

# Meetings

## Forthcoming Events

### January

10-11. Conference on Physics of Polymers, Bristol, England. (Organizing Secretary, Physical Soc., 1 Lowther Gardens, London, S.W.7)

16-18. American Astronautical Soc., annual, Dallas, Tex. (F. F. Martin, AAS, 304 South Woodstock Dr., Haddonfield, N.J.)

16-19. Instrument Soc. of America, winter instrument-automation conf., St. Louis, Mo. (W. H. Kushnick, 313 Sixth Ave., Pittsburgh 22, Pa.)

22-28. Bahamas Serendipity Conf., 3rd, Nassau. (I. M. Wechsler, P.O. Box 1454, Nassau)

23-25. Institute of the Aeronautical Sciences, 29th annual, New York, N.Y. (Meetings Dept., IAS, 2 E. 64 St., New York 21)

23-26. American Meteorological Soc., 41st annual, New York, N.Y. (K. C. Spengler, AMS, 45 Beacon St., Boston 8, Mass.)

24-27. American Mathematical Soc., 67th annual, Washington, D.C. (J. W. Green, Univ. of California, Los Angeles)

24-27. Society for Industrial and Applied Mathematics, Washington, D.C. (G. Kaskey, Remington Rand Univac, 1900 W. Allegheny Ave., Philadelphia, Pa.)

24-27. Society of Plastics Engineers, 17th annual conf., Washington, D.C. (T. A. Bissell, SPE, 65 Prospect St., Stamford, Conn.)

25-27. Mathematical Assoc. of America, annual, Washington, D.C. (H. L. Alder, Dept. of Mathematics, Univ. of California, Davis)

26-27. Western Spectroscopy Conf., 8th annual, Pacific Grove, Calif. (R. C. Hawes, Applied Physics Corp., 2724 S. Peck Rd., Monrovia, Calif.)

27-28. Royal College of Physicians and Surgeons, annual, Ottawa, Ontario, Canada. (T. J. Giles, 150 Metcalfe St., Ottawa)

28-30. Control of the Mind, symp., San Francisco, Calif. (Dept. of Continuing Education in Medicine, Univ. of California Medical Center, San Francisco 22)

28-31. Infertility, sectional meeting, Intern. Fertility Assoc., Acapulco, Mexico. (M. L. Brodny, 4646 Marine Dr., Chicago 40, Ill.)

29-3. American Inst. of Electrical Engineers, winter meeting, New York, N.Y. (E. C. Day, AIEE, Technical Operations Dept., 33 W. 39 St., New York 18)

30-3. Clinical Cong. of Abdominal Surgeons, Miami Beach, Fla. (B. F. Alfano, 663 Main St., Melrose 76, Mass.)

30-4. American Library Assoc., mid-winter meeting. (Mrs. F. L. Spain, New York Public Library, 20 W. 53 St., New York, N.Y.)

31-4. American Assoc. of Physic Teachers, New York, N.Y. (F. Verbrugge, 135 Main Engineering, Univ. of Minnesota, Minneapolis)

31-4. American Physical Soc., annual, New York, N.Y. (K. Darrow, APS, Columbia Univ., 116th St. and Broadway, New York)

### February

1-3. Solid Propellant Rocket Conf., American Rocket Soc., Salt Lake City, Utah. (R. D. Geckler, Aerojet-General Corp., P.O. Box 1947, Sacramento, Calif.)

1-3. Winter Military Electronics Conv., 2nd, Inst. of Radio Engineers, Los Angeles, Calif. (A. N. Curtiss, IRE Business Office, 1435 S. La Cienega Blvd., Los Angeles 35)

1-4. American Physical Soc., annual, New York, N.Y. (K. K. Darrow, APS, 538 W. 120 St., New York 27)

2-4. Congress on Administration, 4th annual, Chicago, Ill. (R. E. Brown, American College of Hospital Administrators, 840 N. Lake Shore Dr., Chicago 11)

6-8. American Acad. of Allergy, 17th annual, Washington, D.C. (J. O. Kelly, 756 N. Milwaukee St., Milwaukee 2, Wis.)

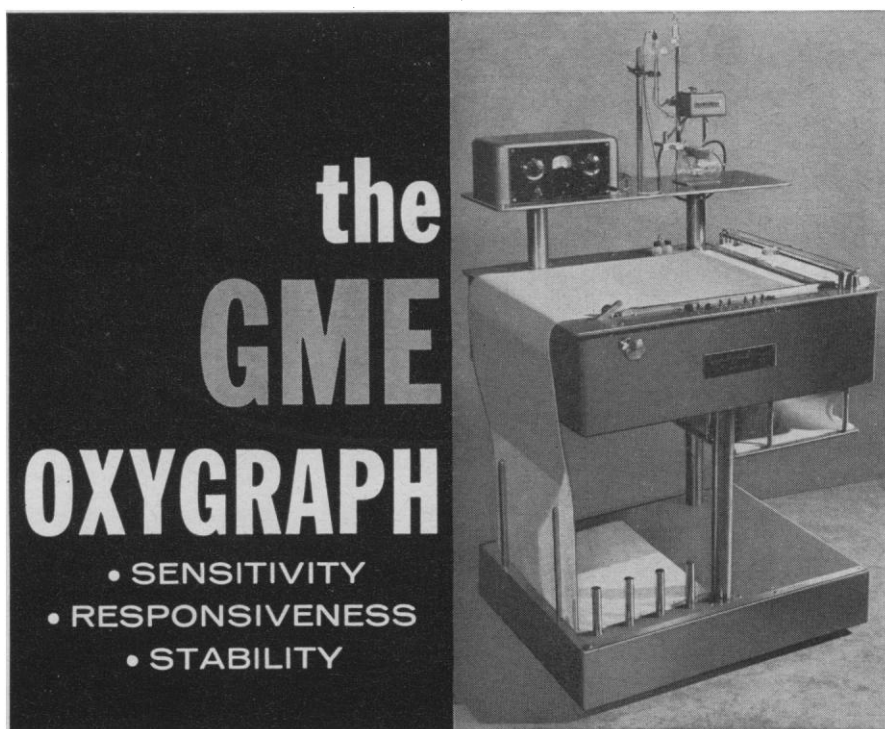
6-8. Geodesy in the Space Age, symp., Ohio State Univ., Columbus. (W. A. Heiskanen, Ohio State Univ., 1314 Kin-near Road, Columbus 12)

6-10. British Medical Assoc., annual, Auckland, New Zealand (E. Grey-Turner, BMA, Tavistock Sq., London, W.C.1)

9-15. Second Allergy Conf., Nassau, Bahamas. (I. M. Wechsler, P.O. Box 1454, Nassau)

13-16. American Soc. of Heating, Refrigerating and Air-Conditioning Engineers, Chicago, Ill. (R. C. Cross, 234 Fifth Ave., New York 1)

(See 16 December issue for comprehensive list)



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(On Madison's West Beltline Highway)

## 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.*

■ **DISPOSABLE MOUSE CAGE**, developed at Southern Illinois University, is constructed of transparent plastic said to be inert and nonallergenic and can be autoclaved or incinerated. Autoclaving reduces cage to 1/9 original size. The cages nest so that 100 cages occupy 4

ft<sup>3</sup> of space. Each cage measures 10½ by 8 by 4½ in. (A. S. Aloe, Dept. Sci975, 1831 Olive St., St. Louis 3, Mo.)

■ **SPECTROSCOPIC ELECTRODE STAND** is fabricated of pure graphite to allow loading and placing of electrodes in a furnace to dry or ignite them with no effect on the stands themselves. Models are available for 1/4- and 3/16-in. electrodes. Each stand holds up to 18 electrodes, spaced to allow room for funnel loading, with each position numbered. (United Carbon Products Co., Dept. Sci970, Bay City, Mich.)

■ **PHOTOELECTRIC RELAY** provides an adjustable time delay between changing of light intensity and operation of the relay so that beam interruptions of shorter duration will not cause actuation. Adjustable relay-hold-in time up to 3 sec can also be provided. (Farmer Electric Products Co., Dept. Sci996, 2300 Washington St., Newton Lower Falls, Mass.)

■ **OPTICAL PYROMETER** measures temperature automatically in the range 1400° to 4500°F or 750° to 2500°C. A portable and a fixed-mounting model are available each with single, double, or triple ranges. Operation is on the two color principle using two narrow-band wavelengths in the visible spectrum. Distance from the target may range from 20 in. to 60 ft. (Instrument Development Labs, Inc., Dept. Sci976, 67 Mechanic St., Attleboro, Mass.)

■ **SOIL PULVERIZER**, developed at the University of Wisconsin, deaggregates soil samples for analysis to desired and uniform mesh sizes without crushing or powdering individual soil crystals. The device consists of a finned pulverizing head which rotates at adjustable speeds in a mortar. The deaggregated soil is sifted through a screen kept in constant motion. (National Agricultural Supply Co., Dept. Sci973, Fort Atkinson, Wis.)

■ **FILTER MATERIAL** is made of submicron glass fibers impregnated with Teflon. Pore size of 2 to 7  $\mu$  remains constant because fibers do not swell. The filter is resistant to heat up to 500°F. Tensile strength is given as 2200 g/in. and is unaffected by wetting. The filter material, 0.002 in. thick, is available in discs and rolls. (Bel-Art Products, Dept. Sci974, Pequannock, N.J.)

■ **GAS CHROMATOGRAPH** employs a motor-driven transparent film and a photoelectric transmitter and receiver to achieve any combination of time and sequence required in process chromatography. The film is programed by graphite markings spaced to interrupt the photo-electric beam and effect desired sequences such as peak selection, range sensitivity, value actuation, automatic zeroing of the detector cell, and visual readout. Repeatability of the system is said to approach  $\pm 0.1$  sec. The programmer will accommodate film loop lengths representing analysis times of 4 to 15 min. Adjustment of motor speed provides shorter or longer times. A manual pushbutton overrides the film reader to provide nonautomatic operation. (Mine-Safety Appliances Co., Dept. Sci982, Pittsburgh, Pa.)

JOSHUA STERN

National Bureau of Standards,  
Washington, D.C.



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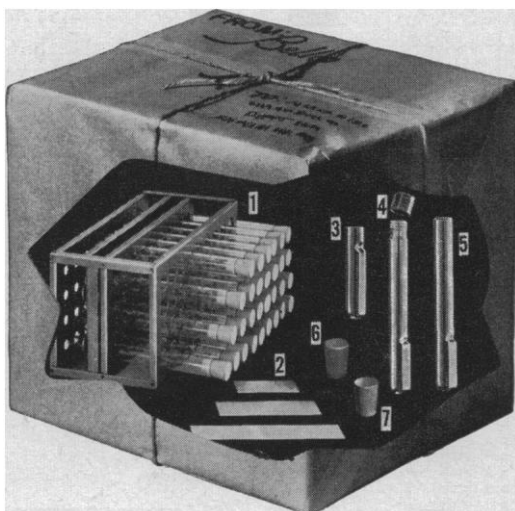
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**COPY** for ads must reach **SCIENCE** 2 weeks before date of issue (Friday of every week).

**DISPLAY:** Positions Open. Rates listed below—no charge for Box Number. Rates net. No agency commission. No cash discount. Minimum ad: 1 inch. Ads over 1 inch will be billed to the nearest quarter inch. Frequency rate will apply to only repeat of same ad. No copy changes. Payment in advance is required except where satisfactory credit has been established.

Single insertion \$40.00 per inch  
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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

(a) **M.D.** University Pennsylvania; qualified chemistry, physiological chemistry, comparative anatomy; 6 years, staff, important pharmaceutical company, including 3 years, medical examiner; seeks administrative level, pharmaceutical industry, clinical investigation; foreign languages: French, German, Spanish, Italian, some Japanese; American born; age 38. (b) **Bacteriologist**, Ph.D. Purdue; considerable public health experience; past 3 years, chief bacteriologist, 350-bed general hospital; seeks similar appointment, warm climate; mid-40's. Science Division, Woodward Medical Bureau, Ann Woodward, Director, 185 North Wabash, Chicago. X

### POSITIONS WANTED

**Female (M.S.)**, chemical and biological background. Experienced in medical literature searching, abstracting. Desires responsible position. Box 226, **SCIENCE**. 12/30

**Neuropharmacologist**, Ph.D., training and experience in neurophysiology. Seeks teaching or research institute position. Box 217, **SCIENCE**. 12/16, 30; 1/13

(a) **Physiology (Endocrinology)** Ph.D., veterinary medicine B.A.; atomic energy fellowship; experienced in hormone research and physiology teaching; desires academic or research appointment. (b) **Young Biochemist**, Ph.D. June 1961; 1 year of malt research, 1 year of Navy service in animal radiological research; interested in teaching or research position. (Please write for information regarding these and other scientists in all fields; nationwide service.) S12-5 Medical Bureau, Inc., Science Division, Burneice Larson, Chairman, 900 North Michigan Avenue, Chicago. **BEST SOURCE FOR BEST SCIENTIFIC PERSONNEL**

### POSITIONS OPEN

Applications are invited for a  
**Faculty Position in Agriculture or Cereal Chemistry**

Duties involve direction of graduate research and teaching cereal and organic chemistry. Rank and salary dependent upon qualifications. Send résumé to Head, Department of Chemistry, University of Saskatchewan, Saskatoon, Saskatchewan, Canada.

### BACTERIOLOGIST

Opening in chemotherapeutic research in expanding midwestern pharmaceutical firm. The opening is in bacteriological research. Experience in an industrial laboratory desirable but not required.

Please send résumé and salary requirement to:  
Box 232, **SCIENCE**

### POSITIONS OPEN

#### BIOLOGICAL SCIENCE

Unusual teaching opportunity in the biological sciences at a small midwestern college. Ph.D. required. Salary \$6500-\$7500 depending upon qualifications and experience. Please direct applications to Clarence R. Noe, Executive Dean, Eureka College, Eureka, Illinois. X

(a) **Pathologist**; certification not required to head department, clinical toxicology, prominent eastern pharmaceutical company; duties include evaluation liaison work; about \$17,000. (b) **Biochemist**; M.S., Ph.D., to head department, expanded laboratories now supervised by two pathologists; 300-bed general hospital; to \$12,000; city 30,000; Mideast. (c) **Pharmacologist**; M.D. as associate medical director; conduct clinical trials, collect data; requires writing, administrative ability; some travel; to \$17,000 plus liberal expense accounts; West Coast. (d) **Research Pharmacologist**; two Ph.D.'s for new laboratories, prominent eastern company. (e) **Bacteriologist**; M.S., Ph.D., to supervise reorganized department, 300-bed general hospital; \$9000; southeastern resort city 50,000. (f) **Associate Medical Director**; M.D. able to administer program providing clinical papers supporting product line; some travel; technical division, midwestern pharmaceutical company. (g) **Biochemist**; Ph.D. experienced clinical chemistry; supervise section, 300-bed university-affiliated hospital; \$10,000; West. (h) **Associate Director Clinical Research**; research-minded M.D., industrial experience preferred; plan, supervise clinical investigation of new drugs; travel required; client pays fee; prominent midwestern company. (i) **Biochemist**; Ph.D. to head department, busy laboratory, approved 250-bed general hospital; \$12,000; Southeast. (j) **Director, Clinical Research**; midwestern branch, prominent company; requires M.D. experienced clinical pharmaceutical research; to \$12,000. Science Division, Woodward Medical Bureau, Ann Woodward, Director, 185 North Wabash Avenue, Chicago. X

## POSITIONS OPEN



### ARMOUR PHARMACEUTICAL COMPANY

has need of a creative independent investigator to head a project in pharmacological research. Excellent opportunity to investigate with considerable freedom in a relatively unexplored area. Ph.D. Pharmacologists and Physiologists are invited to apply. Write E. J. Reidy, Personnel Manager, Box 511, Kankakee, Illinois.

### BIOLOGICAL SCIENTIST

Large Philadelphia pharmaceutical firm has challenging opening for scientist in evaluation of laboratory and clinical studies of new drugs. Applicants should be biochemistry and/or physiology graduates with master's degree or similar background or training. Outstanding benefit program includes tuition assistance. Please submit complete résumé to L. H. Watson, Smith Kline & French Laboratories, 1540 Spring Garden St., Philadelphia 1, Pa.

### BIOLOGIST

M.S. or equivalent. Dynamic eastern pharmaceutical company seeks young scientist with sound training in virology and tissue cell culture or related fields, to participate in newly organized project in chemotherapy of virus diseases. Send résumé and references to

Box 225, SCIENCE

### BIOPHYSICISTS & BIOCHEMISTS—

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**Chief of Pediatrics** for internationally known chest hospital. Pediatric service now 50 beds, to be expanded to approximately 125 beds. Includes tuberculosis, cardiac disease amenable to surgical intervention, asthma, cystic fibrosis, and other chest entities. Active research, teaching, and rehabilitation programs. Mail curriculum vitae to Dr. S. Dressler, Chief of Staff, National Jewish Hospital, 3800 East Colfax Avenue, Denver, Colorado. 1/6, 13, 20

(a) **Protozoologist** for insect disease research at agriculture institute; foreign. (b) **Neurophysiology Assistant Professor** for medical school; ample research opportunities; \$8000–\$10,000; South. (c) **Pharmacologist** for new research laboratories of expanding firm; East. (d) **Medicinal Chemistry Research Director** to plan program and supervise senior chemists for leading drug firm; advancement opportunities; \$15,000–\$20,000; East. (e) **Biochemist** to head section in large hospital, teach, and conduct research; around \$9500; Pacific Northwest. (f) **Bacteriologist** for active hospital; \$9000; Southeast. (g) **Embryology Assistant Professor** to organize and teach course to science and medical students at leading university; foreign. (h) **Chemists** with radioisotope training for nuclear science research firm; around \$10,000; East. (i) **Biology Associate or Assistant Professor** interested in cytology, virology, or animal physiology for teaching and research at university; East. (Please write for details; also many other positions available through our nationwide service.) \$12–\$5 Medical Bureau, Inc., Science Division, Burnside Larson, Chairman, 900 North Michigan Avenue, Chicago. **BEST SOURCE FOR BEST MEDICAL-SCIENTIFIC POSITIONS.**

### FELLOWSHIPS

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for Ph.D. candidates beginning 1 September. Annual stipends up to \$3200. Research in red blood cell chemistry, enzyme chemistry, plant biochemistry, protein physical chemistry, lipid metabolism, clinical chemistry. Write to Head, Department of Biochemistry, University of Alberta, Edmonton, Canada. 12/16, 23, 30

## POSITIONS OPEN

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**DISPLAY:** Insertions must be at least 1 inch in depth. Weekly 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
7 times in 1 year	36.00 per inch
13 times in 1 year	34.00 per inch
26 times in 1 year	34.00 per inch
52 times in 1 year	32.00 per inch

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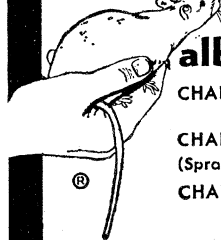
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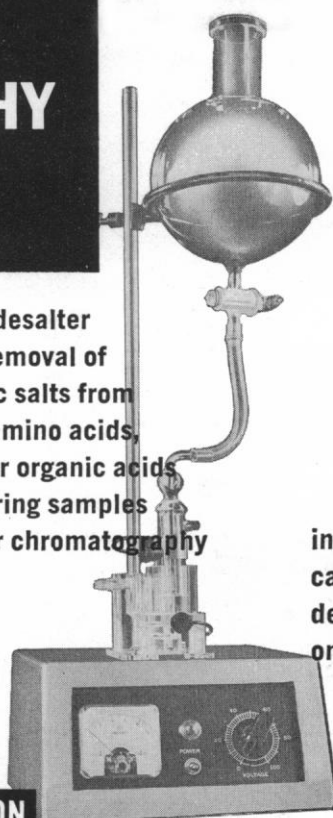
are needed by our library and institutional customers. Please send us lists and description of periodical files you are willing to sell at high market prices. Write Dept. A3S, CANNER'S, Inc., Boston 20, Massachusetts



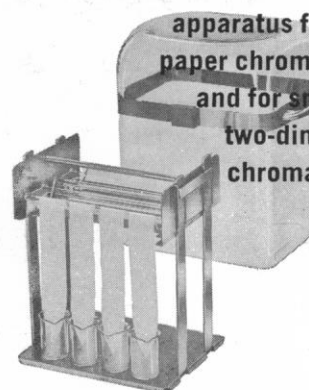
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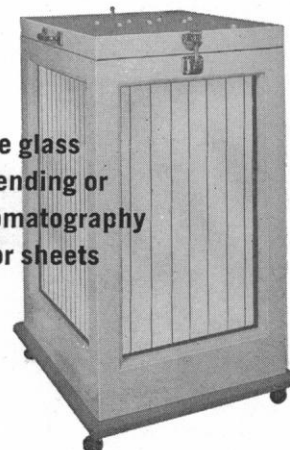
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for the removal of  
inorganic salts from  
sugars, amino acids,  
and other organic acids  
in preparing samples  
for paper chromatography



apparatus for eluting  
paper chromatograms  
and for small scale  
two-dimensional  
chromatography

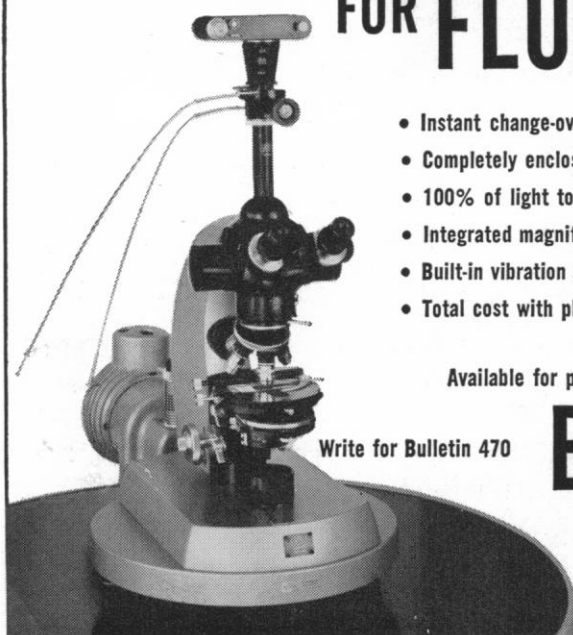


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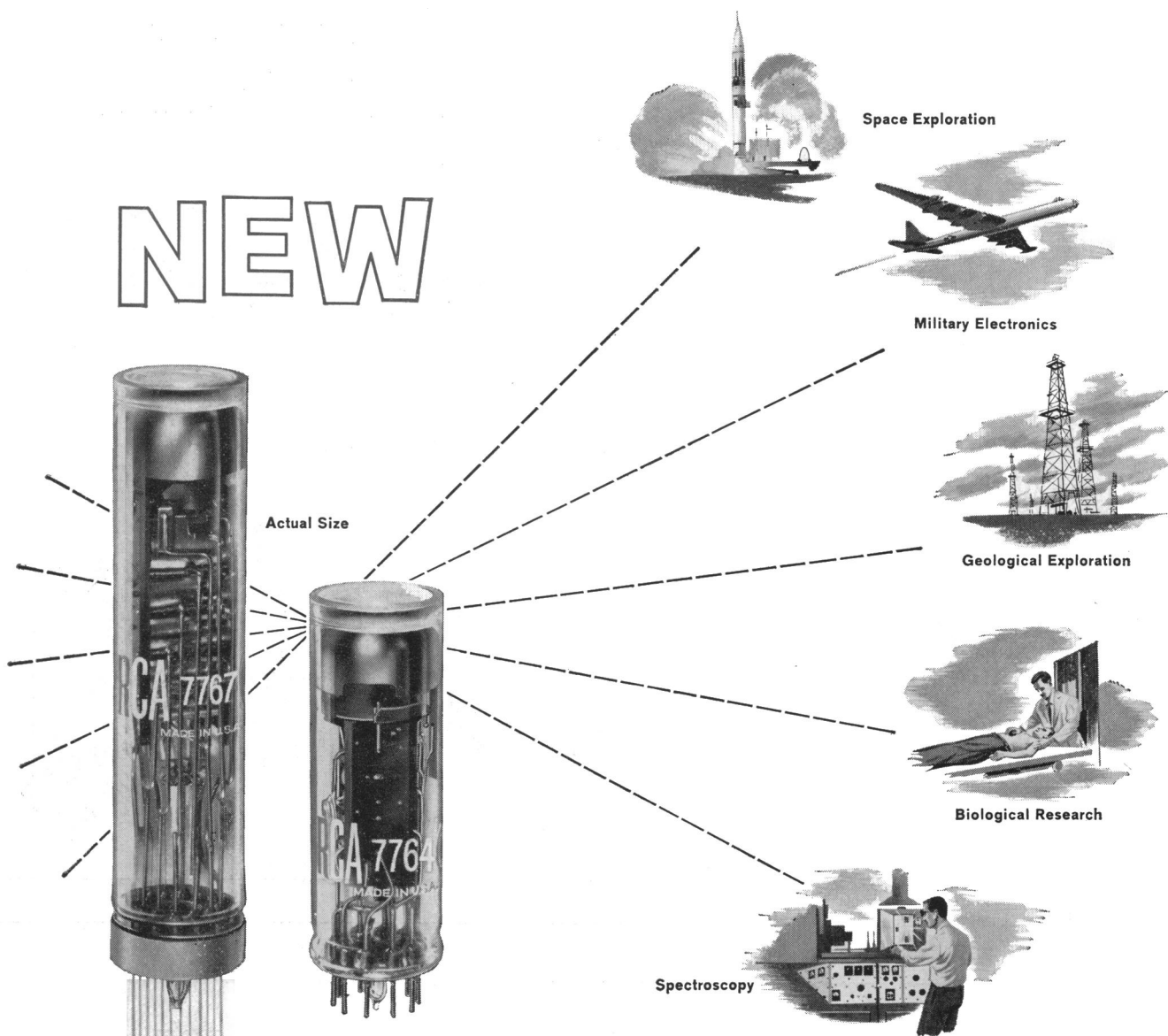
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THE FACTS		
Item	RCA-7767	RCA-7764
Stages	10	6
Median Sensitivity (Amperes/lumen)	7.5	0.3
Current Amplification	125,000	5000
Voltage Supply (Volts)	1250	1200
Response Range (Angstroms)	3000-6500 (S11)	3000-6500 (S11)
Max. Response (Angstroms)	Blue 4400	Blue 4400
Max. Rigid Length	4.0"	2.75"
Max. Diameter	0.78"	0.78"



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