

CONTINUOUS IMAGES OF CONTINUA

DEPARTMENTAL COLLOQUIUM



W. T. (Tom) Ingram

**Professor Emeritus
Missouri S&T**

Abstract: Interest in continuous images of topological objects has permeated the study of topology essentially from the beginning of the subject. Early on it was shown that every compact metric space is a continuous image of the Cantor set and continuous images of the interval were characterized as compact, connected and locally connected metric spaces. In this talk we discuss a relatively new area of topology, inverse limits with set-valued functions, and some relationships it has with continuous images of continua.

Biographical Sketch: Professor Ingram came to Missouri S&T (then UMR) from the University of Houston in 1989 as Professor and chair of the Department of Mathematics and Statistics. He served as chair until 1998 and continued as professor until his retirement in December 2002. He spent the following year as visiting professor at Baylor University. Since then he has remained very mathematically active, publishing numerous research articles and two Springer texts. Much of his work since retiring concerns generalized inverse limit spaces with set valued bonding functions that he, together with William S. Mahavier, introduced in 2006. This new area of topology has generated a great deal of interest with hundreds of articles published since its introduction. The Ingram Lecture Series is possible because of a generous donation by Tom to the Missouri S&T Mathematics and Statistics Department upon his retirement from S&T.