For centuries, the Coliseum, Pantheon, and aqueducts have been admired time and time again. Their sheer size alone is awe inspiring and constantly raises the question, “How were they built?” While hypotheses exist for their construction, maybe the more important question is “How have they withstood the test of time?” In a day and age where sustainability is a key concern in new designs, looking at the work of ancient engineers could reiterate what sustainability is and to what areas structural engineers should devote their attention. This presentation highlights the methods used by the Romans in the construction of the Coliseum, Pantheon, and Pont du Gard Aqueduct and touches on some key principles related to their continued survival.