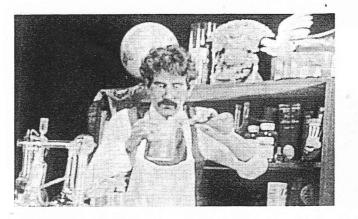
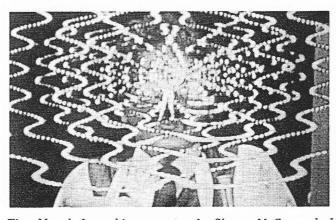


Computers used in stereograms









Time Man, holographic stereogram by Sharon McCormack, 1984

C. Johan Carlisle

Sharon McCormack, Director of the School of Holography, San Francisco, is a holographic artist, engineer and consultant. She has been involved in the medium since 1971, and in integral holography since 1975. The first years of her career were spent making custom lenses (clients included the University of Louis Pasteur, Strasbourg, France and the Oudensha Co., Japan). The cylindrical lenses are oil-filled. Because they are not made of glass, they are flexible, tunable and ideal for holographic stereograms.

McCormack's holographic stereograms now utilize computer graphics, digital video mixing and live action footage to create a holographic montage. With the aid of video editing techniques, she is able to combine live action with special effects utilizing such tools as the electronic pen and computer tablet. This enables an artist to take an image and

on the screen, multiply it or juxtapose it with other images from different media. McCormack's most recent work, the Time Man, is an example of this imagemixing technique.

chemist in his laboratory sniffs a potion and is blasted out into the universe (which is generated through computer rotating turntable with one-inch video. McCormack was thus able to preview the action as it would be recorded and transthe speed of rotation, the speed of the across an arc until it became a pinpoint. alchemist's motion and the objects in the set were previewed on the video monitor and precisely timed with the holographic mack herself in a white jumpsuit with headgear, resembling a skydiver), also expand or reduce it, move it anywhere shot on a rotating stage. This was trans-

ferred onto video. In varying sequences, 14 video tapes were mixed to create the montage. For the special effects emanating from the alchemist's eyes after he sniffs the brew (a digital pattern making him look like he suddenly undergoes a In this holographic stereogram, an al- magical transformation), six seconds of twinkling eyes on video were needed to vield one and a half inches of holographic film. The time traveler, who seems to graphics). The lab scene was shot on a spring out of the alchemist, was controlled by an electronic pen on a computer tablet: the figure was expanded from a small point in the alchemist's face ferred to the hologram. Elements such as to full frame. It was then reduced in size

The Time Man is currently on display transfer in mind. The lab section makes at Ely McFly's, a popular restaurant and up about one half of the 3600 image. A bar in California's Silicon Valley. Copies time traveler was then filmed (McCor- of the stereogram are available by con-

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