

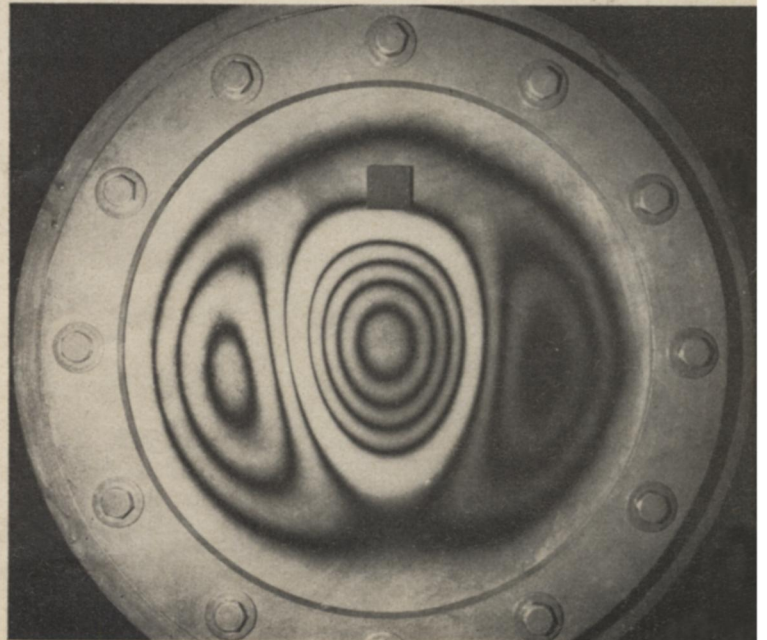
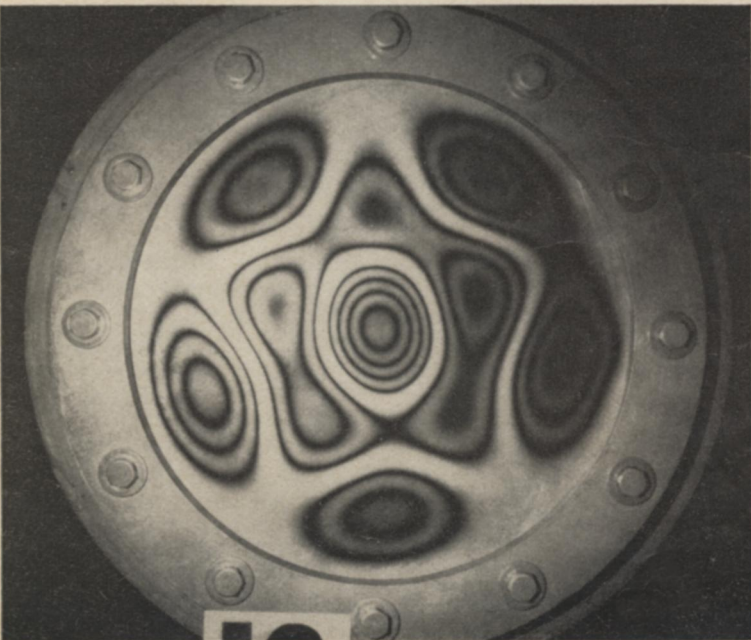
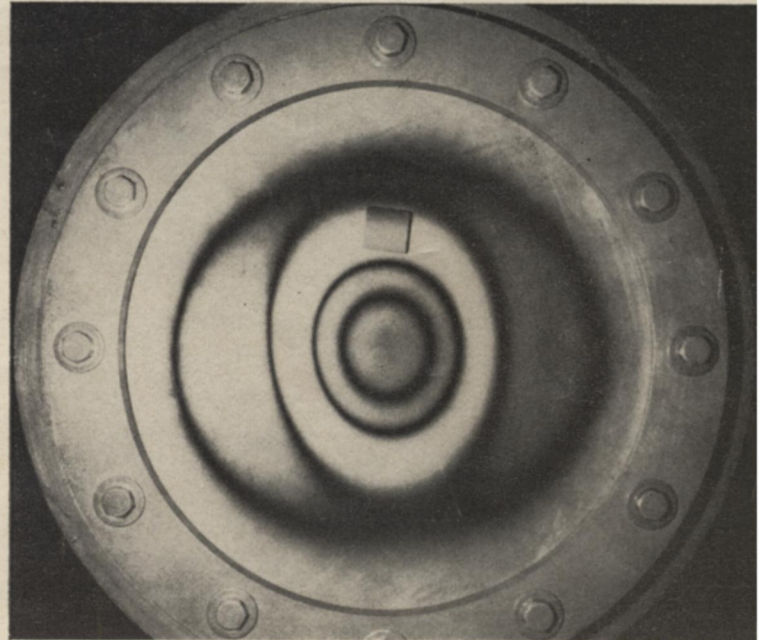
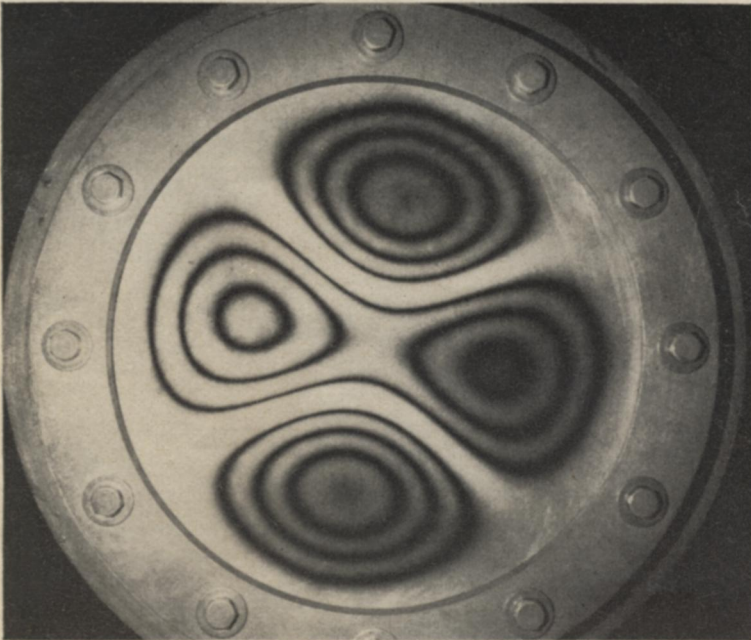


JANUARY 6 1968 / VOLUME 93 / No. 1 P. 1-24

# SCIENCE NEWS

## vibration analysis:

new use  
for holography



## OF THE WEEK

- 5 Cloudy future for MHD power
- 6 Evolutionists challenge Freudian infancy concepts
- 7 Drug dosage balance critical in transplantation
- 8 Ethical problems of transplantation reverberate  
Island born in southwest Pacific
- 11 **Life Sciences Notes:** Organisms love heat; Sleeping pills and infant cataracts; Haploint tobacco plant; Excess chromosomes tied to cancer; UN calls for improved narcotics tests
- 12 **Physical Sciences Notes:** Fundamental theory for computing speed; Project physics—final test; Greenwich mean time ticking out; Detecting solar bursts; Occultation of Antares; Third largest U.S. planetarium
- 13 **Earth and Environment Notes:** Satellite may predict Australian floods; Canadian permafrost mapped; Tracking beach oil; Ancient redwoods not as good as today's; Japan joins hydrographic body; Charting Texas' unknown waters; Quicker storm data proposed for U.S.S.R.
- 14 **Behavioral Sciences Notes:** Early awakenings have ill effects; Women shun doctorates; Memory drug only stimulant; Half the U.S. population insured; Money troubles make people sick; Vitamin therapy under study

## FROM ABROAD

- 8 **Brussels:** Euratom drops out
- 10 **Mexico:** Million fathers desert  
**Australia:** Japan may share rocket range
- 15 **Japan:** Russians join geology study  
**Geneva:** Buying off the farmers

## IN SCIENCE FIELDS

- 16 **Animal Research:** Gerbils suited to epileptic research
- 19 **Holography:** Vibration analysis finds a tool

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| 23 | Books of the Week | 4  | Letters to the Editor |
| 22 | Films of the Week | 21 | Ideas of the Week     |
|    |                   | 2  | Patents               |

## COVER

Odd and unexpected patterns appear in holographic pictures of a vibrating metal plate. Photos at left show patterns not predicted by simple theory of vibrating circular plates, while those on the right demonstrate how a small added weight—a tiny magnet—distorts the vibration pattern. Holography brings a new experimental dimension to the study of vibrating bodies. P. 19 (Photos: N. E. Barnett)



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