

# PHILOSOPHY OF SCIENCE

*Official Journal of the Philosophy of  
Science Association*



VOLUME 37, NUMBER 2

June, 1970

# PHILOSOPHY OF SCIENCE

JOURNAL OF THE PHILOSOPHY OF SCIENCE ASSOCIATION

## EDITORIAL BOARD:

- RICHARD S. RUDNER, Department of Philosophy, *Washington University*, St. Louis, Missouri 63130, *Editor in Chief*
- ERNEST W. ADAMS, Department of Philosophy, *University of California*, Berkeley, California 94720
- GUSTAV BERGMANN, Department of Philosophy, *University of Iowa*, Iowa City, Iowa 52240
- MAY BRODBECK, Department of Philosophy, *University of Minnesota*, Minneapolis, Minnesota 55455
- ARTHUR BURKS, Department of Philosophy, *University of Michigan*, Ann Arbor, Michigan 48104
- C. WEST CHURCHMAN, Graduate School of Business Administration, *University of California*, Berkeley, California 94720
- THEODOSIUS DOBZHANSKY, *The Rockefeller University*, New York, New York 10021
- ADOLF GRÜNBAUM, Department of Philosophy, *University of Pittsburgh*, Pittsburgh, Pennsylvania 15213
- EDWARD MADDEN, Department of Philosophy, *State University of New York*, Buffalo, New York 14214
- HENRY MARGENAU, Department of Physics, *Yale University*, New Haven, Connecticut 06520
- GERALD J. MASSEY, Department of Philosophy, *Michigan State University*, East Lansing, Michigan 48823, *Managing Editor*
- ALBERTO PASQUINELLI, Facoltà Di Lettere E Filosofia, Università Degli Studi Di Bologna, *University of Bologna*, Bologna, Italy
- WESLEY C. SALMON, Department of History and Philosophy of Science, *Indiana University*, Bloomington, Indiana 47401
- J. J. C. SMART, Department of Philosophy, *University of Adelaide*, Adelaide, Australia
- MELFORD E. SPIRO, Department of Anthropology, *The University of California at San Diego*, La Jolla, California, 92038
- PATRICK SUPPES, Department of Philosophy, *Stanford University*, Palo Alto, California 94301
- LEWIS K. ZERBY, Department of Philosophy, *Michigan State University*, East Lansing, Michigan 48823

## BOOK REVIEWS:

- James Van Evra, Department of Philosophy, *University of Waterloo*, Waterloo, Ontario, Canada

## ASSISTANT EDITOR:

- Charles R. Meyer, *Washington University*, St. Louis, Missouri, 63130

## GOVERNING BOARD OF THE ASSOCIATION:

ADOLF GRÜNBAUM, *President*

ISRAEL SCHEFFLER, *Vice-President*

GERALD J. MASSEY, *Secretary-Treasurer*

CURT J. DUCASSE

HENRY MARGENAU

MARY B. HESSE

ERNEST NAGEL

JAAKKO HINTIKKA

RICHARD RUDNER

RICHARD C. JEFFREY

J. J. C. SMART

ERNAN McMULLIN

H. TORNEBOHM

© 1970 by The Philosophy of Science Association

MADE AND PRINTED IN GREAT BRITAIN BY  
WILLIAM CLOWES AND SONS, LIMITED, LONDON AND BECCLES

---

Subscription price \$15.00 per Volume. Single numbers \$5.00.

For student subscriptions at the rate of \$5.00  
per volume, address inquiries to the Managing Editor.

## CONTENTS\*

<b>FOUR PHILOSOPHICAL PROBLEMS OF PSYCHOLINGUISTS,</b> GEORGE A. MILLER .....	183
<b>INTENTIONALITY AND PHYSICAL SYSTEMS,</b> MARGARET A. BODEN.	200
<b>ADDITIVE CONJOINT MEASUREMENT WITH RESPECT TO A PAIR OF ORDERINGS,</b> A. A. J. MARLEY.....	215
<b>SPECIAL RELATIVITY WITHOUT ONE-WAY VELOCITY ASSUMP- TIONS, Part II,</b> JOHN A. WINNIE.....	223
<b>CONVENTIONALISM AND ECONOMIC THEORY,</b> LAWRENCE A. BOLAND .....	239
<b>POINTS OF VIEW, SCIENTIFIC THEORIES AND ECONOMETRIC MODELS,</b> ROBERT J. WOLFSON .....	249
<b>POSITIVE EVIDENCE IN SCIENCE AND TECHNOLOGY,</b> JOSEPH AGASSI .....	261
<b>RATIONALITY AND TOTAL EVIDENCE,</b> ANDREW McLAUGHLIN .....	271
<b>EVALUATION OF STATISTICAL HYPOTHESES USING INFORMA- TION TRANSMITTED,</b> JAMES G. GREENO .....	279
<b>ANNOUNCEMENT OF POSA BIENNIAL MEETING</b> .....	294
<b>DISCUSSION: MORE ON MAXIMAL SPECIFICITY,</b> HENRY E. KYBERG, JR. .....	295
<b>DISCUSSION: THE PURPOSE OF SCIENCE,</b> RICHARD PURTILL.....	301
<b>DISCUSSION: PHILOSOPHY OF SCIENCE AS A MODEL FOR ALL PHILOSOPHY,</b> A. V. BUSHKOVITCH .....	307
<b>BOOK REVIEWS</b> .....	312
<i>Aspects of Scientific Explanation and other Essays in the Philosophy of Science</i> , Carl G. Hempel; <i>Henry Venn</i> —William Whewell's Theory of Scientific Method, Robert E. Butts (ed.); <i>Harold T. Walsh</i> —A Philosophy of Science for Personality Theory, Joseph F. Rychlak; <i>Ruben Ardila</i> —The Principle of Uniformity in Geology, Biology, and Theology, R. Hooykaas; Richard A. Watson	
<b>RECENT BOOKS</b> .....	317
<b>ABSTRACTS, Synthese</b> .....	318

\*The contents of *Philosophy of Science* are indexed by *Science Citation Index*