

PERSONAL RECORD
OF
LEONARD B. DWORSKY

PRESENT POSITION: Professor, Civil and Environmental Engineering
Cornell University, Ithaca, New York.

DATE OF BIRTH: January 5, 1915.

PLACE OF BIRTH: Chicago, Illinois.

FAMILY: Married; five children (3 sons, 2 daughters).

EDUCATION:

1. Grade and High School: Chicago, Illinois.
2. Armour Institute of Technology; Chicago, Illinois; 1932-1934.
University of Michigan; Ann Arbor, Michigan; 1934-1936;
B.S. in Civil Engineering received in 1936.
3. American University; Washington, D.C.; 1948-1953 (evening classes).
Approximately 50 hours of graduate study in political science and
public administration. M.A. in Public Administration received in 1955.
4. University of Michigan; Ann Arbor, Michigan; 1955-1956.
Completed all work toward Ph.D. in Water Resource Conservation - A joint
program between the College of Engineering and the School of Natural
Resources, with exception of dissertation. This program was undertaken
as a training assignment approved by the U.S. Public Health Service
Committee on Training Outside the Public Health Service and the Surgeon
General. Such assignments are granted to a small number of officers annually.
5. Miscellaneous and Other Short-Term Training:
 - a. Navy School for Military Government for the Far East; Princeton
University, 1944.
 - b. Effects of Atomic Weapons; Walter Reed Medical Center, Washington, D.C.,
1949.
 - c. Operation of Nuclear Reactors and Waste Production; Taft Sanitary
Engineering Center, U.S. Public Health Service, Cincinnati, Ohio
and Oak Ridge, Tennessee, 1957.
 - d. National Resources Conference; sponsored by Army War College, Fort
Worth, Texas, 1958.

EXPERIENCE

Summers of 1934-35: Engineering Aide, S.A. Healy Construction Co., Chicago, Illinois (cost accounting, material records, damage and settlement surveys and remedial work on tunnel construction).

October 1936-March 1940: District Engineer in Northwestern and Central-West Illinois for Division of Sanitary Engineering, Illinois Department of Public Health. Work concentration was on municipal, industrial and rural water supply activity; stream pollution; training of municipal utility operators; and municipal, county and township water and related environmental controls.

March 1940-May 1941: Chief Engineer, Cook County, Illinois Department of Public Health. Municipal and industrial water supply activities involving 77 municipalities in Cook County, nearly 3/4 million people and an extensive industrial complex; ground and surface water studies; platting, zoning, mapping and subdivision controls in conjunction with the Cook County Regional Planning Association and Cook County zoning authorities; joint recreational programs with the Cook County Forest Preserve District; and coordination and collaborative efforts with the metropolitan communities and their officials and citizen leaders on programs of water supply, pollution control, land development and environmental controls.

May 1941-March 1946: Entered military service as First Lt. Sanitary Corps (having been a member of Officer Reserve Corps since 1939). Served in camps in Mississippi and Missouri from May 1941 to September 1942. Between September 1942 and November 1944 was assigned to Trinidad Sector and Base Command Headquarters, Port of Spain, Trinidad, B.W.I., as Sector Sanitary Engineer and later as Sanitary Engineer and Malaria Control Officer for the Antilles Department Headquarters, San Juan, Puerto Rico. The Department covered some 20 major posts, camps or stations in 8 countries in the American Theater of Operations, extending from Florida to Brazil, S.A., excluding Central America and the Canal Zone. Major work program was as a Staff Officer responsible for personnel, training, program planning, supplies and supervision of technical activities. From November 1944 to January 1945, I attended the Naval School of Military Government for the Far East at Princeton University. Upon completion of course was assigned to the S-3 Section (Plans and Training) of the Civil Affairs Staging Area, Monterey, California, concluding that assignment as Executive Officer. This assignment extended from January 1945 to December 1945. With the war concluded, returned to civilian life in March 1946, with Lt. Colonel rank. Military occupation specialty numbers (M.O.S.) included both Sanitary Engineer and Plans and Training Staff Officer specialties.

March 1946-October 1946: Assigned to the United States Public Health Service's comprehensive Health Survey of Chicago and Cook County. Responsibilities included study and report on a metropolitan water supply system for Chicago, Cook County and a tri-county area around Chicago; Cook County water supply, waste disposal and solid refuse study and reports; basic studies for organization and administration of a decentralized City-County health and engineering plan and studies of personnel and other administrative aspects. The Survey was published by the Columbia University Press about 1947.

EXPERIENCE (Continued)

1956-1958 - Executive Secretary, Missouri Basin Inter-Agency Committee (forerunner to present Missouri River Basin Commission), and Chief, Regional Water Supply and Pollution Control Program of Public Health Service.

1958-1962 - Member and Chairman, Columbia Basin Inter-Agency Committee, and Chief, Regional Water Supply and Pollution Control Program, Pacific Northwest Region (including Alaska), of the Public Health Service.

1962-1964 - Assistant to the Chief, Division of Water Supply and Pollution Control, HEW, U.S. Public Health Service, Washington, D.C. and represented Chief on Federal Interagency Committee on Water Resources.

1964-1974 - Professor of Civil and Environmental Engineering, Cornell University, Ithaca, New York and Director, Cornell Water Resources and Marine Sciences Center.

1967-1968 - Senior Staff Assistant (Water Resources) to the President's Science Adviser and Director, the Office of Science and Technology, Executive Office of the President, Washington, D.C.

1974-Present - Professor of Civil and Environmental Engineering, Cornell University, Ithaca, New York.

EXPERIENCE (Continued)

In 1946: Completed the examination for commissioned officer in the Regular Corps of the United States Public Health Service, with a national standing of No. 2. Entered on duty with the Public Health Service in October 1946, with the rank of Senior Assistant Sanitary Engineer (equivalent to Army Captain). In 1953, was promoted to Sanitary Engineer Director (equivalent to Army Colonel) in which grade I retired after 22 years of service.

a. First Public Health Service assignment was to headquarters, Division of Sanitary Engineering, Washington, D.C., in charge of water and sewage functions on Chief Engineer and Assistant Surgeon General J.K. Hoskin's staff. Was also engineering liaison officer to the Public Health Service's international health activities office. During this assignment, was also responsible for the review of multi-purpose water resource development legislation and reports having impact on water supply, water pollution and stream regulation interests of the Public Health Service.

b. During 1947, was assigned to work with Sanitary Engineer Director Carl Schwob, who became first Chief of the Federal Water Pollution Control Program. Worked with the Congress on pending water pollution control legislation, preparing our Agency's statements to Congressional committees on pending pollution control bills. In addition, assisted in developing the initial organization and work plan upon which the new Federal Water Pollution Control Program was based, following passage of Public Law 845 in 1948, and in establishing the basic goals for the new Division of Water Pollution Control. These were as follows: First, to place into effect the multiple programs authorized by the Congress; second, to help revitalize municipal and industrial water programs which had been lagging as a result of delays due to World War II; and third, to develop a new place for these water resource functions within the framework of multi-purpose water resource development programs.

c. During the period 1948-55, was principal assistant to the Chief, Division of Water Pollution Control for Program Planning, budget formulation and justification; program review and appraisal; and Congressional relations. Additional specific assignments during this period were:

1948-50: Assistant Chief, Field Operations Branch (No Branch Chief was appointed during this period).

1950-52: Chief, Reports Branch.

1952-55: Chief, Education Branch.

Responsibilities during this period were as follows:

- (1) Formulating, designing and supervising through completion the Division's first efforts at comprehensive planning for pollution control, consistent with funds, timing requirements and the then existing federal-state relationships. This action resulted in the

EXPERIENCE (Continued)

production of fifteen major basin summary reports covering the nation's 226 sub-basins and concluding in the preparation of Water Pollution in the United States, Public Health Service Publication No. 64, 1951, establishing for the first time definitive data on the pollution problem, needs and requirements to meet the needs.

- (2) Making the initial studies on which the grant-in-aid program to states and interstate agencies was based; administering this program for its first two years.
- (3) Formulating and establishing a national program for reporting progress in pollution control, including information on bond issues and contract awards by municipalities and states.
- (4) Formulating and organizing the initial studies identifying interstate pollution problems across the nation and establishing procedures to deal with them.
- (5) Organizing and establishing the educational programs of the Division. For three years was directly responsible for all public information and education activities. Served as principal liaison officer to national civic, fraternal and service organizations, women's organizations, and conservation groups for the purpose of establishing national and regional educational programs and developing understanding and support for state and federal pollution control efforts.
- (6) Directly and indirectly participating in formulating agency, department and Division policy and carrying out staff studies in connection with the Hoover Commissions, the Cooke Commission (the President's Water Resource Policy Commission) and other national and state water resources policy reviews. Was a member of the Bureau of the Budget Review Committee on the President's Water Resource Policy Commission Report (Cooke Commission), representing the then Federal Security Agency on the Planning and Planning Procedures Subcommittee, and the Water Supply, Pollution Control and Recreation Subcommittee, and participated in the main Committee's deliberations on developing federal agency-wide agreements on the Cooke Commission's recommendations. Was instrumental in having the Paley Commission (President's Materials Policy Commission) include Industrial Water Supplies as a part of their materials policy study; and in having the Bureau of the Census Industry Division develop their first surveys of water use in industry, and was a member of the principal advisory committee to the Bureau of the Census on the formulation of this study program.
- (7) In connection with responsibility for reviewing proposed legislation, committee studies and reports, interagency agreements, and the water resource development programs of the federal construction agencies, worked toward stimulating and encouraging interest in including municipal and industrial water supply and low flow regulation as important

EXPERIENCE (Continued)

functions of federal water resource development programs. At the same time, worked toward encouraging greater state and local participation in planning for these and other functions of water resource development.

- (8) Represented the Public Health Service on the subcommittee on hydrologic data of the Federal Inter-Agency River Basin Committee, and initiated the Public Health Service's membership on the Committee's Subcommittee on Economic Evaluation. Maintained close contact and coordination with our field staff, participating in inter-agency and interstate arrangements in connection with the Columbia, Missouri, and Arkansas-White-Red Inter-Agency Committees and the Northeastern Resources Committee.
- (9) From 1948 to 1954, there were two legislative presentations by the Division of Water Pollution Control to the Congress (House Committee on Public Works). Developed and presented a major part of the testimony for the first, and presented the second myself. During this period, travelled extensively with members and staff of the House Committee on Public Works. For the entire year of 1954, was assigned to a detailed program review and the development of water pollution control legislative proposals for Public Health Service's Chief Engineer Mark D. Hollis and Secretary Hobby of the Department of Health, Education and Welfare, for presentation to the Congress in January 1955. These proposals resulted in the revised Water Pollution Control Act of 1956 (PL 660) following impressive testimony by Hollis, Hobby and others.

d. During 1955, at my request, was assigned to a university for graduate study (described under the heading of "Education" above). Apart from formal courses in engineering, meteorology, resource economics, and land and water management, concentrated on two research projects: one involved the detailed assessment of municipal water supplies for some 170 urbanized areas of the United States with specific reference to intergovernmental relations; the other was a detailed study of state water resource organization and administration.

e. In September 1956, was assigned to the Kansas City Regional Office of the Department, with dual responsibilities: (1) Director of the Regional Water Supply and Pollution Control Program. Work programs included the initiation of a water quality monitoring program for 600 miles of the Missouri River, initiation of the Federal sewage works construction grants program for this six-state region, and extensive work in connection with enforcement actions on the Missouri River. (Together with Regional Engineer Glen Hopkins we initiated the first interstate enforcement cases for pollution control under the 1956 Act for the Kansas City Metropolitan Area, St. Joseph, Missouri, Omaha, Nebraska, and St. Louis Missouri.) (2) Missouri Basin Inter-Agency Committee activities. In 1956 I became a member of the Executive Subcommittee of the MBIAS, and in 1957 I became Executive Secretary of MBIAC and Chairman of its Executive Subcommittees.

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EXPERIENCE (Continued)

f. In 1958 was reassigned to the Pacific Northwest Office of the Public Health Service, with dual responsibilities: Director, Water Supply and Pollution Control Program, Pacific Northwest, and Chairman, Columbia Basin Inter-Agency Committee (CBIAC). Efforts were primarily aimed at (1) strengthening the Columbia Basin Inter-Agency Committee; (2) developing an effective comprehensive planning program for the Pacific Northwest; and (3) supporting a program to develop more effective research in northwest universities on regional problems.

The Columbia Basin Inter-Agency Committee (the forerunner of the Pacific Northwest River Basin Commission) was comprised of the Governors of the seven states in the Columbia Basin, usually represented by the chief state water resource official, and of the regional heads of the seven Federal Departments concerned with water and related land resource development. The principal functions of the Committee were fact finding, serving as a public forum, inter-agency and interstate coordination, and coordination of basin-wide comprehensive planning.

The annual budget of CBIAC was in excess of 1/4 million dollars, largely in personnel and other services contributed by its member agencies. The main strength of CBIAC rested in the technical subcommittees comprising over one hundred of the leading staff members of the states, federal agencies and public leaders in the Northwest.

Major accomplishments during the four years were: a critical review of organization and function which provided national leadership to a reappraisal of inter-agency committee purposes and goals, and which was instrumental in the passage of the Water Resources Planning Act of 1965; an integrated basin-wide hydrologic network; strengthened power planning coordination; formulation and strong support of an effective fishery research program; improvements in water management subcommittee responsible for managing Columbia River flows; inventory of regional recreational opportunities and potential for future development, and revitalization of subcommittee activity by better definition of goals and programs related thereto.

Was a member and chairman of the CBIAC; a continuing member of its Executive Subcommittee; continuing chairman of its Subcommittees on Comprehensive Planning, and Water Supply and Water Pollution Control; and a member of its Recreation Subcommittee. The Executive Secretary of CBIAC was a member of my staff and under my direction.

The major activity of the Water Supply and Pollution Control Program, Pacific Northwest (including Alaska) was the development of a comprehensive water supply and pollution control plan for the Columbia River Basin. The staff was multidisciplinary, consisting of a variety of engineering talent, economists, oceanographers, foresters, aquatic biologists, and resource planners. Enforcement activities under the Federal Water Pollution Control Act on the Columbia River and Puget Sound and associated waters represented an important additional program. The use of northwest university resources on a contractual and consultant basis provided added strength to this program.

EXPERIENCE (Continued)

A major part of the Pacific Northwest program was the stimulation of construction of research facilities and the development of research projects in northwest universities. This was accomplished through research oriented symposia, analyses of regional research needs, and the wide distribution of research proposals.

Coordination of state and federal pollution control programs required acting in the following capacities: (1) Secretary, Pacific Northwest Pollution Control Council (comprising representation of the States of Washington, Oregon, Idaho, Montana, Alaska, the Federal Government, the Province of British Columbia, and the Canadian National Government); (2) Coordinator, Columbia River Advisory Group (comprising representatives of the States of Washington, Oregon, and the Federal Government) to the Manager, Atomic Energy Commission on the effect of Hanford Atomic Works operations on the Columbia River; and (3) Secretary, Columbia River Technical Coordinating Committee (comprising representatives of the States of Washington, Oregon, and the Federal Government) responsible for continuous supervision of pollution control programs required by Federal enforcement action on the Lower Columbia River.

g. In June 1962 was again assigned to Headquarters, Washington, D.C. as Assistant to the Chief, Division of Water Supply and Pollution Control, Public Health Service with added responsibility to represent the Chief on matters involving the Inter-Agency Committee on Water Resources (comprising the Corps of Engineers, Departments of Interior, Agriculture, Health, Education, and Welfare, Commerce, Labor and the Federal Power Commission). Responsibilities included assisting the Chief on matters involving top policy, program development and support, interstate and inter-agency relations and external coordination.

h. In May 1964 retired from the Public Health Service and accepted a position at Cornell University, Ithaca, New York as tenured Professor of Civil Engineering and Director of Cornell's Water Resources Center. During the next ten years (until 1974) taught courses in water policy and directed/coordinated the water research program of the University. Following the limit of ten years in administrative positions at Cornell University, returned full time to teaching water policy and environmental management in the College of Engineering, Department of Environmental Engineering. During Academic Year 1980-81 teaching activity will be reduced to one-half time in preparation for retirement from Cornell University.

i. From September 1967 to September 1968 was on leave of absence from Cornell to act as Senior Staff Advisor on Water Resources to President Johnson's Science Adviser and Director, Office of Science and Technology in the Executive Office of the President, Washington, D.C. During this period was Chairman of the Federal Committee on Water Resources Research of the Federal Council for Science and Technology.

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PROFESSIONAL ACTIVITIES

- Registered Professional Engineer, Illinois
 Diplomat, American Academy of Environmental Engineering
 Member, American Society of Civil Engineers
 Member, American Geophysical Union
 Member, American Association for the Advancement of Science
 Past President, Federal Water Pollution Control Association
 Past Director, Water Pollution Control Federation
 Past District Director, Middle Atlantic District, American
 Water Resources Association
 Member, Pi Sigma Alpha, National Political Science Honorary Society
 Member, Chi Epsilon, National Honorary Civil Engineering Fraternity
- 1949 Leonard B. Dworsky, Staff Director of Panel "A National Program of Environmental Sanitation," pages 350-375. See, America's Health - A Report to the Nation, by the National Health Assembly established by Oscar R. Ewing, Administrator, U.S. Federal Security Agency; Harper's Brothers Publishers, New York, N.Y.
- 1958-1962 Federal Advisor to Columbia River Basin Compact Commission (Water Pollution Control).
- 1959-1962 Member and Chairman, American Geophysical Union Committee on Hydrologic Research, Pacific Northwest.
- 1960 Co-Chairman, First Joint Meeting of the Columbia, Missouri, Pacific Southwest, and Arkansas-White-Red Basins Interagency Committees and the Northeast Resources Committee, University of Colorado, August 19, 1960 (with the Federal Interagency Committee on Water Resources Assistant Secretary F.C. Aandahl, U.S. Department of the Interior and Deputy Director Elmer Staats, Bureau of the Budget).
- 1962 Secretary of Interior Appointee to Bonneville Power Administration Advisory Committee on Economic Base Studies, Pacific Northwest.
- 1962-1964 Federal Observer to University Council on Hydrology.
- 1964-1965 Member, Committee on Status and Needs in Hydrology (Chairman William C. Ackermann); See Transactions of the American Geophysical Union, Vol. 46, No. 4, December 1965.
- 1964-1980 Universities Council on Water Resources; Member of charter group initiating Council on Water Resources; Member Governing Board, 1967; Chairman, Committee on Water Quality, 1970-76; Currently Chairman, Water Policy Committee.
- 1965 The Northeast Research and Training Conference on the Supply and Demand for Water; Chairman, Conference Committee.

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PROFESSIONAL ACTIVITIES (Continued)

- 1965 Member, White House Conference on Natural Beauty, Panel on "Water and Waterfronts." See Proceedings of The White House Conference on Natural Beauty, Washington, D.C., May 1965, pp. 143-148.
- 1965 Chairman, Committee on Water Resources; Conference on the Application of Engineering Technology to the Problems of Appalachia; The West Virginia University College of Engineering and The Engineering Foundation.
- 1965-1967 Past Member, Committee on Water Resources Planning, American Society of Civil Engineers.
- 1966 National Youth Conference on Natural Beauty and Conservation; Chairman, Panel on Water and Waterfronts, Washington, D.C., June 26-29, 1966.
- 1966 General Chairman, American Society of Civil Engineers, Hydraulics Division Specialty Conference on Water Quality Planning.
- 1967-1968 National Council on Marine Resources and Engineering Development; Alternate Member for Dr. Donald Hornig, Office of Science and Technology, Executive Office of the President.
- 1968 Member, American Society of Civil Engineers, Power Division Research Committee, and Chairman, Water Quality Control Panel of "Specialty Conference on Research Needs in the Civil Engineering Aspects of Power." See American Society of Civil Engineers Proceedings, Journal of the Power Division, Research Needs in Civil Engineering Aspects of Power, Vol. 96, No. P02, February 1970.
- 1968 Member, Engineering Foundation Research Conference on "Water and Metropolitan Man" co-sponsored by the Urban Hydrology Research Conference of the Hydraulics Division, American Society of Civil Engineers. See Report on the Second Conference on Urban Water Resources Research, ASCE, 1969.
- 1968 Member, Agenda Committee to Formulate a "Metropolitan Water Resources Research Program," Office of Water Resources Research, U.S. Department of the Interior. See Memorandum, June 28, 1968, Office of Water Resources Research, Washington, D.C.
- 1969 Co-Chairman, Engineering Foundation Research Conference on National Goals in Water Pollution Control (with Frank A. Butrica, Battelle Memorial Institute), University of California, Santa Barbara, California, August 17-22, 1969.
- 1969-1972 Past Member, National Water Policy Committee, American Society of Civil Engineers.

PROFESSIONAL ACTIVITIES (Continued)

- 1969-1972 Member, President's Science Advisory Committee Panel on the Environment.
- 1969 Established and Organized Panel of Consultants while Senior Staff Assistant to President's Science Adviser in Office of Science and Technology, Executive Office of the President, to Review Activities of Federal Committee on Water Resources Research of the Federal Council for Science and Technology; See Report of Panel of Consultants, OST, September 1969.
- 1970 Member, Task Force on Research Planning in Environmental Health Sciences; Subcommittees on (1) Food and Water Toxicology; (2) Technological Trends; (3) Social and Behavioral Sciences; see report Man's Health and the Environment - Some Research Needs, U.S. Department of Health, Education and Welfare, Public Health Service, National Institute of Environmental Health Science, March 10, 1970.
- 1970-1974 Member, New York State Sea Grant Cabinet.
- 1971 Chairman, American Society of Civil Engineers, Power Division Research Committee; 1971-73.
- 1971 Member, American Society of Civil Engineers Research Conference sponsored by ASCE Committee on Research and Chairman, Panel on Water Resources Engineering. See Goals of Civil Engineering Research - Its Responsiveness to the Needs, Desires and Aspirations of Man, pp. 22-31.
- 1971-1977 Co-Chairman, with Professor George Francis, University of Waterloo, Ontario, of "Canada-United States University Seminar on Institutional Arrangements for the Integrated Management of the Water and Land Resources of the Great Lakes" (20 participating universities in the U.S. and Canada).
- 1971 Member, National Academy of Sciences - National Academy of Engineering Study Committee on Jamaica Bay and Kennedy Airport; see report by same name; Leonard B. Dworsky, Chairman, Water Management Task Group; January 1971.
- 1972-1975 Vice President, Hudson River Environmental Society.
- 1972-1977 Member, Research Advisory Board, International Joint Commission (Great Lakes Water Quality Agreement).
- 1972 Member, National Board of Consultants on National Water Research Opportunities; A Report to the Office of Water Resources Research, U.S. Department of the Interior, and Chairman, Panel on Water Quality Research; published by Water Resources Research Institute, University of Nebraska, June 1972.

PROFESSIONAL ACTIVITIES (Continued)

- 1973-1977 Past Member, National Energy Policy Committee, American Society of Civil Engineers.
- 1973 Member and Program Chairman, Engineering Foundation Research Conference on "Energy Research - Management Alternatives to Meet Regional and National Needs." See Proceedings, Engineering Foundation, July 15-20, 1973 (General Chairman William C. Ackermann, Illinois Water Survey).
- 1974 Member, The International Joint Commission (Invited) Seminar on the IJC; Its Achievements, Needs and Potential; June 20-21, 1974, Montreal, Quebec, Canada.
- 1974 Member, Science Advisory Panel, Committee on Public Works, U.S. House of Representatives and of Task Forces on "National Population Distribution Strategy" (Chairman James Sundquist, The Brookings Institute) and "Organizational Structures" (Chairman Ralph Widner, Academy for Contemporary Problems). See A National Public Works Investment Policy: A Strategy for Balanced Population Growth and Economic Development, Committee Print No. 93-51, Hearings Before the Committee, November 1974; and Proceedings of the Science Advisory Panel, Committee Print No. 93-36; 93rd Congress, 2nd Session.
- 1975 Member, National Academy of Sciences Study Committee on Environmental Indices; see report Planning for Environmental Indices, National Academy of Sciences, Washington, D.C., February 1975.
- 1975 Member, Conference on Water Cleanup and the Land; U.S. EPA, U.S. Department of the Interior and Conservation Foundation. See report by same name; November 1975.
- 1975 Member, National Conference on Water, U.S. Water Resources Council and Moderator, Panel 4, Water and Municipalities and Industries. See report National Conference on Water-Summary; U.S. Water Resources Council, April 22-24, 1975.
- 1976 Consultant and Member Planning Committee; United Nations Center for Transportation, Energy and Resources - Water Section for River Basin Development Policy and Planning Seminar, Budapest, Hungary, 1976; Also one of three General Rapporteurs (co-rapporteur I. Belyaer, USSR).
- 1977-1979 Chairman, Expert Committee on Societal Aspects (Planning, Economics, Law), Science Advisory Board, International Joint Commission (Great Lakes).
- 1979-1980 Member of above Expert Committee.
- 1979-Date Chairman, National Policy Committee, Universities Council on Water Resources.
- 1980 Technical Chairman, Conference on Unified River Basin Planning, American Water Resources Association, Gatlinburg, Tennessee, May 1980.

BOOKS AND SPECIAL REPORTS

- 1951 Water Pollution in the United States. Public Health Service Publication No. 64; Water Pollution Series No. 1; The First National Report on Water Pollution in the United States under the Federal Water Pollution Control Act of 1948. (A summary of 15 major basin reports by the Public Health Service.) Prepared with the assistance of Walter Slavik, Writer and Garnet Jex, Artist.
- 1951 Member of team producing Environment And Health, Federal Security Agency, Public Health Service, 1951; Public Health Service Publication No. 84, 151 pages.
- 1956 "Water Supply Problems in the Central Cities of Urbanized Areas With Suggestions for Their Solution." Unpublished document, University of Michigan, 1956 (110 pages). Recommendations published in Report, "Intergovernmental Responsibilities for Water Supply and Sewage Disposal in Metropolitan Areas" by U.S. Advisory Commission on Intergovernmental Relations (Report No. A-13, October 1962).
- 1958 The Missouri - Water and Land Development For the Nation. Production Managed, Designed and Written with the assistance of Walter Slavik, writer and Garnet Jex, artist for the Missouri Basin Interagency Committee. Public Health Service Publication No. 604, 1958, Superintendent of Documents, Washington, D.C.
- 1962-1969 Water Pollution Control; Audubon Nature Bulletin; published and distributed by the Audubon Society for many years - thousands of copies distributed.
- 1964 The Nation And Its Water Resources. Text for classroom use 1964 to date (updated); self published. 173 pages, 500 copies used at Cornell. Other universities have used as class text, separately printed.
- 1965 Canadian-United States Water Resources Problems and Policies; Leonard B. Dworsky, Editor; Cornell University Water Resources Center, 247 pages.
- 1967 Action for Clean Waters - A program for the Hudson River Basin, written for the Citizens Union Research Foundation, Inc., New York on a grant from the Ford Foundation, August 1967, 36 pages (10,000 copies printed).
- 1967 Assessment of the Adquacy of Water Supplies - Water Quality Aspects. A report to the U.S. Water Resources Council by Leonard B. Dworsky and William B. Strandberg, March 1967; publication no. 16, Cornell University Water Resources Center, 122 pages.
- 1968 Federal Water Resources Research Program for Fiscal Year 1969. A report of the Federal Council for Science and Technology, prepared by the Federal Committee on Water Resources Research, Leonard B. Dworsky, Chairman; published by the Office of Science and Technology, Executive Office of the President, August 1968; 48 pages.

BOOKS AND SPECIAL REPORTS (Continued)

- 1968 Proceedings, Great Lakes Water Resources Conference; Leonard B. Dworsky and Arch Watt Program Co-Chairmen; Engineering Institute of Canada and the American Society of Civil Engineers; 489 pages.
- 1969 Service to New York State. A summary report of the Cornell University Water Resources and Marine Sciences Center for the five years 1965-1969. Publication No. 28, November 1969, Cornell University.
- 1971 "Water Pollution Control," reprint of paper in Transactions of the American Geophysical Union, August 1970, Vol. 51 in An Assessment of Man and His Environment: I; Current Readings in the Physical and Chemical Aspects of the Problem of Pollution; Vol. II; Simon and Schuster, New York, 1971.
- 1971 Conservation in the United States - A Documentary History: Volume on Water and Air Pollution, Leonard B. Dworsky (with Introduction by Stewart Udall), 951 pages; General Editor of all five volumes Frank E. Smith; Chelsea House and Van Nostrand Reinhold Co., 1971.
- 1973 A Proposal for Improving the Management of the Great Lakes of the United States and Canada. A report of the Canada-United States University Seminar, 1971-72; Co-Chairmen Leonard B. Dworsky and George Francis; 76 pages and published by NTIS, U.S. Department of Commerce.
- 1974 A Study of Potential Institutional Arrangements for Water Quality and Water Resources (Quantity) Planning and Management. Completion report submitted to Office of Water Resources Research, U.S. Department of the Interior; preinted as Technical Report No. 83, March 1974; Cornell University Water Resources and Marine Sciences Center; also reproduced by NTIS, U.S. Department of Commerce, 533 pp.
- 1974 The Great Lakes of the United States and Canada - A Reader on Management Improvement Strategies; Leonard B. Dworsky and Charles F. Swezey, Editors, 482 pages.
- 1974 Permuted Title Index to Hudson Basin Information; 710 entries; prepared for the Hudson Basin Project of the Rockefeller Foundation.
- 1974 Water Resources Abstracts: Hudson Basin Region, for Hudson Basin Project, 268 pp.
- 1976 Workshop Report: Integrating Water Quality and Water and Land Resource Planning. Leonard B. Dworsky and David J. Ailee Workshop Co-Chairpersons; Harry A. Steele, Consultant; Caroline F. Raymond Editorial Consultant; sponsored by the Universities Council on Water Resources, the Engineering Foundation and the U.S. Water Resources Council and members (EPA; C/Eng.; USDI; USDA), 338 pp., published by Cornell University and reprinted by NTIS, U.S. Department of Commerce.

BOOKS AND SPECIAL REPORTS (Continued)

- 1979 The Hudson Basin Project; Main Report, Anatomy of an Environment.
Prepared by Leonard B. Dworsky, C. Gilpatric, C.F. Raymond, Gilbert Tauber and C.D. Loeks; 192 pp. Ten additional reports managed, designed and edited with the above persons. Printed initially by the Rockefeller Foundation, New York, 1976. Later published in two volumes by Academic Press as edited by Ralph W. Richardson and Gilbert Tauber.
- 1980 Workshop Report; Anticipatory Planning for the Great Lakes.
Two volumes; Co-Chairmen Leonard B. Dworsky and George Francis; sponsored by International Joint Commission (U.S.-Canada), 140 pp.

CONSULTANCIES

- 1962-1972 U.S. Advisory Commission on Intergovernmental Relations 1962-66; 1972; on reports "Intergovernmental Responsibilities for Water Supply and Sewage Disposal in Metropolitan Areas;" "Standard Ordinances for State Adoption for Control of Suburban Water Supply and Sewage Disposal Facilities;" "Multistate Regionalism," Report No. A-39, 1972.
- 1962-1966 The League of Women Voters Educational Fund. Consultant on development of Citizen Leaders Training Conferences and The Big Water Fight, The Stephen Greene Press, 1966.
- 1964-1968 Consultant to the University of Puerto Rico, School of Engineering; Mayaguez, Puerto Rico (Water Resources Research Institute).
- 1967 The United States Water Resources Council 1967-68 on matters pertaining to First National Assessment under Water Resources Planning Act, 1965.
- 1967-1970 Consultant and Member Research Committee on Environment; National Headquarters, Camp Fire Girls, Inc. of America.
- 1968-1970 Consultant and Adviser to Girl Scouts of America National Headquarters on Environment and future programs.
- 1968-1972 Consultant to the Government of Puerto Rico; Department of Public Works, San Juan, Puerto Rico.
- 1968 The Energy Policy Staff of the Office of Science and Technology, Executive Office of the President, Washington, D.C., for preparation of report, Considerations Affecting Steam Power Plant Site Selection, December 1968, while on duty as Senior Staff Assistant, Water Resources to President's Science Adviser, 1967-68, Office of Science and Technology, Executive Office of the President.
- 1969-1974 Consultant, Office of Science and Technology, Executive Office of the President.
- 1970 Department of the Army, Corps of Engineers, Institute for Water Resources on preparation of report The Role of the U.S. Army Corps of Engineers in Water Quality Management, IWR Report 71-1, October 1970.
- 1970 Office of Science and Technology, Executive Office of the President, Washington, D.C. to attend and report on meeting of OECD Water Management Sector Group Meeting in Washington, D.C., July 15-24, 1970. See OECD Publication Water Management-Basic Issues, OECD, Paris, 1972.

CONSULTANCIES (Continued)

- 1972 The National Water Commission on the matter of Interstate Water Compacts - Review Comments.
- 1973-1976 Consultant, Division of Natural and Environmental Sciences, The Rockefeller Foundation.
- 1973-1975 Consultant to United States Information Agency Engaged in Cultural Exchange Lecture Series on the Environment to Central European Countries (Poland, Hungary, Yugoslavia, Czechoslovakia, Romania) for government and scientific personnel.
- 1976-1980 The United States-Mexico Working Group; operating under a grant (1976-78) from the Rockefeller Foundation; Co-Chairman Professor Albert Utton, University of New Mexico and Ambassador Cesar Sepulveda, Director Institute of Diplomatic Studies, Mexico, D.F.
- 1977-1979 Consultant to the Office of the Governor; Office of the Chief-of-staff; La Fortaleza, San Juan, Puerto Rico.
- 1978-1979 The Delaware River Basin Commission, West Trenton, New Jersey for institutional components of The Delaware River Basin Comprehensive (Level B) Study.

TESTIMONY

- 1947 Water Pollution Control Legislation. Co-writer with Carl E. Schwob of testimony given by Surgeon General Thomas Parran, U.S. Public Health Service, and developed the technical documentation used by the Surgeon General and J.K. Haskins, then Chief Engineer of the Public Health Service that resulted in passage of the first Federal Water Pollution Control Act Public Law 80-845, June 30, 1948.
- 1952 Extension of Water Pollution Control Act. Testimony presented (pages 58-70), in Hearings, Subcommittee on Rivers and Harbors, Committee on Public Works, House of Representatives, 82nd Congress, 2nd Session on HR 6856, April 8, May 20, 1952.
- 1971 Safe Drinking Water. Hearings, Subcommittee on Public Health and Environment, Committee on Interstate and Foreign Commerce, U.S. House of Representatives, 92nd Congress, 1st Session, May 1971; Serial No. 94-24.
- 1973 Safe Drinking Water Act. Hearings, Subcommittee on Public Health and Environment, Committee on Interstate and Foreign Commerce, U.S. House of Representatives, 93rd Congress, 1st Session, March 1973; Serial No. 93-11.
- 1973 Safe Drinking Water Act of 1973. Hearings, Subcommittee on Environment, Committee on Commerce; U.S. Senate, 93rd Congress, 1st Session, May 1973; Serial No. 93-39.
- 1973 The Great Lakes. Hearings, Subcommittee on Inter-American Affairs, Committee on Foreign Affairs, House of Representatives; Activities of the International Joint Commission, United States and Canada, March 1973, see pages 109-248 and 634-713.
- 1973 Statement of the Cornell University Water Resources and Marine Sciences Center to the National Water Commission; Public Hearings, February 8-9, 1973, Washington, D.C., Leonard B. Dworsky, David J. Ailee and others.
- 1974 Appropriations for Office of Water Resources Research, U.S. Department of the Interior; Hearings, Subcommittees of the Committee on Appropriations, U.S. House of Representatives, 93rd Congress, 2nd Session, April 1974, pages 785-824.
- 1975 Canada-United States Relations; before the Standing Senate Committee on Foreign Affairs Parliament of Canada; March 18, 1975. See, Canada-United States Relations - Volume 1; The Institutional Framework for the Relationship, pages 40-46.
- 1976 Water Quality Research; Hearings, Subcommittee on the Environment and the Atmosphere; Committee on Science and Technology; U.S. House of Representatives, 94th Congress, 2nd Session, September, October, 1976; pages 630-703.

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- 1976 Great Lakes Water Level Problems; Hearings, Committee on Foreign Relations, U.S. Senate, September 1976, 94th Congress, 2nd Session, pages 37-48.
- 1977 Marine Pollution Environmental Research and Development Act; statement submitted October 1977 to Chairman, Subcommittee on the Environment and the Atmosphere; Committee on Science and Technology, U.S. House of Representatives.

PROFESSIONAL PAPERS

- 1946 Water Supplies in Cook County and The Proposed Metropolitan Water System, in The Chicago-Cook County Health Survey, conducted by the U.S. Public Health Service and published by Columbia University Press, 1949.
- 1950 Public Health Service Activity in the Collection and Use of Basic Hydrologic Data, written for and signed by Leonard A. Scheele, Surgeon General, U.S. Public Health Service, in A Program to Strengthen the Scientific Foundations in Natural Resources; House Document No. 706, 81st Congress, 2nd Session, Public Lands Committee, U.S. House of Representatives, pages 93-104 (tables prepared by Professor Bernard B. Berger, USPHS).
- 1952 Progress in Water Pollution Control, Carl E. Schwob and Leonard B. Dworsky in Public Health Reports, Vol. 67, No. 11, November 1952, pages 1080-1088, Federal Security Agency, U.S. Public Health Service.
- 1953 Water, Sewage, and Industrial Waste Research Trends and Needs, Alfred H. Wieters and Leonard B. Dworsky, Public Health Reports Vol. 68, No. 11, November 1953, pages 1099-1106.
- 1953 Water Pollution Control - The Evolution of Congressional Policy, prepared for Library of Congress Research Division, April 24, 1953; 19 pages.
- 1953 Classification of Streams for Future Use, written for and signed by A.H. Wieters, Assistant Chief, Division of Water Pollution Control, panel discussion, Boston Society of Civil Engineers, March 4, 1953.
- 1954 Industry's Concern in Pollution Abatement and Water Conservation Measures, Public Health Reports, Vol. 69, No. 1, January 1954.
- 1955 Pollution - A Growing Problem of a Growing Nation, written for and signed by Carl E. Schwob, Chief, Federal Water Pollution Control Program, U.S. Public Health Service, in U.S. Department of Agriculture Yearbook - Water, 1955, pages 636-643.
- 1956 Municipal and Industrial Water Supplies, unpublished policy paper, University of Michigan, Department of Conservation, School of Natural Resources, 1956.
- 1960 Comprehensive Planning and Water Quality Management - Federal Administration, Water Quality Conference, Washington State University, Pullman, Washington, November 29, 1960.
- 1960 Regional Planning - Some Problems in the Pacific Northwest; Warren H. Marple and Leonard B. Dworsky in Water - Measuring and Meeting Future Requirements; Western Resources Conference, University of Colorado, Western Resource Conference, 1960.

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- 1962 Governmental Organization - Existing and Proposed, in The Columbia River: Main Street of the Pacific Northwest; Proceedings of the General Session, 26th Annual Institute of Government, University of Washington, Seattle, April 1962.
- 1962 Tidal Waters - Utilization, Values and Problems; Keynote Address, Third Washington State University Hydraulics Conference, Pullman, Washington, 1962.
- 1962 The Water Quality Problem - Policies, Concepts, and Research Needs, in Proceedings of the 11th Pacific Northwest Symposium on Water Pollution Research, The Social and Economic Aspects of Water-Resource Quality Control, November 8,9, 1962.
- 1963 New Concepts in Basin Planning; Joint Session Columbia Basin Interagency Committee - Missouri Basin Interagency Committee; Jackson, Wyoming, June 19, 1963.
- 1963 "State Government - A Force in Water Development" in Proceedings, 5th Annual Western Resources Conference, Colorado State University, August 1963, pages 139-148.
- 1963 "The Problems of Water Quality Management," Water Quality Management Training Course, R.A. Taft, Sanitary Engineering Center, March 1963.
- 1964 Water Quality Management - Technical Aspects, Journal of the Water Pollution Control Federation, Vol. 36, No. 9, pages 1090-1100.
- 1964 New Views on Public Responsibility for Resources Development - Jurisdictions, Consequences, and Remedies; Norman Beckman and Leonard B. Dworsky, in New Horizons for Resources Research - Issues and Methodology, Western Resources Conference, University of Colorado, 1964.
- 1964 "Great Lakes Development Program - Review and Prospects," Gordon E. McCallum and Leonard B. Dworsky, Publication No. 11, Great Lakes Research Division, The University of Michigan, 1964.
- 1966 Science - Technology and Environmental Change; Engineering-Science Centennial Convocational Symposium on Environmental Control; 100 Year Commemoration; Lafayette College; Easton, Pennsylvania, April 15-16, 1966.
- 1966 Political Environment of Water Resources in Proceedings of Symposium, The Fresh Water of New York State: Its Conservation and Use; State University of New York at Buffalo, June 13-17, 1966.
- 1966 "Man and His Environment - Scope, Impact and Nature - Reaction Paper" in Environmental Improvement (Air, Water, Soil), The Graduate School, U.S. Department of Agriculture, pages 22-26.

PROFESSIONAL PAPERS (Continued)

- 1966 Existing Basin Agencies - How Well Do They Work; Potomac Valley Leaders Conference on River Basin Agencies and Compacts - What's Next for the Potomac; October 26, 1966, Washington, D.C.
- 1967 "Analysis of Federal Water Pollution Control Legislation, 1948-1966," Journal, American Water Works Association, Vol. 59, No. 6, June 1967.
- 1968 "Goals and Perspectives in Water Resources Planning," Leonard B. Dworsky and David J. Allee in Proceedings, Water Resources Planning Conference, New England Council of Water Center Directors; May 1968.
- 1968 The Relationship Between the United States and Canada, in Proceedings of Seminar Series on "The Continental Use of Arctic Flowing Rivers," The University of Washington - Washington State University, Pullman, Washington, December 20, 1968.
- 1969 "The Federal Concern for Including Environmental Control in Engineering Curricula," Western Electric Seminar, Environmental Control -- An Engineering Challenge; May 27, 1969 (for Deans of Western Engineering Colleges).
- 1970 "Lakes As Part of a Total Water System," Keynote Address; OECD Symposium on Eutrophication in Large Lakes And Impoundments, Uppsala, Sweden, May 1968, pages 154-165.
- 1970 "Toward An Effective and Credible Program of Water Pollution Control," in EOS, Transactions of the American Geophysical Union, Vol. 51, No. 8, 1970, pages 600-605.
- 1971 "Problems of Executive Reorganization: The Federal Environmental Protection Agency," John F. Wall and Leonard B. Dworsky, American Society of Civil Engineers, Issues, Vol.
- 1971 "Realistic Water Pollution Control Goals," Leonard B. Dworsky and David J. Allee in Professional Engineer, National Society of Professional Engineers, Vol. 41, No. 3, March 1971, pages 16-19.
- 1972 "Integrating Water Quality Management and Water Resources Development," International Symposium on the Planning of Water Resources, Mexico City, December 4-8, 1972.
- 1972 "Management of the International Great Lakes," Leonard B. Dworsky, C.D. Gates, D.J. Allee, C.F. Swezey, at International Symposium on the Planning of Water Resources, Mexico City, December 4-8, 1972.
- 1972 Water Pollution Problems in Developing Countries, Discussion of two papers; 6th International Association of Water Pollution Research Conference, Jerusalem, Israel, June 18-23, 1972.

INITIATIVES

- 1950 Initiated consideration of water in the Paley Commission (President's Materials Policy Commission) report of 1950, which led to the beginning of the U.S. Bureau of the Census publication of the series Water Use in Industry.
- 1951 Initiated consideration of expanded municipal water supply programs in Federal water resource development programs (during Bureau of the Budget review of President's Water Policy Commission Report), which led to the Water Supply Act of 1958 by the Congress.
- 1951 Initiated consideration of authorizing flow management (low flow regulation) as a generally authorized technology for use by Federal Construction agencies (after adequate waste treatment) during Bureau of the Budget review of the President's Water Policy Commission Report, which led to the 1961 amendments of the Federal Water Pollution Control Act authorizing such action.
- 1968 In cooperation with Assistant Director of the U.S. Department of the Interior, Office of Water Resources Research (Mr. Eugene Eaton) a new resources program concerned with Metropolitan Water Resources was initiated in the research stage (at the time I was Senior Staff Specialist for Water Resources in the Office of Science and Technology, Executive Office of the President).
- 1968 Initiated, following approval by the President's Science Advisory Committee, the President's Science Advisor, the introduction of the first version of the Safe Drinking Water Act by the U.S. Department of Health, Education and Welfare (at the time I was the President's Science Adviser (Dr. Donald Hornig) Senior Staff Specialist for Water Resources). During 1970 the bill was again introduced by my Congressman Howard Robison supported by a resolution I introduced to the Universities Council on Water Resources. The Safe Drinking Water Act was passed by the Congress in 1974.
- 1973 As an outgrowth of the Engineering Foundation Conference on Energy Research - Management Alternatives to Meet Regional and National Needs held at New England College, Henniker, New Hampshire, July 15-20, 1973 Mr. William C. Ackermann, myself and a few others attempted to develop strong public support for a national energy policy. Through the cooperation of Congressman Howard Robison (NY), a bill was introduced August 3, 1973 in the 93rd Congress, 1st Session to authorize the President to call and conduct a White House Conference on Energy (H.R. 10015). At that time the Office of the President was not interested. It would have been useful.
- 1976 During 1975-76 I initiated a workshop on the Integration of Water Quality and Land and Water Resources. The Workshop Report was used importantly in the considerations of new President's Water Policy Initiatives, but no specific recommendations evolved. By 1980, this is the first priority listed on the U.S. Water Resources Council's priority agenda.

PROFESSIONAL PAPERS (Continued)

- 1974 "Improving the Management of the Great Lakes of the United States and Canada: A Case Study of International Cooperation at Government and University Levels," in Proceedings, The Sea Grant Association: 7th Annual Meeting, University of Washington, October 1974.
- 1974 "Management of the International Great Lakes," In Priorities in Water Management, Western Geographical Series, Vol. 8, University of Victoria, British Columbia, 1974.
- 1974 "Management of the International Great Lakes," Leonard B. Dworsky, George R. Francis and Charles F. Swezey, Natural Resources Journal, Vol. 14, No. 1; The University of New Mexico School of Law, pages 103-138.
- 1974 "The Management of International Boundary Waters of Canada and the United States: A Comparative Study," in Natural Resources Journal, Vol. 15, January 1975, pp. 223-227; presented at the U.S.-Mexico Working Group Conference, Oaxtepec, Mexico, March 15, 1974.
- 1975 Resource Management of the Great Lakes: The Interaction of Engineering and Public Policy, in Engineering - Cornell Quarterly, Vol. 10, No. 3, Autumn 1975, pp. 16-23.
- 1976 A Critique of the National Water Commission Analysis of Cost Sharing, Leonard Dworsky, William Hunt, Edward Cohn, David Allee; Cornell Agricultural Economics Staff Paper, April 1976, No. 76-16, 50 pages.
- 1976 "Cooperative Management and Development of International River Basins; General Report," in River Basin Development; Policies and Planning, Volume II. Proceedings of the United Nations Interregional Seminar on River Basin and Inter Basin Development; Budapest, Hungary; United Nations Resources/Water Series No. 6, New York, Budapest, 1976.
- 1976 "The Management of International River Basins: A Case Study of the International Joint Commission on the Great Lakes of the United States and Canada," in River Basin Development: Policies and Planning; Volume II; Proceedings of the United Nations Interregional Seminar on River Basin and Inter Basin Development; Budapest, Hungary; United Nations Resources/Water Series No. 6, New York-Budapest, 1976.
- 1976 The University of Connecticut 1976-76 Seminar Series: "The Environment and Health - Is There Still a Relationship," April 1976.
- 1976 Proposals for Improving the Management of International River Basins; International Association for Water Law - International Conference on Water Law and Administration; Caracas, Venezuela, February 1976.

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- 1977 "Water Pollution Control," Bernard B. Berger and Leonard B. Dworsky, in EOS, American Geophysical Union, Vol. 58, No. 1, January 1977.
- 1977 "Integration of Water Quantity and Water Quality Management," submitted by the United States of America, prepared by Leonard B. Dworsky, to the United Nations Water Conference, Mar Del Plata, Argentina; March 1977.
- 1978 "The Management of Water-Land-Environmental Resources at International Boundary Regions," in Natural Resources Journal, Vol. 18, January 1978; given at meeting of United States-Mexico Working Group, Oaxtepec, Mexico, March 10-11, 1977.