

PHYSICS

Chairman: O. H. SMITH, DePauw University

Mason E. Hufford, Indiana University, was elected chairman of the section for 1944.

The mathematical versus physical components of a rectified wave.
D. B. GREEN, Ohio University, Athens, Ohio.—A Fourier analysis of the voltage output of a half wave rectifier gives an infinite series of harmonics. A cathode ray oscilloscope does not show any of these harmonics but only the rectified half sine wave. A wave analyzer shows that the harmonics do exist. This paper attempts to harmonize the two divergent results.