

National Superconducting Cyclotron Laboratory Records UA.16.95.1

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Describing Archives: A Content Standard

University Archives and Historical Collections

Conrad Hall 943 Conrad Road, Room 101 East Lansing, MI 48824 Business Number: 517-355-2330

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Summary Information

Repository: University Archives and Historical Collections

Creator: National Superconducting Cyclotron Laboratory (U.S.)

Creator: Hannah, John A., 1902-1991

Creator: Waterman, Alan Tower, 1892-1967

Creator: Michigan State University

Source - dnr: Gelbke, C. K. (Claus Konrad)

Source - dnr: Suelter, Clarence H., 1928-

Source: National Superconducting Cyclotron Laboratory (U.S.)

Title: National Superconducting Cyclotron Laboratory records

ID: UA.16.95.1

Date [inclusive]: 1958-2008

Date [bulk]: 1958-2006

Physical 15.5 Cubic Feet (16 folders and 15 drawers of oversized

Description: drawings)

Language of the

Material:

English.

Preferred Citation

Researchers wishing to cite this collection should include the following information: "Item title, Collection title, Collection Identifier, Michigan State University Archives & Historical Collections, East Lansing, Michigan."

Historical Note

The National Superconducting Cyclotron Laboratory is the leading rare isotope research facility in the United States and the largest nuclear science facility on a university campus in the U.S.

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The MSU cyclotron was the world's first superconducting cyclotron. It was funded in 1961 with a grant from the National Science Foundation and completed in 1965.

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Scope and Content

The records consist of status report on the cyclotron project, a test operation report, and a letter from Alan T. Waterman to MSU President Hannah awarding a National Science Foundation grant for the cyclotron. Also included are brochures, reports, the 2005 grant proposal "Operation of the National Superconducting Cyclotron Laboratory at MSU Proposal as a National User Facility and Support for its Research Program" and the publication prepared for use with Michigan legislators and citizens presenting MSU's case for the \$1 billion Rare Isotope Accelerator Project (Advancing the Frontiers of Science). Also included are photographs of the Cyclotron building.

Also included are specification drawings for the mechanical equipment of the K50 MEV accelerator which was the original research accelerator at the cyclotron. The drawings are organized by categories represented by codes and then arranged by size. The index for the drawings defines the codes and then lists the drawings for each category. There are a few drawings listed that were not transferred to the MSU Archives.

Annual reports are stored separately.

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Administrative Information

Publication Statement

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Conditions Governing Access

Collection is open for research.

Conditions Governing Use

Permission to publish material from this collection must be obtained from University Archives & Historical Collections, Michigan State University.

Conditions Governing Access

Legal Status: Donor(s) have transferred any applicable copyright to Michigan State University but the collection may contain third-party materials for which copyright was not transferred. Copyright restrictions may apply. Property Rights: Michigan State University.

Controlled Access Headings

- Cyclotrons
- Research grants
- Annual reports
- Drawings
- Pamphlets
- Photographs
- Reports
- National Science Foundation (U.S.)
- National Superconducting Cyclotron Laboratory (U.S.)
- Gelbke, C. K. (Claus Konrad)
- Suelter, Clarence H., 1928-
- National Superconducting Cyclotron Laboratory (U.S.)

Collection Inventory

Title/Description	Instances	
Status Report of MSU Cyclotron, July 1959	drawer F.D.	folder 1
MSU SS MeV Cyclotron- Test Operation Report No. 3, Undated	drawer F.D.	folder 2
National Science Foundation Grant Letter (photocopy), 1961	drawer F.D.	folder 3

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Energy Dependence of Proton Inelastic Scattering from 40CA + (Report), Undated	drawer F.D.	folder 4
Informational Pamphlets & News Briefs, 1988-1989, Undated	drawer F.D.	folder 5
Inelastic Electron Scattering Form-Factors Calculated from Shell-Model Wave Functions (Report), February 1972	drawer F.D.	folder 6
Proton Decay of the Isobaric Analogues of the Ground States of 206Pb, 207Pb, 208Pb, and 209Bi (Report), January 1972	drawer F.D.	folder 7
Proton Inelastic Scattering from 48Ca+ (Report), Undated	drawer F.D.	folder 8
K1200 Cyclotron Inaugural Symposium, May 1989	drawer F.D.	folder 9
Major Events for Rare Isotope Accelerator, 2006	drawer F.D.	folder 10
The National Superconducting Cyclotron Laboratory Pamphlets, 1997, Undated	drawer F.D.	folder 11
Operation of the National Superconducting Cyclotron Laboratory at MSU Proposal as a National User Facility and Support for its Research Program, November 2005	drawer F.D.	folder 12
Facility for Rare Isotope Beams (FRIB) flyers, 2008	drawer F.D.	folder 13
Advancing the Frontiers of Science Publication, Undated	drawer F.D.	folder 14
50 MEV Drawing Index	drawer F.D.	folder 15-16
Learning Nuclear Science with Marbles, 2007	drawer F.D.	folder 17
10th International Symposium on Nuclei in the Cosmos, 2008	drawer F.D.	folder 18
K50 MEV Accelerator Specification Drawings (See folders 15-16 for index to drawings. Some drawings are listed in the index but were not transferred to Archives) (Folders are stored according to size)		
AA- Building Architectural, 1961-1970	drawer 85, 88, 90	
AB- Building Radiation Shielding Blocks, 1965	drawer 88	
	drawer 90	
AD- Building Radiation Shielding Doors, 1960, 1963, 1978	drawer 90	
	drawer 88	
AM- Building Mechanical, 1965, Undated	drawer 88	
	drawer 90	
BA- Main Magnet, Magnet Assembly, 1958-1968	drawer 85	
	drawer 88	
	drawer 90	
BC- Main Cyclotron Magnet, Magnet Main Coils, 1962-1963	drawer 98	
BI- Main Cyclotron Magnet, Magnet Inspection, Undated	drawer 90	

BL- Main Cyclotron Magnet, Platforms & Ladders,	drawer 85
1963-1973	drawer 88
	drawer 90
BM- Main Cyclotron Magnet, Magnet Core, 1963-1973	drawer 85
	drawer 88
	drawer 90
BP- Main Cyclotron Magnet, Magnet Power Supply, 1970-1973	drawer 90
BS- Main Cyclotron Magnet, Cyclotron Vacuum System,	drawer 90
1963-1968	drawer 98
BT- Main Cyclotron Magnet, Magnet Pole Tips, 1963	drawer 98
	drawer 88
	drawer 85
BV- Main Cyclotron Magnet, Vacuum Chamber, 1963-1972	drawer 90
	drawer 98
	drawer 85
	drawer 88
BW- Main Cyclotron Magnet, Cooling Water Distribution,	drawer 90
1963-1972	drawer 88
CA- Dees, Liner and Pole Face, Coils, Etc., Dees, 1963-1975	drawer 98
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	drawer 88
	drawer 85
CB- Dees, Liner and Pole Face, Coils, Etc., Liner, 1963-1973	drawer 98
	drawer 91
	drawer 88
	drawer 85
CC- Dees, Liner, and Pole Face, Coils, Etc., Pole Face Coils, 1962-1969	drawer 91
	drawer 88
	drawer 85
CF- Dees, Liner, and Pole Face, Coils, Etc., Beam Probes, 1963-1978	drawer 91

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EC- R.F. Supply, Driver Amplifier, 1964-1969	drawer 94
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EE- R.F. Supply, Servo Loop Motor and Logic, 1963-1974	drawer 88
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FA- Control, Equipment and Racks, 1963-1967	drawer 88
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FB- Control Main Control Console, 1964-1965	drawer 88
	drawer 94
FC- Control, Control Wireways, 1964-1968	drawer 88
	drawer 94
FD- Control, Control Wiring, 1974-1975	drawer 95
FE- Control, Connection Schedules, 1964-1966	drawer 96
FG- Controls, Power Distribution, 1964	drawer 96
FH- Control, Computer Wiring, 1968-1972	drawer 88
	drawer 96
GA- Beam Handling Equipment, 450 Bending Magnet,	drawer 96
1963-1979	drawer 86
	drawer 88
GC- Beam Handling Equipment, Aperture Quadrupoles,	drawer 88
1960-1973	drawer 96
	drawer 86
GE- Beam Handling Equipment, Beam Tube Piping, Flanges,	drawer 96
etc., 1964-1978	drawer 87
	drawer 88
GF- Beam Handling Equipment, Vacuum Pumping Stations,	drawer 97
1965-1968	drawer 88
GG- Beam Handling Equipment, Beam Stopper Plugs,	drawer 97
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GH- Beam Handling Equipment, Beam Slits, 1965-1977	drawer 87

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GK- Beam Handling Equipment, Vacuum Systems, Controls, etc., 1968-1977	drawer 88
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HA- Mechanical Experimental Equipment, Scattering	drawer 99
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HD- Mechanical Experimental Equipment, Target Equipment, 1964-1978	drawer 88
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HE- Mechanical Experimental Equipment, Detection	drawer 99
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HF- Mechanical Experimental Equipment, Mass	drawer 99
Spectrometer, 1967-1980	drawer 88
HG- Mechanical Experimental Equipment, Time of Flight	drawer 99
Facility, 1973-1976	drawer 88
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HH- Mechanical Experimental Equipment, Rabbit System	drawer 88
HJ- Mechanical Experimental Equipment, Cryogenic Helium	drawer 99
Jet, 1977-1979	drawer 98
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JA- Electronic Equipment, Experimental, 1961-1972	drawer 88
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JB- Electronic Equipment, Building Supply, 1962	drawer 88
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JC- Electronic Equipment, Printed Circuit Boards	drawer 89
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KA- Ion Source Testing Facility, Magnet and Coils,	drawer 98
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KB- Ion Source Testing Facility, Power Supplies, 1963-1976	drawer 89
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KC- Ion Source Testing Facility, Vacuum Tank Pump & Controls, 1962-1975	drawer 87

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KD- Ion Source Testing Facility, Ion Source, Dees and Puller, 1964-1965	drawer 89
	drawer 88
MA- Model Magnet, Magnet, 1960-1970	drawer 89
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	drawer 87
NC- Magnetic Field Plots, Magnetic Field Probes, 1966	drawer 88
TA- Tools (Special), Jigs and Fixtures, 1959-1974	drawer 89
	drawer 98
	drawer 87
	drawer 88
TC- Tools (Special), Cutting Tools, 1964-1966	drawer 88
TD- Tools (Special), Tools for Counter Developing,	drawer 89
1965-1969	drawer 88
Photographs- MSU Collection	drawer MSU Photos
Buildings. Cyclotron	
Photographs	
Oversize photographs of staff with cyclotron (3 images), circa 1988, undated	drawer 11
Oversize photograph of cyclotron, undated	drawer 11
Annual Reports	
Title/Description	Instances
Unpublished	box Annual Reports
1968	
1968-1969	
1969-1970	
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1972-1973	
1973-1974	
1974-1975 and 1975-1976 (Same Issue)	

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