

**AMAZING NEW DESIGN MICROSCOPE**  
60 to 450 POWER  
Take advantage of our tremendous foreign purchase. Ideal for use by the Amateur, Scientist, Student.

- Has Triple Revolving Turret with 10X, 20X and 30X precision ground and polished lenses.
- Two interchangeable eyepieces of 6X and 15X with precision ground and polished lenses.
- SIX MAGNIFICATIONS for all purposes—60X, 120X, 150X, 180X, 300X and 450X.
- New Patented Sub-Stage with SELF-CONTAINED LIGHT. No external light source is needed.
- Large sub-stage mirror for use with external light when desirable.
- All Metal Body—precision made. Inclines through 90 degrees.
- Special hardwood case and 3 glass slides included.

**FREE WITH MICROSCOPE**  
This eight piece dissecting set contains Scalpel, Tweezers, etc. Free with microscope above.

**1295**

**SAVE UP TO 50% ON IMPORTS and GOV'T SURPLUS**

**2PC. 4-6-10 POWER EYE LOUPES**

The newest in Eye Loupes. A 2-piece, 10 Power precision unit with a 6 power lens that screws onto a 4-power base—can be used as a 4x, 6x or 10 power magnifier. A \$2.50 value. **ONLY 125**

---

**NEW PALLEY 100 - 200 - 300X MICROSCOPE**  
IDEAL FOR STUDENTS, AMATEURS, SCHOOLS, ETC. **Only 895**

An unsurpassed value! This is NOT A TOY! The triple revolving objective lens turret allows you to select a 100X, 200X or 300X magnification. Has right or left hand rack and pinion adjustment for smooth, precise movement. The all metal body inclines 90 degrees. Adjustable plano-sub-stage mirror. Complete in hardwood case. Satisfaction fully guaranteed or money back.

**SURPLUS SPECIAL 20-1 SPEED REDUCER**  
Precision built for Army Gun Control mechanism. Excellent for experimental and for Laboratory uses. The gear ratio of 20 to 1 gives approx. 90RPM with a 1750 RPM motor—direct drive. Can be belt driven—any desired speed with any size motor up to 1/2 HP. Has a cast aluminum alloy case and BALL BEARINGS throughout. Heavy duty, double reduction spur gear drive. Will operate conveyors, timing devices, machine tool drives. Cost Gov't \$86 **995**

---

**10 POWER NAVY SPYGLASS**  
Here's a real optical bargain. Manufactured by Wollensak for the U.S. Navy Bureau of Ships. A 10 Power Officer of the Deck Spyglass. Has top quality, fully coated, precision ground lenses. Adjustable eyepiece. Overall lgh. is 22-3/4". Complete in handsome hardwood case with brass hinges and locks. Used but excellent—  
**2275**  
**2995**

SPYGLASS—Same as above but ALL NEW... **2995**

**SELSYN TRANSMITTER MOTOR**  
A Synchronous Type AC motor. Made originally for Army fire control units. A precision motor for the experimenter, etc. Will operate without speed variation for an indefinite time. 115 Volt, 60 cycle AC. **1495**

---

**12 PIECE SPORTS KNIFE**  
NEW IMPORT IDEAL GIFT FOR SPORTSMEN, ETC.  
Eliminates 12 ITEMS from PACK or TOOL KIT! Contains a regular knife, fork, spoon, fish scaler & bone saw, scissors, draw knife, can & bottle opener, corkscrew, owl punch, metal file. All mounted in a rugged 4-5/8" bone covered handle. Complete with handsome, genuine leather belt holster. BUY DIRECT FROM IMPORTER  
**1295 VAL. 395**

**NOW! A PROVEN FACT—SAFETY BELTS SAVE LIVES**  
**NYLON AUTO SAFETY BELTS**  
MADE TO WITHSTAND A CRASH PRESSURE OF 3000 POUNDS  
Meets Civil Aeronautics Standards. Approved by Police, Safety Councils, Highway Patrol, Fleet Operators, etc... Made of finest NYLON webbing and fitted with Aircraft type buckle. Easily installed in any car. Special sizes for Sports Cars. Available in the following colors: Blue, Green, Gray and Maroon.  
**995 VAL. ONLY 489 EACH**  
SPECIFY COLOR AND ALTERNATE COLOR  
**5 SECONDS TO FASTEN—1 SECOND TO UNFASTEN**

---

**6 POWER NAVY SCOPE**  
A remarkable Navy Surplus Bargain. Originally designed as an Azimuth Telescope which mounted above the Gyro Compass. Has approx. 6 POWER. Finest Quality fully coated lenses. Crosshair reticle. Adjustable eyepiece. A Sun filter and a Haze filter. New cond. Cost Gov't \$150.00 **2495**

**4 SPEED BARBECUE and HOBBY MOTOR**  
A rugged, precision built electric motor—uses 110 Volt, 60 cycle current. Originally built for the Navy—NOW converted for YOU! Has four take-off shafts for different speeds of 5, 25, 150 and 4000 RPM. A \$35.00 Value **895**

---

**NEW ARMY SURPLUS 178mm f:2.5 CAMERA LENS**  
Originally designed for use on the K-21 and K-24 Aerial Cameras. A genuine EASTMAN AERO EKTAR 178mm lens. Has speeds from f:2.5 to f:16. Focal length is 7 inches. This amazing lens is NEW—in original can. Guaranteed perfect condition. Excellent for Color or Black and White. Exceptionally fine for night work or in poor light conditions. Comes with 2 filters—1 Polarized (for haze) and 1 yellow, plus a filter adapter, a lens heater for high altitudes and a lens dust cap. Can be adapted to 35 mm or Speed Graphic Cameras as a Telephoto lens (see below).  
**ONLY 6950**

**FREE! BARGAIN BOOKLET**  
Packed with more Amazing Palley Bargains in Government Surplus and New Merchandise. Includes Optical Goods, Camping & Hiking Equip., etc. Write for booklet No. C8.

---

**SPEED GRAPHIC ADAPTERS for above lens—**  
Includes Lens Board, Extension Tube and Bed Support.  
2-1/4x3-1/4" **2175** 3-1/4x4-1/4" **1875**  
4x5" **1475**

**35 MM ADAPTERS FOR ABOVE LENS—**  
Complete—no other parts to buy. Will focus from 8 ft. to infinity—setting marked on the mount.  
LEICA—CONTAX S&D—EXACTA... **8950**  
CONTAX 2A... \$109.50 HASSALBAD... \$139.50

# Questions

**CHEMISTRY**—How is it hoped to create four new elements? p. 283.

**MEDICINE**—What is the effect of one tranquilizer on the reproductive cycle? p. 277. What are the early signs of artery disease? p. 279.

**PSYCHOLOGY**—What is suspected as one cause of infertility in women? p. 279.

**PUBLIC HEALTH**—How large is the threat of tuberculosis to Veterans Administration hospital volunteers? p. 280.

**SURGERY**—How long does it take to grow a new rib? p. 281.

**PHOTOGRAPHS:** Cover General Electric Company; p. 277, U. S. Navy; p. 278, U. S. Army; p. 279, Armour Research Foundation; p. 282, Philco Corporation; p. 288, ? ? ?

## BIOLOGY

### Sees Sex Ratio Control Through Blood Acidity

➤ A PRACTICAL WAY of getting more boy than girl babies, or at least more male than female cattle, could come through testing and if necessary changing the acidity of the blood of the sire, Dr. K. G. McWhirter of Oxford University suggests in *Nature* (Oct. 20).

It depends on a previous report that in mice the males with somewhat acid blood had an excess of females in their offspring, while those with somewhat more alkaline blood had an excess of males in their offspring.

Mammals other than mice may also produce more males or more females according to the acidity or alkalinity of the blood of the male parents, it appears from other studies.

"Athletic men" have a tendency to produce more daughters, one report has shown, and athletic exertion reduces blood alkalinity, at least temporarily. Diet and high altitude have also been shown to be factors affecting blood acidity or alkalinity.

From all these points, Dr. McWhirter concludes that "a practical system of controlling sex ratio in economically important animals might be set up."

He suggests doing this by selecting sires for the appropriate acid or alkaline blood tendency or by altering the blood in the desired direction by drugs, diet or an artificial atmosphere of the desired oxygen level.

Science News Letter, November 3, 1956

Science Service, Inc. is collaborating with JSTOR to digitize, preserve, and extend access to *The Science News-Letter*.

www.jstor.org