

THE PHYSICAL REVIEW

Thirty Year Cumulative Index

1921 through 1950

Published in two volumes:

Author Index—543 pages

Subject Index—498 pages

This Index was prepared under the direction of Professor J. W. Buchta, Assistant Editor of THE PHYSICAL REVIEW from 1930 to 1950. Financial assistance on the large amount of editorial work involved was furnished by the Office of Naval Research.

This two volume index furnishes a quick answer to who did what and when in this most significant period in the advancement of physics, as expressed in the pages of THE PHYSICAL REVIEW.

Subscribers who have files of the journals will need this index to make them more useful. Other researchers will find the index of great value in literature searches and for ready reference. For all libraries the index is a necessity.

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vantages and Present Trends); The Integration of High School and College Teaching of Physics—Certification of Physics Teachers, College Entrance Requirements in Mathematics and Physics, Administrative Problems in High School Physics and Mathematics, Guidance Programs in High School and the Stimulation of Interest in Physics; Transistor Physics—The Physics of Semiconductors, The Physics of Transistors, Teaching Applications of Transistors, Some Fundamental Experiments in Transistor Physics; The School and College Study of Admission with Advanced Standing—Philosophy and Objectives of the Study, Curricular Modifications Proposed in the Field of Physics, Administrative Problems and Arrangements, Other Ford Foundation Programs Concerned with High School-College Integration. Two other invited papers were presented; these were on International Fellowships and Professorships, and Physics in the Liberal Arts College. A fuller account of the proceedings will appear in a forthcoming issue of the American Journal of Physics. Dr. J. G. Winans of the University of Wisconsin, who made tape recordings of most of the principal speeches, will duplicate them for anyone who will send him the necessary blank tapes. Typewritten copies of the speeches or abstracts, if available, may be had by writing to the speakers themselves. Names and addresses of speakers and copies of the official program will be supplied by Dr. W. C. Kelly of the University of Pittsburgh as long as they remain available.

At the banquet, held in the air-conditioned Georgian Terrace Room of the Hotel Webster Hall, there were no formal addresses; two students from the Music Department of Carnegie Institute of Technology played a sonata for violin and piano by Senaillié. An open meeting followed, at which Dr. R. E. Gibson, the Director of the Applied Physics Laboratory of Johns Hopkins University, gave an address on Science, Art and Education.

Special events included trips to Mellon Institute, the University of Pittsburgh, Carnegie Institute of Technology, the Buhl Planetarium, Westinghouse Research Laboratories, Carnegie Art Galleries and Museum, Civic Light Opera, Phipps Conservatory, U. S. Steel, Pittsburgh Airport, H. J. Heinz Co., and the Saxonburg site of the Carnegie Tech synchrocyclotron, where the festivities ended with a picnic. The weatherman was kind, no really excessive temperatures being encountered, and the only rain occurring while the members were safely indoors.

Charles Williamson
Carnegie Institute of Technology

NSF Travel Grants

For 1954 International Meetings

A limited number of grants to help cover travel expenses to six international scientific meetings scheduled for the latter half of 1954 are being offered by the National Science Foundation. Application forms are available from the Foundation, Washington 25, D. C.,

and should be returned before December 1, 1953 for the following meetings: International Union of Pure and Applied Physics, London, July 6-10, 1954; World Power Conference, Rio de Janeiro, July 25-August 8, 1954; International Union of Theoretical and Applied Mechanics, Brussels, July 28-August 2, 1954.

Applications are due before January 1, 1954 for these meetings: International Mathematical Congress and International Mathematical Union, Amsterdam and The Hague, August 30-September 9, 1954; International Union of Geodesy and Geophysics, Rome, September, 1954; International Scientific Radio Union, Amsterdam, September, 1954.

The Foundation has also announced its final group of awards for the fiscal year 1953, the total amounting to \$208,000 distributed among 34 research awards and grants for the support of scientific conferences, travel expenses of scientists attending meetings, and related activities. This latest series of grants brings the year's total to 292 awards involving \$2,151,000. The following conferences have received NSF support: Amherst College, Conference on Physics Research in Colleges; Duke University, Conference on Cosmic Rays; Lowell Observatory, Colloquium of Astronomers; University of Rochester, Fourth Annual Conference on High Energy Nuclear Physics; and University of Wisconsin, Symposium on Utilization of Solar Energy. The Foundation also provided an award to G. T. Reynolds of the Palmer Physical Laboratory, Princeton University, for the purpose of attending the Colloquium on Cosmic Rays of the Commission on Cosmic Rays of the International Union of Pure and Applied Physics, held last July at Bagneres de Bigorre, France.

Infrared Spectroscopy

New Committee Organized

A Committee on Infrared Spectroscopy was elected at the annual Symposium on Molecular Structure and Spectroscopy held this past June at Ohio State University. The committee, consisting of R. A. Oetjen, chairman, Bryce L. Crawford, Jr., E. J. Rosenbaum, V. Z. Williams, and Norman Wright, is to serve as spokesman for the field of infrared spectroscopy in pertinent matters. Specific functions undertaken by the committee will be: to present to the editors of various journals the spectroscopists' views on the subject of publication of infrared spectra; to cooperate with existing committees such as the National Research Council Subcommittee on Molecular Structure and Spectroscopy and the ASTM Committee E-13 on Absorption Spectroscopy; to ascertain the wishes of the group's membership regarding frequency and type of meetings, and to serve as a clearing house for suggestions from individual members relative to the mutual interests of infrared spectroscopists; and to aid the staff of Ohio State University's Department of Physics and Astronomy in the work of the annual symposia in this field. The chairman is R. A. Oetjen, Department of Physics and Astronomy, Ohio State University, Columbus, Ohio.

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by

PAUL E. SABINE, Ph.D.

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May, 1953

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