"Spannungsfeld" for the University of Minnesota's new Physics and Nanotechnology Building is made up of two 10' (3 m) tall figures in a basic kneeling pose, a male and a female, facing each other. The two figures represent nature's omnipresent pairs of opposites. These dualities are a fundamental facet of nature and are found in Western science as well as in Eastern traditions. They are critical to the emergence of new levels of meaning in science, and, in the case of the two human genders, critical to the emergence of life. Like the positive and negative electric charge in physics or the yin-yang in Chinese philosophy, neither woman nor man can exist without the other.