1142-20-188 **Emily Stark\***, emily.stark@technion.ac.il. *Cannon-Thurston maps in non-positive curvature*. Two far-reaching methods for studying the geometry of a finitely generated group with non-positive curvature are (1) to study the structure of the boundary of the group, and (2) to study the structure of its finitely generated subgroups. Cannon-Thurston boundary maps allow one to combine these approaches. Mitra (Mj) generalized work of Cannon and Thurston to prove the existence of Cannon-Thurston maps for any normal hyperbolic subgroup of a hyperbolic group. I will explain why a similar theorem fails for certain CAT(0) groups and how we use Cannon-Thurston maps to obtain structure on the boundary of certain hyperbolic groups. This is joint work with Algom-Kfir-Hilion and Beeker-Cordes-Gardham-Gupta. (Received September 03, 2018)