

WASHINGTON ACADEMY OF SCIENCES



Issued Quarterly
at Washington, D.C.

Symposium Issue

CONTENTS

Editorial	54
Symposium—Science and the Environment (I). Lead in Gasoline	55
ALFONSE F. FORZIATI: Introduction to the Symposium ...	55
FREDERICK D. ROSSINI: Science and the Environment.....	56
PHILIP S. MYERS: Spark Ignition Engine Combustion and Lead	58
BRUCE S. BAILEY: Gasoline-Motor Engineering	74
GEORGE E. CHECKLICH: U.S. Army's Hybrid Combustion Engine and the 1975 Federal Exhaust Emission Standards ..	85
S. L. MEISEL: Exhaust Emissions and Control	91
G.J. STOPPS: Is There a Safe Level of Lead Exposure?.....	103
ARTHUR L. ARONSON: Biologic Effects of Lead in Domestic Animals	110
GARY L. TER HAAR: The Effect of Lead Antiknocks on the Lead Content of Crops	114
EUGENE W. SURBER: The Effect of Outboard Motor Exhaust Wastes on Fish and Their Environment	120
ARTHUR L. ARONSON: Biologic Effects of Lead in Fish ...	124
BRUCE H. SIMPSON: Automotive Emissions Control	128
PANEL DISCUSSION	138
Academy Affairs: Annual Report of the Treasurer for 1970	148
Board of Managers Meeting Notes	149
Scientists in the News	151