
Biographical Note	3
Scope and Contents	4
Administrative Information	4
Controlled Access Headings	5
Collection Inventory	5
Thesis Advising	5
Publications	6
Research Files	6
Visual Materials	7

### **Summary Information**

**Repository:** Michigan Technological University Archives and Copper

**Country Historical Collections** 

**Title:** Keith M. Baldwin Collection

**ID:** MTU-260

**Date [inclusive]:** 1951-1984

Physical

0.58 cubic feet (2 manuscript boxes)

**Description:** 

**Language of the** English.

**Material:** 

Mixed Materials 1

[box]:

Mixed Materials 2

[box]:

**Abstract:** Collection, 1951-1984, of theses, research material, and papers

covering the career of Michigan Technological University

Professor of Physics, Keith Baldwin.

#### **Preferred Citation**

MTU-260, Keith M. Baldwin Collection, Michigan Technological University Archives and Copper Country Historical Collections, Houghton, Michigan.

## **Biographical Note**

Keith Baldwin was born May 25, 1928 in Buffalo, New York, later moving with his family to Michigan and residing in Lansing in 1937. He graduated from Eastern High School in Lansing in 1946 and Michigan State University in 1950, later earning a Master's degree in Physics (1955) from University of Maine-Orono. Baldwin served in the U.S. Military, teaching at Officer Signals School, as well as training new recruits during the Korean War.

Baldwin developed an interest in radio repair and electronics in his youth before pursuing a degree in physics, which he earned from Michigan State University in 1950, in addition

<sup>^</sup> Return to Table of Contents

to a state high school teaching certificate in physics and mathematics and a M.S. in physics from University of Maine in 1955. He began his professional career at Raytheon Research Lab in Maine, establishing himself as a leader in the fields of re-entry plasma physics and microwave diagnostics, and highly qualified in electronics. He left the industry in 1963 to pursue a career in teaching at the Michigan College of Mining and Technology in Houghton, Michigan. There he worked as an associate professor in physics. In addition to teaching physics coursework and senior lab, he served as faculty advisor to graduate students. In the 1970s, Baldwin became involved with the Keweenaw Research Center (KRC), working on vehicle projects and secured contracts for vehicle testing. Among his achievements were the work he did to develop laboratory physics equipment marketed to physics teachers. Baldwin retired from teaching in 1984 and created his own company, KMB/Tech, which partnered with the university.

^ Return to Table of Contents

## **Scope and Contents**

Collection, 1951-1984, of theses, research material, and papers covering the career of Michigan Technological University Professor of Physics, Keith Baldwin. Included in the collection are published works by or co-authored by Baldwin, memos and/or papers sent to Baldwin on topics related to Baldwin's area of research, copies of theses for which Baldwin served as faculty advisor for, and research files. Also included are color photographs and slides taken by Keith Baldwin. Images in the collection show military vehicles at the Keweenaw Research Station (KRS) and the USS Edson DD 946 docked in Houghton, Michigan in 1983 or 1984. Also included are two photographs of the Michigan Tech campus and one of the Portage Lake Lift Bridge and downtown Houghton from a distance, as well as color slides of snow statues during the 1964 Winter Carnival.

^ Return to Table of Contents

### **Administrative Information**

#### **Publication Statement**

Michigan Technological University Archives and Copper Country Historical Collections

1400 Townsend Drive Houghton 49931 copper@mtu.edu

URL: http://www.lib.mtu.edu/mtuarchives/

### **Conditions Governing Access**

Available for use in the Michigan Technological University Archives and Copper Country Historical Collections.

### **Conditions Governing Use**

Various copying restrictions apply. Guidelines are available from Michigan Technological University Archives and Copper Country Historical Collections.

## **Controlled Access Headings**

- Physics
- Ships
- Universities and colleges -- Faculty -- Michigan -- Houghton
- Hancock (Mich.)
- Houghton (Mich.)
- Portage Lake Lift Bridge (Mich.)
- Masters theses
- Notes
- Photographs
- Research (Document genres)
- Slides (photographs)
- Michigan Technological University

## **Collection Inventory**

Thesis Advising		
Title/Description	Instances	
Pama A. Croy thesis, annotated, 1967	box 1	folder 1
Pama A. Croy thesis, unannotated, 1967	box 1	folder 2
Diagrams and negatives of photos for Croy thesis, 1967	box 1	folder 3

<sup>^</sup> Return to Table of Contents

<sup>^</sup> Return to Table of Contents

Title/Description	Instances	
Abstract for Symposium, Ballistic Missiles, Microwave Direct Re-Entry Telemetry System, Langberg and Baldwin, 1958	box 1	folder 4
Atmospheric Absorption of Microwave Radiation, K. Baldwin, 1959	box 1	folder 5
Dielectrometer for Measuring Complex Permittivity of Iaterials at High Temperature, K M Baldwin, 1960	box 1	folder 6
A Differential Emissivity Calorimeter, 1969	box 1	folder 7
Laboratory Construction of Multilayer Dielectric Mirrors for He-Ne Laser Applications, 1972	box 1	folder 8
n Ultrasonic Study of Clathrate Forming Salts, Keith aldwin, et al., undated	box 1	folder 9

### ^ Return to Table of Contents

Research Files		
Title/Description	Instances	
The High Pressure Hg Vapor Discharge, W. Elenbaas, photocopy, 1951	box 1	folder 10
Delco Tape Deck Report (8 Track), undated	box 1	folder 11
Court Case, Johnson vs PCS, 1974	box 1	folder 12
Thermodynamic and Kinetic Studies of the C-F System, M. B. Panish, 1963	box 1	folder 13
Communication During Hypersonic Re-Entry, Edwin angberg, 1958	box 1	folder 14
IF-VHF Piggyback Experiment, 1960	box 1	folder 15
Microwave Cavity Bridge for Measuring Complex ielectric Characteristics of a transient Plasma, D. Nelson, 961	box 1	folder 16
aterman, P., memo on scattering, 1959-1961	box 1	folder 17
ougherty Cavity Design, 1960	box 1	folder 18
scilloscope Cameras, Kebogle, K. Baldwin, R. Wtherby, G. anson, includes photographs, 1962	box 1	folder 19

<sup>^</sup> Return to Table of Contents

Keith M. Baldwin Collection MTU-260

Visual Materials			
Title/Description	Instances		
Keweenaw Research Station, photographs, 1970	box 2	folder 1	
Keweenaw Research Station, slides, 1974	box 2	folder 2	
Michigan Tech campus, photographs, 1970s	box 2	folder 3	
Portage Lake Lift Bridge, photographs, 1970s	box 2	folder 4	
U.S.S. Edson, photographs, 1983-1984	box 2	folder 5	
Winter Carnival snow statues, slides, 1964	box 2	folder 6	

<sup>^</sup> Return to Table of Contents