

ration. No salesman will call, Washington School of Studio 1561, Port Washington, N. Y. (Estab. 1914)

# Free to WRITERS seeking a book publisher

Two fact-filled, illustrated brochures tell how to publish your book, get 40% royalties, national advertising, publicity and promotion. Free editorial appraisal. Write Dept. SN

Exposition Press / 386 4th Ave., N.Y. 16





Over 300 Chemical Experiments, Tests and formulas.

Amaze your friends with magic chemical tricks.

Make safe fireworks, paints, household chemistry, glass blowing, electroplating and electrotyping.

FREE CHEMICAL CATALOG WITH EACH ORDER.

## WINN CHEMICALS 124 West 23 Street, New York 11, N. Y.



IJERE'S the easiest way to learn FERNCH, SPANISH, Russian, German, Italian, Japanese or Brazilian Listen to FREE 2-sided non-breakable record. Let your leves follow words in FREE sample lesson. Almost at one you'll be chatting in a new language with a perfect accent? That's all you hear! No dull, tedious work. Just listen—imitate! It's that easy! Offer may end soon. Rush 25e to help cover cost of special packaging, shipping. State language you want. We'll also send free information on full Cortina course. No obligation. CORTINA ACADEMY, Dept. 601, 136 W. 52nd St., New York 19.

THE CHEMICAL ELEMENTS CHART A COUNTY OF THE PARTY OF T T. TREET ST. ST. WALL CHART (Actual Size 38 × 50 inches) VAST AMOUNT
CONTAINS THE FOLLOWING CONCEDNING EACH ELEMENT AINS THE FOLLOWING UNBELIEV ABLY VAST AME OF INFORMATION CONCERNING EACH ELEMENT Andrew Printers SEATTLE STATE SEU BT MURE IMAN ISUU UNIVERSITIES, COLLEGES HIGH SCHOOLS, AND INDUSTRIAL LABORATORIES For Sale at College Book Stores or order direct . BOX 315, S. Hillishdi The Line

This completely revised 1959 edition contains up-to-date information about all 102 elements. French and German names are given in English alphabets. Russian names are given in both Russian alphabet and English equivalent.

ENGINEERING

### **New Aircraft Panels** Stand Speeds of Mach 9

➤ A NEW "SANDWICH" type of metal paneling for use in jet airplanes and space ships is capable of withstanding 2,000 degrees Fahrenheit under severe pressure. It could enable aircraft to travel up to nine times the speed of sound without the fear of melting.

The "sandwich" is basically a layer of corrugated metal "filler" with a flat "bread" sheet on either side made of high-temperature-resistant metals like stainless steel and inconel X.

It was developed by Republic Aviation Corporation, Farmingdale, N. Y., after several months of research. Panels are already being fabricated under subcontract for a supersonic Air Force fighter and a supersonic bomber.

The panel's corrugation affords vital heat resistance at light enough weight for aircraft use. In previous use of corrugated structures it was difficult to get strong welds and close tolerances.

Republic's manufacturing method uses electrical resistance welding instead of adhesives, which melt at comparatively low temperatures. Results are accurate to threethousandths of an inch on the thickness of the "sandwich" sheets. Sheets as large as 16 square feet have been fabricated.

Not only are the panels light, they are also as much as 75% cheaper than earlier types of "sandwich" construction using a honeycomb, instead of a corrugated, filler. The bonding of honeycomb filler is not capable of withstanding the high tempera-

Science News Letter, January 10, 1959

## MICRO-ADS

Equipment, supplies and services of special interest to scientists, science teachers and students, science-minded laymen and hobbyists. 25¢ per word, payable in advance. Closing date 3 weeks prior to publication (Saturday).

SNL, 1719 N St., N.W., Washington 6, D. C.

### MICROSCOPIC SLIDES

MICROSCOPIC SLIDES ILLUSTRATING TISSUES of brain, bone, cartilage, liver, kidney, muscle. \$7.50 per set, prepaid in U.S. Mineographed descriptions, most important histological characteristics, six tissues, 50¢ ppd. Peters Laboratory, 302 6th Ave., San Francisco 18, California.

#### OPTICAL EQUIPMENT

NEW 48-PAGE SCIENCE CATALOG FREE Microscopes, biological supplies, laboratory glassware. telescopes, fossiles, minerals, entomological supplies, books. Special 9-piece dissecting kit in finished wooden case. \$2.95 postpaid. Research Scientific Supplies, Inc., Dept. 819, 126 West 23rd Street. New York 11, N. Y.

#### PLASTICS

NEW LIQUID CASTING PLASTIC, CLEAR COLors. Embed real flowers, minerals, biological specimens, delicate instruments, electronic parts. Also cold setting resins and fiberglass for laminating, casting, molding, coating. Manual 25 \( \epsilon \). Castolite Company, Dept. A1-30, Woodstock, Illinois.

### **BIOLOGICAL STAINS**

BIOLOGICAL STAINS. FREE PRICE LIST. ESBE Laboratory Supplies, 459 Bloor St., W., Toronto, Ontario, Canada.