

1145-D1-624      **Satyan Devadoss\*** (devadoss@sandiego.edu) and **Diane Hoffoss**. *Unfolding Humanity: Burning Man Mathematics*. Preliminary report.

"Unfolding Humanity" is a massive interactive metal dodecahedral sculpture, standing 12' tall and unfolding to 33' wide, showcased in Burning Man 2018. The exterior faces are dark green acrylic etched with characters illuminated by 17,000 programmed LEDs invoking the iconic Matrix animation, whereas interior faces of reflective acrylic mirrors create a kaleidoscopic image of people. It alludes both to Dürer's 500-year old unsolved problem on unfolding polyhedra, as well as pointing towards the Poincaré dodecahedral sphere and the shape of our universe. The work was supported by fundraising \$40,000 and executed in deep partnership with dozens of students, alums, and members of the San Diego arts community. (Received September 11, 2018)