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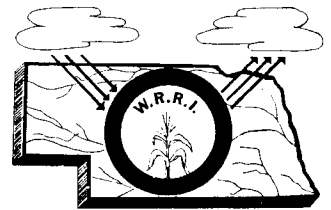
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WATER RESOURCES NEWS

NEBRASKA WATER RESOURCES RESEARCH INSTITUTE
212 AGRICULTURAL ENGINEERING BUILDING

THE UNIVERSITY OF NEBRASKA
LINCOLN, NEBRASKA 68503



Volume 3 Number 4

April 1971

DEADLINES FOR FILING RESEARCH PROPOSALS FOR F.Y. 1973

The deadlines for filing research proposals for fiscal year 1973, Office of Water Resources Research funding are as follows:

1. Title II Proposals must be received by the Office of Water Resources Research in Washington, D.C. by January 1, 1972.

2. Matching Grant Title I Proposals must be received by the Nebraska Institute Director not later than September 15, 1971 for consideration for funding beginning July 1, 1972.

3. Basic Allotment Research Proposals must be received by the Director of the Nebraska Water Resources Research Institute not later than December 1, 1971.

It is suggested that prospective principal investigators make an appointment to discuss their research proposals with the Institute Director before they begin writing.

For further information contact: Dr. Warren Viessman, Jr., Director, Water Resources Research Institute, University of Nebraska, 212 Ag. Engineering, Lincoln, Nebraska 68503. Telephone: 472-3307.

FEDERAL CONFERENCE ON PUBLIC INVOLVEMENT

"Public Involvement in Water and Related Land Resources Planning" has been selected as the theme of the Fifth Annual Conference of State and Federal water officials, it was announced recently by Norman F. Billings, Chairman of the Interstate Conference on Water Problems (ICWP), and W. Don Maughan, Director of the Water Resources Council.

The Conference, sponsored jointly by the Council and the ICWP, an agency of the Council of State Governments, will be held in Des Moines, Iowa, June 8-10, 1971.

"By the use of case studies, knowledgeable panelists, and intensive workshop efforts, we are endeavoring to identify problems associated with involvement of the public in planning, and hope to come up with some practical solutions to these problems", Maughan said.

Further information concerning this year's conference may be obtained from:

Mr. Orthie R. McMurray
Iowa Natural Resources Council
Grimes Office Building
Des Moines, Iowa 50319
Telephone: 515-281-5914

or,

Mr. Charles Conklin
Water Resources Council
1025 Vermont Avenue, N.W.
Washington, D.C. 20005
Telephone: 202-382-4728

DEPARTMENT OF NATURAL RESOURCES TO
ELIMINATE DUPLICATION AND RIVALRY

In President Nixon's message to Congress, he explained the goals of the new department: "This Department would work to conserve, manage and utilize our resources in a way that would protect the quality of the environment and achieve a true harmony between man and nature." The specific recommendations for water resource programs were explained as follows:

"Major water resources development programs are located in three different departments: Agriculture, Interior, and Army. A separate agency, the Water Resources Council, was established to coordinate several agencies' planning efforts and water resources policy. The Council has had limited effectiveness since it is basically an inter-agency committee. While some improvements have been made, inter-agency rivalry, duplicative planning, and conflicting policies still persist. For example, in California and Oregon, the Corps of Engineers and the Bureau of Reclamation each contends it should build certain projects. These jurisdictional problems, which necessarily involve the Executive Office of the President, need not arise if there were one water resource agency."

HYDROLOGIC INFORMATION STORAGE
AND RETRIEVAL SYSTEM

Dr. Edward H. Wiser at N.C. State University with joint support of the Water Resources Research Institute and the N.C. Agricultural Experiment Station has developed a computerized system for storage, retrieval and routine processing of hydrologic data. The system is known as Hydrologic Information Storage and Retrieval System (HISARS). Although the system is not yet complete, its modular design permits use in its current form, and a number of useful features are now available. The system is running on the IBM system/360 Model 75 computer at the Triangle Universities Computation Center and can be used at any of the remote terminals scattered around the state.

Data are stored on magnetic disk packs. By making use of an operating system feature known as the indexed sequential access method together with direct access capabilities of the PL/1 language, HISARS can retrieve any one of approximately 350,000 records directly. This makes it possible to determine weather or streamflow characteristics at any location and at any time for which data are available. It is also possible to compare different locations at the same time and to process records through time at a single location.

DRINKING WATER BILLS INTRODUCED

Two bills were introduced in the first week of the 92nd Congress, H.R. 1093 (Rogers, D., Florida) and

H.R. 437 (Robison, R., New York). Both have the purpose of setting up programs to insure adequate quantities of safe drinking water by protecting us from chemical, physical, and biological contaminants in public water systems which may adversely affect health. Both bills establish advisory committees to work with the Administrator of the Environmental Protection Agency (E.P.A.), provide for drinking water standards and federal enforcement, and call for federal assistance in training, research, and other technical assistance, with funds authorized to carry out these provisions.

CONGRESSIONAL COMMITTEE ASSIGNMENTS

There has been a major change in assignment of certain F.Y. 1972 budgets to House and Senate Appropriation subcommittees, in particular, environmental matters and water and sewer grant programs. The Agriculture Subcommittee will handle the Environmental Protection Agency appropriation, which involves funds for waste water treatment plants and water hygiene, as well as other environmental programs for the House. They will also handle the Farmers Home Administration and Housing and Urban Development water and sewer grant programs. Rep. Jamie Whitten, D., Miss., is the Chairman of this subcommittee and it is understood that his ideas may differ from those of the "environmentalists," particularly in regard to pesticides and their effect on the environment. The Agriculture Appropriations Subcommittee, chaired by Sen. Gale McGee, D., Wyo., will handle the EPA budget, as well

as FHA and HUD water and sewer grant programs for the Senate.

ADMINISTRATION REORGANIZATION AFFECTS CORPS' FUNCTIONS

The Administration has released details of its proposal to shift portions of the Corps of Engineers' civil functions to a new Department of Natural Resources. The Corps' planning, policy and funding functions, entailing some 2,500 personnel and the Corps' entire budget, would go to the new department, which would be oriented toward conservation and environmental interests. The secretary of the Department of Natural Resources would be responsible for the evaluation and approval of all water resources projects, as well as their funding. However, the Corps would retain those personnel dealing with actual engineering, construction and maintenance of projects. An administrator for water resources would be named within the new department. He would be one of five such administrators coming under the secretary, deputy secretary, general counsel and three under secretaries. Others transferred to the new department would be the Water Resources Council, Bureau of Reclamation, Soil Conservation Service and the Office of Water Resources Research--which will all be assigned to the administrator for water resources. Much opposition has developed on this and other Administration reorganization plans, both on Capitol Hill and within the agencies themselves. However, conservationists and many politicians believe the Department of Natural Resources has the greatest "political sex appeal" and, the best chance of passage.

NEW PUBLICATIONS RECEIVED
BY INSTITUTE - APRIL

1. "Opset Program for Computerized Selection of Watershed Parameter Values for the Stanford Watershed Model," E. Yuan-Shang Liou, University of Kentucky, 1970.
2. "The Stanford Watershed Model: The Correction of Parameter Values Selected By a Computerized Procedure With Measurable Physical Characteristics of the Watershed," G. A. Ross, University of Kentucky, 1970.
3. "An Evaluation of Relationships Between Streamflow Patterns and Watershed Characteristics Through the Use of Opset - A Self Calibrating Version of the Stanford Watershed Model," L. D. James, University of Kentucky, 1970.
4. "Oil Pollution of the Marine Environment -- A Legal Bibliography," C. Q. Christo, University of Southern California, January 1971.
5. "Annual Report 1970," University of Florida, July 1970.
6. "Phosphate Study at The Baltimore Back River Wastewater Treatment Plant," Environmental Protection Agency, Water Quality Office, September 1970.
7. "Selected Urban Storm Water Runoff Abstracts," Second Quarterly Issue, The Franklin Institute Research Laboratories, January 1971.
8. "Destratification Experiments at Rotterdam," P. L. Knoppert, J. J. Rook, Tj. Hofker, & G. Oskam, May 1969.
9. "Watershed Human-Use Level and Water Quality," R. D. Lee, J. M. Symons, G. G. Roebeck, Reprinted from and copyrighted as a part of Journal American Water Works Association, July 1970.
10. "Research on Recreational Use of Watersheds and Reservoirs," J. Keith Carswell, J. M. Symons, G. G. Robeck, Reprinted from and copyrighted as a part of Journal American Water Works Association, June 1969.
11. "Mixing of Water Supply Reservoirs for Quality Control," J. M. Symons, J. K. Carswell, and G. G. Robeck, Reprinted from and copyrighted as a part of Journal American Water Works Association, May 1970.
12. "Flood-Loss Reduction: The Integrated Approach," G. F. White, Reprinted from the Journal of Soil and Water Conservation, September-October 1970.
13. "Framework Study - Appendix C - Needs and Problems," Nebraska Soil and Water Conservation Commission, State Water Plan, September 1970.
14. "Waste Reduction in Food Canning Operations," U.S. Department of the Interior, Federal Water Quality Administration, August 1970.
15. "Vascular Aquatic Plants in Acid Mine Water of the Monongahela River, West Virginia," R. B. Clarkson, J. A. Moore, West Virginia University, 1971.
16. "Adsorption of Organic Compounds Onto Solids From Aqueous Solutions," J. P. Wightman, L. R. Dole, J. Jones, C. A. King, Virginia Polytechnic Institute and State University, February 1971.
17. "A History of the Cooperative Water Yield Procedures Study Project," A. L. Sharp, Soil and Water Conservation Research Division, A. E. Gibbs, Bureau of Reclamation, W. J. Owen, Soil Conservation Service, 1968.
18. "Anticipations of Change: A Socio-Economic Description of A Kentucky County Before Reservoir Construction," C. R. Smith, University of Kentucky, 1970.

19. "Algal Growth and Decomposition: Effects on Water Quality, Phase II - Nutrient Regeneration, Composition, and Decomposition of Algae in Barch Culture," E. G. Foree, R. L. Barrow, University of Kentucky, 1970.
20. "Hec-3 Reservoir System Analysis," U.S. Army Corps of Engineers, February 1971.
21. "Mayfly Distribution as a Water Quality Index," Winona State College, November 15, 1970.
22. "Methanol Requirement and Temperature Effects in Wastewater Denitrification," Gulf South Research Institute, for Water Quality Office, Environmental Protection Agency, August 1970.
23. "New Technology For Treatment of Wastewater By Reverse Osmosis," Environmental Protection Agency, Water Quality Office, September 1970.
24. "Treatment of Acid Mine Drainage by Ozone Oxidation," Environmental Protection Agency, Water Quality Office, December 1970.
25. "Investigation of Means for Controlled Self-Destruction of Pesticides," Environmental Protection Agency, Water Quality Office, June 1970.
26. "Research Reports Supported by Office of Water Resources Research Under the Water Resources Research Act of 1964 - July 1970-March 1971," U.S. Department of the Interior, Office of Water Resources Research.
27. "Abstracting and Indexing Guidelines and Instructions for Contributors," U.S. Department of the Interior, Water Resources Scientific Information Center, Revised August 1970.
28. "Development of Phosphate-Free Home Laundry Detergents," Environmental Protection Agency, Water Quality Office, December 1970.
29. "Induced Hypolimnion Aeration for Water Quality Improvement of Power Releases," L. E. Leach, W. R. Duffer, C. C. Harlin, Jr., Water Quality Control Research Program, R. S. Kerr, Water Research Center, Ada, Oklahoma, October 1970.
30. "A Guide to Aquatic Smartweeds (Polygonum) of the United States," R. S. Mitchell, Virginia Polytechnic Institute & State University, March 1971.
31. "Induced Air Mixing of Large Bodies of Polluted Water," S. A. Zieminski, R. C. Whittemore, University of Maine, November 1970.
32. "A Programming Model for Farm Irrigation Systems," J. S. Windsor, Ven Te Chow, University of Illinois, December 1970.
33. "Water Resources Systems Analysis By Discrete Differential Dynamic Programming," M. Heidari, Ven Te Chow, D. D. Meredith, University of Illinois, January 1971.
34. "Hec-4 Monthly Streamflow Simulation," U.S. Army Corps of Engineers, February 1971.
35. "Effects of Land Management on Quantity and Quality of Available Water," W. C. Boughton, University of New South Wales, May 1970.
36. "Framework Study - Appendix B - Inventory of Water Resources," Nebraska Soil and Water Conservation Commission, State Water Plan, May 1970.
37. "The Effect of Raindrop Impact and Surface Roughness on Sheet Flow," H. G. Wenzel, University of Illinois, October 1970.
38. "Device For Field Determination of Heavy Metals in Natural Waters," Dr. Robert E. Van Atta, University of Illinois, December 1970.

39. "Economic Analysis of Water Use in Illinois Agriculture," E. R. Swanson, University of Illinois, January 1971.
40. "Catalytic Oxidation of Organic Compounds in Waste Water," G. V. Smith, F. Patil, Yuri Pavlov, J. V. Chen, University of Illinois, January 1971.
41. "Feasibility Analysis of Incinerator Systems for Restoration of Oil Contaminated Beaches," Environmental Protection Agency, November 1970.
42. "Evaluation of Pyritic Oxidation by Nuclear Methods," Environmental Protection Agency, March 1971.
43. "Proceedings of A Conference on Water Resources Planning and Public Opinion," Edited by Warren Viessman, Jr., University of Nebraska, April 1971.
44. "Prospects for Metropolitan Water Management," M. B. McPherson, ASCE Urban Water Resources, Sponsored by Office of Water Resources Research, December 1970.
45. "Density Currents and Turbidity Currents in Waste Disposal in the Ocean - A Literature Review," B. S. Jenkins, University of New South Wales, August 1970.
46. "Chemical Gauging of Streamflow," F. C. Bell, University of New South Wales, December 1969.
47. "Potential of Satellite Microwave Sensing for Hydrology and Oceanography Measurements," J. C. Alishouse, D. R. Baker, E. P. McClain, H. W. Yates, NOAA Technical Memorandum, U.S. Department of Commerce, March 1971.
48. "Effect of Surface Groups on Adsorption of Pollutants," for the Environmental Protection Agency, Water Quality Office, R. W. Coughlin, Lehigh University, June 1970.
49. "Water Resources Planning Study for Arkansas and Oklahoma," L. R. Heiple, H. M. Jeffus, University of Arkansas, 1970.
50. "A Preliminary Evaluation of Polyelectrolytes As Possible Water Clarification Aids For Treatment of Turbid Fish Ponds," R. McDonald, R. Thomas, Nebraska Game and Parks Commission, Hastings, Nebraska, July 1970.
51. "Some Ecological Observations on the Fathead Minnow, Pimephales, promelas, in the Alkaline Waters of Nebraska," a reprint from the TRANSACTIONS of the AMERICAN FISHERIES SOCIETY, January 1968.
52. "A Study of Primary Productivity in a Nebraska Interstate 80 Lake," G. Adrian, C. Throckmorton, B. McDonald, Kansas Academy of Science, January 1971.
53. "Some Ecological Relations of Fairy Shrimps in Alkaline Habitats of Nebraska," D. Bruce McCarraher, University of Notre Dame Press, July 1970.
54. "Adaptability and Current Status of Introductions of Sacramento Perch, Archoplites interruptus, in North America," D. B. McCarraher, R. W. Gregory, reprinted from TRANSACTIONS of the AMERICAN FISHERIES SOCIETY, October 1970.
55. "Proceedings of the Workshop for Sociological Aspects of Water Resources Research," Utah State University, April 1968.
56. "Phreatophytes - A Bibliography," Water Resources Scientific Information Center, U.S. Department of the Interior, April 1971.
57. "Thermoelectric Generators Powered by Thermal Waste From Electric Power Plants," Environmental Protection Agency,

Water Quality Office, M. A.
Shirazi, October 1970.

58. "After Six Years -- The
State of Washington Water Research
Center," A. F. Agnew, University
of Washington, Washington State
University, March 1971.

59. "Detachment of Soil
Aggregates by Simulated Rainfall,"
A. P. Mazurak, P. N. Mosher,
University of Nebraska, reprinted
from the SOIL SCIENCE SOCIETY OF
AMERICA PROCEEDINGS, September-
October 1970.

60. "Division S-6 -- Soil
and Water Management and Conserva-
tion," A. P. Mazurak, P. N. Mosher,
University of Nebraska, reprinted
from the SOIL SCIENCE SOCIETY OF
AMERICA PROCEEDINGS, September-
October 1968.

NEWSLETTER ITEMS

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