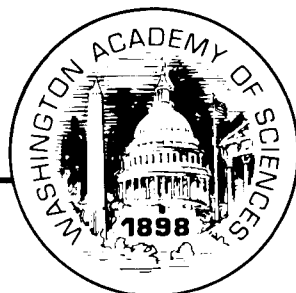


Journal of the

WASHINGTON ACADEMY OF SCIENCES



Issued Quarterly
at Washington, D.C.

Symposium Issue

CONTENTS

Symposium — Statistics and the Environment

Keynote Session

RALPH C. WANDS: Introduction to the Symposium	29
VAUN A. NEWILL: Regulatory Decision Making: The Scientist's Role	31
MICHAEL BROWNLEE: Keynote Address: Statistics and the Environment	48
GEORGE E.P. BOX: Statistics and the Environment	52
KEYNOTE SESSION DISCUSSION	60

Carcinogens — Safe Doses?

BEATRICE S. ORLEANS: Opening Remarks	62
NANCY R. MANN: Introduction	62
DAVID P. RALL: Problems of Low Doses of Carcinogens	63
MARVIN A. SCHNEIDERMAN: Safe Dose? Problem of the Statistician in the World of Trans-Science	68
PANEL DISCUSSION	79

Air Pollutants — Safe Concentrations?

HENRY LATHROP: Introduction	91
JOHN F. FINKLEA: Auto Emissions and Public Health: Questions, Statistical Problems, and Case Studies	91
JOHN D. HROMI: Some Aspects of Determining New Motor Vehicle Engine Emission Levels	109
PANEL DISCUSSION	113

(Continued on Back Cover)

CONTENTS (Continued from Front Cover)

Occupational Exposures — Thresholds?	
BERTRAM D. DINMAN: Introduction	126
RICHARD HENDERSON: Thresholds for Control of Potential Hazards in Occupational Environments	129
J. WILLIAM LLOYD: Study of Long-Latent Disease in Industrial Populations	135
PANEL DISCUSSION	145
Summary Session	
SEYMOUR L. FRIESS: Introduction	156
MORRIS F. CRANMER: Reflections in Toxicology	158
FRED C. LEONE: Summary Address for the Symposium	179
PANEL DISCUSSION	185
Notice	191