KAROLY BEZDEK, University of Calgary
From spherical to Euclidean illumination

In this talk I introduce the problem of illumination of convex bodies in spherical spaces and solve it for a large subfamily of convex bodies. Then I derive from it a combinatorial version of the classical illumination problem for convex bodies in Euclidean spaces as well as a solution to that for a large subfamily of convex bodies, which in dimension three leads to special Koebe polyhedra. This is a joint work with Z. Langi (Budapest Univ. of Tech., Hungary).