predictions of the effect of fallout on tumors and life shortening have been based on very scanty evidence and unsupported assumptions. I proposed alternative methods of prediction that use information from animal experiments as well as available human data. I am forced regretfully to conclude that the fallout problem elicits such an emotional response that many otherwise sagacious and objective scientists lose their ability to read accurately and think clearly.

MIRIAM P. FINKEL

Argonne National Laboratory, Lemont, Illinois

Forthcoming Events

January

12-14. Reliability and Quality Control, 5th natl. symp., Philadelphia, Pa. (W. T. Sumerlin, Philco Corp., 4700 Wissahickon Ave.. Philadelphia 44.)

18-31. Bahamas Serendipity Session, Nassau, Bahamas. (B. L. Frank, 1290 Pine Ave., W. Montreal, Canada.)

20-22. American Mathematical Soc., annual winter, Philadelphia, Pa. (E. G. Begle, Leet Oliver Hall, Yale Univ., New Haven, Conn.)

21-22. American Group Psychotherapy Assoc., 3rd annual institute, New York,

N.Y. (C. Beukenkamp, Public Relations Chairman, 993 Park Avc., New York 28, N.Y.)

22-23. Mathematical Assoc. of America, 42nd annual, Philadelphia, Pa. (H. M. Gehman, MAA, Univ. of Buffalo, Buffalo 14, N.Y.)

23-24. American Group Psychotherapy Assoc., 16th annual conf., New York, N.Y. (C. Beukenkamp, Public Relations Chairman, 993 Park Ave., New York 28.)

23-24. Reproductive Physiology and Protein Nutrition, 15th annual conf. on protein metabolism, New Brunswick, N.J. (J. H. Leathem, Rutgers Univ., New Brunswick, N.J.)

24-29. American Acad. of Orthopedic Surgeons, Chicago, Ill. (C. L. Compere, 720 N. Michigan Ave., Chicago, Ill.)

26-29. American Meteorological Soc., New York, N.Y. (K. C. Spengler, AMS, 3 Joy St., Boston 8, Mass.)

26-29. American Soc. of Heating and Air Conditioning Engineers, 65th annual, Philadelphia, Pa. (W. M. Vidulich, ASHACE, 62 Worth St., New York 13.)

26-29. Institute of the Aeronautical Sciences, 27th annual, New York, N.Y. (IAS, 2 E. 64 St., New York 21.)

26-30. Writing and Publication in Industry, conf. and workshops, Brooklyn 1, N.Y. (T. L. Donahue, Writing and Publication Conf., Polytechnic Inst. of Brooklyn, 333 Jay St., Brooklyn 1.)

27-30. Society of Plastics Engineers, Inc., 15th annual tech. conf., New York, N.Y. (L. A. Bernhard, SPE, 65 Prospect St., Stamford, Conn.)

28-29. Nuclear Fuel Elements, 1st intern. symp., New York, N.Y. (H. H. Hausner, 1st Intern. Symp. on Nuclear Fuel Elements, 730 Fifth Ave., New York

28-31. American Physical Soc., annual, New York, N.Y. (E. R. Fitzgerald, Dept. of Physics, Pennsylvania State Univ., University Park.)

29-31. Western Soc. for Clinical Research, 12th annual, Carmel-by-the-Sea, Calif. (W. N. Valentine, Office of the Secretary, Univ. of California Medical Center, Department of Medicine, Los Angeles 24.)

February

1-6. American Inst. of Electrical Engineers, winter general, New York N.Y. (N. S. Hibshman, 33 W. 39 St., New York 18.)

3-5. Reinforced Plastics Conf., 14th, Chicago, Ill. (Soc. of Plastics Industry, Inc., 250 Park Ave., New York 17.)

6-7. American College of Radiology, Chicago, Ill. (W. C. Stronach, 20 N. Wacker Dr., Chicago 6.)

9-11. American Acad. of Allergy, Chicago, Ill. (B. Rose, Royal Victoria Hospital, Montreal, P.Q., Canada.)

9-11. Nature of Coal, symp., Bihar, India. (Director, Central Fuel Research Inst., P. O. Fuel Research Inst., Dhanbad District, Bihar.)

11-13. American Acad. of Occupational Medicine, Boston, Mass. (L. Blaney, 1608 Walnut St., Philadelphia, Pa.)

12-13. Solid State Circuits Conf., Philadelphia, Pa. (A. B. Stern, General Electric Co., Bldg. 3, Syracuse, N.Y.)

BENCH-TOP CHROMATOCAB

for Paper Chromatography

Replace your breakable jars with a permanent cabinet of like size and cost.

- Thermally insulated, all sides
 superior to glass jars
- Vapor Seal gasket & locks, no grease
- All-glass Solvent Assemblies
 interchangeable in 12"
 square jars
- Solvent Refill Holes polyethylene capped
- Easy portability compact size, light weight





TELEPHONE: BEACON 5-9110 TELETYPE TWX: RICH CAL 1433

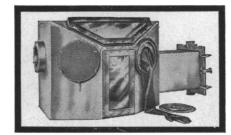


RESEARCH SPECIALTIES CO.

200 SOUTH GARRARD BLVD.

RICHMOND, CALIFORNIA

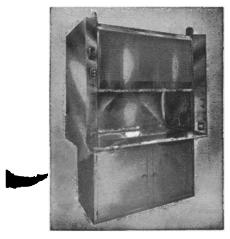
for work in a controlled atmosphere



BLICKMAN **VACUUM DRY BOX**

Designed for safe handling of radio-isotopes, reactor fuel containing Plutonium or U233 and other hazardous substances. With air-lock, it can be sealed to create a vacuum. Fabricated of stainless steel plate-34" long x 26" high x 24" wide at base. Air-lock measures 18" x 12". Send for Technical Bulletin A-2.

FOR SAFE HANDLING OF RADIOACTIVE MATERIALS



BLICKMAN FUME HOOD

Originally designed and developed for the AEC, this Fume Hood assures maximum safety in the handling of radioactive materials and radioactive isotopes. Sturdy 14-gauge stainless steel, round corner construction provides long life...easy cleaning and decontamination. Send for Technical Bulletin E-3. S. Blickman, Inc., 6911 Gregory Avenue, Weehawken, N. J.

BLICKMAN LABORATORY EQUIPMENT

Look for this symbol of quality



14. Short Range Navigation Aids., Montreal, Canada. (Intern. Civil Aviation Organization, Maison de l'Aviation Internationale, Montreal.)

15-19. American Inst. of Mining, Metallurgical, and Petroleum Engineers, annual, San Francisco, Calif. (E. O. Kirkendall, AIME, 29 W. 39 St., New York

16-19. Problems in Field Studies in Mental Disorders, intern. work conf., New York, N.Y. (J. Zubin, American Psychopathological Assoc., 722 W. 168 St., New York 32.)

20-21. Epidemiology in Mental Disorders, annual meeting of the American Psychopathological Assoc., New York, N.Y. (J. Zubin, APA, 722 W. 168 St., New York 32.)

25-26. Midwest Industrial Radioisotopes Conf., Manhattan, Kan. (J. Kitchens, Dept. of Continuing Education, Kansas State College, Manhattan.)

26-28. Genetics and Cancer, 13th annual symp. on fundamental cancer research, Houston, Tex. (Editorial Office, Univ. of Texas, M. D. Anderson Hospital and Tumor Inst. Texas Medical Center, Houston 25.)

27-1. National Wildlife Federation, 23rd annual convention, New York, N.Y. (NWF, 232 Carroll St., NW, Washington

March

1-5. Gas Turbine Power Conf., Cincinnati, Ohio. (O. B. Schier, ASMÉ, 29 W. 39 St., New York, N.Y.)

8-9. American Broncho-Esophagological Assoc., Hot Springs, Va. (F. J. Putney, 1712 Locust St., Philadelphia, Pa.)

8-9. American Laryngological Assoc., Hot Springs, Va. (J. H. Maxwell, University Hospital, Ann Arbor, Mich.)

8-12. Aviation Conf., Los Angeles, Calif. (O. B. Schier, ASME, 29 W. 39 St., New York, N.Y.)

10-12. American Laryngological, Rhinological and Otological Soc., Hot Springs, Va. (C. S. Nash, 708 Medical Arts Bldg., Rochester 7, N.Y.)

13-14. American Otological Soc., Hot Springs, Va. (L. R. Boies, University Hospital, Minneapolis 14, Minn.)

15-20. American College of Allergists, San Francisco, Calif. (M. C. Harris, 450 Sutter St., San Francisco.)

16-20. American Inst. of Chemical Engineers, Atlantic City, N.J. (F. J. Van Antwerpen, AICE, 25 W. 45 St., New York 36.)

16-20. National Assoc. of Corrosion Engineers, 15th annual conf., Chicago, Ill. (NACE, Southern Standard Bldg., Houston, Tex.)

17-19. National Health Council, Chicago, Ill. (P. E. Ryan, 1790 Broadway, New York, 19.)

18-25. International Social Science Council, 4th general assembly (by invitation), Paris, France. (C. Levi-Strauss, Secretary-General, International Social Science Council 19, avenue Kleber, Paris.)

19-21. Society for Research in Child Development, NIH, Bethesda, Md. (Miss N. Bayley, Laboratory of Psychology, National Inst. of Mental Health, Bethesda 14, Md.)



For every requirement-**MICROSCOPY** at its finest

Here is the WILD*M-20, internationally renowned for its superb optics, traditionally fine Swiss craftsmanship and almost unbelievable versatility.

The M-20 microscope is unexcelled for research and scientific exploration in any field of microscopy. It is available with sextuple revolving nosepiece if desired, 20-Watt built-in illumination, beam-splitting phototube for binocular focusing for photomicrography, and a full range of attachments for all observation methods.

Attachments include Camera II (shown in illustration), Cinetube, Universal Lamp, Episcopic Equipment, Phase Contrast and Incident Light.

Camera II permits continuous binocular observation. The phototube deflects 25% of light to the binocular tube. A special format indicating eyepiece permits rapid, perfect focusing.

Your consideration of the WILD M-20 will prove most rewarding. Write for Booklet M-20 today.

*The FIRST name in Surveying Instruments, Photogrammetric Equipment and Microscopes



Full Factory

INSTRUMENTS, INC.

Main at Covert Street • Port Washington, New York POrt Washington 7-4843

In Canada

Wild of Canada Ltd., 157 Maclaren St., Ottawa, Ontaric

1584 SCIENCE, VOL. 128 23-26. Institute of Radio Engineers, natl. conv., New York, N.Y. (G. L. Haller, IRE, 1 E. 79 St., New York 21.)

29-3. Latin American Congress of Chemistry, 7th, Mexico D.F., Mexico.) R. I. Frisbie, Calle Ciprès No. 176, Zone 4, Mexico, D.F.)

30-1. American Orthopsychiatric Assoc., San Francisco, Calif. (M. F. Langer, 1790 Broadway, New York 19.)

30-12. Bahamas Medical Conf., 7th, Nassau. (B. L. Frank, 1290 Pine Ave., W. Montreal, Canada.)

31-2. Symposium on Millimeter Waves, 9th, New York, N.Y. (H. J. Carlin, Microwave Research Inst., 55 Johnson St., Brooklyn 1, N.Y.)

31-5. International Committee of Military Medicine and Pharmacy, 21st session, Paris, France. (Comité International de Médecine et de Pharmacie Militaires, Hôpital Militaire, 79, rue Saint Laurent, Liège, Belgium.)

April

1-3. American Assoc. of Anatomists, Seattle, Wash. (B. Flexner, Univ. of Pennsylvania Medical School, Philadelphia 4, Pa.)

1-4. National Council of Teachers of Mathematics, Dallas, Tex. (H. T. Karnes, Dept. of Mathematics, Louisiana State Univ., Baton Rogue 3.)

1-4. National Science Teachers Assoc., 7th natl. conv., Atlantic City, N.J. (R. H. Carlton, NSTA, 1201 16 St., NW, Washington 6.)

1-4. Neurosurgical Soc. of America, Hot Springs, Va. (F. P. Smith, 260 Crittenden Blvd., Rochester 20, N.Y.)

1-29. World Meteorological Organization, 3rd session of congress, Geneva, Switzerland. (WMO, Campagne Rigot, 1, avenue de la Paix, Geneva.)

2-4. Association of American Geographers, 55th annual, Pittsburgh, Pa. (J. E. Guernsey, 9707 Parkwood Dr., Bethesda, Md.)

2-4. Association for Computing Machinery, Cleveland, Ohio. (J. Moshman, Corporation for Economic and Industrial Research, 1200 Jefferson Davis Highway, Arlington 2, Va.)

2-4. Optical Soc. of America, New York, N.Y. (S. S. Ballard, Scripps Institution of Oceanography, Univ. of California, San Diego 52.)

3-4. Eastern Psychological Assoc., Atlantic City, N.J. (C. H. Rush, Standard Oil Co. of New Jersey, Rockefeller Plaza, New York, N.Y.)

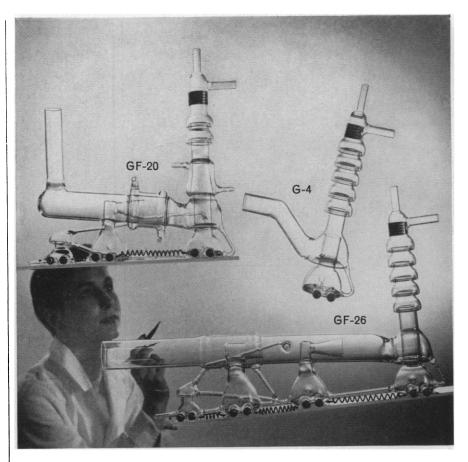
3-5. American Soc. for the Study of Sterility, Atlantic City, N.J. (H. H. Thomas, 920 S. 19 St., Birmington 5, Ala.)

3-5. Cooper Ornithological Soc., Berkeley, Calif. (J. Davis, Univ. of California, Hastings Reservation, Jamesburg Route, Carmel Valley.)

5-9. American College of Obstetricians and Gynecologists, Atlantic City, N.J. (J. C. Ullery, 15 S. Clark St., Chicago 3, Ill.)

5-10. American Chemical Soc., 135th, Boston, Mass. (M. A. H. Emery, 18th and K St., NW, Washington, D.C.)

5-10. Nuclear Congress, Cleveland, Ohio. (S. Baron, Burns & Roe, Inc., 160 West Broadway, New York 13.)



get high vacuum at low cost

You can reach pressures as low as 5×10^{-7} mm Hg quickly with these CEC glass oil-diffusion pumps.

Their simple operation and low price—as little as \$68, the highest \$345—make them ideal for laboratory and small industrial applications.

Besides high vacuum at low cost

you get these other advantages: glass resistant to corrosion from many gases; direct inspection of the level and condition of pump fluid in the boiler(s); view of pump in operation; easy, quick pump-cleaning.

Send for Bulletin No. 6-1 for complete technical data.

G-4—A single-stage, semi-fractionating pump. Air-cooled. Ultimate pressure: 5 x 10-6mm Hg without a cold trap. Speed: 4 liters a second. Limiting forepressure: 0.1mm Hg. Typical applications: evacuation of neon tubing, discharge tubes, and fluorescent tubes.

Price: \$68

GF-20—A two-stage, fractionating pump. Air- or water-cooled. Ultimate pressure: 5×10^{-7} mm Hg without a cold trap. Speed: 20 liters a second. Limiting forepressure: 0.2mm Hg. Typical application: evacuation of medium-sized electronic tubes.

Price: Air-cooled \$185. Water-cooled \$225. **GF-26**-A three-stage, fractionating pump. Air- or water-cooled. Ultimate pressure: 5×10^{-7} mm Hg without a cold trap. With careful adjustment of heater input and cooling, and after baking all metal parts of the system, you can reach 8×10^{-8} mm Hg. Add a cold trap and you can drop further to the 10^{-9} mm Hg region. Speed: 25 liters a second. Limiting forepressure: 0.16mm Hg. Typical applications: evacuation of X-ray and high-power electronic tubes, and for apparatus used to produce molecular rays, for ultra-high vacuum studies and similar applications.

Price: Air-cooled \$260. Water-cooled \$345.

Consolidated Electrodynamics



Rochester Division, Rochester 3, N. Y.

SALES AND SERVICE OFFICES IN PRINCIPAL CITIES

1585