

SOIL SCIENCE

Chairman: A. L. ZACHARY, Purdue University

M. F. BAUMBARDNER, Purdue University, was elected chairman for 1968

ABSTRACTS

Residual Nitrogen in Continuous Corn Culture. STANLEY A. BARBER, Purdue University.—The effect of nitrogen applied the first year on the corn produced the second and third year after application was investigated at the Purdue Agronomy Farm. Experiments were conducted on both Raub and Chalmers soils. The effect was measured both by measuring yield increases and by measuring the change in nitrogen composition of the ear leaf. A supplementary experiment was conducted at the Purdue Sand Field.

Nitrogen applied the first year gave noticeable increases in corn yields the second year; however, the effect on the third crop was not statistically significant. Soil type affected the magnitude of the residual effect with the Chelsea sand giving essentially no residual benefit.