

1116-J5-1808 **Angie Hodge*** (amhodge@unomaha.edu). *Utilizing IBL to Effectively Engage Youth in Mathematics.*

This session will describe a STEM outreach program, Eureka!–STEM, that’s founded on IBL principles. Eureka!–STEM program is a five year program sponsored by Girl’s Inc., in which the goal is to increase interest in and encourage underprivileged female students to continue in STEM fields throughout high school and college. For the first two years of the program, the middle school girls spend the month of June on a university campus, participating in a variety of engaging STEM and physical activities. All of the activities are hands-on, minds-on and are meant to show the girls what STEM is, beyond the classroom. This session will include information on the program itself, as well as provide samples of interactive IBL mathematics lessons that can be used in any university outreach program. The lessons/activities could also be used in IBL mathematics content courses for future teachers. (Received September 21, 2015)