11/5/26
Engineering
Civil Engineering
Nathan M. Newmark Papers, 1933-

Box 1:

American Concrete Institute; Committee on Reinforced Concrete; Sub-Committee on Two-Way Slabs, 1933, 1938-39
1933 British Code of Practice for Reinforced Concrete; Correspondence blueprints, plans, and specifications relating to the Standard Building Code on Reinforced Concrete
Book Catalogs, 1935-57
810 Course notes, 1936-38
American Concrete Institute; Committee on Reinforced Concrete; Sub-Committee on Flat Slabs, 1937-40
Correspondence, manuscripts and standards relating to the formulation of Building Code Regulations for Reinforced Concrete
Continuous I-Beam Bridge Calculations, 1938
Circular Plates Calculations, 1938-39
Renner, Walter Adolf: Thesis: The Bending of Orthogonally Non-Isotropic Slabs ASCE; Committee on Design of Structural Members, 1939-43
Correspondence, data sheets and progress reports relating to the work of this committee
ASCE; Committee on Design of Structural Members, 1944-45
Correspondence, progress reports relating to the work of this committee
Consolidated Vultee Aircraft Corporation, 1939, 1942-45
Proposals, blueprints and research reports relating to structural research
Consolidated Vultee Aircraft Corporation, 1943-44
Correspondence, data sheets and research reports relating to a joint research project with the U. of I.
Tracings and blackline drawings showing results of beam tests.
Wilson, W.M. n.d.
Negative of beam test
National Defense Research Committee, 1942
Memoranda relating to directions for submission of reports in performance of OSRD contracts
McCloskey and Co., Hooker's Point Shipyard, Florida; Original Calulations, C1-S*D1, 1942-43 (Oversize Flat File #3)
Impact Tests of Beams, Pictures and Negatives, Oct. 1942
Equipment Instruction Manuals, 1942-47
Manuals explaining the use of calculators, integrators, oscillographs and strain gauges. The strain gauge information is in the form of research reports from Douglas Aircraft Company

Box 2:

Lockheed, 1943-44
Correspondence with Lockheed Aircraft Corporation relating to the planning of a joint research project between them and the U. of I. Includes several Lockheed research reports relative to this project. Also includes correspondence asking for advice relating to the establishment of an aeronautical engineering department at the U. of I.

American Concrete Institute; Committee on Reinforced Concrete, "Standard Building Code," 1937-40
Correspondence, proposals, and minutes of meetings involving the revision of the 1936 Building Code.
Static Strain Indicators; Baldwin Locomotive Works, 1943-46
Correspondence and brochures relating to the manufacture and subsequent purchase by the Civil engineering from Baldwin Locomotive Works of a Static Strain indicator
Static Strain Indicators - General, 1943
Correspondence and brochures relating to the manufacture and subsequent purchase by the Civil...

Testing of Materials, Shock, Stress, and Strain; Reprints, 1944-56
Equipment Inventory; Contract O. E.M. -- 318, 1944, 1945, 1953
Army Air Force Publications, 1945
Letter and two Army Air Force reports relating to structural materials

Impact, 1945-46
Correspondence and materials related to work done for the Special Committee on Impact of the American Railway Engineering Association. Many sheets of mathematical calculations.
Contains correspondence with the Nashville, Chattanooga & St. Louis Railway and the Association of American Railroads: E.J. Ruble; Frank McNellisk; W.S. Lacher

Electrical Strain Gauge, 1945-46
Notes, correspondence, instruction manuals and photographs relating to the purchase and use of electrical strain gauges

Air Force Air Technical Service Command; Report on Structural Tests, 1945
Report and data relating to structural tests of glass cloth and aluminum-balsa sandwiches in an airplane fuselage

Balog Letters; 1945, 1949, 1956
Letters, reports and blueprints sent to President Stoddard and to President Henry attempting to discredit the work and conclusions of N. M. Newmark.

Nylander Originals, 1946
Summary and translation of an article by Henrik Nylander, "Investigations on Reinforced Concrete Panels and Deep Beams."

Digital Computers, 1946-54
Published materials, proceedings, lectures, and guides relating to digital computers including ILLIAC

Box 3:

Creole Petroleum Corp., 1947
Envelope containing material connected with Newmark's trip to Maracaibo, Venezuela for the Creole Petroleum Corp. including a letter from Overseas Personnel Office, Standard Oil Co.; Health certificate; letter from Urbana Police attesting to Newmark's good character; Letter of introduction to Venezuelan Consul; Passport; Related materials

O.E.M. Electrical Equipment and Speed of Loading Reported. Impact, 1947

Bolting, Riveting, Welding Reprints, 1948-55

Civil Engineering 482 class notes, Sett 44, ca. 1949

American Standards Association, 1949-50
Papers and correspondence relating to the shock and vibration sub-committee of ASA specifically concerned with the establishment of standard acoustical terminology

Flood Wall Stability Test. Corps of Engineers, Dept. of Army, Ohio River
Division Laboratories, Cincinnati, Ohio, 1949. (Oversize Flat File #3)

Defense Research Committee, 1950-51
Contains paper stating objectives of the University Defense Research committee and a list of members. Correspondence relates to the visit of representatives of the Office of Air Research Scheduled for Jan. 1951.


Column Research Council, Technical Program, 1951.
Correspondence relating to setting up of Column Research Council's Technical Program;
Minutes of annual meeting

"Bounds & Convergence of Relaxation & Iteration Procedures," June 11, 1951
American Welding Society Annual Meeting, 1952
Preliminary paper, discussion, correspondence and final draft of paper presented at AWS Annual Meeting, October, 1952. "Interpretation of Test Data Regarding brittle strength and transition temperature of structural steel."
Wu, T. S. "Irregularities in Circular Rings," 1952
Progress report of research
Mathematical concepts--Reprint, 1952
Thesis from Carnegie Institute, nov. 1953
Maters' thesis on "Transients--Their Solutions by Impulse Momentum" by J. Bonetti sent from Carnegie Institute for comment. Letter from E. D'Appolonia, Assoc. Prof. Carnegie Institute, Nov. 1953
Committee on Ship Structural Design, NAS-NRC, 1953
Schedules from October, 1953, meeting; correspondence relating to meeting attendance; reprint; report.
Kuehne Test Data, Feb. 1953.
Data from slip joint testing for Kuehne Manufacturing Company; memo summarizing results
"Strength of Reinforced Concrete Beams & Slabs . . . Blast", Feb. 11, 1953
Plasticity, Ductility and Structural Design," 1953
Reprints, and reports on brittle fracture used in preparation of talk and paper; draft of paper.
MIT Manual on Atomic Weapon Resistant Construction, Chapter X, March 9, 1953
Minutes of Structural Research Staff, 1953, 1955-57
Mimeographed copies of minutes, departmental directory, minute distribution list
An Engineering Approach to a last Resistant Design" (Oct. 1953)
With Fraenkeld discussion, Structural Research Series #63, 1953-56
Landing Mat Design Conference, Vicksburg, Miss. July 11, 1953
Blast Resistant Design, ASCE, Aug. 31, 1953
Old Brittle Fracture Reprints, 1953-64
Growth and Development Items for Structural Research Lab., 1953
Memoranda to Professor W.C. Huntington
Box 4:
AREA--Committee 15--Effect of Edge Conditions on Structural Steel Plates, 1954
Committee reports and correspondence relating to committee work assignments
Draft Copy, and correspondence relating to paper
Draft of Chapters 2 & 5
"Determination of Natural Frequencies...", Dec. 1954
Tanks, Reservoirs and Water Towers, 1954, 1955
Bibliography, reprint, and memoranda relating to stability of reservoirs and cylinders.
EER 1 - A seismic design of Latino Americana Tower, Mexico City, Leonardo Zeevaert, 1954-56
Column Research Council, 1955-56
National Science Foundation, Proposals for Funding, 1955
Research project proposals suggested by Newmark to NSF for possible funding, 1955 trip to Washington, D.C.
Structural Research Group Programs, 1955
SRL Codebook for Programs
Reference Material for Paper on Research Councils--ASTM, 1955
Correspondence and reprints used to prepare a paper on the several research councils, sponsored by ASCE and the Engineering Foundation, for the American Society for Testing and Materials
Bulletin.
"Behavior of Welded Built-up Beams Under Repeated Loads," 1956
   Paper for AWS meeting submitted to NMN for review.
Carnegie Tech. Impulse Loads Tests, 1956
   Correspondence and research reports; "The Behavior of Reinforced Concrete Beams under
   Destructive Impulse Loads."
Research Council on Riveted and Bolted Structural Joints, 1956
   Research Proposals and correspondence.
Seismology Reprints, 1956
EER 1 - World Conference Material, Jan. 12-16, 1956
"Natural Frequencies of Continuous Flexural Members," July 20, 1956
Lehigh University, Nov., 1956 - Dec., 1957
   Papers sent for comment from Lehigh University regarding two research projects: Welded Plate
   Girders, Bruno Thurleman, Project Director and Prestressed Concrete, Carl W. Ekberg, Jr.,
   Project Director.
American Railroad Engineering Association--Committee 30--Impact and Bridge Stresses, 1957
Flexible Pavement Program, May, 1957
   Materials handed out at Flexible Pavement Program, May 22-23, 1957 at Ohio River Division
   Laboratories, Mariemont, Cincinnati, Ohio. Includes blueprints, photographs, progress reports,
   agenda and data sheets.
Latino Americana Tower, Mexico City & Earth quakes, July 1957-1958
Numerical Integration - Structural Dynamics, ASCE, Oct., 8, 1958
   draft
   manuscript copy 1960-61
   master
Rand Symposium Paper, Protective Construction Symposium
   Structural Design, March 1959
Computers, papers on 1958-59
Alumni talk on Civil Engineering Dept. Feb. 24, 1959
ASCE Convention, Protective Construction Manual 1959-60
Research Questionnaire on Effort in Civil Engineering 1959-63

Box 5:

N.M. Newmark and R.E. Copeland, "Simplified Computation of Vertical Pressures in Elastic
   Souvenir Program, pp. 144-52, January 1936.
N.M. Newmark, "What Do We Know About Concrete Slabs," Civil Engineering, Vol. 10, No.9, pp.
   559-62, 1940.
N.M. Newmark, "Influence Charts for Computation of Vertical Displacements in Elastic Foundations,
E.C. Colin, Jr., and N.M. Newmark, "A Numerical Solution for the Torsion of Hollow Sections,
C.P. Siess and N.M. Newmark, "Rational Analysis of Design of Two-Way Concrete Slabs," Journal
   American Concrete Institute, Vol. 20, No. 4, pp. 273-315, December 1948.
F.E. Richart, Jr., and N.M. Newmark, "An Hypothesis for the Determination of Cumulative Damage in
N.M. Newmark, "A Simple Approximate Formula for Effective End-Fixity of Columns," Journal of the


N.M. Newmark, "What Do We Need to Know About Prestressed Concrete," Journal American Concrete Institute, Vol. 24, No. 5, 445-456, 1953.


"Remarks on Analytical Methods for Protective Structural Design," Proceedings of the Second


Newmark, N.M. - Palmer Physical Laboratory "Memorandum on Blast Damage to Concrete and Steel Columns: January 13, 1944.


Box 6:


Box 7:

A 1967-80

ASCE N.Y. Metropolitan Section of ASCE Lecture on EQ design, April 5, 1979
General 1978-79
Technical Council on Lifeline Earthquake Engineering (TCLEE), 1976-77
General 1977
First TCLEE Specialty Conference, Los Angeles, August 30, 31, 1977
Budget 1978-79
Executive Committee Meeting, March-April 1978

Box 8:

ASCE-TCLEE Executive Committee Meeting Oakland, April 8-9/1977
General 1978-79

ASME, 1976-77
American Society for Testing and Materials (ASTM) 1964-78
Applied Technology Council (ATC) -3-2, Project Engineering Panel Meeting
San Francisco or Chicago, March 1979
ATC-3-2 Project Engineering Panel Meeting at Ramada Inn O'Hare November 15, 1978
Cost Estimates for Test Designs ST 2&1 1979

B 1963-80
Berlin Conference, 1978
C 1974-80
Capital Architect, 1978

Box 9:
Carle Foundation, 1968-78
  1967-69
  1970-72
C.E. Department Memos, 1978-79
Council of State Governments, 1977
Course evaluations, 1974-76
D 1972-79
E 1974-78
F 1969-79
G 1974-78
H 1973-80

Box 10:
Harvard Visiting Committees, 1963-73
Humanities, Social Sciences and Engineering Council, 1973
I 1977-79
IAEE Committee on Basic Concepts of a Seismic Code, 1977-79
J 1976-80
Japanese Trip, October 15-27, 1979
K 1976-80
L 1977-79
M (1) 1973-79
M (2) 1973-78
Mc 1976-69
N 1976-80
National Science Foundation, 1974-79
NSF - Finances 1976
NSF Advisory Group on Earthquake Prediction and Hazard Mitigation, 1976-77

Box 11:
NSF Advisory Group on Earthquake Prediction and Hazard Mitigation, 1976
NSF Proposal - Design for Protection Against Dynamic Hazards, 1974-77
Work in Progress - NSF Project, 1975
O 1974-79
Office of Science and Technology Policy, 1977
P 1973-79
Edgar P. Popov, 1965-67
Philippines, nuclear power plant, 1977-79
Q 1975
R 1974-80
Rutgers Advisory Board, 1969-72
Structural Engineers Association of Illinois, 1973-77

Box 12:
Structural Engineers Association of Northern California (SEONC) 1972-75
S 1971-80
San Salvador EQ Conference, 9-12 January 1978
Smilowitx, Robert, 1975-79
Structural Mechanics in Reactor Technology Fifth Conference on (SMIRT-5), 1977-78
SMIRT-5: Berlin Trip, August 1979
Stanley Engineering Company - Jordan (River) Project, 1979
T 1973-79
Tall Buildings 1973-75
Tornadoes 1974
Union College Workshops, Schenectady, New York, July 30 - August 3, 1979
July 24 - 28, 1978
July 26 - 28, 1976
Universities Council on Earthquake Engineering Research (UCEER) Committee, 1977-79
Study Panel on Strong Motion Instrumentation - UCEER, January or February 1979, 1978-79
UNESCO 1977-78
Conference, 10-19 February 1976
Working Papers
UI Foundation 1972-74
United States Geological Survey (USGS) Earthquake Studies Advisory Panel 1977-79
December 1-2, 1978, Menlo Park, CA
May 25-26, 1978, Reston, VA

Box 13:
United States Geological Survey (USGS) Earthquake Studies Advisory Panel
File-NSI-Site Visit USGS 7/25/79
V 1975-79
University of Virginia, Oct. 3-5, 1977
Caracas, Venezuela, 1-4 June 1970
W 1973-78
Westergaard, N.M. - Biography, 1972-74
Wind Engineering Research Council WERC, 1973-77
Sixth World Conference on Earthquake Engineering (WCEE), Jan. 10-14, 1977
(papers by NMN) 1974-79
X-Y-Z 1967-80
Zurich, Switzerland, September 29-30, 1978, abstract and diagrams included

Box 14:
A.S. Engineering Education Meetings 1960-61
Cooper Union Conference, Ringwood, N.J., Civil Eng. Education Jan. 1960
Research & Civil Engineering Education, ASCE Annual Convention Paper, 1960-62
2nd World Conference on Earthquake Engineering, Tokyo, July, 1960
Earthquake Design, PCA, San Francisco, 1961
ASTM Symposium on Soil Dynamics, June 1961
"Look Ahead at Civil Engineering Education," Rice University, Nov, 12, 1965
Davis Hall Dedication, Univ. of Cal. - Berkeley, "Design Specifications for Earthquake Resistance,"
Oct. 1969

*Publications in the University Archives are also indicated with a check mark on the mimeographed
"List of Publications" at the end of the Supplemental Finding Aid.