FLUID MECHANICS
RESEARCH REPORTS, BULLETINS, PAPERS, AND THESSES

1948 THROUGH 1959

ENGINEERING RESEARCH
COLORADO STATE UNIVERSITY
FORT COLLINS, COLORADO

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CER59ARC52
Research reports, papers, bulletins, circulars, and student theses are one measure of the productiveness of a University research team. Following are lists of the works of the Engineering Research Staff and students in fluid mechanics and related areas since 1948, including U. S. Government cooperators stationed in the University facilities. These are presented in the following order: (A) Reports for Sponsored Projects; (B) Papers, published or presented; (C) Bulletins and Circulars; and (D) Theses, Master's Reports and Dissertations.

Theses and Dissertations are available on inter-library loan by communication addressed to Director of Libraries, Colorado State University. Other references are usually available, either free or for a nominal charge. Loan copies of items other than Theses and Dissertations are available in nearly every case by writing to the Chief, Engineering Research, Colorado State University.

A. Reports for Sponsored Projects


34. Model Tests to Predict the Seaworthiness of Seaplane Hulls, by E. F. Schulz, prepared for the Bureau of Aeronautics, Navy Department, Contract No. NOas 54-908-c, January 1957, CER57EFS1.


47. Requirements for Production of a Replica Sea in a Model Basin, by R. E. Glover, prepared for the David Taylor Model Basin under Contract No. NOnr 1610(02), Technical Report No. 6, October 1957. CER57REG25.


70. Deceleration During Impact of Seaplane Hulls on a Water Surface, prepared for the Department of the Navy, Bureau of Aeronautics under Contract NOas 55-394-c, by A. R. Chamberlain, and Bernard d'Utrry. CER58ARC40.


72. Method of Creating a Complex Seaway in a Model Basin, prepared for David Taylor Model Basin, Department of Navy, under Contract N0r 1610(02), by R. E. Glover. CER58REG43.


85. Status Report on Colorado Cooperative Project in Climatology, prepared by R. A. Schleusener, Civil Engineering Section, Colorado Agricultural Experiment Station in Cooperation with the United States Weather Bureau and the United States Department of Agriculture, Soil Conservation Service. CER59RAS30.
86. Hydraulic Model Study of Spur Dikes for Highway Bridge Openings, prepared under the joint sponsorship of the State Highway Departments of Mississippi and Alabama in cooperation with the Hydraulics Research Division of United States Bureau of Public Roads, by Susumu Karaki, 1959. CER59SSK36.


B.  Papers, Published or Presented


18. Discussion by P. N. Lin of Rigorous, Simple Method of Measuring and Recording Particle Size Distribution in Dispersed Material, by M. Rim, Transactions, American Geophysical Union, Volume 33, pp 423-426, October 1952.


20. On Tides in Estuaries and Around Small Islands, by C. S. Yih, Transactions, American Geophysical Union, Volume 34, No. 3, June 1953.


23. Discussion by P. N. Lin of Numerical Analysis of Continuous Unsteady Flow in Open Channels, Transactions, American Geophysical Union, Volume 34, No. 6, October 1953.


35. Design of Stable Channels, by E. W. Lane, Transactions, American Society of Civil Engineers, Volume 120, 1955.


40. Wells and Pumps for Irrigated Lands, by Carl Rohwer, in U.S. Department of Agriculture Yearbook for 1955 (titled Water.)


43. Discussion by E. W. Lane of Graphic Design of Alluvial Channels, by Ning Chien, Transactions, American Society of Civil Engineers, Volume 121, 1956.

44. The Importance of Fluvial Morphology in Hydraulic Engineering, by E. W. Lane, Proceedings, American Society of Civil Engineers, Separate No. 745, July 1955.

45. Discussion by E. W. Lane of A Concept of Lacey's Regime Theory, by Ning Chien, Proceedings, American Society of Civil Engineers, Separate No. 808, September 1955.

46. Flow into a Well by Electric and Membrane Analogy, by Chong-Hung Zee, D. F. Peterson, Jr., and R. O. Bock, Proceedings, American Society of Civil Engineers, Separate No. 817, October 1955.

47. Discussion by Carl Rohwer of Flow into a Well by Electric and Membrane Analogy, by C. H. Zee, D. F. Peterson, Jr., and R. O. Bock, Proceedings, American Society of Civil Engineers, Separate No. 817, October 1955.


49. Discussion by D. F. Peterson, Jr., of Effect of Well Screens on Flow into Wells, by J. S. Petersen, Carl Rohwer, and M. L. Albertson, Transactions, American Society of Civil Engineers, Volume 120, 1955.


52. A Summary of Hydraulics Related to Wells, by D. F. Peterson, Jr., paper presented to American Society of Agricultural Engineers, Rocky Mountain Section, Las Cruces, New Mexico, March 1956.


64. Transport of Sediment in Helical Corrugated Pipes, by A. R. Chamberlain, R. J. Garde, and M. L. Albertson, paper presented to American Society of Civil Engineers, Jackson, Mississippi, February 1957.


72. Research Reports, Published Papers, Bulletins and Theses - 1948 to October 1957, by A. R. Chamberlain, October 1957. CER57ARC21.


87. Evaporativity and Evaporation from Soils in Contact with a Water Table, prepared by R. A. Schleusener, and presented at American Meteorological Society Conference on Practical Problems of Meteorology, September 22-24, 1958. CER58RAS27.


100. The Characteristics of Alluvial Channels, by D. B. Simons, prepared for Technical Training School Quality of Water Branch, Austin, Texas. CER59DBS40.


120. Self-Sustaining Station for the Moon, by Rudolph Szilard (A.S.C.E. Civil Engineering, October, 1959,) CER59RSz43.


125. Wind Induced Oscillations in a Stock Water Tank, by A. R. Chamberlain, submitted for publication to American Meteorological Society. 1959. CER59ARC55.


C. Bulletins and Circulars

1. Reclamation of Saline-Alkali Soils by Leaching, Delta Area, Utah, by R. C. Reeve, L. E. Allison, and D. F. Peterson, Jr., Bulletin 335, Utah Agriculture Experiment Station in Cooperation with the U. S. Regional Salinity Laboratory, December, 1948.


20. Snow Report Bulletins, published on 10th of each month following the regular snow report dates of February 1, and March 1, prepared by Homer Stockwell.


26. Filters and Screens for Irrigation Wells, United States Department of Agriculture Leaflet No. 446, prepared by A. R. Robinson, April 1959.


D. Theses, Master's Reports and Dissertations


15. Effects of Pier Shape on Backwater Total Head Loss, and Water-Surface Profile, by D. Q. Matejka, July, 1950, Master's Thesis.


42. La mécanique de l'evaporation by M. L. Albertson, Thèse, presented to the Faculté de Sciences de l'Université de Grenoble, France, 1954.


47. Seepage Flow from a Canal to a Shallow Water Table by Electrical Analogue, by P. V. Djanjigian, June 1955, Master's Thesis.


60. Stabilization of Thompson Lake Outlet Channel, by Theodore T. Williams, December, 1956, Master's Thesis.


68. Role of Forecasting in Flood Control, by Kersi Davar, August, 1957, Master's Report.


71. Effect of Wind Velocity and Depth of Water Table on Evaporation From Fine Sand, by Robert W. Staley, October, 1957, Master's Thesis.
72. Turbulent Boundary Layer over Heated and Unheated Plane, Rough Surfaces, Ph.D. Dissertation by Benoyendra Chanda, May, 1958, CER58BC21


75. Factors Affecting Evaporation from Soils in Contact With A Water Table, Ph.D. Dissertation by R. A. Schleusener, Colorado State University, June 1958.


78. The Turbulent Boundary Layer at Low Reynolds Number with Unstable Density Stratification Produced by Heating, Ph. D. Dissertation Graduate School by J. E. Cermak, Cornell University, March 1959. Project 778.


