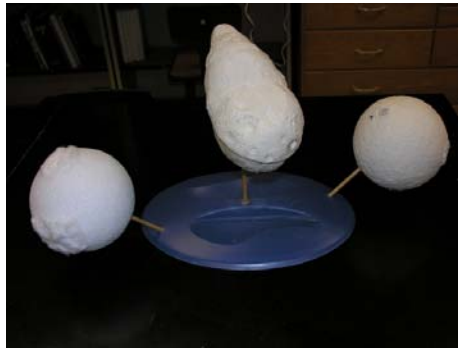


3-D Models of Tempel 1 Part 1 of 3



Impact Craters



This model is used to demonstrate the patterns expected from a specific design of impactor. To make the models of the type of ejecta pattern each style of impactor would make you will need to have a six inch diameter Styrofoam ball, some Elmer's glue and the metal impactors to make the indentations into the ball.



Push each impactor into the ball to make an indentation so that each impactor is flush with the surface. Space the impact points equal distance around the upper third of the ball. Remove the metal impactors with a magnetic extractor. Next cover the surface of the Styrofoam ball with a coating of paper machei paste. This will make the surface more comet like. Do not put the paste into the crater holes.



Break up some extra Styrofoam into very small pieces to be built up around the indentations as expelled ejecta material. Use Elmer's glue to build up the crater lips. The bullet shaped



impactor will have the least amount of material ejected but has the deepest hole. The sphere has at least three times the amount you put out for the bullet impactor. The blunt headed impactor should have about twice as much as the sphere. By using broken Styrofoam for the lips, you will illustrate that the interior material is different than the surface material. For discussion



sake letter the craters A, B, & C. It does not matter what letter designator you give to a particular impactor.