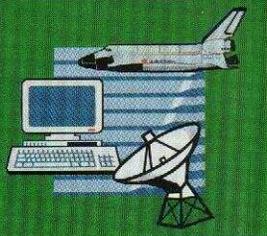


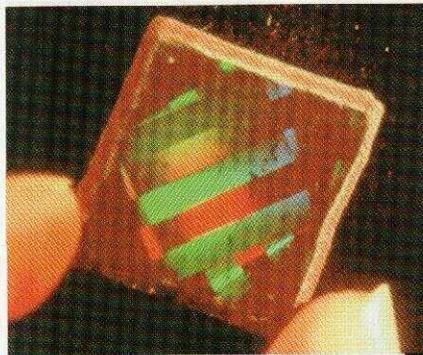
Alan J. Pierce



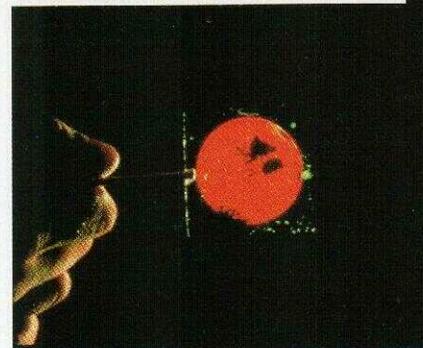
## "Lite" Chocolate

**T**ECHNOLOGY can be used to create innovative and novel products for the consumer market. This particular piece of confectionery seemed so enticing that I thought it appropriate to include in this column that strives to bring you technology that is on the cutting edge.

If you heard a TV announcer talk about a new type of "lite" chocolate,



**Holographic chocolate provides a light show along with its sweet treat.**



you would naturally think of a candy low in calories. The key to this new product is the way that the manufacturer spells *lite*. This is "light" chocolate because it isn't the sugar or fat content that Dimensional Foods changes but rather the candy's ability to refract light.

This Boston food company has found a way to produce your favorite candy bar with a chocolate surface that splits white light into every color of the rainbow. Slight motion of the candy bar under incandescent or sun light allows

its surface to glow with the changing colors and patterns of a laser light show.

The surface of this candy has become a hologram. A number of approaches are used to produce holograms. All of them, however, depend on the same exposure principle. The object to be photographed is bathed in a laser beam so that the reflected image of the laser's light exposes a printing plate. At the same time, a second part of the laser beam directly exposes the printing plate.

Where the two beams intersect on the photographic plate, a wave disruption is created. In some locations, this disruption cancels the photographic image. In other areas, the wave disruption intensifies the photographic image.

Dimensional Foods has found a way



to record this wave distortion into very tiny grooves on the surface of their candy bar. The light show is created by the imprinted grooves without the addition of any foreign substances to the chocolate.

### Recalling the Facts

1. Why does Dimensional Foods' chocolate break white light into all of the colors of the rainbow?
2. How is a hologram produced?
3. Does this process place anything in the chocolate that might not be safe to eat?

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# AmeriKit Educational Electronic Hobby Kits

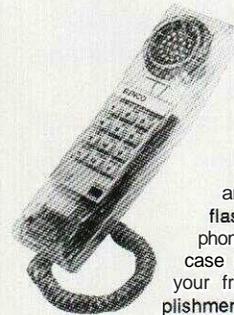
## Stereo Tape Player Kit



### AK-200

The Stereo Tape Player Kit teaches basic mechanical and electronic circuits. Lessons include magnetic recording, audio amplifier theory, motor speed control, mechanical switches and much more. Best of all, when you have completed your project, you have a usable tape player!

## Clear Telephone Kit



Learn how a telephone works by building your own clear telephone kit. The completed phone has automatic redial, mute and a neon light that flashes when the phone rings. The clear case allows you to show your friends your accomplishment.

### AK-700

#### Other Amerikits:

- AK-100 Learn to solder kit
- AK-400 Electronic robot blinker
- AK-500 Love tester
- AK-510 Motion detector
- AK-520 Strobe light
- AK-710 FM wireless mic

Learn about electronics while having fun building tape players, telephones, motion detectors and other electronic devices. Amerikits teach the fundamental techniques of soldering and wiring, while you learn about more sophisticated components like resistors, diodes, transistors, etc. Recommended for ages 10 and up.

ITEA—Phoenix • March 31-April 2  
See us at Booth #125

**Elenco Electronics, Inc.**  
150 W. Carpenter Ave.  
Wheeling, IL 60090  
847-541-3800

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