of Iowa in 1917, his MS from Ohio State University in 1922 and his PhD from the State University of Iowa in 1933. Before going to Berea, in 1924 he taught at Graceland College, Iowa, the Citadel, at Charleston, S. C. and at Red Oak Junior College in Iowa.

At Berea, Noll was the first holder of the Charles F. Kettering Professorship. He played an active role in the Kentucky Association of Physics Teachers and served for many years as councilor of the American Association of Physics Teachers. A consultant to the health-physics division of the Oak Ridge National Laboratory, Noll was interested in radiation protection, particularly in the field of x rays.

After his retirement Noll taught at Eastern Kentucky State University Wake Forest College and North Carolina Wesleyan College.

Vladimir Vand, Pennsylvania State Crystallographer, Dies

After a long illness, Vladimir Vand, professor at Pennsylvania State University, died in Centre County Hospital, Pa., on 4 April. He was 57.

Vand was born of Czech parents in Sumy, Russia, where he also spent his boyhood. The family later settled in Czechoslovakia where Vand attended the Charles University of Prague and gained the degree of *doctor rerum naturalium* in experimental and applied physics and astrophysics. After serving as a research physicist in the Skoda works, he moved to England, in 1940, where, in the research department of Lever Brothers and Unilever Ltd., he began his work on crystallography, rheology and the physical properties of long-chain compounds. In 1950 he was awarded an Imperial Chemical Industries research fellowship by the University of Glasgow, where, during the next three years, his interests extended to the crystallography of organic compounds, phase identification by x-ray analysis, molecular-orbital calculations, the theory of crystal growth and electron microscopy. Vand was also one of the pioneers of computer techniques. In recognition of his work, he was later (1954) awarded a doctorate of science in chemistry by the University of Glasgow.

In 1953 he joined the physics department of Pennsylvania State University as a research associate and was made an associate professor in the following year. He became professor of crystallography in 1961 and a member of the Materials Research Laboratory in 1962. His recent activities included research on light scattering, polytypism, planetary materials, tektites, information retrieval and the structure of water. His research in crystallography contributed to the discovery of the DNA structure and that on water is now being applied in biology and medicine.

Alpheus W. Smith Was Dean of Graduate School at Ohio State

Alpheus W. Smith, professor emeritus at Ohio State University, died on 18 April in Columbus, Ohio. He was born in Phillippi, West Virginia in 1876, received his Bachelor's degree from West Virginia University in 1900 and his MA and PhD from Harvard in 1903 and 1906. From 1900 to 1901 he served as instructor of science and Latin at the West Liberty Normal School in West Virginia and instructor of physics at Bowdoin College in 1906, Haverford College in 1906–07 and the University of Wisconsin in 1907–09.

At Ohio State University Smith joined the faculty in 1909 as assistant professor in the physics department and held this rank until 1917 when his tenure as professor began. In addition to serving as chairman of the physics and astronomy department from 1926 to 1946, he was appointed as dean of the graduate school for 1938–46. After his retirement Smith served as president of the Ohio State University Research Foundation from 1946 to 1957.

Smith is generally credited with doing more than any other individual to establish the university as a major research center. A citation he received upon his retirement stated: "Dean Smith's statesmanship has brought the Graduate School to a position of national and international recognition. The radiation laboratory, the cryogenic laboratory, the graduate programs in medicine and surgery and the integrated coöperation with other schools are but a few examples of his accomplishments."

He was a fellow of the American Physical Society, the Academy of Optometry, the American Association for the Advancement of Science and the Ohio Academy of Science. He was a member of Sigma Chi, Sigma Xi and Phi Beta Kappa fraternities.

E. Leonard Jossem
Ohio State University □