



## CHEMICAL ENGINEERING DIVISION ACTIVITIES

### Ninth Annual Lectureship

#### Award to William R. Showalter

The 1971 ASEE Chemical Engineering Division Lecturer was Dr. William R. Showalter of Princeton University. The purpose of this award lecture is to recognize and encourage outstanding achievement in an important field of fundamental chemical engineering theory or practice. *The 3M Company provides the financial support for this annual lecture award.*

Bestowed annually upon a distinguished engineering educator who delivers the Annual Lecture of the Chemical Engineering Division, the award consists of \$1,000 and an engraved certificate. These were presented to this year's Lecturer at the Annual Chemical Engineering Division Meeting June 23, 1971 at the U.S. Naval Academy. Dr. Showalter spoke on "The Art and Science of Rheology."

#### PREVIOUS LECTURES

- 1963, A. B. Metzner, University of Delaware, "Non-Newtonian fluids."
- 1964, C. R. Wilke, University of California, "Mass transfer in turbulent flow"
- 1965, Leon Lapidus, Princeton University, "Aspects of modern control theory and application."
- 1966, Octave Levenspiel, Illinois Institute of Technology, "Changing Attitudes to Reactor Design."
- 1967, Andreas Acrivos, Stanford University, "Matched Asymptotic Expansions."
- 1968, L. E. Scriven, University of Minnesota, "Flow and Transfer at Fluid Interfaces."
- 1969, C. J. Pings, California Institute of Technology, "Some Current Studies in Liquid State Physics."
- 1970, J. M. Smith, University of California at Davis, "Photo chemical Processing—Photo Decomposition of Pollutants in Water."



William R. Showalter was born in Milwaukee, Wisconsin, in 1929. He attended public schools in a suburb of that city and then entered The University of Wisconsin, from which he graduated with a Bachelor of Science degree in Chemical Engineering in 1951. Following a year at The Institute of Paper Chemistry in Appleton, Wisconsin, he moved to the University of Illinois and received a Master of Science degree in Chemical Engineering in 1953. After a period in the Service he returned to the University of Illinois and completed his Ph.D. degree in 1957. Since that time he has been a member of the faculty of Princeton University, where he currently serves as Professor of Chemical Engineering.

Professor Showalter's research deals with theoretical and experimental aspects of fluid mechanics, with special emphasis on flows of rheologically complex fluids. He has applied his interests in these areas to industrial problems during summer periods spent with chemical and petroleum companies. He also serves as an industrial consultant on problems in fluid mechanics.

During 1964 Professor Showalter was on academic leave at the University of Minnesota, and in 1970 he was at the University of Cambridge as a Senior Visiting Fellow of the British Science Research Council. He has also served for several years as a member of the Chemical Engineering Advisory Board to the McGraw-Hill Book Company. Professional Societies of which he is a member include the American Institute of Chemical Engineers, American Chemical Society, and Society of Rheology. April, 1971.