

1154-AC-1390 **Amanda Beecher*** (abeecher@ramapo.edu) and **Chris Arney**. *Who should we send to colonize Mars?*

The new space race aims to colonize Mars, which provides an opportunity to design a productive and thriving workforce. The goal is to maximize the output of the society, while simultaneously meeting the needs of the individuals. Policies governing income, education, and social equality must be considered to ensure a flourishing society, just as on Earth. This talk will showcase models used, by teams of students answering this 2017 ICM Problem F, to set priorities to determine the best mix of 10,000 persons to establish this initial colony and how the demographics chosen may need to change as more colonists reach Mars. (Received September 15, 2019)