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The University of Dayton Offers Graduate Program in Aerospace Engineering

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DAYTON, Ohio, January 26, 1972 --- The University of Dayton, in the fall, will offer a graduate program in Aerospace Engineering leading to a Master of Science in Engineering degree, Dr. Maurice Graney, Dean of the School of Engineering, announced today. Dr. Jay Pinson, former Chief of the V/STOL Technology Division of the Air Force Flight Dynamics Laboratory at Wright Patterson Air Force Base, will serve as director of the program. He came to the University this school year.

This is the first aeronautical type degree offered to the general public by any civilian college in the Dayton area, Dr. Graney said. "Since Dayton is recognized as the "Birthplace of Aviation" and a very large segment of employment depends on the aerospace activities it is expected that such an aerospace graduate educational program will be in demand. Recent additions to the engineering faculty and the availability of new laboratory facilities in the Eugene W. Kettering Engineering & Research Laboratories have made the program possible."

Dr. Graney continued: "In the complex and interdependent society of the last third of the twentieth century, engineers are acutely aware of the impact of engineering design and innovation upon the total structure of society. The effect of engineering activity upon the environment and upon the lives of individuals is a major concern.

"Technological improvement and economic considerations remain as important elements but the spin-off of new developments in the social milieu are of increasing significance," Dr. Graney continued. "Nowhere is this more pronounced than in the field of air transportation. The recent hue and cry about air and noise pollution, the vital concern about time and distance in travel, the effect of large expenditures in time and effort on our overall social well being, all attest to the magnitude of concern of this area of endeavor.

"Education, of course, is the basic substance upon which all improvement rests," he concluded. "It is our hope that the University of Dayton through its School of Engineering can play a vital role in the aerospace activities of the future."

This is the second graduate program to be introduced into the School of Engineering curriculum in the past 12 months. The University added a graduate program in materials science last fall. Both of these programs are under the Mechanical Engineering Department, chaired by Dr. Howard E. Smith.

There are over 7,000 engineers working in the aerospace field in the local area and approximately 85 per cent do not have graduate degrees," Dr. Pinson estimated. "There is also a growing need for continuing engineering education which will enhance the competence of practicing aerospace engineers rather than
for attainment of further academic degrees. This new program will mainly be
directed toward satisfying these educational needs of the aerospace industries
and government personnel in the greater Dayton area.

"The new Kettering laboratories will be used for the classroom study and
laboratory investigation related to the new program," he said. "Students will
be allowed to conduct research related to their field of study in these modern
laboratories. The close relationship also developed with the Wright Patterson
base will make it possible to use its specialized and unique facilities in
conducting research related to the graduate program."

The graduate program encompasses courses in areas of flight mechanics, fluid
mechanics, controls, propulsion, heat transfer and structures. Although the
major portion of the courses will be offered in the Mechanical Engineering
Department, the requirements will be flexible enough to allow the students a
wide selection of other engineering and nonengineering graduate courses.

The aerospace graduate courses will be scheduled for late afternoon and
evening, making it most convenient for part-time students to attend. Wherever
possible, courses will be scheduled so that students can take two courses each
semester by attending classes only two days each week. On this basis a part-time
student could achieve a Master of Science in Engineering degree with a major in
Aerospace Engineering in four to five semesters.

Many of the courses being offered for the program are also directly
applicable to transportation vehicle engineering; that is, high speed ground
transportation, as well as environmental engineering.

Dr. Pinson has 20 years of experience working for the government in the
scientific and engineering field. He retired from the Air Force in December,
1970, and lives in Beavercreek with his wife, Eleanore, and three children.
Deborah is a junior at Ohio University and Barbara and Jay II attend
Beavercreek High School.