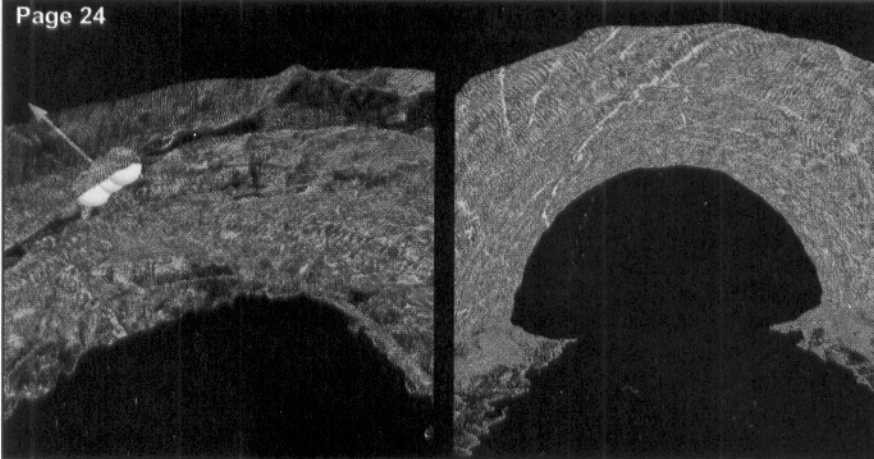


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The Cover

The cover photo shows the submarine Alvin being hauled from the Pacific Ocean. See "Fuel from the Abyss" on page 58. Cover design by *Photonics Spectra* Art Director Lisa N. Comstock.

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PHOTONICS:

The technology of generating and harnessing light and other forms of radiant energy whose quantum unit is the photon. The range of applications of photonics extends from energy generation to detection to communications and information processing.

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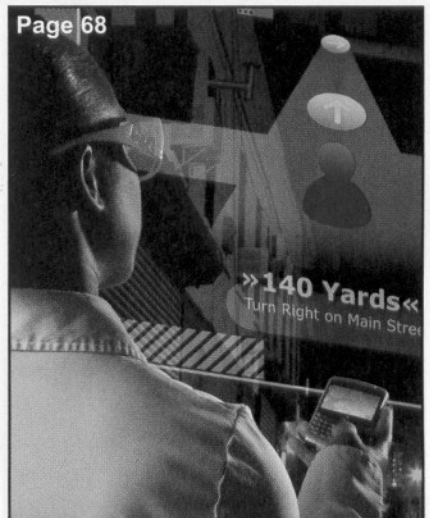
by Hank Hogan, Contributing Editor

Imaging systems and optical sensors are helping unmanned aerial vehicles (UAVs) find applications beyond the military.

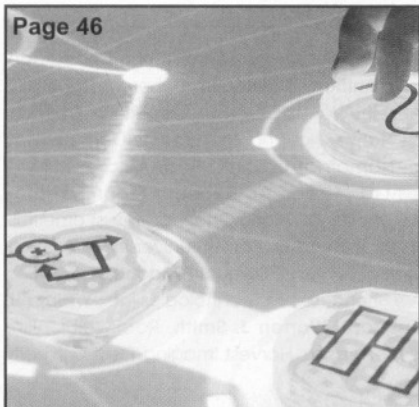
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