Discrete Mathematics Seminar

Time: Friday, 23 October 2015, 2:00-3:00 PM
Room: 237 Derrick Hall
Title: My Favorite Bijections
Speaker: Dr. Edward Early, Department of Mathematics, St. Edward's University

Abstract:

Bijections, the discrete cousin of invertible functions, are at the heart of a combinatorialist's repertoire. I will discuss several examples of surprisingly elegant bijections that have come up in my research. Along the way we will explore posets and integer partitions, utilize the Garsia-Milne involution principle, and mention connections to Steenrod algebras and representation theory of the symmetric group.

Bio:

Edward Early is a native Texan who earned his PhD under Richard Stanley at MIT. His research deals primarily with the combinatorics of posets and integer partitions. He has mentored numerous undergraduate and high school research projects, including eleven at Mathworks' HSMC. He is currently an Associate Professor of Mathematics and Associate Dean of Natural Sciences at St. Edward's University.