

1-1-1968

## Dr. Karl Josef Strnat Appointed Full Professor in the Department of Electrical Engineering

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### Recommended Citation

"Dr. Karl Josef Strnat Appointed Full Professor in the Department of Electrical Engineering" (1968). *News Releases*. 3295.  
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DAYTON, Ohio--The University of Dayton announced today the appointment of Dr. Karl Josef Strnat to the Frank Morrison Tait Chair as a full Professor in the Department of Electrical Engineering.

The Frank Morrison Tait Chair was endowed by the estate of Mr. Tait who died in 1962 and provided in his will a grant approximating \$400,000 to the University of Dayton. \$45,000 of this grant was used in the construction of the C.H. Gosiger Health Center. The remaining \$350,000 makes up the endowed faculty chair.

Mr. Tait came to Dayton in 1905 and was a founder and member of the board of directors of both the Dayton Power and Light Company and the Tait Manufacturing Company. A former co-worker with Thomas Edison, he maintained a lifelong interest in scientific and engineering activities. He was very active in many civic enterprises in Dayton, and was awarded an honorary Doctor of Science Degree by the University of Dayton in 1947.

Dr. Strnat, 38, the newly appointed Professor in the Department of Electrical Engineering, has established an international reputation for his original work in the synthesis and characterization of rare earth transition metal compounds. Born in Vienna, Austria, he received his Ph.D. from the Vienna Institute of Technology in 1956 and subsequently did post-doctoral study at the Massachusetts Institute of Technology.

After a period of teaching and research at the Vienna Institute of Technology, he came to the Wright Air Development Center as a technical consultant in 1958. He has been on the staff of the Air Force Materials Laboratory, Wright-Patterson Air Force Base, from that time to the present. In 1963 he organized a research team to study phase relationships, crystal structure, and magnetic properties of rare earth compounds. The most outstanding results came from studies of rare earth-cobalt single crystal compounds. After publication of this work, the response from industry was immediate because of the practical importance of this work in the development of improved permanent magnets. These findings offer high promise for the solution of acute Air Force problems and for future magneto-plasmadynamic propulsion and power



generation systems.

Dr. Strnat has published 20 technical articles in professional journals, has submitted numerous government research reports and conference papers, and has spoken widely throughout the United States and Europe. He holds membership in a number of professional and technical societies and is recognized as one of the leading world authorities in his field.