

PROGRAM OF THE SECTION ON PHYSICS AND ASTRONOMY

Chairman: GEORGE W. HORTON, Wabash College

1. Theoretical studies: (1) Heavyside layers and electronic waves; (2) Preliminary report on the mathematics of the motions of a glacier. Oliver E. Glenn, Lansdowne, Pa.
2. The addition of two frequencies in audio-apparatus. D. B. Green, Ohio University.
3. A convenient source of light giving the mercury lines. R. R. Ramsey, Indiana University.
4. Peculiar deposits in tungsten lamp globes. J. B. Dutcher, Indiana University.
5. An audio-frequency generator for laboratory use. R. R. Ramsey, Indiana University.
6. Discharge of electricity from the leaves of forest trees. Gaylord S. Kurtz, Fort Wayne.
7. Polarization phenomena in scattered light. J. B. Dutcher, Indiana University.
8. The square foot as a unit of sound adsorption. C. T. McCormick, Indiana University.
9. Study of super-sonic sound speeds in gases. J. E. Crites, Jr., Indiana University.
10. Wave velocity and intensity. Arthur L. Foley, Indiana University.
11. Ratio of acoustical to electrical and mechanical units. R. B. Abbott and C. Fry, Purdue University.
12. Laws of conservation and theory of measurement. E. S. Akeley, Purdue University.
13. The Purdue Cyclatron. J. D. Howe, Purdue University.
14. Coördination in liquids and the structure of molten salts. K. Lark-Horovitz and E. P. Miller, Purdue University.
15. Fourier analysis with mechanical methods. E. P. Miller, Purdue University.
16. Wave mechanical determination of the electrical resistance of the monovalent metals. E. L. Peterson and L. W. Nordheim, Purdue University.
17. Second order spin effects in the H-3 nucleus. R. D. Present, Purdue University.
18. Radiative capture of protons by carbon. F. L. Yost, Purdue University.
19. On the emission of gamma radiation during the beta decay of nuclei. J. K. Knipp, Purdue University.
20. Faraday effect in the x-ray region. H. T. Clark, Purdue University.
21. X-ray investigation of mixtures of polymorphous substances. S. E. Madigan and K. Lark-Horovitz, Purdue University.
22. Paper, title to be furnished. H. M. James, Purdue University.

The following title was not included in the published program, but the paper is published in this volume.

A cold-cathode rectifier. Charles T. Knipp, University of Illinois.

Dr. Leslie I. Steinbach, of Central Normal College, was elected chairman of the section for 1937.