

LOCATION

The seminar will be held in the Nolte Center for Continuing Education on the Minneapolis Campus of the University, near the corner of 17th and University Avenues Southeast.

APPLICATION AND FEE

The fee for the seminar is \$18.00 which includes the luncheon. Registration is personal and non-transferable. A full refund of the fee will be made if the registration is cancelled or if the seminar is not held. The University reserves the right to cancel the seminar if the occasion warrants.

ACCOMMODATIONS AND PARKING

No lodging accommodations are available on the University Campus. Registrants should arrange directly with the hotel or motel of their choice for lodging and meals other than the scheduled luncheon. A list of hotels and motels is available upon request.

The fee for reserved 24-hour parking in the Nolte Center garage or in the Washington Avenue Ramp with exit and re-entry privileges is \$1.00. Application for registration, accompanied by a remittance for the full registration fee, and a separate remittance for parking facilities, if parking is desired, should be received by the Center no later than seven (7) days before the seminar begins. A permit card will then be sent with registration receipt.

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SEMINAR IN FLOOD PLAIN MANAGEMENT

December 10, 1968

Held at

Nolte Center for Continuing Education

Department of Conferences and Institutes

GENERAL EXTENSION DIVISION
UNIVERSITY OF MINNESOTA



SEMINAR IN FLOOD PLAIN MANAGEMENT

Tuesday, December 10, 1968

ABOUT THE PROGRAM

This Seminar is presented by the Department of Conferences and Institutes, General Extension Division, University of Minnesota, with the cooperation and support of the St. Anthony Falls Hydraulic Laboratory, the Northwestern Section -- American Society of Civil Engineers and the St. Paul District, U.S. Army Corps of Engineers.

Its purpose is to provide all persons who have a common interest in and a concern for flood plain management with basic information about the problems of control and prevention as well as alternative approaches to their solution.

County and municipal officials, legislators, agricultural extension specialists, ground area usage personnel and others who recognize the inevitability of recurring flood conditions in Minnesota and need to be more informed about the concomitant problems and how to deal with them will find this a valuable seminar.

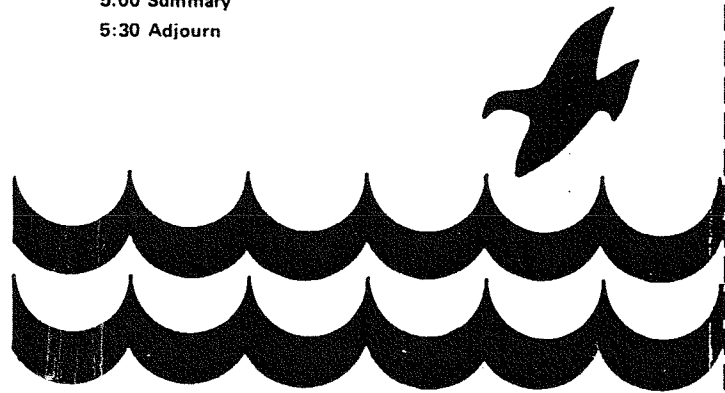
The planning committee is especially pleased to welcome James C. Goddard, J. Wesley Walters and James C. Ringenoldus as guest speakers. Mr. Goddard, an engineer with the Tennessee Valley Authority since 1933, was responsible for developing the Local Flood Relations Program which was formally organized in 1953. This program provided information and counsel to more than a hundred communities vulnerable to floods, and has spurred a series of studies of basic flood problems. He was a member of the Task Force on Federal Flood Control Policy in 1965-66. During 1966-67 he served in the Office of Chief of Engineers in organizing and giving direction to the broadened activities of the Corps of Engineers relating to flood plain information, flood plain studies, and research. He is now a consultant in the field of flood plain management.

J. Wesley Walters served in the office of the U. S. Army Corps of Engineers for over 35 years on water resource projects. Since his retirement in 1965 Mr. Walters has been a consultant for the Minnesota Resources Commission, the State Planning Agency and for two private consulting firms.

Mr. Ringenoldus has been a member of Harza Engineering Company since 1952. From 1956 to 1959, as International Senior Hydrologist, he carried out a hydrological survey of Iraq, Baghdad. Subsequently, for a period of five years he was Chief of his company's Hydrology Branch carrying out general consulting services for the Water and Power Development Authority of West Pakistan in Lahore.

PROGRAM

- 8:00 Final Registration -- Registration Desk, Nolte Center
- 8:30 Film "The Other Side of the River" (shown concurrently with registration)
- 9:00 Welcome and Opening Remarks Harry Dederig
Seminar Chairman: *Edward Silberman*
- 9:15 History of Floods in Minnesota J. Wesley Walters
- 10:00 Coffee Break
- 10:30 Introduction to Flood Plain Management James Goddard
A) Problems in outline -- land use regulation, insurance, non-structural and structural engineering measures
B) Identification of flood plain, flood frequencies, how information about floods is made available
- 11:30 Structural Measures for Flood Plain Management James C. Ringenoldus
A) Dikes, dams, channel improvements, etc.
B) Usefulness of structural measures; reasons for having to consider alternatives to structural measures
C) Planning process by which alternatives may be selected
D) Flood proofing
- 12:30 Lunch -- Nolte Center Dining Room
- 1:30 Economic and Social Aspects of Flood Plain Management James Goddard
A) Zoning
B) Insurance
C) Others
D) What makes a balanced program?
- 2:30 Legal Perspectives of Flood Plain Management in Minnesota Frank J. Murray
- 3:30 Coffee Break
- 4:00 Panel Discussion -- What Flood Plain Management in Minnesota Should Be Like
Some alternative proposals Douglas Barr
Raymond Haik
Ralph Keyes
- 5:00 Summary
- 5:30 Adjourn



REGISTRATION FORM

SEMINAR IN FLOOD PLAIN MANAGEMENT

Nolte Center for Continuing Education

93-96
December 10, 1968
Please Send Hotel/Motel List

NAME _____ (Please Print)

MAILING ADDRESS _____ (Street and Number)

POSITION TITLE _____ (City)

AGENCY OR ORGANIZATION _____ (State)

(Zip)

- I enclose \$18.00 (check or money order payable to the University of Minnesota) in payment of the fee for the seminar in Flood Plain Management, December 10, 1968.
- I enclose \$1.00 (check or money order payable to the University of Minnesota) in payment of the parking fee.

DATE _____ SIGNATURE _____

MAIL TO: Director, Department of Conferences and Institutes
Nolte Center for Continuing Education
University of Minnesota
Minneapolis, Minnesota 55455