Dennis Burke, Raushan Buzyakova* (raushan_buzyakova@yahoo.com) and Alex Chigogidze. Coloring of Maps on Euclidean Spaces.

Given a continuous self-map \( f : X \subset \mathbb{R}^n \to X \), a closed subset \( F \) of \( X \) is a color of \( f \) if \( F \) misses \( f(F) \). The map \( f \) is colorable if \( X \) can be covered by finitely many colors. A historical overview of the topic rooted back to the famous map coloring problem/theorem will be given. We will then outline new results related to single and multi-valued self-maps on Euclidean spaces and their subspaces. A few open questions that maybe of interest to mathematicians from different areas will be mentioned. (Received September 01, 2015)