The most effective method of developing a knowledge of the physical universe is by viewing objects , their characteristics, relationships, and interactions. Much of the universe can be observed directly by human vision or instruments such as microscopes and telescopes can be used to extended visual capability to include both the very small and very large objects ranging from cells to galaxies. However, much of the medical physics universe, especially that associated with radiation and atomic structures, is not visible. The inability to see makes it difficult for learners to develop appropriate concepts and understand the principles associated with this area of physics. To reduce this limitation a variety of computer graphics tools and techniques are used to generate visual models of this invisible physical universe. The purpose of this exhibit is to support the learning and teaching of medical physics by displaying images which aid in the visualization of a variety of invisible physical objects and events. An interactive format is used which gives the viewer the opportunity to learn by observation before referring to the descriptive text. After the Annual Meeting these images can be downloaded and used for educational activities from http://www.emory.edu/X-RAYS/Sprawls/visual.