Alison McDonough* (amcdonou@email.smith.edu), Department of Mathematics and Statistics, Smith College, Northampton, MA 01063, and Amanda Cangelosi (mocangelo@gmail.com), Alethea Tschetterwood (atschett@email.smith.edu), Alexandra Berkoff (aberkoff@gmail.com) and Amy Wesolowski (awesolow@email.smith.edu). *Tiling the Plane with Squares.

In [1] it is shown that it is possible to tile the plane using exactly one square of each integral side-length. We will present new results stemming from this discovery dealing with the nature, the possibility, and the impossibility of square tilings.