

15¢

\$5.50 A YEAR

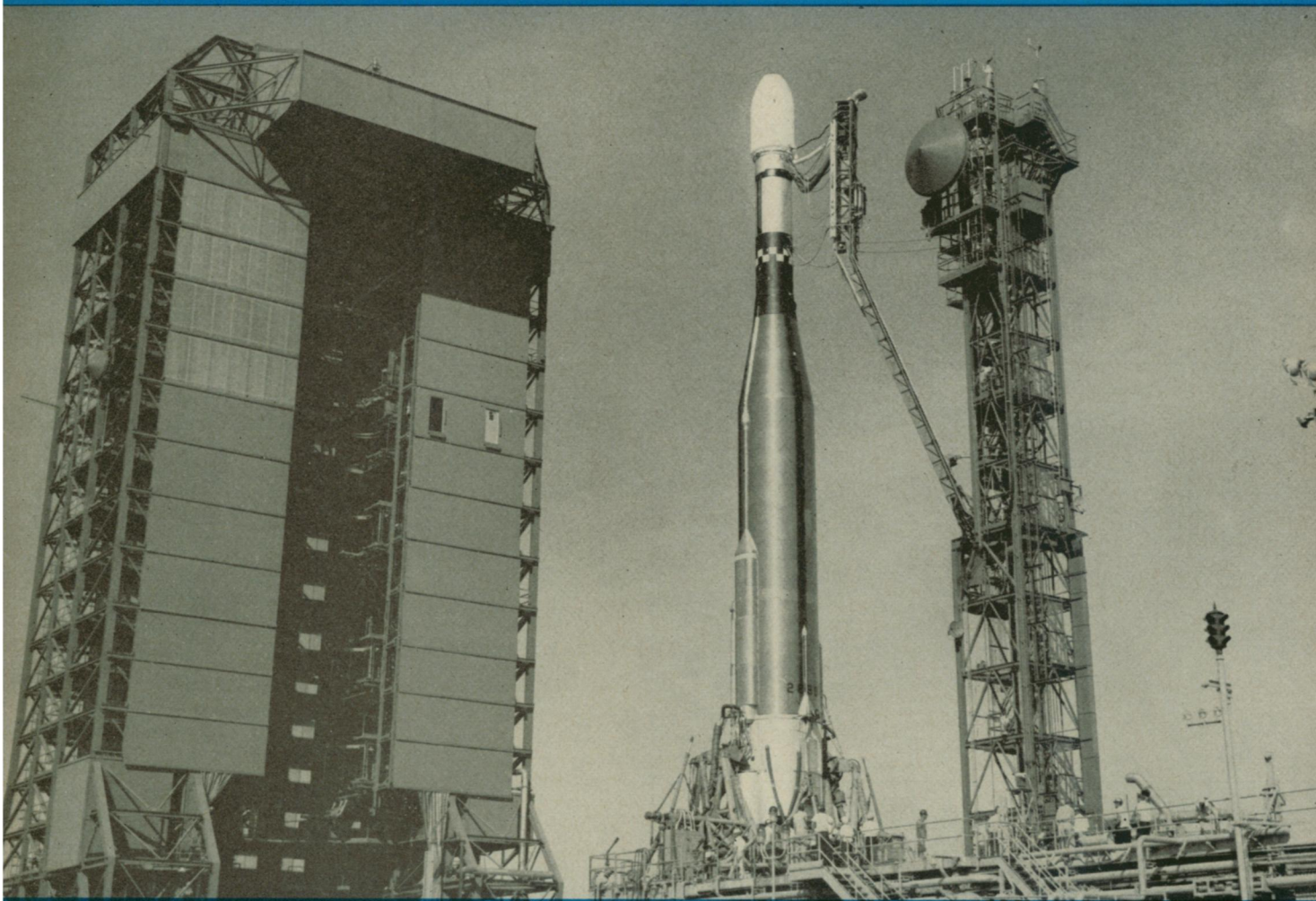
December 12, 1964

VOL. 86, NO. 24 PAGES 369-384

# SCIENCE NEWS LETTER

®

THE WEEKLY SUMMARY OF CURRENT SCIENCE



NASA

Off to Mars

See Page 373

A SCIENCE SERVICE PUBLICATION

**Loads in Seconds . . . Records for an Hour! World-Famous  
NORELCO Cordless CARTRIDGE TAPE RECORDER!**  
1—FLIP OPEN BOX 2—SNAP IN CARTRIDGE 3—INSTANTLY RECORD



Norelco 150 Cartridge Tape Recorder lets you start and stop in a split second . . . lets you load a new cartridge and start recording in 3 seconds flat! No spools, no threading, no fumbling with tape. Get instant playback for one full hour. Cartridge is loaded with 300 ft. of triple play tape. Tape stops automatically at the end of a hub—cannot break, tear or come loose. Will record/playback with machine in any position. Cartridge can be snapped in and removed at any moment with no need to wind or rewind tape.

**ULTRA SENSITIVE MICROPHONE** can be used in 3 different ways. Omni-directional dynamic cone-shaped microphone picks up sound from farthest points with perfect clarity. **REMOTE CONTROL START/STOP SWITCH** fits snugly on microphone. Starts and stops recorder at the touch of your finger. Ideal for on-the-spot interviews, lectures, sales reports, etc.

**INSTANT BATTERY OPERATION** lets you record/playback any place, anytime. Fully transistorized, runs on 5 type C batteries. Built-in meter shows accurate record level or exact battery condition.

**SPECIAL INPUT/OUTPUT CONNECTIONS.** Handy patch cord lets you record or playback directly from radio, phono, TV set, second recorder. Also playback thru Hi-Fi amplifier, headphones. Sound quality is comparable to a fine AM radio.

**ONE SWITCH CONTROL**, the simplest way to record/playback. Single master control lets you start, stop, fast wind, fast rewind tape. (Built-in interlocking safety button.)



snap in cartridge



press . . . and play

**DUAL CARRYING CASE.** Recorder fits in rich black vinyl case with separate pouch for microphone. Has convertible shoulder strap.

**CARRY-CORDER 150 SPECIFICATIONS.** Dual track tape with constant speed of 1 7/8 ips. Capstan drive. One hour playing time. 70 secs for full fast forward or rewind. Measures 7 3/4" x 4 1/2" x 2 1/4", weighs 3 lbs. with batteries.

**COMPLETE NORELCO CARRY-CORDER 150 KIT** includes Carry-Corder. Custom-fitted case with shoulder strap, hand strap, microphone pouch, microphone, patch cord . . . AND 4 TAPE CARTRIDGES (3 blank, 1 pre-recorded demo. tape).



carry case with microphone pouch

**\$119<sup>95</sup>** plus \$2 pp., hd. & ins.

Extra Cartridges \$3.95 ppd. AC Adapter—Operates recorder from 110v outlet; also energizes batteries—\$19.95 ppd.

**Guaranteed Safety for Icy Steps, Sidewalks, etc.  
"NO SLIP" ICE CARPET**

BIG 12 Ft. Long . . . 24" Wide

- Just lay it down for instant safety
- No backbreaking shoveling
- No more dangerous ice chopping
- Does not lose strength by dilution
- Lasts all year
- Harmless to cement, concrete or brickwork
- **ECONOMICAL**—Use over and over again
- No more messy, harmful salt, sand or chemicals
- Does not track chemicals into house



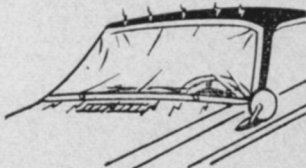
No matter how thick the ice is, just put down an ice carpet for instant safety. Stays safe as ice melts—does not lose strength by dilution or absorption. Cannot injure brickworks, concrete, nor track harmful chemicals inside. Red-tone color indicates the safe, sure path. Use it over and over again for several seasons! Covers most stoops, stairways, short paths. Can be pinned or stitched together to make safety mats any length.

**\$3<sup>95</sup>** plus 35¢ pp. & hd.

(2 for \$7.75 plus 50¢ pp. & hd.)

**Keep Windshield ICE & SNOW-FREE with  
Magnetized  
Windshield Guard**

Snow, ice and hoary frost CAN'T gather on your car's front or rear window when it's protected by this 48" x 30" heavy duty, extremely flexible plastic shield. A series of sure-grip magnets embedded in top and bottom of shield instantly adhere to roof and hood of car . . . prevent wind from whipping it off, keeps snow drifts from seeping through. When ready to use your car, just flip it off windshield, shake off and put it away for use again and again for years to come. Get smart—get rid of scraping and sweeping snow and ice covered car windows.



**\$1<sup>98</sup>** plus 25¢ pp. & hd.

**Weights 3 1/2 ozs. — Guaranteed Against Ripping! — "Travel Tote"  
SUPER-STRETCH RUBBERS**



Even if you hate wearing rubbers you'll love "Totes." The secret is "Totes" patented construction of 100% pure virgin rubber in liquid form. "Totes" are so tough, so resilient, you get a new pair if these ever rip or tear. Ingenious air channels ventilate at every step. Long wear So-Lo-Prene

treads are non-skid. "Totes" slip on as easy as bed-room slippers, fold up to fit into your pocket; so light and comfortable, you won't even realize they're on your feet. The new style rubber that's taking the nation by storm. Specify size when ordering: S 6-7 1/2, M 8-9 1/2, L 10-11 1/2, XL 12-18.

**\$3<sup>50</sup>**

plus 35¢ pp. & hd.



**The Most Beautiful Molded  
Chess Set We've Ever Seen!**

**ANCIENT ROMAN  
COLLECTOR SERIES**  
Era 264 B.C. - 14 A.D.

Patterned after Ancient Rome at the height of its magnificence, each chessman in the set has an historical background. The King is Emperor Augustus Octavianus; The Queen . . . Augusta, The Bishop Marcus Cicero; The Knight . . . A Mounted Roman soldier; The Rook, a Column erected on the forum in

honor of Gaius Duillius; The Pawn, A Roman foot soldier. Molded in the minutest detail from the finest quality hi-impact plastic-alabaster white and charcoal gray—each figure embodies elegance, grace and symmetry. This set will appeal to the chess player as well as any collector or decorator. The King is 4 7/8" high, Queen 3 7/8" high, all other chessmen in proportion. All are sturdy and have felt bases. With 15" square leatherette chess board in simulated walnut box. Included is handsome 16 Page booklet giving historical outline of each chessman, and complete basic rules of chess. Chessmen are secured in die cut platforms. Make a marvelous gift, one that will be appreciated down the years.

**\$5<sup>95</sup>** plus 70¢ pp. & hd.

**Also Available! DELUXE Collector Series CHESS SET**

A veritable masterpiece of fine art. All pieces heavily weighted and set on Roman columns. Kings measure 4 3/4" high. All other pieces in proportion. All accessories as above. Comes with 2 trays. Gift boxed.

**\$13<sup>95</sup>** plus \$1 pp. & hd.

**MEN'S FEATHER-LITE  
STRETCH BOOTS**



weighs  
only 9 oz.

**\$5.<sup>95</sup>** ppd.

Big Boot protection with none of the weight! Pure Gum Rubber Boots stretch over all shoes in a wink. So light and compact they can be carried in pocket, tackle box. Double tough soles can't rip or tear. 14" knee high pants protection. (Size 6-7 1/2); (8-9 1/2); (10-11 1/2); (12-13); please specify. Men's Stretch Boots, Pair \$5.95 ppd.

**LARGE 9' x 12' PLASTIC TARPS**



**33 1/3c**

Min. order 3 tarps for \$1.00 plus 25¢ pp. & hd. Formerly \$1.25 ea.—seamless—1st Quality. Over 1 thousand uses—ORDER TODAY!

**ALSO AVAILABLE  
HEAVY DUTY 9x12 TARPS**

4 times the weight & strength of the above. 3 for \$3.95 plus 55¢ pp. & hd.

**4 MIL EXTRA HEAVY 9'x12' TARPS WITH 4 GROMMETS**  
Two times thicker than heavy duty above. **PACK OF 3 - \$6.95 plus 75¢ pp. & hd.**

**SCOTT MITCHELL HOUSE, INC., Dept. SNL**  
415 S. BROADWAY, YONKERS, NEW YORK

# A complete teaching unit

FOR THE STUDY OF

# BACTERIA

## and their sensitivity to antibiotics and germicides



Valuable to the performance of innumerable laboratory experiments with microorganisms and demonstrating bacterial sensitivity to antibiotics and other drugs, disinfectants and germicides.

Visible Dome Incubator Also Available  
Code No. 11-146B Price: \$75.00

**11-66G**  
**BACTERIOLOGICAL TEACHING KITS**  
**\$3.25 ea.**

12 or more Kits . . . \$3.00 ea.  
F.O.B. Chicago Heights

Shipping charges are prepaid if an order for kits is accompanied by check, cash or money order.



**TEACHING UNIT CONTAINS:**

- 8 plastic sterile disposable petri dishes.
- 1 vial of Ringer's Solution containing 1% sodium hexametaphosphate which will dissolve a calcium alginate swab.
- 8 sterile calcium alginate swabs packaged one per envelope.
- 1 vial Stuart's Transport Medium which can retain the viability of bacterial specimens for as long as two to three weeks.
- 1 10.0 ml screw cap vial for procuring liquid or solid specimens.
- 2 bottles each containing 100 ml of a highly nutritive bacteriological medium.
- 6 packets containing Multidisk sensitivity discs impregnated with:
 

P Green	Penicillin
S Blue	Streptomycin
A Yellow	Chlortetracycline
N Pink	Neomycin
E Red	Erythromycin
C Purple	Chloramphenicol
- 2 sterile blank Multidisks which may be used to show the bacterial activity of germicides and disinfectants.

*Literature on Teaching Kit and Visible Dome Incubator Available on Request.*

**COLAB LABORATORIES, INC. • CHICAGO HEIGHTS, ILLINOIS, U.S.A.**

In Canada order from: CONSOLIDATED LABORATORIES (CANADA) LTD. 66 Milvan Drive, Weston, Ontario