

# Cantaurus

## Journal of McPherson College Science

Volume 10      May 2002

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**Cover:** The artwork on the cover is an original work by Valoree Ebersole, a senior art major at McPherson College. The quotation is taken from Wendell Berry's essay, *The Loss of the University*, (p. 82 in *Home Economics*, North Point Press, 1987) in which he references the book *Samuel Johnson*, by W. Jackson Bate (Harcourt Brace Jovanovich, 1977, p. 51) as follows: "Dr. Johnson told Mrs. Thrale that his cousin, Cornelius Ford, advised him to study the Principles of every thing, that a general Acquaintance with Life might be the Consequence of his Enquiries - Learn said he the leading Precognita of all things ... grasp the Trunk hard only, and you will shake all the Branches."

**Cantaurus** is an official publication of the Division of Science and Technology, McPherson College, McPherson, KS. The purpose of this journal is to publish the results of original research conducted by students majoring in the biological and physical sciences at McPherson College. The research published herein represents partial fulfillment of the requirements for the B.S. degree at McPherson College.

**Midwest Oilseeds**, of Adel, Iowa is gratefully recognized for its generous financial support of student research at McPherson College. Harry H. Stine, class of 1963, is President and CEO of Midwest Oilseeds.