

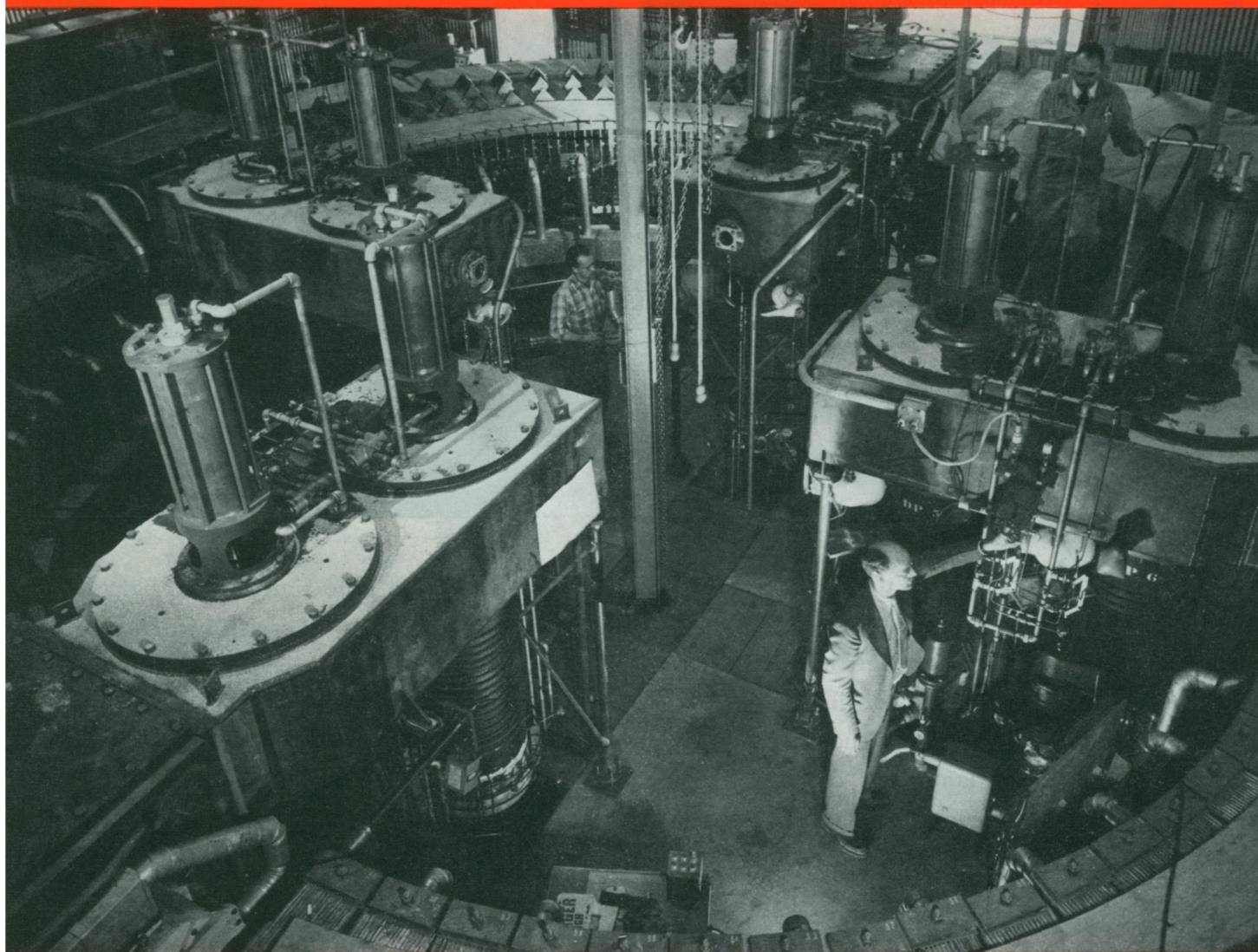
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NOVEMBER 12, 1949

# SCIENCE NEWS LETTER

®

THE WEEKLY SUMMARY OF CURRENT SCIENCE



## Biggest Bevatron Yet

See Page 308

A SCIENCE SERVICE PUBLICATION

\$5.50 A YEAR

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# What is a **LAMP?**



Way back when, before the days of modern research, the answer to this simple question was easy. Today, the definition grows complex.

A Westinghouse engineer in the lamp research department would visualize the 10,000 types and sizes of lamps the company makes. Standard incandescent and fluorescent. Heat lamps. Mercury vapor and fluorescent sun lamps. Bacteria-killing Sterilamps\*. Talking lamps. Lamps to provide black light. Non-seeing mercury vapor to create photochemical reaction. The new quartz tube filled with krypton

\*Reg. T. M.

with a brilliance nine times greater than the sun. On and on. And others still to come.

With a glow of satisfaction, this research specialist would revel in the way research has expanded the applications of a lamp. And with due pride.

To Westinghouse, research is a basic element of success. Across its broad fields of operation, from toasters to turbines, the benefits of research in all its forms are brought to bear . . . are constantly at work. That is the way research and business can contribute the most to America.



# WAR SURPLUS OPTICAL BARGAINS

## ASSEMBLE YOUR OWN BINOCULARS



**Complete Optics!**  
**Complete Metal Parts**  
**SAVE More Than 1/2 Regular Cost**

### GOVERNMENT'S 7 x 50 BINOCULARS

(American Made—not Jap, French or German)

Here's an unusual opportunity to secure a fine set of Binoculars at a substantial saving of money. Offered here are complete sets of Optics and Metal parts for the 7 x 50 Binoculars. These components are new and all ready for assembly. Full instructions supplied. **METAL PARTS**—Set includes all Metal Parts—completely finished—for assembly of 7 x 50 Binoculars. No machining required. A sturdy Binocular Carrying Case is optional with each set of Metal Parts.

Stock No. 842-Q ..... \$39.40 Postpaid  
plus \$4.80 for Case ..... Total \$44.20

**OPTICS**—Set includes all Lenses and Prisms you need for assembling 7 x 50 Binoculars. These optics are in excellent condition—perfect or near perfect and have new low reflection coating.  
Stock No. 5102-Q—7x50 Optics—\$25.00 Pstpd.  
**NOTICE:** Add 20% Federal Excise Tax to your remittance if you buy both Binocular Optics and Metal Parts.

### ARMY'S 6 x 30 BINOCULARS

**COMPLETE OPTICS & METAL PARTS**—Model M-13A1, 6 x 30 Binoculars (Waterproof Model). Everything you need—ready for assembly. When finished will look like a regular factory job costing \$102 to \$120. The Optics are new, in perfect or near-perfect condition. Have new low reflection coating. Metal parts are new and perfect, all completely finished. No machining required. Complete assembly instructions included.

Stock No. 830-Q ..... \$40.00 Postpaid  
plus \$8.00 tax ..... Total \$48.00

**OPTICS AND METAL PARTS** are available for Monoculars (1/2 a Binocular). For complete details, write for Bulletin Q.

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Stock #725-Q ..... \$3.00 each Postpaid  
6 or more units ..... \$2.75 each Postpaid  
12 or more units ..... \$2.25 each Postpaid

**MOUNTED TELESCOPE EYE-PIECE**—Kellner type. Excellent astronomical and other telescopes. War Surplus. Government cost about \$18.00. Focal length 24 mms. Lens Diameter 23 mms. Unusually wide field.  
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**THICK FIRST SURFACE MIRROR**—Aluminized! Low Reflection Coated! Size 3-13/16" x 3-3/16" . . . 9/16" thick. Excellent substitute for large Right Angle Prism.  
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## 8 POWER ELBOW TELESCOPE

Gov't Cost \$200.00  
Our Price \$27.50



Fig. 2 in. diameter objective.  
All lenses Achromatic. Amici-prism erects the image. Four built-in filters—clear, amber, neutral and red. Slightly used condition but all guaranteed for perfect working order. Weight 5 lbs. Can be carried but a trifle bulky. Excellent for finder on Astronomical Telescope.  
Stock No. 943-Q ..... \$27.50 Postpaid

\$1200.00 VALUE for \$95.00

**SCISSORS TELESCOPE**—Gives 100 times greater stereoscopic power than the unaided eye. Binocular type. Big field of view. 12 power. Furnished complete with tripod mount and case. Used by Army and Navy for long distance spotting, target observation, etc. Used but good condition. Shipped f.o.b. Camden, N. J. (Weight approx. 79 lbs.).  
Stock #952-Q ..... \$95.00

**LOW POWER RIFLESOPES and ACHROMATIC LENSES** to make your own higher power Rifle scope (2 1/2 to 7 1/2 power or over). Write for Bulletin "Q".

**TELESCOPE EYE-PIECE**—Consists of 2 Achromatic lenses F.L. 28mm, in a metal mount.  
Stock No. 5140-Q ..... \$4.50 Postpaid

## MAKE YOUR OWN ENLARGER

### MOUNTED ANASTIGMAT LENSES

Use for Projectors, Enlargers, Copying Cameras. Complete with Shutter and Diaphragm. Value about \$20. These were made for a specific camera but had longer or shorter focal length than could be used, and then the camera was discontinued. An excellent buy. **WE WILL INCLUDE FREE ILLUSTRATED BOOKLET ON HOW TO MAKE YOUR OWN ENLARGER.**

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Stock #8007-Q—Speed of f/6.3, focal length approx. 100 mms. .... \$9.50 Postpaid

**CONDENSING LENSES**—Seconds, but suitable for Enlargers and Spotlights.

Stock #1061-Q—6 1/2" dia. 9" F.L. \$2.50 ea. Pstpd.

Stock #1080-Q—5 1/2" dia. 7" F.L. \$1.00 ea. Pstpd.

Stock #1084-Q—2 1/2" dia. 4" F.L. \$1.00 ea. Pstpd.

Stock #1077-Q—2 3/8" dia. 3" F.L. \$1.00 ea. Pstpd.

Stock #1019-Q—6" dia. 16" F.L. \$2.00 ea. Pstpd.

Stock #1062-Q—6" dia. 9" F.L. \$2.00 ea. Pstpd.

Stock #1086-Q—1-11/16" dia. 3" F.L. \$ .25 ea. Pstpd.

Stock #1103-Q—29/32" dia. 1/2" F.L. \$ .50 ea. Pstpd.

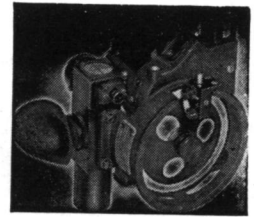
**MOUNTED PROJECTION LENS**—Speed F/1.9 . . . F.L. 15 mm. \$22.00 value for \$7.50. Low Reflection Coated. Used on 8 or 16 mm. Movie Projectors . . . or to make a Desk Viewer or Editor . . . for 16 mm. Micro-film Reader . . . for Contour Projector for very small items.  
Stock #4045-Q ..... \$7.50 Postpaid

### NEW 50-PAGE IDEA BOOK "FUN WITH CHIPPED EDGE LENSES"

Contains wide variety of projects and fully covers the fascinating uses of all lenses in sets listed above . . . only \$1.00 Postpaid.

## UNUSUAL BARGAIN BUBBLE SEXTANTS

These Army Air Forces Bubble Sextants costs the Govt. about \$125.00 each. A real bargain at our price at \$12.50! Wooden carrying case included. Also auxiliary items. Wartime used. **BUT COMPLETELY REPAIRED COLLIMATED AND PUT IN GOOD WORKING ORDER.** If not satisfied that Sextant is exactly as represented, return within 10 days for refund. Full directions for use accompany each shipment.



Stock No. 924-Q ..... \$12.50 Postpaid  
Same Sextant as above, but **BRAND NEW** and with Automatic Electric Averaging Device and Illuminated Averaging Disc for nighttime use. Govt. cost \$217. Though brand new we have rechecked Bubble and Collimation and **GUARANTEE** perfect working order.

Stock No. 933-Q ..... \$22.50 Postpaid

**BUBBLE SEXTANT—TYPE A-8A.** Excellent condition but may be slightly used. Each has been carefully checked and collimated. Averaging device for nighttime use. Carrying Case and instruction booklet included. Gov't cost about \$325.00.

Stock #946-Q ..... \$32.50 Postpaid

## SIMPLE LENS KITS

**THE LENS CRAFTERS DELIGHT!** Fun for adults! Fun for children! Kits include plainly written, illustrated booklet showing how you can build lots of optical items. Use these lenses in photography for copying, **ULTRA CLOSE-UP SHOTS**, Microphotography, for "Dummy Camera", Kodachrome Viewer, Detachable Reflex View Finder for 35 mm. cameras. Stereoscopic Viewer, ground glass and enlarging focusing aids. And for dozens of other uses in experimental optics, building **TELESCOPES**, low power **MICROSCOPES**, etc.

Stock #2-Q—10 lenses ..... \$ 1.00 Postpaid  
Stock #5-Q—45 lenses ..... \$ 5.00 Postpaid  
Stock #10-Q—80 lenses ..... \$10.00 Postpaid

**LENS CLEANING TISSUE**—1st quality sheet size 11 x 7 1/2 in. Made to Govt. specifications. High wet strength. Free of abrasives.

Stock No. 721-Q—500 sheets ..... \$1.00 Postpaid

**SLIDE PROJECTOR SETS**—Consist of all unmounted lenses you need to make the following size projectors:

Stock No. 4038-Q—2 1/4 x 2 1/4 in., \$3.35 Postpaid  
Stock No. 4039-Q—2 1/2 x 3 1/2 in., \$3.85 Postpaid  
Stock No. 4035-Q—35mm ..... \$4.85 Postpaid

**MOUNTED PROJECTING LENS SYSTEM**—F.L. 91.44 mm (just right for 35-mm Projectors). Speed of F 1.9. Outside dia. of mount at one end 60mm. Length of mount 64mm.  
Stock No. 4033-Q, \$3.00 Postpaid



**THREADED OUTSIDE MOUNT FOR FOCUSING ABOVE SYSTEM** (Not Illus.)—

Stock No. 715-Q ..... \$1.00 Postpaid



**IF YOU'RE INTERESTED IN OPTICAL BARGAINS**  
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**ORDER BY SET OR STOCK NO.**

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