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COVER

Multicolored chalk drawing by Jeanne L. Benton. Top photograph was taken in uniform 656-nanometer illumination; the bottom in uniform 546-nanometer illumination. This drawing was used with controlled nonuniform 656- and 546-nanometer illumination to produce two different color sensations from physically identical stimuli. The radiance for each wavelength was also controlled so that only the rods and long-wave cones were above threshold. See page 1255. [Julius J. Scarpetti, Vision Research Laboratory, Polaroid Corp., Cambridge, Massachusetts]