Liberty Science Center

April 16, 1992

Ms. Shelly Lake
1417 Cabrillo Ave.
Venice, CA 90291

Dear Ms. Lake:

We are very interested in using your work as part of the Random-Object Stereogram exhibit at Liberty Science Center, Jersey City, NJ. This exhibit will be a part of the overall Perception Area planned for the Health Floor.

Dr. Thomas Papathomas from Rutgers University, New Brunswick has found your work quite appropriate for this exhibit and has recommended we approach you concerning this matter. Since we spoke, Lyn Wood, our designer from Hands On!, has probably discussed with you the specific images she would like to use. Enclosed is an information packet which details the goals and missions of the Center. Also enclosed is some information concerning the Health Exhibit Floor. If you have any questions, please do not hesitate to contact me at (201) 451-0006.

Sincerely,

Dr. Janice Walker, Manager
Health Floor Exhibits

cc: Lyn Wood, Hand On!, Inc.

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251 Phillip Street
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in sequence, forming the impression of apparent motion from left to right. When viewers follow the motion by eye-tracking, they can read text composed of high-resolution (8x8-dot) letters, despite the large empty spaces in between. The text disappears when viewers stop following the motion with their eyes.

RANDOM-OBJECT STEROGRAM

This consists of a pair of computer-generated images, one for each eye, depicting an array of multi-color donuts suspended in mid-air. Although the two images seem identical, suddenly, after viewing them for a few moments, a group of donuts pop out in front of the rest. This is available either as a pair of slides (to be viewed with a stereo slide apparatus) or as a "vectograph" (to be viewed through polarized glasses.)

ANTI-GRAVITY MIRROR

A visitor stands with the edge of a large mirror bisecting his or her body. To another visitor watching, the person still looks whole because of the two fold symmetry of the human body. The fun begins when the first person starts moving. If that person lifts a leg off the ground, for instance, the observer will see both legs lift, leaving the performer without visible means of support. This exhibit demonstrates symmetry in mirror reflections.

SHIMMER (WORMS)

When the visitor stares at a spinning disc with an irregular spiral on it, the saccadic motion of the eye causes the image to "quiver." If the visitor stares at the disc for fifteen seconds or more and then looks at another image such as their hand or a photo, the image at which they look also appears to "quiver."

COLOR REVERSAL

This exhibit consists of a colored figure that the visitor sees intermittently through a window cut in a rotating wheel. Right beside the window there is an area of the wheel that has been painted white. When the wheel spins in a clockwise direction, the visitor sees the white area immediately after he or she sees the colored figure. If the rate of rotation is correct, the visitor will see a curious reversal of colors. Each color will be replaced with its compliment. When the wheel turns in the opposite direction, the visitor sees the image for the same amount of time and the stimulation from the white area is the same, but it comes before the figure rather than after it. In this situation, no color reversal occurs.