

1106-58-1650 **Krystyna Kuperberg*** (kuperkm@auburn.edu). *Fixed-point problems from the Scottish Book.*

We will discuss some problems from the Scottish Book related to fixed points:

- 1) The solution to Problem 110 posed by Stan Ulam, in particular addressing the existence of non-singular dynamical systems with uniformly bounded orbits.
- 2) The history of Problem 107 asserting that a planar continuum that does not separate the plane has the fixed point property. In spite of many attempts and partial answers, the problem remains open.
- 3) The Schauder Fixed Point Theorem, formulated by Julius Schauder in Problem 54, its history and the ultimate solution by Robert Cauty. (Received September 14, 2014)