PROGRAM OF THE SECTION ON PHYSICS

Chairman: MASON E. HUFFORD, Indiana University

1. How to teach physics. R. B. Abbott, Purdue University.
2. Teaching algebraic signs in optics. R. B. Abbott, Purdue University.
3. *A unipolar magnetic compass. E. G. Plasterer, Huntington High School.
4. The consequences of the wave theory of light. Arthur L. Foley, Indiana University.
5. *The Hall effect in a circular bismuth plate. L. H. Peterson, Indiana University.
6. *The meaning and measurement of hardness. E. G. Mahin, University of Notre Dame.
7. A twenty-thousand volt D. C. plant with small ripple. W. I. Caldwell and J. E. McKinster, Purdue University.
8. Contact potentials at the surface—aqueous solution-air. K. Lark-Horovitz and J. E. Ferguson, Purdue University.
9. Scattering intensity of electrons as function of atomic number and electron energy. H. J. Yearian and J. D. Howe, Purdue University.
10. Mathematical expression of charge distribution in space lattice. Vivian Johnson, Purdue University.
11. Energy bands in metals. H. M. Krutter, Purdue University.
12. The structure of liquid potassium chloride. K. Lark-Horovitz and E. P. Miller, Purdue University.
13. Transition effect of cosmic ray showers. L. Nordheim, Purdue University.
14. The scattering of proton in hydrogen. R. D. Present, Purdue University.
15. Testing moving coil receivers. C. K. Stedman, Purdue University.
16. Simultaneous sets of fringes in a Michelson interferometer. I. Walerstein and R. A. Woodson, Purdue University.
17. *The response of photovoltaic cells to X-rays. A. J. Hiegel and E. W. Kenefake, University of Notre Dame.
18. A theory of the formation of boiler scale. J. F. Chittim, Purdue University.
19. The crystal detector as a rectifier of short waves. Mildred W. Bulliet, Indiana University.
20. *Experimental investigation of the crystal structure of solidified gases. E. E. Washer, Bureau of Standards, Washington, D. C.
21. Display of apparatus for spectroscopy and fluorescence demonstrations. R. D. Black, Wabash High School.
22. *The optical principles which are involved in the halo phenomena. Oliver E. Glenn, Lansdowne, Pennsylvania.

Papers 19, 20, 21, and 22 were read by title. No. 21 was illustrated with an exhibit. Title No. 22 was received too late to be included in the published program.

*Papers published in this volume.