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Indole and 9,11
Linoleic acid clusters.

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for Researchers, Teachers, Students

Godfrey molecular models give best representation of van der Waals' and covalent radii—a true picture of steric hindrance. Models of small ring compounds and bicyclic compounds easily made. Show flexibility and resilience of actual molecules.

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A Division of Will Corporation

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MULTIPLE-REFLECTION GALVANOMETER

FOR LABORATORY AND PLANT



A self-contained spotlight galvanometer of extreme sensitivity for the indication of minute D. C. currents and voltages.

model
45

- Bright light spot, sharp hairline index, tilted scale
- Scales for null indication and deflection readings
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- All metal construction, dust-protected, shock-mounted

Write for descriptive Bulletin #965 to

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Also: Colorimeters, Fluorescence Meters, Recorders, pH Meters

HARSHAW MANUFACTURES A COMPLETE LINE OF SCINTILLATION AND OPTICAL CRYSTALS

SCINTILLATION Mounted NaI(Tl) Crystals

Crystal detectors designed for the most sophisticated counting problems. Our physics and engineering group are available to assist you in your special detector problems.

More detailed information is contained in our 32-page book, "Harshaw Scintillation Phosphors". We invite you to write for your free copy!

STANDARD LINE (Hermetically Sealed Crystal Assemblies)

- The accepted standard of the industry
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INTEGRAL LINE (Crystal photo multiplier tube combination assembly)

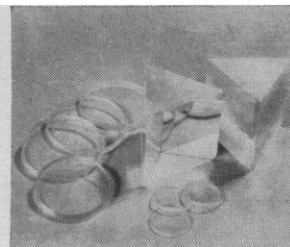
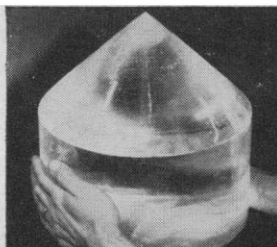
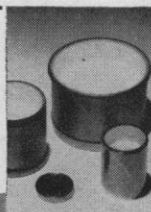
- Improved resolution
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- Harshaw guaranteed

Large Crystal MATCHED WINDOW LINE (Designed primarily for crystals 4" dia. and larger)

- "Small crystal" performance achieved through improved optical design
- Low mass containers
- Available in standard aluminum or complete low background assemblies
- Convenient mounting flange
- Ready to use

Every Harshaw crystal is a product of our experience in crystal growing technology since 1936

Other Phosphors Available from The Harshaw Chemical Company
ROUGH CUT THALLIUM ACTIVATED SODIUM IODIDE CRYSTAL BLANKS • EUROPIUM ACTIVATED-LITHIUM IODIDE (NORMAL) • EUROPIUM ACTIVATED LITHIUM IODIDE (96% Li^9 ENRICHED) • THALLIUM ACTIVATED CESIUM IODIDE • THALLIUM ACTIVATED POTASSIUM IODIDE • ANTHRACENE • PLASTIC PHOSPHORS



OPTICAL Crystals

For Infrared and Ultra Violet Transmitting Optics

"HARSHAW QUALITY" INHERENT IN EACH HARSHAW-GROWN CRYSTAL GUARANTEES THE MOST EFFICIENT OPTICAL TRANSMISSION POSSIBLE THROUGH:

- 1) Negligible light scattering in crystals, permitting higher sensitivity and improved resolution
- 2) Freedom from absorptions caused by trace impurities in crystal optics
- 3) Minimum strain

"HARSHAW QUALITY" meets the demand for uniformity of optical properties such as dispersion and refractive index. Prices, specifications, or other information will be sent in answer to your inquiry.

The following infrared and ultra violet transmitting crystals are available; others are in the process of development:

SODIUM CHLORIDE • SODIUM CHLORIDE MONOCHROMATOR PLATES
POTASSIUM BROMIDE • POTASSIUM BROMIDE PELLET POWDER • (through 200 on 325 mesh) • POTASSIUM CHLORIDE • OPTICAL SILVER CHLORIDE
THALLIUM BROMIDE IODIDE • LITHIUM FLUORIDE • LITHIUM FLUORIDE MONOCHROMATOR PLATES • CALCIUM FLUORIDE • BARIUM FLUORIDE • CESIUM BROMIDE • CESIUM IODIDE

Additional information on the physical and optical properties of the above crystals is available in our 36-page booklet "Synthetic Optical Crystals".

Send for your free copy.



THE HARSHAW CHEMICAL CO.
Crystal Division Cleveland 6, Ohio

New Products

The information reported here is obtained from manufacturers and from other sources considered to be reliable. Neither Science nor the writer assumes responsibility for the accuracy of the information. All inquiries concerning items listed should be addressed to the manufacturer. Include the department number in your inquiry.

■ **NONREACTIVE DECADE RESISTOR** is said to be direct reading with accuracy of ± 0.01 percent from d-c to at least 50 kcy/sec. Models are available with one to five dials for increments as small as 0.01 ohm and resistance values up to 100,000 ohm. Reactance compensation method permits choice of minimum inductance error, minimum reactance error, or best compromise. (British Industries Corp., Dept. Sci406, 80 Shore Rd., Port Washington, N.Y.)

■ **SERVOMECHANISM BREADBOARDING SYSTEM** is based on the provision of equally spaced gear centers established by pairs of accurately bored plates. The system uses gears whose pitch is a multiple of 24. Integral ratios of 1, 2, 3, 4, 5, 7, 8, 9 and 11 to 1 are possible, as well as a large number of nonintegral ratios. Completed units and stock components are illustrated in a 12-page catalog. (Gap Instrument Corp., Dept. Sci475, 116 Merrick Rd., Freeport, N.Y.)

■ **ALTERNATING CURRENT METER** is an a-c/d-c comparator for measurement of current, voltage, and power at frequencies up to 1000 cy/sec. Accuracy is said to be ± 0.05 percent. Current range is 125 amp with extension to 500 amp provided by an accessory transformer. Voltage range is up to 600, extendable to 1500. Power range is 100 amp and 600 volts. The instrument is direct reading to 0.1 percent. (Physics Research Laboratories, Inc., Dept. Sci468, P.O. Box 555, Hempstead, N.Y.)

■ **PEAK VOLTMETER** measures peak or peak-to-peak values of repetitive waveforms. The d-c component is not measured. Frequency range for sine waves is 5 cy to 500 kcy/sec, but distorted waveforms with harmonics extending up to 2 Mcy/sec can also be measured. Pulses with duration from 0.5 μ sec to 5 msec and with repetition rate to 500,000/per second can also be measured. Accuracy ranges from ± 2 percent to ± 5 percent, depending on the waveform measured. The instrument is useful also as a wide-band amplifier with gain of 86 db and source impedance approximately 3 ohm in series with 0.22 μ f. Maximum output is 150 volts peak-to-peak. (Ballantine Laboratories, Dept. Sci484, Boonton, N.J.)

■ **DIODE BOX** is a decade type substitution box with a selector switch that enables interchange of any one of eleven 10-watt silicon-type Zener diodes covering the voltage range from 3.6 to 30. (International Rectifier Corp., Dept. Sci471, 1521 E. Grand Ave., El Segundo, Calif.)

■ **THERMOELECTRIC GENERATOR ELEMENTS** of lead telluride are available for experimental applications in six standard sizes with positive types designated TEG2P and negative type TEG2N. Hot-junction surfaces are prefinished, and cold-junction surfaces are pretinned. Over-all efficiencies of 6 percent are reported. (Minnesota Mining and Manufacturing Co., Dept. Sci411, 900 Bush Ave., St. Paul 6, Minn.)

■ **PULSE-HEIGHT ANALYZER** is a five-channel differential analyzer designed to accept balanced or single-ended pulses of rise time and duration in the range 0.1 to 10 msec, as encountered, for example, in the observation of the passage of action potentials down nerve fibers. Sorted pulses are counted by glow-transfer scalars and mechanical registers. Total capacity per channel is 99,999, and maximum average counting rate in each is 150 pulses per second. A nonoverloading internal preamplifier of continuously adjustable gain between 0.1 and 1000 is provided. A preselected portion of the pulse-height spectrum may be further expanded by a factor up to five. The basic range of the analyzer proper is 10 to 70 volts peak. (Elex, Dept. Sci473, 1417 Slaterville Rd., Ithaca, N.Y.)

■ **ANALOG-COMPUTER CONTROL SYSTEM** employs a control unit composed of operational magnetic amplifiers and passive network elements. Analog signals received from transducers are subjected to the mathematical operations of addition, subtraction, ratioing, integration, differentiation, and multiplication. The output signal is then used to adjust final control elements to act on the process function under control. (Hagan Chemicals and Controls Inc., Dept. Sci477, Hagan Building, Pittsburgh 30, Pa.)

■ **CABLE TESTER** is designed to prove cables and fixtures without destruction. A typical model tests five cables from 3 to 10 ft long simultaneously. Load is hydraulically applied, up to a maximum of 2000 lb, and is maintained for a preset period. Breakage of a defective cable does not overstress any of the others. (Steel City Testing Machines, Inc., Dept. Sci476, 8817 Lyndon Ave., Detroit 30, Mich.)

JOSHUA STERN
National Bureau of Standards,
Washington, D.C.

NATIONAL APPLIANCE

SAFETY-STAT



Avoid losses due to thermostat failures. The National Safety-Stat is a self-contained, portable, hydraulic thermostat offering many uses in the laboratory. It can be used to regulate component water baths, ovens or incubators—or in conjunction with existing instrumentation for positive protection against thermostat failure. Can be set to 1° C. above the regulating thermostat—operates only if regulating thermostat fails.

Installs easily by plugging-in apparatus cord to Safety-Stat and Safety-Stat cord to electrical outlet. Thermal bulb can be located in any desired location. Capillary tube can be inserted through walls using $\frac{3}{8}$ " pipe thread packing nut (No. 7644). Instrumentation includes off-on switch, calibrated hydraulic thermostat and pilot light.

Two models. 115/230 volts A.C. 1700 watts
34" capillary tube (60" available).

Model 7635: thermal bulb $\frac{3}{8}$ " diam. x $4\frac{5}{8}$ "
0-100° C. ± 0.5 ° C.

Model 7636: thermal bulb $\frac{3}{16}$ " diam. x 12"
30-260° C. ± 1 ° C.

Write for bulletin or complete catalog.

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CLASSIFIED: Positions Wanted, 25¢ per word, minimum charge \$4. Use of Box Number counts as 10 additional words. Payment in advance is required. Positions Open, \$40 per inch or fraction thereof. No charge for box number.

COPY for classified ads must reach SCIENCE 2 weeks before date of issue (Friday of every week).

DISPLAY: Rates listed below—no charge for Box Number. Monthly invoices will be sent on a charge account basis—provided that satisfactory credit is established.

Single insertion	\$40.00 per inch
4 times in 1 year	38.00 per inch
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26 times in 1 year	34.00 per inch
52 times in 1 year	32.00 per inch

For PROOFS on display ads, copy must reach SCIENCE 4 weeks before date of issue (Friday of every week).

Replies to blind ads should be addressed as follows:

Box (give number)
Science
1515 Massachusetts Ave., NW
Washington 5, D.C.

POSITIONS WANTED

Immunopharmacologist, Ph.D., desires to conduct research on purification and therapeutic uses of antibodies and enzymes. P.O. 333, Davis, California. 4/15, 22, 29

International Technical/Scientific Liaison or Marketing; D.Sc.; 6 years chemical industry, 3 years technical representative. Have worked in United States, Europe, Venezuela. Available for foreign assignment. Box 73, SCIENCE. 4/8

Parasitology-Biology, Ph.D.; taught bacteriology-public health, 6 years; parasitologist on animal health products, 2 years; desires research or administrative appointment. (b) **Cytogenetics**, Ph.D., with plant taxonomy minor; available for research-teaching position. S4-2 Medical Bureau, Inc., Science Division, Burneice Larson, President, 900 North Michigan Avenue, Chicago. X

POSITIONS OPEN

AGRICULTURAL RESEARCH COUNCIL OF RHODESIA AND NYASALAND

Applications for the new post of Director are invited from Research Scientists with extensive experience in research and administration and fully competent to initiate, co-ordinate and administer programs of agricultural and cognate research. The post will be tenable at Salisbury, Federation of Rhodesia and Nyasaland, but the incumbent must be prepared to travel extensively, both within and outside the Federation.

Appointment on contract for five years subject to renewal, with a commencing salary of £7500. Superannuation provision. Contributory medical scheme. Good educational facilities available for children. Low taxation. First-class passages to the Federation for the incumbent and his family on first appointment. Three months' paid leave with return passages to any destination in Europe or necessary equivalent once during term of contract. One month's local leave in other years.

Candidates wishing to obtain particulars of duties and service conditions should submit their curricula vitae to the Secretary (R), Rhodesia House, 429 Strand, London, W.C.2, by 30 April.

Botanist (1-year replacement). Taxonomy, general biology. Starting salary for Ph.D., \$458 for 12 months. Write Dr. G. A. Noble, California State Polytechnic College, San Luis Obispo, California. X

Chemist, M.S. or Ph.D. for GI research laboratory, experience steroid analysis desirable. Up to \$9600 for Ph.D. Begin 1 July 1960. Write Dr. Rodman Finkbiner, Pennsylvania Hospital, 811 Spruce Street, Philadelphia 7, Pa. X

Chemist-Biochemist, M.S. level or above. Medical research program. Particular emphasis on cellular physiology, enzymes, and electrolytes. Position in Career Civil Service. Reply to Manager, Veteran Administration Hospital, East Orange, N.J. 4/15

Indexers. East Coast science publication is seeking qualified graduates in biology or cognate science for full-time employment in index department. Junior, intermediate, and senior level positions with salary range \$3600-\$6900. Indexing experience preferred. Box 69, SCIENCE. X

POSITIONS OPEN

(a) **Biochemist** for gastrointestinal research laboratory in large university hospital; around \$10,000 year; East. (b) **Physiologist** for basic research in psychiatric hospital; Southeast. (c) **Virologist** with background in tissue culture techniques to learn simian virus identification and assume responsibility of division in pharmaceutical firm; Midwest. (d) **Research and Development Director** for foreign unit of large pharmaceutical firm; experienced in research, clinical evaluation and liaison duties; \$14,000-\$19,000 year. (e) **Bacteriologist** to head section in 400-bed hospital; East. (f) **Zoology Assistant or Associate Professor** with teaching-research experience for state university with new science building; Midwest. (g) **Pharmacologist** for cardiovascular research with leading drug firm; around \$10,000; East. (h) **Biochemist** to conduct and direct research in new nutrition laboratories at university; Midwest. (i) **Botany-Pharmacognosy Assistant Professor** for science college; September reporting; East. (j) **Pharmaceutical Chemist** for research and control system operation with drug firm with expanding research program; East. (Please write for details; also many other positions available through our nationwide service.) S4-2 Medical Bureau, Inc., Science Division, Burneice Larson, President, 900 North Michigan Avenue, Chicago. X

Chemical Engineering Professor. An opening exists for an assistant professor of chemical engineering at the University of Saskatchewan commencing September 1960. A Ph.D. or equivalent is desired. Duties include graduate and undergraduate instruction, and direction of graduate research. Salary range \$7000-\$8500. Inquiries and names of three references should be addressed to Head, Department of Chemistry and Chemical Engineering, University of Saskatchewan, Saskatoon, Saskatchewan, Canada. X

Clinical Chemist to head chemistry laboratory at Children's Hospital of Pittsburgh (300 beds), University of Pittsburgh School of Medicine. Opportunity for independent research in this field. Modern instrumentation. Salary and responsibilities can be varied to the applicant's qualifications. Degree in chemistry and experience in clinical chemistry required. Apply to Director, Clinical Chemistry Laboratory, Children's Hospital of Pittsburgh, Pittsburgh 13, Pa. X

ENDOCRINOLOGIST

Research

Challenging opportunity as independent investigator in ethical pharmaceutical house to conduct and supervise research in general endocrinology. Ph.D. in endocrinology or related field required. Please send complete résumé to

Mr. D. G. Duncan, Personnel Manager
THE WM. S. MERRELL COMPANY
Cincinnati 15, Ohio

ENDOCRINOLOGIST

Specializing in the endocrinology of reproduction, to be responsible for a biological research program dealing with fertility. Five years postdoctorate experience desired. Large pharmaceutical company in the East. Please send résumé of education and experience to

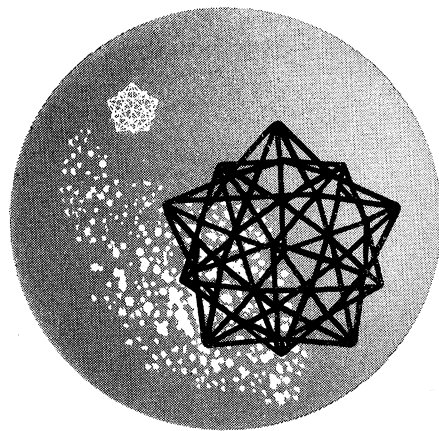
Box 78, SCIENCE

M.D. To Do Medical Writing

Excellent position available for physician who has writing and editorial experience to head up Medical Writing Division of a midwest pharmaceutical firm. Should have administrative ability to supervise Technical Scientific writers and clerical personnel. Clinical or laboratory experience desirable. Write

Box 82, SCIENCE

Physiologist. Position at Associate professor level in eastern medical school. Research and teaching experience essential. Box 81, SCIENCE. 4/15



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Expanding the scope and depth of present programs is Republic's recently completed \$14 million Research and Development Center. Extensive facilities here are an invitation to professional men to realize the future by solving today's most perplexing problems.

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Space Electronics (*Guidance, Navigation, Communications*) / Hypersonics / Hydromagnetics / Nuclear Power Packages / Advanced Computer Technology / Applied Mathematics / Space Environmental Studies (*Life Science*) / Celestial Mechanics / Electronic Theory / Plasma Physics / Radiation Studies / Re-entry Techniques / Fluid Mechanics / Materials Research & Development

Please forward resumes to:
Mr. George R. Hickman
Technical Employment Manager,
Department 35D-2



REPUBLIC AVIATION

Farmingdale
Long Island, New York

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Microbiologist for large, excellently equipped and staffed laboratory to direct bacteriology, serology, and tuberculosis laboratories. Outstanding opportunity for clinical research in university-affiliated institution. Excellent working conditions, pension plan and fringe benefits. Annual salary for M.D. eligible for certification by the American Board of Pathology, \$13,931 to \$15,262 in 3 years; for experienced Ph.D., \$9674 to \$12,149 in 6 years. Contact Dr. Henry P. Schwartz, Philadelphia General Hospital, Philadelphia, Pennsylvania. X

Internationally known firm seeks the following for its midwestern unit:

MICROBIOLOGIST

Ph.D. or equivalent familiar with single, suspended and monolayer cell culture techniques, media formulation and staining methods. To serve as head of cell production facility and conduct cell culture research.

VIROLOGIST

Ph.D. or equivalent experienced in virus techniques and general tissue culture methods. Assignment of diagnostic nature with unusual opportunity for research.

Salary commensurate with background. Excellent corporate benefit programs. Our staff knows of this advertisement. All replies held in confidence. Interested parties should give all particulars in first letter, including age, education, experience and salary range desired. Box 62, SCIENCE.

Pharmacologist, Physiologist, or Biochemist. Academic career position open in pharmacology department for Ph.D. in one of the above disciplines. Good opportunity for constructive teaching and research at excellent starting salary for academic rank of **Instructor to Associate Professor.** Excellent laboratory facilities and assisting personnel for research in renal physiology, renal biochemistry, neurophysiology, and pharmacology, or other areas of interest to appointee. Send résumé to Box 71, SCIENCE. 4/8, 15

(a) **Pharmacologist;** M.D. with some research contact or above-average basic science training; prominent midwestern pharmaceutical company; \$13,000. (b) **Microbiologist;** M.S., research potential to supervise three-man diagnostic microbiology laboratory serving research institute and affiliated chronic disease hospital; \$7000 plus grant supplementation for research; East. (c) **Biochemist;** Ph.D. experienced clinical chemistry to supervise busy section, large teaching hospital; West Coast. (d) **Microbiologist;** Ph.D. familiar single, suspended, monolayer cell culture techniques to serve as head, cell production facility, conduct cell culture research; well-known midwestern company. (e) **Medical Director;** research division, outstanding eastern company; report to director, clinical investigation for work of proprietary, cosmetics division; liaison with other departments; expanding sections; top salary. (Please write for an analysis form. Our 64th year: Founders of the counselling service to the medical profession; serving medicine with distinction over half a century.) Science Division, Woodward Medical Bureau, Ann Woodward, Director, 185 North Wabash Avenue, Chicago. X

Pharmacology Consultant. Pharmaceutical house wishes to engage Ph.D. or M.D. pharmacologist in academic position as a consultant to arrange for and supervise pharmacological studies on new drugs. Should have animal facilities. Eastern location preferred but not essential. Box 79, SCIENCE. X

Physiologist or Biophysicist. To direct research laboratory concerned with effects of very strong electromagnetic fields on normal and neoplastic tissues in animals and man. Appropriate faculty rank and staff status in large midwestern hospital and medical school. Salary, \$10,000 to \$15,000, depending on qualification. Box 80, SCIENCE. 5/6; 6/3; 7/8

Psychiatric Institute and Hospital. Oriented to inter-disciplinary research, offers challenging and unusually rewarding opportunities to qualified research scientists. Positions available involve varying degrees of responsibility in the coordination, planning, development, and direction of research laboratories and programs and participation therein. Inquiries are invited from individuals with an M.D. or Ph.D. degree and research competence in **Neurophysiology, Virology, Biochemistry, Neuropathology, and Biophysics.** Write Dr. Edward N. Hinko, Director, Cleveland Psychiatric Institute and Hospital, 1708 Aiken Avenue, Cleveland 9, Ohio. X

Senior Technician. Research projects in virology, tissue culture, and cancer. New laboratory in southern Florida. Connected with university and children's hospital. Send complete résumé. Box 75, SCIENCE. 4/8, 15

POSITIONS OPEN

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Opportunity for responsible leadership development and application of emission spectrography, x-ray diffraction fluorescence, infra-red spectroscopy and gas chromatography to problems in industrial hygiene and air pollution. PhD, MS or BS in chemistry with 1 to 5 years experience in physicochemical instrumentation work. Salary range \$8100-\$10,000. Employment in Berkeley, California, with the California State Department of Public Health.

Write: State Personnel Board, 801 Capitol Avenue, Sacramento, Calif.

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Writer for weekly journal to report developments in national and international affairs that bear on science. Familiarity with the Washington scene helpful, background in natural science helpful, experience as a journalist necessary. Position and salary open. State qualifications in a letter to Editor, SCIENCE, 1515 Massachusetts Avenue, NW, Washington 5, D.C. ew

Zoologist. Elementary genetics, laboratory in freshman entomology. Starting salary for Ph.D., \$458 for 12 months. Write Dr. G. A. Noble, California State Polytechnic College, San Luis Obispo, Calif. X

FELLOWSHIPS

Two postdoctoral traineeships in **Sensory Physiology** (auditory and/or prenatal). For the M.D. interested in otological research and/or the Ph.D. in physiology, anatomy, biophysics, or experimental psychology. Stipends, largely tax free, \$6000 per year, up to 3 years. Write to The Deafness Research Laboratory, Children's Hospital, 4614 Sunset Blvd., Los Angeles 27, Calif. 4/15, 22, 29

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• biochemistry • chemistry • radiochemistry
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Catapults like this hurled darts and iron ball missiles from castle strongholds. Medieval knights considered these the most formidable defense weapons in their arsenal.

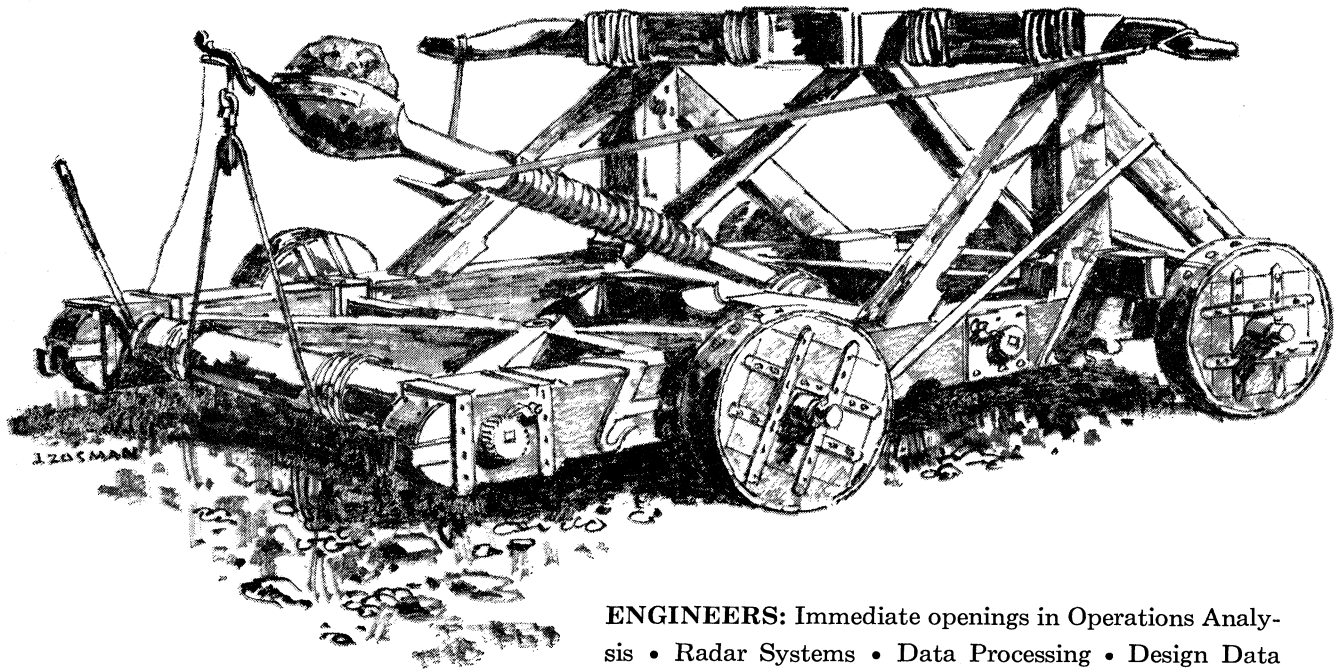
Missiles have become greatly more sophisticated since these crude catapults guarded kingdoms. As a vital part of one of the world's largest purely electronics companies, Raytheon Missile Systems Division is making great advances in this field. Here, engineers are working with far-advanced concepts in electronics, aeronautics, and astronautics. Constantly analyzing, evaluating, creating, they're helping to solve *tomorrow's* defense problems *now*.

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MISSILE

LAUNCHER

14th CENTURY



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Your resume will receive prompt attention. Please address it to: Mr. Richard S. Malcolm, Coordinator of Employment/Placement, Missile Systems Division, Raytheon Company, 520 Winter Street, Waltham, Massachusetts.

16WS



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ment and bases can be selected to provide the exact model you want. Whatever the model, you're assured of top optical and mechanical performance, matchless convenience and versatility...

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... Low-cost 35mm camera for use with trinocular or photographic monocular body. Shoot what you see through coupled visual and photographic system. Take black and white or full color 35mm photos ... quickly ... easily.

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... Choose from monocular, binocular and trinocular bodies ... all inclined for comfort.

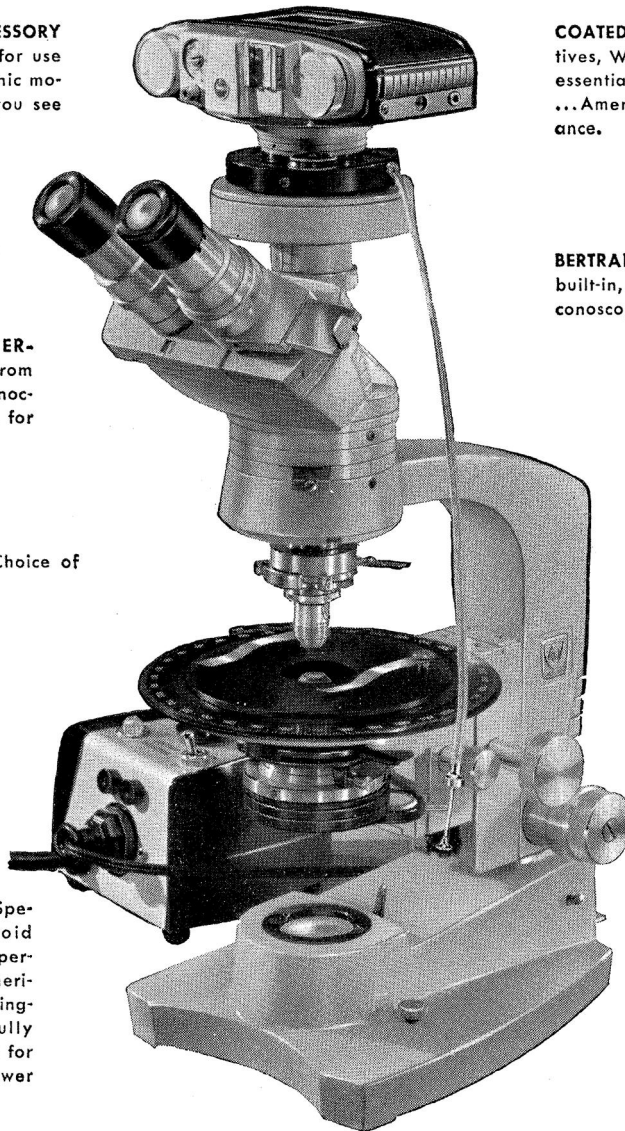
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