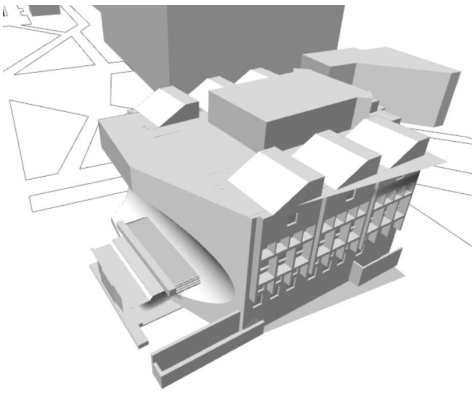
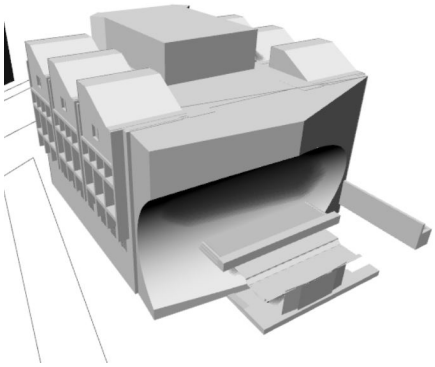
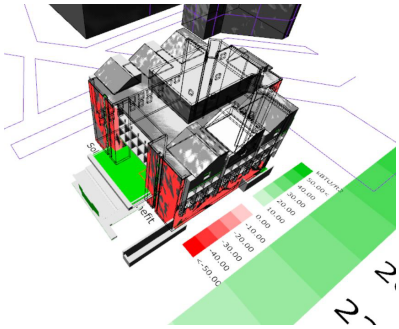
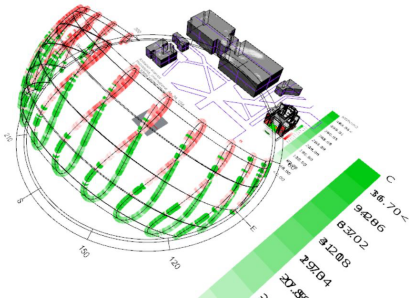
Nicole Bronola
10/22/2017

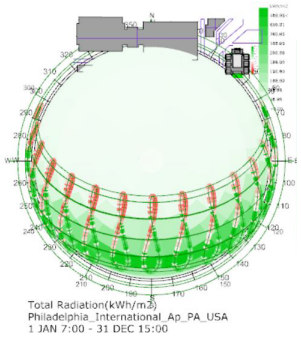


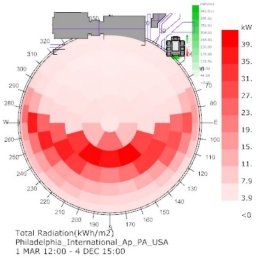


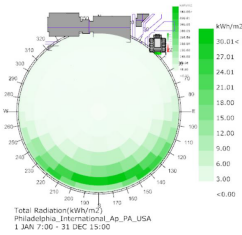
The existing location of Meyerson hall, specifically the North -South orientation of the main entrances displayed a level of harmful radiation at the main entrance. The harmful radiation levels were high showing bright red on the south facing facade. Also, it showed that the sides of the building received a more beneficial radiation, and the levels of it. The lower angles of the sun created a higher benefit comfort level.



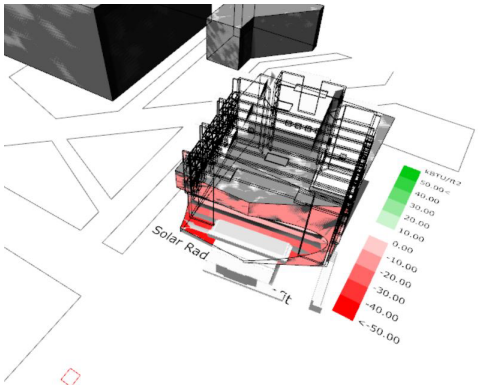


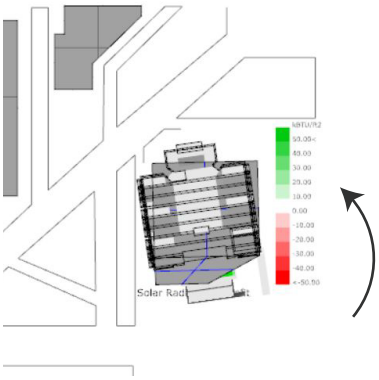


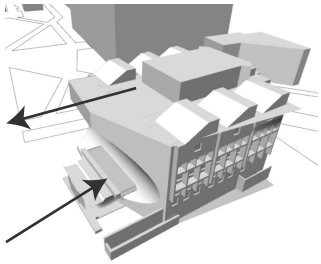




The massing of Meyeron was altered based on the highest harmful levels of radiation on the front facade. The roof was indented to provide shading, and maximize beneficial radiation. A large curved opening was added to direct the front towards eastern radiation and capture sun rays at low angles. The building was also rotated to give it a higher surface area exposure to the east for winter radiation. The existing number given by the original Meyerson facade was - 365425, after redesigning it, the value was -176642. The value increased. (Although the value went up, I am unsure why the values produced were always negative, and could not figure out the error.)







The building rotated 10 degrees to provide higher surface area for the beneficial radiation.