

## STEPS FOR BUILDING THE CONEWAGO BEACON

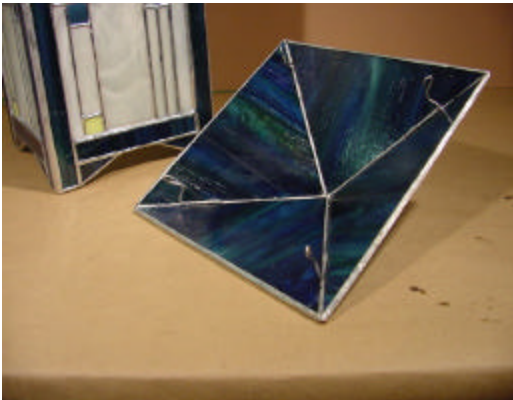
This paper provides additional details for the construction of the *Conewago Beacon* project featured in *Glass Patterns - Quarterly* Fall 2001 issue.

1. Cut all of the strips necessary to build the project.
2. Assemble the four frames using within boundaries established with wood strips or aluminum bars doing the basic soldering necessary to keep the pieces positioned.
3. Next build an insert panel section within a frame. Solder all of the pieces together, but do not solder at any point that would connect the panel to the frame.
4. With panel still inside the frame, insert a quarter under each corner of the frame. This will raise the frame above the panel and provide additional visual dimension to the project.. Now solder the panel to the frame and turn the side over and complete the soldering of the back side. Continue this process until all four sides are completed.
5. When all four sides are completed, connect them together to form a square shape. Initially only tack the top and bottom edges of each side. Once this is accomplished it is a good time to do any minor adjustments to the connected panel so that they are uniformly connected to each other.
6. Being careful the junctions of each side may have an initial run of solder from top to bottom of each seam.
7. Stand the unit vertically and add #18 wire around each of the corners on the top edge to provide strength to the junctions. The flip the unit over and do the same at each of the bottom corners.
8. Cut the spider to equal length on each leg so that it will fit inside the unit running from corner to corner. The spider should be approximately one inch from the bottom when it is soldered into place. This becomes the main element to insure that the four sides form a square.
9. Cut the four pieces that form the top. Foil and tack solder them into a pyramid and then make any adjustments that may be necessary to have all corners even. Then complete the soldering of all parts of the top.
10. When the top is finished mount it upside down in a box or plastic container with the sides resting on the top edge of the container. Next place the main unit upside down onto the top section. Measure from each edge of the top to center the two units equally. When satisfied, mark the outside point where each corner of the base rests on the top. That mark will be used to locate the wire sprigs that will keep the top positioned properly.
11. With the top still upside down, solder a flat part of the wire spring onto the solder seam so that it is about 3/8 to 5/8 inch from the mark and toward the toward center of the top. When the four wire springs are in place, carefully place the top onto the top of the base. You can then fine tune the adjustment of each spring to the point where any one placing the top onto the base will automatically have it centered.
12. Clean the entire project and apply the patina. When that is completed add the light socket and wiring to the base.

Conewago Beacon Project



Marking the corners for centering the base to match the top



View of the four centering wire springs located under the top.