

INTRODUCTION

All of the preceding shock tube symposia were held in the United States of America. Since their initiation ten years ago by R. R. Birukoff and T. H. Schiffman, each succeeding symposium broadened in scope and participation and the 5th in 1965 was consciously international. The 6th was held in Freiburg at the invitation of H. Schardin, the founder and director of the Ernst-Mach-Institut, and by a margin of many years the predecessor of all others in the shock tube field. The story of Schardin's work with the shock tube appears in these Proceedings. His plans for the symposium were carried through, after he died quite suddenly in 1965, by a committee under the general chairmanship of H. Reichenbach. The American Physical Society joined with the Deutsche Physikalische Gesellschaft in sponsoring the meeting.

Otto Laporte and R. G. Fowler, Chairman and Secretary-Treasurer, respectively, of the Division of Fluid Dynamics of the American Physical Society encouraged early American participation. A German and an American committee were formed to select papers and organize the program. The program was arranged by inviting submission of abstracts to these committees. From among one hundred abstracts, forty-six were selected for oral presentation at the symposium by the German committee consisting of:

E. Becker, Technische Hochschule Darmstadt, Darmstadt
H. Oertel, German-French Research Institute, St. Louis, France
H. Reichenbach, Ernst-Mach-Institut, Freiburg im Breisgau
F. Schultz-Grunow, Technische Hochschule Aachen and Ernst-Mach-Institut,
Freiburg im Breisgau
R. Wienecke, Institut für Plasmaphysik, Garching bei München
J. Zierep, Universität Karlsruhe, Karlsruhe

and the American committee consisting of:

R. S. Berry, University of Chicago, Chicago, Illinois
R. J. Emrich, Lehigh University, Bethlehem, Pennsylvania
R. G. Fowler, University of Oklahoma, Norman, Oklahoma
O. Laporte, University of Michigan, Ann Arbor, Michigan
H. W. Liepmann, California Institute of Technology, Pasadena, California
J. F. Moulton, Defense Atomic Support Agency, Department of Defense,
Washington, D. C.
M. Rogers, Air Force Office of Scientific Research, Washington, D. C.
G. E. Seay, Sandia Corporation, Albuquerque, New Mexico
Z. I. Slawsky, Naval Ordnance Laboratory, White Oak, Silver Spring, Maryland.

The American committee selected papers from among those submitted by United States authors and the German committee selected papers from among those submitted by authors from all other countries.

The scope of the symposium was announced to include any process studied in

the shock tube. As may be seen by glancing through the table of contents, topics included spectroscopy, flows coupled to radiation, plasma and arc-driven flows and detonations and other reacting flows along with direct studies of shock tube behavior and shock tube instrumentation.

The symposium was organized by the Ernst-Mach-Institut of the Fraunhofer Gesellschaft and held in the Aula of the Albert Ludwig University, Freiburg im Breisgau. The papers were translated simultaneously into English, German, and French.

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