



Department of Civil and Environmental Engineering UA.16.27

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Summary Information

Repository:	University Archives and Historical Collections
Creator:	Michigan State University. Department of Civil and Environmental Engineering
Creator:	Michigan State University. Department of Civil and Sanitary Engineering
Source - dnr:	Davis, Mackenzie Leo, 1941-
Source:	Michigan State University. College of Engineering
Title:	Department of Civil and Environmental Engineering records
ID:	UA.16.27
Date [inclusive]:	1941-2009
Physical Description:	1 Cubic Feet 4 boxes
Language of the Material:	English .

Preferred Citation

Researchers wishing to cite this collection should include the following information:
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Historical Note

Established in 1909, the Department of Civil and Sanitary Engineering reported to the College of Engineering. Prior to 1909, this curriculum was taught in the Department of Mathematics and Engineering/Civil Engineering. Between 1909 and 1950, it was known as the Civil Engineering Department. In 1985, the name changed to Department of Civil and Environmental Engineering.

William A. Bradley (1921-1990) joined the engineering faculty in 1947. He was the recipient of the MSU Distinguished Faculty Award in 1963. He served as the acting chair of his department in 1964-1965 and 1974-1975. He was promoted to professor in 1970.

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Scope and Contents

The collection consists of brochures, teaching practice guidelines, departmental bylaws, proceedings of a conference on soils for engineers (1941) and the publication "1909-2009, 100 Years of Excellence" by Mackenzie Davis, which contains a history of the department written for its centennial.

The collection also contains William A. Bradley's teaching materials included are lantern slides and film slides of bridges around the world as well as other structures.

Annual reports (1959–1960, 1965–1969) are stored separately.

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Administrative Information

Publication Statement

University Archives and Historical Collections

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Controlled Access Headings

- Bridges
- Civil engineering
- Engineering -- Study and teaching
- Sanitary engineering
- Annual reports
- Lantern slides
- Photographs
- Bradley, William A., 1921-1990
- Davis, Mackenzie Leo, 1941-
- Michigan State University. College of Engineering
- Michigan State University. Department of Civil and Environmental Engineering

Collection Inventory

Title/Description	Instances	
"A Brief Guide to Good Teaching Practices and Guidelines for the Assessment of Teaching Potential of New Temporary and Tenure-Track Faculty members", 1999	drawer F.D.	folder 1
Brochure		
At A Glance, 2005-2009	drawer F.D.	folder 2
Seminar – "Fiber Reinforced Concrete Design and Application" , 1987	drawer F.D.	folder 3
Bylaws, 2005	drawer F.D.	folder 4

Proceedings: Engineering Conference in Soils for Engineers, drawer F.D. folder 5
 March 3-5, 1941

"1909-2009: 100 Years of Excellence by Mackenzie Davis", drawer F.D. folder 6
 2009

Professor William Bradley Class materials

Lantern Slides

Title/Description	Instances	
View showing tops of "Finter" (?) boxes, June 10, 1924	box 4487	folder 3
Bridge of Boats, Mayence, Germany	box 4487	folder 47
R.R. Bridge over the Reuss, near Amsteg, Switz. (broken)	box 4487	folder 61
Cantilever Bridge, Niagara	box 4487	folder 62
Victoria Bridge, Montreal, Canada	box 4487	folder 64
Richmond (pedestrian) Bridge over the Thames, England	box 4487	folder 65
The Old Bridge over the River Avon, Salisbury, Eng.	box 4487	folder 66
Bridge of Boats, Cologne, Germany	box 4487	folder 67
Bridge of Boats, Coblenz, Germany	box 4487	folder 68
Tunnel in the Brat-landsdal, Norway	box 4487	folder 70
Bridge over the Rhine, Schaffhausen, Germany	box 4487	folder 71
A Bridge of Boats, India	box 4487	folder 72
A Venetian Bridge with Steps, Italy	box 4487	folder 73
Roman Aqueduct in Spain, probably at Tarragona	box 4487	folder 74
Rhine Bridge from Viamala, Switzerland	box 4487	folder 79
Vecchio Bridge, Florence, Italy	box 4487	folder 83
Stone-faced, steel-arch Bridge, Albion, Mich. (finished)	box 4487	folder 84
Tunnel Three, Weber Canyon, Utah	box 4488	folder 2
Bridge at Frankfurt over the Main, Germany	box 4488	folder 3
Forth Bridge, Scotland	box 4488	folder 4
Bridge at entrance to Maderamer Thal, Switz.	box 4488	folder 5
Bridge of Pine Poles in Wales	box 4488	folder 8
Mt. Stephen Tunnel, Summit of the Rockies, British Columbia	box 4488	folder 9
The Tower Bridge, London	box 4488	folder 10
The Rialto, Venice	box 4488	folder 11

The Old Rhine Bridge, Basel, Switzerland	box 4488	folder 12
A Curious Japan Bridge, Drum Bridge	box 4488	folder 13
Rope Bridge, Carrick-a-Rede, end view, Switzerland	box 4488	folder 17
Moselle Bridge, Coblentz -- The ?	box 4488	folder 18
A Curious Wooden Bridge in Switzerland	box 4488	folder 19
Gallery of the Axen Strasse, Switzerland	box 4488	folder 20
Great Suspension Bridge, Straits of Menai, Wales	box 4488	folder 21
Switzerland, Entrance to the Gallery, Axen Strasse	box 4488	folder 22
Tunnel, Zuga? Strasse, Switzerland	box 4488	folder 42
Bois Blanc - Wilderness Club. sewage discharge next to boat and bathing dock	box 4488	folder 43
Bridge over the Midas, Rottersdam, Holland	box 4488	folder 53
Topinabee - Garbage Disposal, Garbage center of picture	box 4488	folder 56
Cantilever, Niagara Riv. Go?	box 4488	folder 57
The Great Baltimore & Ohio R.R. Bridge - Havre de Grace (broken)	box 4488	folder 59
Dredging Trench and Laying Pipe for the Narrows Siphon	box 4488	folder 60
The Rohrbach Bridge, St. Gothard's Pass - Switzerland	box 4488	folder 61
Loop of the Road, St. Gothard's Pass, Switzerland	box 4488	folder 62
Cheboygan - contents of box shown in preceding slide #302 (behind crate and post)	box 4488	folder 71
B & O Bridge - Havre de Grace, over Susquehanna	box 4488	folder 74
Ponding Method of Curing	box 4488	folder 80
Early Stage of Macadam failure	box 4488	folder 81
Ravelling	box 4488	folder 82
Canvas Protection for Concrete	box 4488	folder 83
Highway grading	box 4488	folder 84
Fresno Scraper (broken)	box 4489	folder 2
Trunk Line Patrol, Van Buren Co., 1920	box 4489	folder 5
Road Drag in Use (broken)	box 4489	folder 6
Plowed Hillside to Prevent Slipping (broken)	box 4489	folder 7
Devil's Bridge, St. Gothard's Pass, in detail, Switzerland (broken)	box 4489	folder 33
St. Louis -- The Great Bridge	box 4489	folder 34

View of Bridge over Falls of Schuylkill, showing the length inside Edgemoore Bridge	box 4489	folder 35
Columbia River Bridge, Fairmount Park ?	box 4489	folder 36
The Great Poughkeepsie Rail Bridge over the Hudson, New York	box 4489	folder 41
The Great Poughkeepsie Railway Bridge over the Hudson, New York	box 4489	folder 42
Penna Rwy. Bridge over the Susquehanna, near ?, PA	box 4489	folder 43
Tubular Bridge, Strait of Menai, Wales (broken)	box 4489	folder 46
Folds in the Surface of Trinidad Lake	box 4489	folder 48
Great Falls Bridge, Montana	box 4489	folder 51
Bridge below the Lotefos, Norway (broken)	box 4489	folder 66
Cantilever Bridge over the Frazer Canon -- British Columbia	box 4489	folder 67
The Iron Bridge, Coblenz, Germany (broken)	box 4489	folder 68
Suspension Bridge, Freibouy	box 4489	folder 69
Canadian Pacific R.R. -- look showing four tracks	box 4489	folder 79
The Fay Bridge	box 4489	folder 80
Arched Tunnel, Property of Louis C. Yowner	box 5005	folder 1
Building Frame Being Constructed, 1924	box 5005	folder 2
Charts Measuring Height and Width off Unidentified Object, Possibly Flames	box 5005	folder 3
Defray Detroit Overflow Canal, 1927	box 5005	folder 4
Drainage Canal Near Farmstead	box 5005	folder 5
Drainage Ditch between Snowy Fields	box 5005	folder 6
Field Lab for Concrete Tests, Detroit, MI	box 5005	folder 7
Frozen Winter Field	box 5005	folder 8
Interior of a Construction Site, 1924	box 5005	folder 9
Interior of a Lab or Workroom [Broken]	box 5005	folder 10
John A. Roebling Bridge, Cincinnati, Ohio	box 5005	folder 11
Lansing Construction Site	box 5005	folder 12
Lansing Gravel Company Message	box 5005	folder 13
Large Drainage Ditches	box 5005	folder 14
Large Farm-Shaped Construction Materials	box 5005	folder 15

Large Round Basins Under Construction	box 5005	folder 16
Large Round Containers in a Field	box 5005	folder 17
Large Round Structures near a House	box 5005	folder 18
Louis C. Yowner Equipment, Possibly Boilers, circa 1915	box 5005	folder 19
Macks Trucks and Busses Businesses, Possibly Detroit [Broken]	box 5005	folder 20
Men Standing on Rooftop, Possibly Extinguishing a Fire	box 5005	folder 21
Modern Cameron Septic Tank Blueprint	box 5005	folder 22
Overflow Canal Progress in Defray, Detroit, circa 1927	box 5005	folder 23
Pennsylvania Rail Company Bridge in Stauberville, Ohio, circa 1930	box 5005	folder 24
Pig and Barrels in a Field	box 5005	folder 25
Pigs and Farmer in a Smoking Field	box 5005	folder 26
Plant Truck Near Basket Structure	box 5005	folder 27
Possible Canal Construction Site, Detroit, circa 1927	box 5005	folder 28
Road through Orange Township	box 5005	folder 30
Abandoned Concrete Structures	box 5005	folder 31
Stone Batcher and Sand Inundator in Detroit Tunnel	box 5005	folder 32
Tunnel Mountain Pass, Switzerland, circa 1927	box 5005	folder 53
Unidentified Apparatus under Construction	box 5005	folder 54
Unidentified Building Interior	box 5005	folder 55
Unidentified Drainage Ditch	box 5005	folder 56
Unidentified Horses and Men in a Valley	box 5005	folder 57
Unidentified Mixing Machine	box 5005	folder 58
Water Drainage Concrete Rows	box 5005	folder 59
Wooden Construction Refuse Bucket	box 5005	folder 60
Wooden Open-Air Structure, circa 1925	box 5005	folder 61
Wooden Structure, Possibly for Farm Animals	box 5005	folder 62
Cement Water Pump System	box 5005	folder 63
Concrete Barriers in Flooded Fields	box 5005	folder 64
Crane Working over Cement Posts	box 5005	folder 65
Ditch Work in Large Farm Expanse	box 5005	folder 66
Drainage Tunnel	box 5005	folder 67

Fenced Concrete Structure	box 5005	folder 68
Fence Near Abandoned Equipment	box 5005	folder 69
Foamy Water Run-Off	box 5005	folder 70
Interior of a Barn	box 5005	folder 71
Interior of Construction Site	box 5005	folder 72
Interior of a Mechanical Room	box 5005	folder 73
Large Earthen Barriers Near Farmland	box 5005	folder 74
Long White Structure with Many Peaks	box 5005	folder 75
Men Stand on Concrete Base	box 5005	folder 76
Men Work on Large Cement Structure	box 5005	folder 77
Possible Grain or Concrete Loading Device	box 5005	folder 78
Possible Propane Powered Mechanism	box 5005	folder 79
Possible Water Drainage System	box 5005	folder 80
Rectangular Water Drainage Ditch	box 5005	folder 81
Substructure of Pumping Station Blueprints, circa 1910	box 5005	folder 82
Water Draining	box 5005	folder 83
Water Draining from Wooden Dam Device	box 5005	folder 84
Water Draining Quickly from Dam Device	box 5005	folder 85

Bridges

Title/Description	Instances	
1 (broken)	box 4487	folder 42
2 (broken)	box 4487	folder 43
3 (broken)	box 4487	folder 69
4	box 4487	folder 75
5	box 4487	folder 77
6	box 4487	folder 78
7	box 4487	folder 80
8	box 4487	folder 81
9	box 4487	folder 82
10	box 4488	folder 28
11	box 4488	folder 38
12	box 4489	folder 38

13	box 4489	folder 39
14	box 4489	folder 40
Buckets 1	box 4488	folder 70

Building Exteriors

Title/Description	Instances	
1 (broken)	box 4487	folder 29
2	box 4488	folder 30
3 (broken)	box 4488	folder 69
4	box 4489	folder 65

Building Interiors

Title/Description	Instances	
1	box 4487	folder 13
2	box 4487	folder 22
3	box 4487	folder 34
4 (broken)	box 4487	folder 37
5	box 4488	folder 55
6	box 4488	folder 63
7	box 4488	folder 64
8	box 4488	folder 65
9	box 4488	folder 72
10	box 4489	folder 47
11 (broken)	box 4489	folder 62
12	box 4488	folder 67

Construction

Title/Description	Instances	
1	box 4487	folder 2
2	box 4487	folder 8
3	box 4487	folder 12
4 (broken)	box 4487	folder 25
5	box 4487	folder 26
6	box 4487	folder 30

7	box 4487	folder 33
8 (broken)	box 4487	folder 46
9	box 4488	folder 14
10	box 4488	folder 41
11	box 4489	folder 54

Diagrams

Title/Description	Instances	
1 "Floor Jack"	box 4487	folder 41
2 "The Iodin in the Ground Water Supplies of Michigan, Shown in Parts per Billion"	box 4487	folder 44
3 "Map of Milwaukee"	box 4487	folder 45
4 "Viaduct after Reconstruction"	box 4487	folder 52
5 (broken)	box 4487	folder 53
6	box 4487	folder 54
7	box 4487	folder 60
8 "Production & Importation of Asphalt"	box 4487	folder 85
9 "How Lake and Petroleum Asphalts are Refined"	box 4488	folder 1
10 "The Oldest Mosaic"	box 4488	folder 23
11 "E.S.C. Engineering Experiment Statice" (3 broken)	box 4488	folder 24-27
12 "Specific Gravity of Bitumous Materials"	box 4488	folder 29
13	box 4488	folder 31
14-15 "Asphalt Used in the Paving Industry"	box 4488	folder 32-33
16	box 4488	folder 47
17 "This illustration shows the regular string of tools hung in the derrick."	box 4488	folder 48
18	box 4488	folder 51
19 "Fineness Modules of Mixed Aggregate Based on Curve A of Fig. 1" (broken)	box 4488	folder 58
20	box 4489	folder 9
21 "Graphic Illustration of the Blaisdell Filter Washer"	box 4489	folder 10
22	box 4489	folder 12
23 "Spudding Bit"	box 4489	folder 14
24	box 4489	folder 16

25 "Sand Pumps and Bailers" (broken)	box 4489	folder 17
26 "Ransome Continuous Filter" (broken)	box 4489	folder 18
27 (broken)	box 4489	folder 19
28	box 4489	folder 20
29 "Diagram showing ordinary location of farm well"	box 4489	folder 21
30 "Experimental Flexible Joints"	box 4489	folder 22
31-34	box 4489	folder 23-26
35 "Why the Department of Water Supply, Gas and Electricity Has Undertaken a House to House Inspection to Stop Waste of Water"	box 4489	folder 27
36-37	box 4489	folder 28-29
38 "Method of washing and storing sand, Washington filter plant"	box 4489	folder 30
39 "Outline of Purification Process, Columbus, Ohio"	box 4489	folder 31
40 "Sketches to show construction of wells in sand and gravel formation" (broken)	box 4489	folder 32
41	box 4489	folder 37
42	box 4489	folder 44
43 "Suspension Bridges"	box 4489	folder 45
44 "Simplex filter rate controller"	box 4489	folder 50
45	box 4489	folder 63
46	box 4489	folder 64
47	box 4489	folder 71
48 (broken)	box 4489	folder 72
49	box 4489	folder 75
50 "Meadow Street Bridge at Pittsburgh"	box 4489	folder 76
51	box 4489	folder 77
52 "Viaduct after Reconstruction" (broken)	box 4489	folder 78
53	box 4487	folder 63
54	box 4487	folder 76

Farm Scenes

Title/Description	Instances	
1	box 4487	folder 9

2	box 4487	folder 17
3	box 4487	folder 21
4	box 4487	folder 27
5 (broken)	box 4487	folder 38
6	box 4487	folder 48
7	box 4489	folder 3
8	box 4489	folder 4
9 (broken)	box 4489	folder 60

Garbage

Title/Description	Instances	
1 (broken)	box 4488	folder 6
2	box 4488	folder 35
3	box 4488	folder 36
4	box 4488	folder 37
5	box 4488	folder 46
6 (broken)	box 4489	folder 70

Gauges

Title/Description	Instances	
1	box 4487	folder 40
2	box 4489	folder 58

Industrial Scenes

Title/Description	Instances	
1	box 4487	folder 28
2	box 4487	folder 31
3	box 4487	folder 32
4	box 4487	folder 35
5	box 4487	folder 36
6 (broken)	box 4487	folder 59
7 (broken)	box 4488	folder 15
8	box 4488	folder 34
9	box 4488	folder 45

10	box 4488	folder 49
11	box 4488	folder 66
12	box 4488	folder 68
13 (broken)	box 4489	folder 61

Roads

Title/Description	Instances	
1	box 4487	folder 58
2 (broken)	box 4488	folder 16
3	box 4488	folder 40
4-7 (some broken)	box 4488	folder 75-78
8 "Montcalm Co."	box 4488	folder 79
9	box 4489	folder 1
10 (broken)	box 4489	folder 8

Signs

Title/Description	Instances	
1 "Macadam Road is a very satisfactory type of construction. A large mileage of Macadam Road is being built in Michigan, particularly in sections where good gravel is not available."	box 4487	folder 55
2 "It is important that a survey and plans be made for any road improvements before starting the work." (broken)	box 4487	folder 56
3 "Concrete Road Rollers are heavy enough for the usual gravel road construction. Spike tooth harrows and floats used every day during construction accomplish most roll only after rains."	box 4488	folder 39
4 "Don't cut shade trees when building a good road. See how they improve the appearance." (broken)	box 4488	folder 52
Statues 1	box 4488	folder 73

Trees

Title/Description	Instances	
1 (broken)	box 4487	folder 57
2	box 4489	folder 73
3	box 4489	folder 74

Water Management		
Title/Description	Instances	
1 (broken)	box 4487	folder 1
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3 (broken)	box 4487	folder 5
4	box 4487	folder 6
5	box 4487	folder 7
6	box 4487	folder 10
7	box 4487	folder 11
8	box 4487	folder 14
9 (broken)	box 4487	folder 15
10 (broken)	box 4487	folder 16
11	box 4487	folder 18
12	box 4487	folder 19
13	box 4487	folder 20
14	box 4487	folder 23
15 (broken)	box 4487	folder 24
16 (broken)	box 4487	folder 39
17	box 4487	folder 49
18	box 4487	folder 50
19	box 4487	folder 51
20	box 4488	folder 7
21	box 4488	folder 44
22	box 4488	folder 50
23	box 4488	folder 54
24 (broken)	box 4489	folder 11
25	box 4489	folder 13
26	box 4489	folder 15
27 (broken)	box 4489	folder 49
28 (broken)	box 4489	folder 52
29	box 4489	folder 53
30	box 4489	folder 55

31	box 4489	folder 56
32	box 4489	folder 57
33 (broken)	box 4489	folder 59

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Film Slides

Title/Description	Instances	
[Bridge Construction]	box 5003	carton 1
[Industrial Bridges]	box 5003	carton 2
A Look at Cold-Formed Steel Structures	box 5003	carton 3
Delta Sta., December 1970	box 5003	carton 4
[Minneapolis and Domes]	box 5003	carton 5
Structures	box 5003	carton 6
[Minneapolis]	box 5003	carton 7
[Unlabeled Carton]	box 5003	carton 8
Grand Rapids Bridge and Hanover Park Structure	box 5003	carton 9
Field Membrane Structure and Take-Down, Fall 1975	box 5003	carton 10
[Unlabeled Carton]	box 5003	carton 11
John R. Bridge	box 5003	carton 12
[Tower Structures]	box 5004	carton 1
[Loose Slides]	box 5004	carton 2
R.C. Structures Pkg. Ramps	box 5004	carton 3
R.C. Structures 1st U.S. General	box 5004	carton 4
R.C. Structures 1st Delte St	box 5004	carton 5
Shells	box 5004	carton 6
[Unlabeled Carton]	box 5004	carton 7
Contemporary Structures 1970	box 5004	carton 8
MSU Scenes	box 5004	carton 9

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Photographs

Title/Description	Instances
Board of Water and Light, 1980	box UA Photo 49
Bridges	box UA Photo 49
Construction in Lansing and on Grand River	box UA Photo 49
Construction Projects in the Lansing Area, circa 1978	box UA Photo 49
I-496 Southbound, 1971	box UA Photo 49
Kalamazoo Street Bridge, 1978	box UA Photo 49
MSU Ice Arena Construction, 1973	box UA Photo 49
Unidentified Man	box UA Photo 49

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Contemporary Structures 1970 and Correspondence	drawer F.D.	folder 7
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Annual Reports

Title/Description	Instances
Published in State Board Reports	volume Bd. of Ag.
1910	
1911	
1912	
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Unpublished	box Annual Reports
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