

# Questions

**AERONAUTICS**—How much increase in air traffic is expected by 1980? p. 41.

**ASTRONOMY**—What is now thought to be rotation period of Venus? p. 37.

**GENERAL SCIENCE**—What action should be taken now concerning the eastern seashore? p. 38.

**ICHTHYOLOGY**—How does the noise made by a manatee sound? p. 39.

**NATURAL RESOURCES**—What is status of atomic resources in the United States? p. 36.

**TECHNOLOGY**—Why is the Army looking for a throw-away engine? p. 34.

Photographs: Cover, New York University; p. 35, Northrop Aircraft, Inc.; p. 37, Clifford Matteson; p. 39, C. R. Smith; p. 42, University of Florida; p. 48, Loma Plastics, Inc.

## BIOCHEMISTRY

### Hormone Saves Babies From Too Early Birth

➤ A HORMONE DRUG to save babies from being born too early to survive has been developed.

The drug, called Relasin, is a form of the female hormone relaxin discovered in 1925 by Dr. Frederick L. Hisaw of Harvard. Conversion of the hormone into a useful drug was accomplished by Dr. Robert L. Kroc and associates of Warner-Lambert Pharmaceutical Company's laboratories at Morris Plains, N. J.

The drug is expected to be in short supply for "the next few years," and is costly, "upward of \$150 to \$175 for each case" treated at first.

The drug was given to 40 women with premature labor in a study by the late Dr. Clair E. Folsome, and Drs. Theodore Harami, Stanley R. Lavietes and George M. Massell of Flower and Fifth Avenue Hospitals and the Metropolitan Medical Center, New York.

The premature labor was completely halted in 23. Frequency and intensity of contractions were lessened in 15. Labor was held off long enough, with consequent gain in time in the womb for the babies, to permit the ultimate delivery of 27 normal infants.

A control group of 50 patients in premature labor was treated by conventional methods of absolute bed rest, good sedation, and a high-protein, high-vitamin diet. From these, only seven babies were saved.

The hormone preparation acts by relaxing the ligaments that bind together the two halves of the pelvis, and by causing the tissues of the birth canal and uterus to soften and dilate. In cases of premature birth, this relaxing and softening effect is often not present. Consequently, even though uterine contractions may be strong, it may take so long for the premature baby to be delivered it dies before or at birth.

Science News Letter, July 21, 1956

### 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

**2 PC. 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 1/25**

### 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....

### 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, awl 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**

INSTALL IT IN 1/2 HOUR

HOLDS YOU IN YOUR SEAT

PREVENT THIS IN A CRASH

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**

### 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.

### 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**

### 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

### Palley's

2263 E. VERNON AVE.  
DEPT. N-7  
LOS ANGELES 58, CALIF.

ORDER FROM THIS AD—Pay by Money Order or Check. P.O.s accepted from well rated D&B firms. 1/2 deposit with all C.O.D.s. Prices are F.O.B. our warehouse in Los Angeles, California