Hans Albert Einstein papers

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Note
The Einstein papers (previously MS 80/8), Sediment Transport collection (previously MS 76/12), and Flow collection (previously MS 89/4) were merged into a single collection with a combined finding aid in April 2020 by Andrew Lippert, Special Collections Processing Archivist.
Descriptive Summary

Title: Hans Albert Einstein papers

Date (inclusive): 1878-1972, undated

Collection Number: WRCA 100

Creator: Einstein, H. A. (Hans Albert)

Extent: 42.0 linear feet (42 boxes)

Repository: Rivera Library. Special Collections Department.
Riverside, CA 92517-5900

Abstract: The professional papers of Hans Albert Einstein. Materials include research notes and data, maps, correspondence, and reprints. Topics are primarily river sedimentation and flow.

Languages: The collection is primarily in English with materials in French, Spanish, Italian, German, Dutch, and Japanese.

Access
The collection is open for research.

Publication Rights
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Preferred Citation
[identification of item], [date if possible]. Hans Albert Einstein papers (WRCA 100). Water Resources Collections and Archives. Special Collections & University Archives, University of California, Riverside.

Acquisition Information
The Hans Einstein materials were given to the Water Resources Collections and Archives following his death in 1973 by his wife, Elizabeth Roboz Einstein.

Processing History
Processed by Water Resources Collections and Archives staff, 1999. The collection also includes 3 boxes of unprocessed materials.

The Einstein papers (previously MS 80/8), Sediment Transport collection (previously MS 76/12), and Flow collection (previously MS 89/4) were merged into a single collection with a combined finding aid in April 2020 by Andrew Lippert, Special Collections Processing Archivist.

Biographical Note
Hans Albert Einstein
1904-1973
Professor of Hydraulic Engineering, Emeritus

Professor Hans Albert Einstein, an accomplished scholar, engineer, and teacher, was born on May 14, 1904 in Bern, Switzerland, a year before his father, Albert H. Einstein, published the Special Theory of Relativity. His mother, Mileva Maric, was from Serbia and was a physics student before her marriage. Professor Einstein received his elementary school education in Zurich. In 1926 he received the Diploma in Civil Engineering, and in 1936 the Doctor of Technical Sciences, both from the Swiss Federal Institute of Technology in Zurich.

For four years following the receipt of his Diploma degree, he worked in Dortmund, Germany as a steel designer. During Professor Einstein’s graduate study he became deeply interested in the fundamental mechanics of the transportation of sediment by flowing water. His doctoral thesis, Bed Load Transport as a Probability Problem (1936), is the definitive work on sediment transportation as accepted by engineers and scientists throughout the world.

In 1927 he married Frieda Knecht of the University of Zurich, a teacher of German language and literature. One of their three children, Bernard, is a physicist, and the second, Evelyn, took her degree in anthropology. A third child, Klaus, died as a young boy shortly after the family came to the United States.

In 1938 Professor Einstein immigrated to the United States where he continued his research on the transport of sediment, first at the U.S. Agricultural Experiment Station at Clemson, South Carolina (1938-1943), and later (1943-1947) at the U.S. Department of Agriculture Cooperative Laboratory, California Institute of Technology. These years of research culminated in the classic Department of Agriculture Technical Publication No. 1026, The Bed-Load Function for Sediment Transportation in
Open Channel Flows.

Professor Einstein joined the faculty of the University of California in 1947 as Associate Professor, and later became Professor of Hydraulic Engineering. He possessed the rare combination of a highly competent research scientist, a fine practicing engineer, and an excellent teacher in both the graduate and undergraduate areas of instruction. To recognize the many valuable contributions of Professor Einstein in research and teaching, his many former students organized in his honor a symposium on sedimentation on the Berkeley campus upon his retirement in 1970. The proceedings of this symposium resulted in the book, Sedimentation, in 1971.

Professor Einstein’s extracurricular activities were diverse and numerous. He loved sailing and music. No day was too rough on San Francisco Bay to prevent him from heading out through the entrance of the Berkeley Yacht Harbor for a period of excitement and relaxation on the Bay.

Professor Einstein was extremely generous with his time-whether in conferences with his many graduate students, teaching for brief periods at foreign universities, or advising countries around the world on solutions to critical sedimentation problems. On one such occasion in late June 1973, he was at the Woods Hole Oceanographic Institution, Woods Hole, Massachusetts, giving lectures and participating in research when at lunch he suffered a heart attack from which he did not recover and died July 26, 1973. Early after his arrival at Woods Hole he expressed his admiration of the beauty and serenity of this small seaside town- his family therefore chose the small cemetery overlooking the harbor as his final resting place.

Widowed in 1958 by the death of his first wife, Professor Einstein married Elizabeth Roboz, then a biochemist at Stanford Medical School, and later Clinical Professor of Neurology at the University of California, San Francisco Medical Center.

By students, friends, and colleagues, Hans Albert Einstein’s name will be recalled with warmth throughout the world. He offered encouragement and patient assistance to his students, and through his contacts with students, teachers, and engineers, he had great influence on the scientific development of the hydraulics of sedimentation in foreign countries as well as in the United States. As an example of the many letters received by the Department from former graduate students, one student observed, The picture of his well built and smiling figure striding across the Hydraulic Laboratory still hovers in my mind and before my eyes. We will always cherish those sweet memories.

Among Professor Einstein’s numerous honors and awards were a Guggenheim Fellowship (1953), research awards from the American Society of Civil Engineers (1959 and 1960), The Berkeley Citation from the University of California (1971), the Certificate of Merit from the U.S. Department of Agriculture (1971), and a certificate of recognition for more than twenty years of devoted and distinguished service to Applied Mechanics Reviews by the American Society of Mechanical Engineers (1972).

J. W. Johnson
D. K. Todd
R. L. Wiegel

Collection Scope and Contents

Professional and working papers by Einstein and others.

Collection Arrangement

The materials in this collection are arranged into three series. Each series was previously its own collection.

Series 1. Hans A. Einstein papers, 1913-1972, undated

Indexing Terms

The following terms have been used to index the description of this collection in the library’s online public access catalog.

Subjects
Binnie, Alfred Maurice, 1901-1986
Chien, Ning
De Marchi, Giulio
East Bay Municipal Utility District (Calif.)
Escande, Leopold
Favre, Henry
Ghetti, Augusto, 1914-
Harrison, Anthony John Maxwell
Indri, Egidio
Inglis, Claude Cavendish, Sir
Irmay, Shragga
Jorissen, Andre
von Karman, Theodore, 1881-1963
Kasugaya, Nobumasa, 1920-1990
Keulegan, Garbis Hovannes, 1890-1989
Krumbein, William Christian (W. C.), 1902-1979
Lane, E. W.
Meyer-Peter, Eugen, 1883-1969
Peters, A. S.
Plessset, Milton Spinoza
Schumm, Stanley Alfred
Scimemi, Ettore
United States. Army. Corps of Engineers
United States. Bureau of Reclamation
Atchafalaya River (La.)
Bear River (Utah-Idaho)
Bed load
Cavitation
Channels (Hydraulic engineering)
Colusa Weir (Calif.)
Flow meters
Hydraulic measurements
Hydraulics
Hydrodynamics
Los Gatos Creek (Calif.)
Old River (La.)
Rio Grande (Colo.-Mexico and Tex.)
River engineering
Salinas River Project (Calif.)
Sediment control
Sediment transport
Sedimentation analysis
Sedimentation and deposition
Soil conservation
Soil erosion
Stream channelization -- Louisiana
Stream measurements
Suspended sediments
Turbulence
Turbulent boundary layer
Water-pipes -- Hydrodynamics

Genres and Forms of Materials
Correspondence
Maps
Research notes
Series 1. Hans Albert Einstein papers 1913-1972, undated
Series Scope and Contents
This series is comprised of the professional and academic papers of Hans Albert Einstein.
Series Arrangement
Materials in this series are grouped topically into sub-series per the original order of the collection.

Sub-Series 1.1. Colusa Weir Sedimentation Investigation 1940-1965, undated
Box 1, Folder 1.1
General report of the study including some tables undated
Box 1, Folder 1.2
Maps, graphical data, correspondence, photographs undated
Box 1, Folder 1.3
Proposal to the State Reclamation Board by Einstein to perform Engineering Services for the Colusa Weir project undated
  Physical Description: (4 copies)
Box 1, Folder 1.3
A Copy of the invitation for proposals undated
Box 1, Folder 1.3
Hydrographs undated
Box 1, Folder 1.4
Aerial Photographs undated
Box 1, Folder 1.4
General Location Map undated
Box 1, Folder 1.4
Sacramento River Alignment Map undated
Box 1, Folder 1.4
Graphs undated
  Scope and Contents
  Discharge curves, frequency of flows, and water surface slope
Box 1, Folder 1.4
Tables 1940-1965
  Scope and Contents
  Duration and frequency of flow, Discharge over Colusa Weir (daily)
Box 1, Folder 1.4
Correspondence undated
  Physical Description: 1 piece
Box 1, Folder 1.5
Colusa Weir Investigation reports undated
  Physical Description: 2 copies differing slightly
  Scope and Contents
  Office reports for the Reclamation Board
Box 1, Folder 1.5
Drilling and Sampling Log undated
Box 1, Folder 1.6
Calculations for Bed Load Function Sacramento River undated

Sub-Series 1.2. Channel Stability in the Middle Rio Grande 1947-1948
Box 1, Folder 2.1
Large notebook containing maps, progress reports, assorted calculations (most handwritten), some correspondence 1947-1948

Sub-Series 1.3. Silica Flour Experiments 1957-1959
Box 1, Folder 3.1
Silica Flour Flume Experiments (original data) May-August 1957
  Physical Description: (1 large notebook)
Box 1, Folder 3.2
Bed Load Transport of Silica Flour (original data) with George Kalkanis 1959
  Physical Description: (1 large notebook)
Sub-Series 1.4. Velocity and Sediment Distribution 1952-1954

Volume I - (original data) 1952
Scope and Contents
Pitot tube calibration, Channel roughness

Volume II - (original data) 1954
Scope and Contents
Runs C-8, S-5- S-7

Volume III - (original data) 1954
Scope and Contents
Runs C-9 - C-11 and S-8 - S-18

Sub-Series 1.5. Atchafalaya River Study 1950-1952, undated

Box 2, Folder 5.1 The Atchafalaya River Study 1951
Scope and Contents
Volume 3, report put out by the U.S. Corps of Engineers

Box 2, Folder 5.2 Memorandum February 1, 1952
Scope and Contents
"Bed Load Transport Data and Computations for Old, Atchafalaya, and Mississippi Rivers, by Dr. Straub's Method"

Box 2, Folder 5.3 Investigation of Scour and Deposits in the Vicinity of Crevasses June 9, 1952
Scope and Contents
Includes maps

Box 2, Folder 5.4 Memorandum July 9, 1952
Scope and Contents
Effect of Water Regulation on the Regimen of the Atchafalaya and of the Mississippi below Old River. Includes graphs, tables

Box 2, Folder 5.5 Bed-Load Function of the Atchafalaya River, Miles 0 - 41.7 undated
Table undated
Scope and Contents
Suspended Sediment Observations: Atchafalaya River at Simmesport, LA

Box 2, Folder 5.6 Sediment Load graphs undated
Box 2, Folder 5.7 Hydrographs with some tables undated
Box 2, Folder 5.8 Correspondence, agenda, data related to conference on the Atchafalaya River Study undated
Box 2, Folder 5.9 Studies of River Bed Material undated
Box 2, Folder 5.10 Atchafalaya River (1) Suspended Sediment Distribution -- data calculations undated
Box 2, Folder 5.11 Atchafalaya River (2) Velocity Distribution, Determination of K and Measured Z, vs. Theoretical Z undated
Box 2, Folder 5.12 Atchafalaya River (3) Map, 1950 cross-section and slope, bed material samples. Calculation to total load from point sample of suspended load, determination of curve undated

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</table>
Box 3, Folder 9.9 | California Streams and Their Sediment Load undated
Box 3, Folder 9.10 | Notes on the mineralogy of some sands from the Arroyo Seco and Salinas River (by Osborne Hutton) undated
Box 3, Folder 9.11 | Alphabetical list of dams under jurisdiction of the state of California undated
Box 3, Folder 9.12 | Salinas River suspended Load samples at San Lucas, Bed Material Samples by Chien at San Ardo, San Lucas and King City undated

Scope and Contents
Total Load calculation

Box 3, Folder 9.13 | Financial statements, correspondence, grant proposals undated
Box 3, Folder 9.14 | Financial statements, forms, related correspondence undated
Box 3, Folder 9.15 | Channel Improvements in Alluvial Streams (by A.P. Grant) 1948
Box 3, Folder 9.16 | Transport in Arroyo Seco (Karl S. Pister) undated
Box 3, Folder 9.17 | Photographs undated
Box 3, Folder 9.18 | Photographs and negatives undated
Box 3, Folder 9.19 | Original Data - Bed Load Transport in Salinas River, Arroyo Seco, San Antonio River, and Nacimiento Rivers undated

Sub-Series 1.10. East Bay Municipal Utility District Hydraulic Studies undated

Box 4, Folder 10.1 | Hydraulic Model Study of Grit Chambers for the 34th Street Raw Sewage Pumping Plant undated
Scope and Contents
Multiple copies of the report - handwritten drafts, typewritten drafts final copies, some illustrative material (plans), calculations.

Box 4, Folders 10.2-10.4 | Calculations - handwritten undated
Box 4, Folder 10.5 | Correspondence, accounting forms, reports attached to correspondence undated
Box 4, Folder 10.6 | Photos undated
Box 4, Folder 10.7 | Photos and plans undated
Box 4, Folder 10.8 | Illustrative matter (5 figures) - drawings calculations undated

Sub-Series 1.11. Tides And Canals 1937, 1950-1960, undated

Box 4, Folder 11.1 | Flow in Tidal Canals 1937
Scope and Contents
Application of the reflected Wave Theory to the Prediction of Tides and Currents in the Enlarged Chesapeake and Delaware Canal

Box 4, Folder 11.2 | Tides and Currents in Chesapeake and Delaware Canal undated
Box 4, Folder 11.3 | The Prediction of Tidal Flows in Canals and Estuaries - First Report July 1954
Box 4, Folder 11.4 | The Calculation of Tidal Flows in the Panama-Sea-Level Canal by the Linearized Method - Second Report November 1956
Box 4, Folder 11.5 | Study of Causes of Instability in Tidal Calculations using the Electric Analog Model - Third Report February 1960
Box 4, Folder 11.7 | Stability of Tidal Inlets - a progress report April 1958
Box 4, Folder 11.8 | Interim Report on Office Studies of Tidal Theories Prepared by Philadelphia District for Committee on Tidal Hydraulics October 1951
Box 4, Folder 11.9 | Preliminary Sheets and extra prints of 11.8 calculations 1950-1951 1950-1951 Data for St. Lucie Canal undated
Box 4, Folder 11.10 | Data for St. Lucie Canal undated

Sub-Series 1.12. Suspended Load 1945, undated

Hans Albert Einstein papers
### Sub-Series 1.12. Suspended Load 1945, undated

| Box 4, Folder 12.1 | Factors in the Movement of Bed-Load in Channels and in its Relation to Suspended Load - by A.R. Thomas 1945 |
| Box 4, Folder 12.2 | The Efficiency of Suspended-Sediment Sampling (Original data) by Ning Chien undated |
| Box 4, Folder 12.3 | Binder of calculations, notes, drawings - handwritten undated |

### Sub-Series 1.13. Class and Student Work - Civil Engineering 263, 298, 275, others 1956, 1970, undated

| Box 4, Folder 13.1 | Student reports for CE 275 undated  
Scope and Contents  
Short papers summarizing, abstracting articles, papers, in hydrology |
| Box 4, Folder 13.2 | Student reports for CE 263 undated |
| Box 4, Folder 13.3 | Class handouts, student papers (review of literature as above) for CE 298 undated |
| Box 4, Folder 13.4 | Selected Bibliography on Sedimentation for CE 206 Compiled by Einstein for class undated |
| Box 4, Folder 13.5 | The Bed Load Flume - Richmond Field Station by P.F. Ruff and D.R. Dudler under Direction of Einstein September 1956 |
| Box 4, Folder 13.6 | Hydraulic Energy Dissipators by Enrique Escudero for CE 299 Fall 1970 |

### Sub-Series 1.14. Miscellaneous 1913, 1942, 1957, undated

| Box 4, Folder 14.1 | Discharge Measurement Notes State of Arkansas near Pine Bluff 1957 |
| Box 4, Folder 14.2 | Dardanelle Sediment Report undated  
Scope and Contents  
measurements at numerous gaging stations |
| Box 4, Folder 14.3 | Folder of loose, unlabeled photos 1913  
Scope and Contents  
Iowa one says Pit River Dam |
| Box 4, Folder 14.4 | Photographs - Model Studies Arroyo Seco Flood Control Barriers 1942  
Unmarked illustrations, calculations undated |

### Sub-Series 1.15. Works by Others 1942-1971, undated

| Box 5, Folder 15.1 | Soil Conservation - Vol. VIII, no. 1 July 1942 |
| Box 5, Folder 15.2 | PG undated |
| Box 5, Folder 15.3 | A Numerical Test of the bs - Theory by Lt. Col. T. Blench 1946 |
| Box 5, Folder 15.4 | Flow and Sediment Transport in the Vicinity of Screens 1965  
Physical Description: 3 copies + illus  
Scope and Contents  
by Mehmetcik Bayazit 1965 |
| Box 5, Folder 15.5 | Memorandum on the Typical Characteristics of Taiwan (Formosa) Rivers undated  
Physical Description: 2 copies + illus, map (col), photos |
| Box 5, Folder 15.6 | Three Rating Curves submitted to Einstein for his opinion 1959 |
Box 5, Folder 15.7  Engineering Geology of San Francisco Bay by Parker D. Trask and Jack W. Rolston
Scope and Contents
Typewritten copy

Box 5, Folder 15.8  Watershed Approach to Sedimentation Problems by Wendell R. LaDue with discussion by H. Einstein Alex Van Praag, Jr. undated

Box 5, Folder 15.9  Berekeningen over de afsluiting van de Brielsche Maas en Botlek met practische beschorwingen over getijberekeningen in het algemeen by J.J. Dronkers. some typed translation included De Ingenieur - 63e No. 40 5 October 1951

Box 5, Folder 15.10  Journal of the Hydraulics Division November 1962

Box 5, Folder 15.11  Journal of the Hydraulics Division July 1967

Box 5, Folder 15.12  Development of the Mechanics of Sediment Transportation Vito A. Vanoni 1947
Scope and Contents

Box 5, Folder 15.13  Sediment Transport in Cache Creek Drainage Basin in the Coast Ranges West of Sacramento, California by Lawrence K. Lustig and Robert D. Busch in Geological Survey Professional Paper 562-A 1967

Box 5, Folder 15.14  Photostats representing beginning of study of relation of tidal currents to the San Francisco Bar. Submitted to Einstein by H.G. Gerdes, 1955

Box 5, Folder 15.15  Exhibit Drawings - Salt Water Barrier Investigation - submitted by Einstein by H.G. Gerdes 1955
Physical Description: 2 copies

Box 5, Folder 15.16  Comprehensive Survey of San Francisco Bay and Tributaries Hydraulic Model Studies - Report No. 3 - Model Tests of Hopper Dredge Spoil Disposal - San Francisco Bay February 1963

Box 5, Folder 15.17  Preprint for the Symposium on Sedimentation to honor Dr. H. A. Einstein June 1971

Sub-Series 1.16. Works By Hans Albert Einstein 1934-1972, undated
Scope and Contents
Listed alphabetically by title. Joint author(s) indicated where appropriate.

General
This does not represent a complete listing of Einstein's publications.

Box 6, Folder 16.1  A Basic Description of Sediment Transport on Beaches 1972
Scope and Contents

Box 6, Folder 16.2  The Bed-Load Function for Sediment Transportation in Open Channel Flows 1950
Physical Description: 5 copies
Scope and Contents

Box 6, Folder 16.3  Bed-Load Transportation in Mountain Creek 1944
Scope and Contents
United States Department of Agriculture Soil Conservation Service Prepared at Greenville Sediment Load Laboratory, Clemson, South Carolina
<table>
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<th>Box 6, Folder 16.4</th>
<th>Can the Rate of Wash Load be Predicted from the Bed-Load Function?</th>
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<tr>
<td>Box 6, Folder 16.5</td>
<td>Clogging of Porous Column of Spheres by Sediment</td>
<td>1970</td>
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**Scope and Contents**
Journal of the HYDRAULICS DIVISION Proceedings of the American Society of Civil Engineers, Volume 96, No. HY2, February

| Box 6, Folder 16.6 | Deposition of Suspended Particles in a Gravel Bed | 1968 |

**Scope and Contents**
Journal of the HYDRAULICS DIVISION Proceedings of the American Society of Civil Engineers, Volume No. 94, No. HY5, September

| Box 6, Folder 16.7 | Determination of Rates of Bed-Load Movement | 1948 |

**Physical Description:**
(2 copies)

**Scope and Contents**

| Box 6, Folder 16.8 | A Distinction Between Bed-Load and Suspended Load in Natural Streams | 1940 |

**Physical Description:**
(4 copies)

**Scope and Contents**
1940 TRANSACTIONS OF THE AMERICAN GEOPHYSICAL UNION. Annual Meeting 21 (pt. 2); 628-633. (with Alvin G. Anderson, Joe W. Johnson)

| Box 6, Folder 16.9 | Effects of Heavy Sediment Concentration Near the Bed on Velocity and Sediment Distribution | 1955 |

**Physical Description:**
(2 copies)

**Scope and Contents**
1955 University of California Institute of Engineering Research, Berkeley, CA (with Ning Chien)

| Box 6, Folder 16.10 | Einstein Bed-Load Function at High Sediment Rates | 1972 |

**Physical Description:**
(2 copies)

**Scope and Contents**
Journal of the HYDRAULICS DIVISION Proceedings of the American Society Civil Engineers, Vol. 98, No. HY1, January (with Farouk M. Abdel-Aal)

| Box 6, Folder 16.11 | An Electric Analog Model of the Sacramento San Joaquin Delta | 1958 |

**Scope and Contents**
Hydraulics Laboratory, University of California, Berkeley, June, 1958 (with J.A. Harder)

| Box 6, Folder 16.12 | Engineering Derivation of the Navier-Stokes Equations | 1963 |

**Scope and Contents**
Journal of the ENGINEERING MECHANICS DIVISION Proceedings of the American Society of Civil Engineers, Volume 89, No. EM3, June

| Box 6, Folder 16.13 | Equilibrium Method for Limit Calculation of Frames | 1967 |

**Scope and Contents**
Journal of the ENGINEERING MECHANICS DIVISION Proceedings of the American Society of Civil Engineers, Volume 93, No. EM5, October> (with Douglas H. Clyde)
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<th>Box 6, Folder 16.14</th>
<th>Estuarial Sediment Transport Patterns 1961</th>
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<td>Journal of the HYDRAULICS DIVISION</td>
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<td>Proceedings of the American Society of</td>
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<td>Civil Engineers, Volume 87, No. HY2,</td>
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<td>March (with R.B. Krone)</td>
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<th>Experimental Apparatus Studies Sediment Transport in Closed Conduits 1963</th>
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<td>CIVIL ENGINEERING, October 1963 (with W.H. Graf)</td>
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<th>Box 6, Folder 16.16</th>
<th>Flow on a Movable Bed 1943</th>
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<td>Proceedings of the Second Hydraulics Conference, Bulletin 27, University</td>
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### Series 3. Sediment Transport materials 1878-1972, undated

#### Series Scope and Contents

Articles, reprints, and printed materials on an assortment of subject matters related to sediment transport.

#### Series Arrangement

Materials in this series are arranged into sub-series by subject. It is arranged according to the original order of the collection. Each subject based sub-series is generally, but not strictly, arranged in chronological order.

#### Language of Materials

Materials in this series are primarily in English but also includes documents in German, Italian, Spanish, French, and Japanese.

### Sub-Series 3.1. Soil Erosion - Scour 1878, 1935-1972

| Box 31, Item A-1 | Herschel, Clemens. *On the erosive and abrading power of water upon the sides and the bottom of rivers and canals*, *Journal of the Franklin Institute*, Vol. 105, No. 6, pp. 330-403 June 1878 |
| Box 31, Item A-2 | Wilson, Walter T. *Report on volume of bed and bank erosion of East and West Tarkio Creeks above the gaging stations since these creeks were straightened.* 1939  
Physical Description: 2 l. typescript |
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| Box 31, Item A-4 | Tison, L. J. *Erosion of the bottom of river beds* 1939  
Physical Description: 14 p. typescript |
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Scope and Contents  
(U.S. Dept. of Agriculture, Technical bulletin no. 633) |
Physical Description: 3 pages |
| Box 31, Item A-8 | Meyer-Peter, E. and R. Muller. *Affouillements en aval des barrages.* Presented at the Second Meeting of the International Association for Hydraulic Structures Research, Stockholm June 7-9, 1948  
Physical Description: 16 pages  
Scope and Contents  
(The Association's Publication no.29, prelim.). |
| Box 31, Item A-9 | Romita, Pier Luigi. *Erosioni d'alveo al piede delle pile di ponte investite obliquamente dalla corrente.* Milano, Instituto di Idraulica e Costruzioni Idrauliche del Politecnico di Milano 1953  
Physical Description: 24 pages  
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Physical Description: 9 pages  
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| Box 35, Item I-8 | Durand, Robert. The hydraulic transportation of gravel and pebbles in pipes, reprint from *La Houille Blanche*, Numero Special B, pp. 609-619 October 1951  
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Physical Description: 1 v
Scope and Contents
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Box 38, Item O-58
Physical Description: 4 l
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<tr>
<td>Box 38, Item R-42</td>
<td>McHenry, J. Roger. <em>Use of radioisotopes in sedimentation research</em> 1959</td>
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<td>Reineck, H. E. <em>Uber hilfsmittel und methoden der marinen aktuo-geologie,</em> <em>Deutsch. Geol. Ges,</em> Band 112, 3 Teil. p. 531 undated</td>
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<td>Philip, J. R. <em>The damping of a fluctuating concentration by continuous sampling through a tube,</em> <em>Aust. J. Phys.,</em> No. 16, pp. 454-463 1963</td>
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<td>Mero, John L. <em>A method of determining the direction of net sand drift along Northern California beaches using natural thorium as a radioactive tracer.</em> Submitted for coursework in Geological Engineering 299, Department of Mineral Technology, University of California, Riverside 1959</td>
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<td>Sanden, E. J. and C. R. Neill. <em>Measuring scour around bridge foundations in floods,</em> reprint from <em>Public Works in Canada</em> September 1963</td>
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<td>Murphy, T. D. <em>Innovations in the sediment density gamma probe.</em> Prepared for the ASCE Hydraulics Division Meeting, Vicksburg, Miss August 18-21, 1964</td>
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<td>Gallo, Giulio and Leonardo Rotundi. <em>Beitrag zum feststoffproblem.</em> München, Bayerische Landesstelle für Gewässerkunde 1965</td>
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<td>Kuenen, Ph. H. <em>Experiments in connection with turbidity currents and clay-suspensions,</em> reprint from <em>Proceedings of the Seventeenth Symposium of the Colston Research Society,</em> Vol. XVII, University of Bristol, pp. 47-74 April 5-9, 1965</td>
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Flammer, Gordon H. and Ernest Y. Liu, *Ultrasonic measurement of sediment size distribution and concentration*. Logan, Utah State University, Utah Water Research Laboratory 1969

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  (Translation T-5) (Translated by Edmund A. Prych)
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Box 39, Item T-1  Bulle, Hermann. *Untersuchungen über die geschiebeableitung bei der spaltung von wasserläufen; modellversuche aus dem Flussbaulaboratorium der Technischen Hochschule zu Karlsruhe*. Berlin, Verein Deutscher Ingenieure 1926
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Box 39, Item T-5  Savarensky, A. D. *Peculiarities of erosion in the downstream pool of dams on mountainous rivers*. U.S. Soil Conservation Service 1934
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Box 39, Item T-7  Engineer School, Fort Humphreys, Va. *River and harbor improvement location of contraction works; company officers course 1933-1934*
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| Box 39, Item T-27 | Blanchet, Ch. *Formation et destruction par un courant d'eau de massifs en pierres,* La Houille Blanche, No. 2, pp. 141-149 March 1946 |
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| Box 39, Item T-52 | Novak, P. *Vypustna zarizeni prehrad na sterkonosnych tocich,* Vodni Hospodarstvi, Cislo 9 1956  
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Box 39, Item T-58  U.S. Army Corps of Engineers. Waterways Experiment Station Summary of test results, Old River rock-fill closure dam embankment formed by dumping in flowing water. Vicksburg, Miss 1958
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Box 39, Item T-59  Raynaud, A. Water intakes on mountains streams -- example of application to the Torrent du Longon. Prepared for the Fourth Meeting, International Association for Hydraulic Research, Bombay 1951
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| Box 39, Item T-71 | The P. L. A. Thames model, reprint from *P. L. A. Monthly*, pp. 3-7 August 1961  
Physical Description: 71 l  
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Physical Description: 18 pages |
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| Box 39, Item T-84 | Bribiesca, Jose, L. Sanchez and Carlos Cruickshank. Contribucion a la hidraulica del cierre de cauces, *in Ingenieria*, Enero pp. 31-44 1963 |
| Box 39, Item T-86 | Tsuchiya, Yoshito. *Basic studies on the criterion for scour resulting from flows downstream of an outlet*. Kyoto, Japan, Kyoto University, Disaster Prevention Research Institute 1963  
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| Box 39, Item T-98 | Benini, Giuseppe. *Researches on sedimentation in settling basins carried out on real plants and on hydraulic models*, *L'Energia Elettrica*, Vol. XXXVII, No. 4 1960  
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Palnitkar, V. G. *A new type of anicut or diversion weir on small streams with permeable and friable foundations; first six monthly progress report for the period May 1965 to September 1965*. Hyderabad, Osmania University, University College of Engineering 1965
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Farleigh, D. R. P. *Channel movements resulting from construction of new bridge abutments at Conway, N. Wales*. Prepared for 9th Congress, International Association for Hydraulic Research, Dubrovnik 1961
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Dominy, Floyd E. *Design considerations in the economic handling of sediment in irrigation systems*. Prepared for the joint meeting of the United States National Committee on Irrigation and Drainage and the Irrigation and Drainage Division of the ASCE, El Paso, Texas December 2-4, 1964
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Taiwan. National Taiwan University. Taipei Hydraulic Laboratory. *Model test on spillway and diversion tunnel of Paiho Reservoir Project*. Taipei, Taiwan 1964
Physical Description: 58 pages
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Box 39, Item T-119
Summary of papers on channel constrictions, pp. 32-45 undated

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| | Scope and Contents  
| | (Technical report C:68004)  

### Sub-Series 3.21. Estuaries 1937-1972

| Box 39, Item U-5 | Wicker, C. F. *Sediment discharge measurements in tidal waterways*. Vicksburg, Miss., U.S. Army Corps of Engineers, Waterways Experiment Station 1950  
| | Physical Description: 7 l. typescript  
| | Physical Description: 5 pages  
| Box 39, Item U-14 | Rolfe, J. A. S. *Recent developments in the study of bed load transport in tidal models*. Prepared for the Third Meeting, International Association for Hydraulic Structures Research, Grenoble 5-7 September 1949  
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Einstein, H. A. *The viscosity of highly concentrated underflows and its influence on mixing,* *Transactions, American Geophysical Union,* pp. 597-603 1941

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<td>U.S. Army Corps of Engineers. Waterways Experiment Station. <em>Studies of light-weight materials with special reference to their movement and use as model bed material</em>. Vicksburg, Miss 1936</td>
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