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## Dr. Praphulla K. Bajpai Elected Fellow of the Ohio Academy of Science

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DAYTON, Ohio, May 19, 1969 --- The election of Dr. Praphulla K. Bajpai as a fellow of the Ohio Academy of Science has been announced by the biology department of the University of Dayton. Dr. Bajpai, vice president of the Academy for medical science, is assistant professor of biology at U.D. He was one of eight Ohio scientists to receive the honor for "extensive productive scientific work and special service to science." The eight are faculty members of Ohio State, Wittenberg, Ohio University, Kent State and the University of Akron, in addition to U.D.

Dr. Bajpai is a member of a four-man team that has been testing ceramic materials as artificial replacements for bone structure and other organs of the human body. Favorable results of the tests were reported by the group at the spring meeting of the Ohio Academy of Science recently.

The study involves the use of small ceramic rods placed in cavities drilled in the femurs of six rhesus monkeys. The abstract of the Ohio Academy research paper reported that "results after implant periods of 50 and 100 days are quite favorable." The compatibility of the ceramic materials with bone tissue, the report stated, has been excellent so far. An additional report will be made after the material has been in the bone structures for a complete year. One of the ceramic materials used seems to stimulate natural bone growth and will be studied more extensively.

The favorable results of the 50 and 100 day tests were confirmed by electron microscope photomicrographs, X-ray radiographs, visual observation, and bio-chemical analysis of urine and the blood stream.

The experiment was conceived by Mr. George A. Graves, a ceramics engineer in U.D.'s Technical Institute. Surgical work required by the project is performed by Dr. Henry G. Stein, a Dayton orthopedic surgeon. Robert L. Hentrich, a research chemist at U.D.'s Technical Institute, and Dr. Bajpai complete the four-man research team.