

Karl Terzaghi Research Collection / Charles F. Ripley (collector)

Compiled by Christopher Hives (2003)

Revised by Erwin Wodarczak (2014)

University of British Columbia Archives



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Collection Description

Karl Terzaghi Research Collection / Charles F. Ripley (collector). – 1912 -1997.

1.37 m of textual records.

10 photographs.

1 audio recording.

Biographical Sketch

Charles F. Ripley was a former student and colleague of Karl Terzaghi (1883-1963), considered the "father of Soil Mechanics", now known as Geotechnical Engineering.

A native of Prague, Karl Terzaghi graduated from the Technical University of Graz and then worked as a geologist in the field of civil engineering. Following World War I he carried out a program of research into the properties of soils that lead to the publication in 1925 of his famous book, *Erdbaumechanik* which presented the first co-ordinated picture of soils as engineering materials. This work was done while he was on the staff of the Imperial School of Engineers, and then of Robert College, both in Istanbul, Turkey. He was appointed a visiting professor at the Massachusetts Institute of Technology in 1925 but four years later returned to a specially created professorship at the Technical University of Vienna. In 1938 Terzaghi returned to the United States accepting a position at Harvard University from which he retired in 1955.

Terzaghi's pioneer work was publicly recognized when the first International Conference on Soil Mechanics was held at Harvard University in 1936. He lived to see soil mechanics well established throughout the world, in the practice of civil engineering and in the curricula of almost all schools of civil engineering. More than just a theorist, Terzaghi was also a consulting engineer of international reputation and with a world-wide practice. Terzaghi served as consultant on a number of significant projects in British Columbia including the Mission Dam that was renamed the Terzaghi Dam in his honour in 1965.

Scope and Content

Gathered by Charles F. Ripley, this research collection includes three series relating to Terzaghi including; biographical materials, publications and professional reports. The reports series includes information about the British Columbia projects with which Terzaghi was involved. The collection also includes copies of publications by Ralph B. Peck and J.D. Mollard.

Notes

File list available.

The bulk of the collection was transferred from the UBC Library Science and Engineering Division to the University Archives in July 2003. File 9-1 was transferred in Spetempber 2014.

Series Descriptions

Karl Terzaghi Biographical Materials series. – 1912-1997.

13 cm of textual records.

10 photographs.

1 audio recording.

Series includes copies of articles, tributes and papers about Terzaghi, copies of some incoming and outgoing correspondence by/with/about Terzaghi, copies of essays and talks by Terzaghi, photographs and an audio recording about Terzaghi.

Karl Terzaghi Publications series. – 1907-1964.

48 cm of textual records.

Series consists of copies of articles, reviews and discussions by Terzaghi (1907-1964).

Karl Terzaghi Professional Reports series. – 1929-1962.

22 cm of textual records.

Series consists of copies of professional reports prepared by Karl Terzaghi (1929-1962).

Ralph B. Peck Publications series. – 1936-1997.

35 cm of textual records.

Series consists of copies of publications by engineer Ralph B. Peck (1936-1997).

J.D. Mollard Publications series. – 1946-1996.

13 cm of textual records.

Series consists of copies of articles by engineer J.D. Mollard (1946-1996).

File List

BOX 1

KARL TERZAGHI BIOGRAPHICAL MATERIALS SERIES

- 1-1 Typescript and off-print of Charles F. Ripley "Karl Terzaghi and British Columbia" *Geotechnical News* (1997), pp. 46-53.
- 1-2 Photocopy of Ruth D. Terzaghi, "Karl Terzaghi, 1883-1963" *Journal Boston Society of Civil Engineers* (July 1964), pp. 289-291.
- 1-3 Photocopy of "Karl Terzaghi's Last Writings on Soils" *Engineering News-Record* (November 21, 1963), pp 39-40. Tributes and Papers about KT
- 1-4 Dedication: "Karl Terzaghi and the Boston Society of Civil Engineers" from "Contributions to Soil Mechanics, 1954-1962" Boston Society of Civil Engineers, 1965
Press release #100, Div. Bldg. Research, Nat. Research Council, Ottawa (November 1963) : "Death of Karl Terzaghi".
Photocopy of announcement of "Terzaghi Memorial Lectures" seminar at Bogazici University, Istanbul, Turkey, August 14-16, 1973. "Terzaghi Stamp" *ISSMFE News* (Jan-Mar. 1984)
R.F. Leggett, "There are Two Terzaghi Dams" *Geotechnical News*, Vol. 2 No.1 (March 1984), pp. 4-5
Photocopy of comments by C.F. Ripley at Terzaghi Memorial Luncheon, VII Pan. Am. S.M.& F.E. Conference, Vancouver, BC (21 June 1983).
Photocopy of program from Terzaghi Memorial Luncheon, VII Pan. Am. S.M.& F.E. Conference, Vancouver, BC (21 June 1983).
- 1-5 Photocopy of Arthur Casagrande, "Karl Terzaghi, 1883-1963" *Harvard Engineers and Scientists Bulletin* Vol. 145 No. 1 (March 1964), pp. 3-9
Photocopy of R.F. Leggett, "Karl Terzaghi, 1883-1963" *Canadian Geotechnical Journal* Vol. 1 No.2 (March 1964), pp 122-124.
Photocopy of "Soils Expert Karl Terzaghi Dies" *Engineering News-Record* (31 October 1963).
Photocopy of "The Terzaghi Contribution" ; Editorial ; *Engineering News-Record* (21 November 1963)

- 1-6 "Terzaghi Memorial Session" 6th International Conference on Soil Mechanics, Montreal, September 8, 1965. Tributes by: R.F. Leggett, J. Lynch Staunton, R.G. Ballard, A.Casagrande, R.B. Peck, L. Bjerrum, H. Taylor, Ruth D, Terzaghi, A.W. Skempton
 "Terzaghi Library Memoirs" Norwegian Geotechnical Institute, Oslo (1971).
 "New Honors for Terzaghi" *Engineering News-Record* (23 September 1965).
 R.B. Peck, "ASCE Honorary Member Karl Terzaghi is Dead" [Letter to editor](March 1964).
 F.E. Schmidt, "Lessons in Soil Mechanics" *Engineering News-Record* (22 December 1960)
 "Moles Cite Terzaghi and Ferris" *Engineering News-Record* (1 February 1962).
 "Terzaghi and the Moles" *Engineering News-Record* (8 Febraury 1962).
- 1-7 Typescript of Reint de Boer, Robert L. Shiffman, Robert E. Gibson "An Incident in the History of Soil Mechanics" (November 7, 1994).
- 1-8 Herbert H. Einstein, "Observation, Quantification, and Judgement: Terzaghi and Engineering Geology" *ASCE Journal of Geotechnical Engineering* Vol. 117 No. 11 (November 1991).
 Ruth D. Terzaghi and Barry Voight, "Karl Terzaghi on Rockslides: The Perspective of a Half-Century" *Rockslides and Avalanches 2* (1979), pp. 111-133.
 Henry Petroski, "Soil Mechanics" *American Scientist* Vol. 84 (September-October 1996, pp. 428-432.
- 1-9 S.S. Tezcan and A.S. Yalcin (eds), *Proceedings of the Terzaghi Memorial Lectures*"
- 1-10 Karl Terzaghi Correspondence
 Copy of outgoing letter from KT to A. Casagrande (January 7, 1930)
 Copy of outgoing letter from KT to A.J. Ackerman (December 8, 1952)
 Copy of outgoing letter from KT to S. Merler (March 4, 1952)
 Copy of outgoing letter from KT to C.O. Swanson (October 17, 1952)
 Copy of outgoing letter from KT to C.F. Ripley (January 7, 1953)
 Copy of outgoing letter from KT to Charles F. Ripley (December 5, 1957)
 Copy of outgoing letter from KT to Andre Coyne (December 14, 1959)
 Copy of outgoing letter "In the event of my death" (October 2, 1961)
 Extract of letter from KT to E. Lazenby (April 21, 1962)

- 1-11 Correspondence re: Karl Terzaghi
Copy of outgoing letter from Ruth D. Terzaghi to Charles F. Ripley (January 6, 1947)
Copy of outgoing letter from Ruth D. Terzaghi to Dorothy Ripley (March 14, 1963)
Copy of outgoing letter from Arthur Casagrande to Ralph B. Peck (October 25, 1963)
Copy of outgoing letter from Charles F. Ripley to Herbert H. Einstein (January 2, 1992)
Copy of outgoing letter from Charles F. Ripley to Ruth Terzaghi (January 2, 1992)
- 1-12 Typescript of testimony by KT at hearing into the Whatshan Power Station landslide (December 1953)
- 1-13 "Observations concerning Deas Island Tunnel made During Trip with Dr. K. Terzaghi and Mr. N.D. Lea" – Notes by C.F. Ripley (195-)

Essays/Talks by KT

- 1-14 "Das hochwasser des Mississippi" (1912)
- 1-15 "Uber den grossen cumpel" (1912)
- 1-16 "L'ecole Imperiale d'Ingenieurs" (1917)
- 1-17 "Auch ein Kriegsschauplatz" (n.d.)
- 1-18 "Dynamit" (n.d.)
- 1-19 "Zurturkisch-asiatischen Bewässerungsfrage" (n.d.)
- 1-20 "Vagabunden" 2 pp. typescript (n.d.)
- 1-21 "Sonntogsgagedanken" 4 pp. typescript (n.d.)
- 1-22 "The Way to Happiness" (March 10, 1924)
- 1-23 "Engineering Education - Recollections and Outlook" (n.d.)

- 1-24 "Geology of the Bosphorus" - Lecture at Robert College Assembly (May 1924)
- 1-25 "Near East Recollections" - Lecture delivered to the Twentieth Century Club (October 22, 1925)
- 1-26 "Sarah Bernhardt" [German] (n.d.)
- 1-27 "Ein Tag in der Brüsseler Weltausstellung" (n.d.)
- 1-28 Classroom notes taken by Walter R. Ferris in Karl Terzaghi's Engineering 266 : Applied Soil Mechanics at Harvard University (1955)

Photographs

- 71.1/1 Karl Terzaghi at glacier terminus near Stewart, B.C. (August 7, 1956)
- 71.1/2 Group of people including Karl Terzaghi near Stewart, B.C. (August 6, 1956)
- 71.1/3 Group photo including Karl Terzaghi and C. Ripley near Stewart, B.C. (August 5, 1956)
- 71.1/4 Karl Terzaghi, guide and C.F. Ripley near Stewart, B.C. (August 7, 1956)
- 71.1/5 H. Ripley, C. Ripley and Karl Terzaghi in Prince Rupert, B.C. (August 8, 1956)
- 71.1/6 Group photo including Karl Terzaghi and C.F. Ripley (195-)
- 71.1/7 Karl Terzaghi traversing coarse talus slope at Rubble Creek near Daisy Lake (ca. 1958)
- 71.1/8 Karl Terzaghi and A. Ackerman at Terzaghi Dam near Lillooet, B.C. (n.d.)
- 71.1/9 Laser photocopy of photo of Karl Terzaghi and T. Middlebrooks at International Conference of Soil Mechanics and Foundation Engineers in Rotterdam (1948)
- 71.1/10 Laser photocopy of photo of Karl Terzaghi in group at International Conference of Soil Mechanics and Foundation Engineers in Rotterdam (1948)
- 71.1/11 Terzaghi Library at Norwegian Technical Institute (June 1968) [slides]

Audio Recording

AT 2663 R.B. Peck, "Tales of Terzaghi" Victoria, BC (October 16, 1997).

BOX 2

KARL TERZAGHI PUBLICATIONS SERIES

Information for the entries below is based on "Bibliography" by Margareth Grini and Guri Rollum in *From Theory to Practice* (ed.) L. Bjerrun, A. Casagrande, R.B. Peck and A.W. Skempton (1960). Publications are listed chronologically by years and the bracketed numbers are those assigned in the bibliography.

- 2-1 Copies of annotated bibliography of Terzaghi's works

- 2-2 1907
- (2) Geologie der Umgebung von Flamborg im Sausal. Naturwissenschaftlichen Vereines für Steiermark. *Mitteilungen*, pp. 131-146.

- 2-3 1908
- (3) Bau der ersten österreichischen Glanzstoff-Fabrik in St. Polten. *Beton and Eisen*, Vol. 7, No. 4, pp. 98-100.
- (4) Bestimmung des Druckes auf die Wand eines Silotrichters. Zuschriften an die chifftleitung. *Beton and Eisen*, Vol. 7, No. 8, 14, pp. 326-327, 350.
- (5) Silo der Gipswerke in Egeres, Siebenburgen. *Beton and Eisen*, Vol. 7, No. 3, pp. 57-59.

- 2-4 1911
- (6) Bemerkungen zur Tektonik der Umgebung von Buccari. Foldtani kozlony (*Ungarische geologische Gesellschaft. Zeitschrift, Geologische Mitteilungen*), Vol. 41, pp. 684-695.

- 2-5 1912
- (7) Der Dammbbruch am Mississippi. *Die Umschau*, Vol. 16, No. 35, pp. 735-738.

- 2-6 1914
- (10) Der Eisenbeton beim Bau der staatlichen Bewässerungsanlagen im westlichen Nordamerika. *Armierter Beton*, Vol. 7, pp. 377-386.

- (11) Der Eisenbeton beim Bau der Wasserleitung von Los Angeles. *Armierter Beton*, Vol. 7, pp. 255-261.
- 2-7 1915
- (12) Verwendung von Sandzement and die Bestimmung der Betonmischung auf Nordamerikanischen Baustellen. *Armierter Beton*, Vol. 8, pp. 11-15.
- 2-8 1917
- (14) Die Unzulänglichkeiten veröffentlichter Baubeschreibungen. *Osterreichischer Zngenieur- and ArchitektenVerein. Zeitschrift*, Vol. 69, No. 21, pp. 325-328.
- 2-9 1918
- (15) Das technische Unterrichtswesen in der Türkei. *Osterreichische Monatsschrift für den Orient*, Nos. 1-3, pp. 34-59.
- 2-10 1920
- (17) New facts about surface friction. *Physical Review*, Vol. 16, No. 1, pp. 54-61.
- (18) Old earth-pressure theories and new test results. *Engineering News-Record*, Vol. 85, No. 14, pp. 632-637. 1921.
- 2-11 1921
- (19) Foundation problems and laboratory research. *Engineering News-Record*, Vol. 87, No. 2, pp. 77-78.
- (20) Die physikalischen Grundlagen des technisch-geologischen Gutachtens. *Osterreichischer Ingenieur- and Architekten-Verein. Zeitschrift*, Vol. 73, No. 36/37, pp. 237-241.
- 2-12 1922
- (22) Der Grundbruch an Stauwerken and seine Verhütung. *Die Wasserkraft*, Vol. 17, No. 24, pp. 445-449. [Includes English translation : Piping in Dams and Its Prevention;]
- 2-13 1923
- (23) Die Berechnung der Durchlässigkeitsziffer des Tones aus dem Verlauf der hydrodynamischen Spannungserscheinungen. *Akademie der Wissenschaften in Wien. Sitzungsberichte. Mathematisch-naturwissenschaftliche Klasse. Part 11 a*, Vol. 132, No. 3/4, pp. 125-138. [English typescript translation only : Calculation of the Coefficient of Clay from the Course of the Observed Hydrodynamic Stress Phenomena]

- (24) Die Beziehungen zwischen Elastizität und Innendruck. *Akademie der Wissenschaften in Wien. Sitzungsberichte. Mathematisch-naturwissenschaftliche Klasse. Part II a, Vol. 132, No. 3/4, pp. 105-124.*
- (25) Discussion on: J. Feld, Lateral earth pressure; the accurate experimental determination of the lateral earth pressure, together with a resume of previous experiments. American Society of Civil Engineers. *Transactions*, Vol. 86, pp. 1525-1543.
- 2-14 1924
- (26) Die Theorie der hydrodynamischen Spannungerscheinungen and ihr erdbautechnisches Anwendungsgebiet. International Congress for Applied Mechanics, 1. Delft. *Proceedings*, pp. 288-294.
- (27) Versuche fiber die Viskositat des Wassers in sehr engen Durchgangsquerschnitten. *Zeitschrift fur angewandte Mathematik un.d Mechanck*, Vol. 4, pp. 107-113. *Physikalische Berichte*, Vol. 6, 1925, pp. 1353-1354.
- 2-15 1925
- (28) *Erdbaumechanik auf bodenphysikalischer Grundlage*. Vienna, Deuticke. 399 pp. [Title page and table of contents only].
- (29) Modern conceptions concerning foundation engineering. Boston Society of Civil Engineers. *Journal*, Vol. 12, No. 10, pp. 397-439. Boston Society of Civil Engineers.
Contributions to soil mechanics 1925-1940. Boston 1940, pp. 1-43. (Clemens Herschel Prize.)
- (30) Principles of soil mechanics. *Engineering News-Record*, Vol. 95, Nos. 19-23, 25-27, pp. 742-746, 796-800, 832-836, 874-878, 912-915, 987-990, 1026-1029, 1064-1068. Also published in book form : New York, McGraw-Hill, 1926. 98 pp.
- (31) Zur Charakteristik der Bausande. *Osterreichischer Ingenieur- and Architekten-Verein. Zeitschrift*, Vol. 77, No. 33/34, pp. 292-294.
- 2-16 1926
- (32) The mechanics of adsorption and of the swelling of gels. *In National Symposium on Colloid Chemistry, 4*. Cambridge, Mass. Colloid symposium monograph. New York, Chemical Catalog Co., Inc., pp. 58-78.
- (33) Paper on the methods and possibilities of road-soil investigations. Highway Research Board, Washington, D. C. *Proceedings*, Vol. 6, pp. 394-408. Massachusetts Institute of Technology, Cambridge, Mass. Publication, Vol. 63, No. 32, 1927.

- (34) Simplified soil tests for subgrades and their physical significance. *Public Roads*, Vol. 7, No. 8, pp. 153-162, 170.
Massachusetts Institute of Technology. Department of Civil and Sanitary Engineering. Serial 2.
- 2-17 1927
- (35) Concrete roads-a problem in foundation engineering. Boston Society of Civil Engineers. *Journal*, Vol. 14, No. 5, pp. 265-282.
Massachusetts Institute of Technology, Cambridge, Mass. *Publication*, Vol. 63, No. 7.
Boston Society of Civil Engineers. Contributions to soil mechanics 1925-1940. Boston 1940, pp. 45-62. (Fitzgerald Medal.)
- (36) Determination of consistency of soils by means of penetration tests. *Public Roads*, Vol. 7, No. 12, pp. 240-247.
Massachusetts Institute of Technology. Department of Civil and Sanitary Engineering. Serial, 7.
- (37) Dirt experts discuss subgrade problems. *Roads and Streets*, Vol. 67, pp. 384-388.
- (38) The first international soil congress and its message to the highway engineer. *Public Roads*, Vol. 8, No. 5, pp. 89-94.
- (39) Principles of final soil classification. *Public Roads*, Vol. 8, No. 3, pp. 41-53.
Massachusetts Institute of Technology. Department of Civil and Sanitary Engineering. Serial, 6.
- (40) The science of foundations-its present and future. American Society of Civil Engineers. *Proceedings*, Vol. 53, pp. 2263--2294, Vol. 55, 1929, pp. 83-97.
American Society of Civil Engineers. *Transactions*, Vol. 93, 1929, pp. 270-405. (Norman Medal).
- (41) Wellpoint method for handling excavation of foundation pit at new sewage pumping station, Lynn, Mass. Boston Society of Civil Engineers. *Journal*, Vol. 14, No. 7, pp. 389-397.
Boston Society of Civil Engineers. Contributions to soil mechanics 1925-1940. Boston 1940, pp. 63-71.
- 2-18 1928
- (42) Bearing capacity of soil; a restatement of the basis for rules as to bearing capacity of cohesionless and cohesive materials. *Engineering News-Record*, Vol. 100, No. 16, pp. 629-630.
- (43) Discussion on: J. Hinds, Upward pressures under dams; experiments by the United States Bureau of Reclamation. American Society of Civil Engineers. *Proceedings*, Vol. 54, No. 6, pp. 1953-1957.

- American Society of Civil Engineers. *Transactions*, Vol. 93, 1929, pp. 1559-1563.
- (45) Discussion on: A. C. Rose, Foundations and drainage of highways. American Society of Civil Engineers. *Proceedings*, Vol. 54, No. 6, pp. 1909-1912.
American Society of Civil Engineers. *Transactions*, Vol. 94, 1930, pp. 87-90.
- (46) Landslides in Central America. *The Technology Review*, Vol. 31, No. 1, pp. 12-16.
- (47) Present status of subgrade soil testing. By C. A. Hogentogler, and A. M. Wintermyer. *Public Roads*, Vol. 9, No. 1, pp. 1-8, 24.
Roads and Road Construction, Vol. 8, No. 95, 1930, pp. 398-403.
- (49) Soil classification for foundation purposes. International Soil Congress, 1. Washington, D. C. *Proceedings*.
- (50) Soil study, frost action and colloids. *Engineering News-Record*, Vol. 100, No. 18, p. 708.
- (51) Zuschrift zum Aufsatz: 0. Stern, Moderne Betongrundbautechnik. *Der Bauingenieur*, Vol. 9, No. 41, p. 745. 1929.
- 2-19 1929
- (52) Compressibility and elasticity of artesian aquifers. *Economic Geology*, Vol. 24, No. 2, pp. 211-213.
- (53) Effect of minor geologic details on the safety of dams. American Institute of Mining and Metallurgical Engineers. *Technical Publication*, 215, pp. 31-44.
- (54) *Ingenieurgeologie*. By K. A. Redlich, _____ and R. Kampe. Vienna, Springer. 708 pp.
- (55) Interrelationship of load, road and subgrade. By C. A. Hogentogler and _____. *Public Roads*, Vol. 10, pp. 3764.
- (56) The mechanics of, shear failures on clay slopes and the creep of retaining walls. *Public Roads*, Vol. 10, No. 10, pp. 177-192.
- (57) The origin of artesian pressure. *Economic Geology*, Vol. 24, No. 1, pp. 94-99.
- (58) Settlement of buildings due to progressive consolidation of individual strata. *Journal of Mathematics and Physics*, Vol. 8, No. 4, pp. 266-292.
Massachusetts Institute of Technology. Department of Civil and Sanitary Engineering. Serial, 17, 1930.
- (59) Soil studies for the Granville Dam at Westfield, Mass. New England Water Works Association. *Journal*, Vol. 43, No. 2, pp. 191-223.
- 2-20 1930
- (60) Earth pressure. (Report on Dr. Terzaghi's tests at M.I.T.) *Engineering*, Vol. 129, Nos. 3359, 3361, pp. 689-690, 753-754.

- (61) Festigkeitslehre plastischer Boden. *Centralblatt der Bauverwaltung*, Vol. 50, p. 739.
- (62) Load, road and subgrade. By C. A. Hogentogler and_____. *Good Roads*, Vol. 73, No. 8, pp. 298-299, 305-306.
- (63) Sickerverluste aus Kanalen. *Die Wasserwirtschaft*, Vol. 23, No. 18/19, pp. 318-330
Supporting power of pile foundations [translation], June 23, 1930.
- 2-21 1931
- (66) Earth slips and subsidences from underground erosion. *Engineering News-Record*, Vol. 107, No. 3, pp. 90-92.
- (67) Festigkeitseigenschaften der Schüttungen, Sedimente and Gele. In *Handbuch der physikalischen and technischen Mechanik*. By F.Auerbach and W. Hort. Leipzig, Barth. Vol. 4, Part 2, pp. 513-578.
- (68) The influence of elasticity and permeability on the swelling of two phase systems. *Colloid Chemistry*, Vol. 3, pp. 65-88.
- (69) Promotion von Prof. Ing. Dr. Philipp Forchheimer zum Ehrendoktor der technischen Wissenschaften. *Osterreichischer Ingenieur-and Architekten-Verein. Zeitschrift*, No. 1/2, pp. 3-5.
- (70) Settlement analysis-the backbone of foundation research. World Engineering Congress, Tokyo 1929. *Proceedings*, Vol. 8, pp. 1-23.
- (71) The static rigidity of plastic clays. *Journal of Rheology*, Vol. 2, No. 3, pp. 253-262.

BOX 3

- 3-1 1932
- (73) Bodenpressung and Bettungsziffer. *Osterreichische Bauzeitung*, No. 25, pp. 293-305. In *Festschrift zum 25-jährigen Bestand des Osterreichischen Betonvereines*. 12 pp.
- (74) (Forchheimer, Philipp) Zum 80. Geburtstage. *Forschungen and Fortschritte*, Vol. 8, No. 22, p. 288.
- (75) Probleme der Staudammfundierung. *Forschungen and Fortschritte*, Vol. 8, p. 322.
- (76) Record earth-pressure testing machine. *Engineering News-Record*, Vol. 109, No. 13, pp. 365-369.
- (77) Soil-loading test practice in Europe. *Engineering News-Record*, Vol. 109, No. 6, pp. 158-159.

- (78) Tragfähigkeit der Flachgrundungen. International Association for Bridge and Structural Engineering. Congress, 1. Paris. Preliminary publication, pp. 659-683, final publication, 1933, pp. 596-605.
- 3-2 1933
- (79) Auftrieb and Kapillardruck an betonierten Talsperren. *Die Wasserwirtschaft*, Vol. 26, pp. 397-399. International Congress on Large Dams, 1. Stockholm. *Proceedings*, Vol. 5, pp. 5-16.
- (80) Discussion on: Progress Report of Special Committee. Earths and foundations. American Society of Civil Engineers. *Proceedings*, Vol. 59, No. 8, pp. 1363-1372.
- (82) Die Oedometer-Beobachtung als Hilfsmittel zur Erforschung der Gelstruktur. *Kolloid-Zeitschrift*, Vol. 65, No. 2, pp. 129-148.
- (83) Die Priifung von Baumaterialen für gewalzte Erddämme. *Die Wasserwirtschaft*, Vol. 26, pp. 408-412, 438-433. International Congress on Large Dams, 1. Stockholm. *Proceedings*, Vol. 3, pp. 69-103.
- (84) Untersuchung der Eigenschaften von Boden hinsichtlich ihrer Eignung zur Herstellung von Erddämmen. International Congress on Large Dams, 1. Stockholm. *Proceedings*, Vol. 3, pp. 309-332.
- (85) Verbessertes Verfahren zur Setzungsbeobachtung. *Die Bautechnik*, Vol. 11, No. 41, pp. 579-582.
- (86) Verfahren zur Messung der Bewegungen betonierter Talsperren. *Die Wasserwirtschaft*, Vol. 26, p. 437. International Congress on Large Dams, 1. Stockholm. *Proceedings*, Vol. 2, pp. 311-319.
- 3-3 1934
- (87) Beanspruchung von Gewichtstau mauern durch das stromende Sickerwasser. *Die Bautechnik*, Vol. 12, No. 29, pp. 379-382.
- (88) Bestimmung der maximalen Flächenporosität des Betons. *Der Bauingenieur*, Vol. 15, p. 413.
- (89) Bodenuntersuchungen für Strassenbau zwecke. *Der Bauingenieur*, Vol. 15, No. 15/16, pp. 143-147.
- (90) Discussion on: H. de B. Parsons, Some soil pressure tests. American Society of Civil Engineers. *Proceedings*, Vol. 60, pp. 552-556. American Society of Civil Engineers. *Transactions*, Vol. 100, 1935, pp. 35-39.
- (91) Large retaining-wall tests. I-V. *Engineering News-Record*, Vol. 112, No. 5, 8, 10, 13, 16, 23, pp. 136-140, 259-262, 316-318, 403-406, 503-508, 747.

- (92) Retaining-wall design for Fifteen-Mile . Falls Dam. *Engineering News-Record*, Vol. 112, No. 20, pp. 632-636.
- (93) Side pressure on retaining walls. *Engineering News-Record*, Vol. 113, No. 2, p. 55.
- (94) Der Spannungszustand im Porenwasser trocknender Betonkörper. *Der Bauingenieur*, Vol. 15, No. 29/30, pp. 303-306.
- (95) Die Ursachen der Schiefstellung des Turmes von Pisa. *Der Bauingenieur*, Vol. 15, Nos. 1/2, 7/8, 11/12, pp. 1-4, 78, 112-113. [and typescript of English translation]
- (96) Verbesserte Schlauchwaage zur Setzungsbeobachtung. By and K. Langer. *Die Bautechnik*, Vol. 12, No. 23, pp. 291-292.
- (97) Die wirksame Flächenporosität des Betons. By _____ and L. Rendulie. *Osterreichischer Ingenieur- and Architekten-Verein. Zeitschrift*, Vol. 86, Nos. 1/2, 5-8, pp. 1-9, 30-32, 44-45.
- (98) Zur statischen Berechnung der Gewichtstau mauern. *Die Bautechnik*, Vol. 12, No. 45, pp. 589-592, Vol. 13, No. 4, 1935, p. 56.
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BOX 5

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BOX 8

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