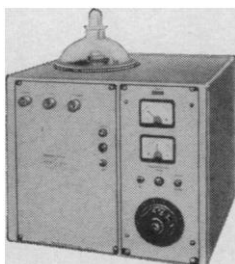


# FREEZE / DRYING PROCESS

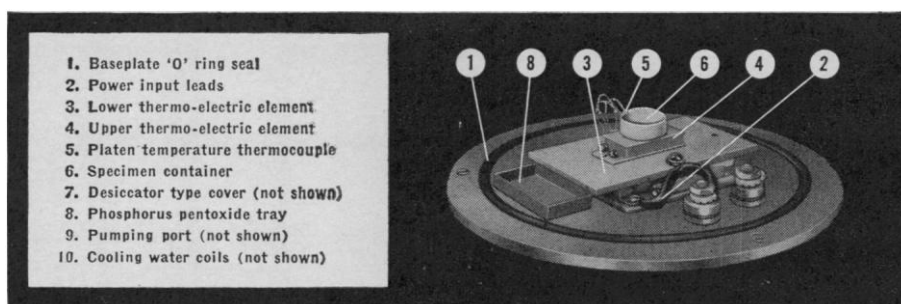
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sitive government positions) should be carefully and continually scrutinized lest we find that George Orwell's 1984 is upon us."

Nonetheless, though skepticism may be growing in some quarters, the device continues to have some strong advocates. To quote from an endorsement supplied the manufacturer of Keeler Polygraphs by the sheriff of Ouachita Parish, Louisiana, "The lie detector's use in law enforcement is becoming more widespread every day, and we here in the Ouachita Sheriff's Office feel that its effective use as a scientific aid is limited only by our imaginations, and its application is unlimited."—ELINOR LANGER

## Announcements

The Committee on the Undergraduate Program in Mathematics (CUPM) of the Mathematical Association of America has prepared a draft of recommendations for the mathematical preparation of students in the biological, management, and social sciences (BMSS). The committee's BMSS panel is making these recommendations available to interested persons, and invites their comments on the report's appropriateness and feasibility. Copies of these recommendations can be obtained from the CUPM, P.O. Box 1024, Berkeley, Calif. 94701.

Case Institute of Technology has established a Ph.D. program in "organizational behavior," headed by Herbert A. Shepard, director of the Organizational Behavior Group in the school's Division of Organizational Sciences. The program will emphasize the "process of social adaptation in an era of rapidly changing technology, particularly as it affects human behavior in organizations." Candidates will be chosen on the basis of their academic records and personal interviews; the equivalent of a year's college work in statistics is required. (H. A. Shepard, Case Institute of Technology, Cleveland 6, Ohio)

## Meeting Notes

New techniques in the use of the motion picture as a research tool, a means of communication of research findings, and as an instrument for science education will be discussed at

the science film exposition and annual meeting of the American **Science Film Association**, scheduled 11-13 May in Washington. The films presented will include single-concept educational films, time-lapse and high-speed cinematography, and computerized animation. (ASFA, 704 17th St., NW, Washington, D.C. 20006)

A symposium on **learning and associated phenomena in invertebrates** is scheduled 6-9 July at Cambridge University, England. It is sponsored by the Association for the Study of Animal Behavior, Great Britain, and the American Society of Zoologists' division of animal behavior. (D. Davenport, Department of Biological Sciences, University of California, Santa Barbara)

### Scientists in the News

The following persons have been appointed to 3-year terms on the National Research Council of Canada:

**William H. Gauvin**, research manager, Noranda Research Centre, Pointe Claire, Quebec;

**D. J. LeRoy**, head, chemistry department, University of Toronto;

**H. Rocke Robertson**, principal, McGill University, Montreal;

**H. H. Saunderson**, vice chancellor and president, University of Manitoba, Winnipeg.

The other members of the NRC are: **H. E. Duckworth**, dean of graduate studies, McMaster University, Hamilton, Ontario;

**R. F. Farquharson**, chairman, Medical Research Council;

**H. E. Gunning**, professor and head, chemistry department, University of Alberta, Edmonton;

**Claude Jodoin**, president, Canadian Labour Congress.

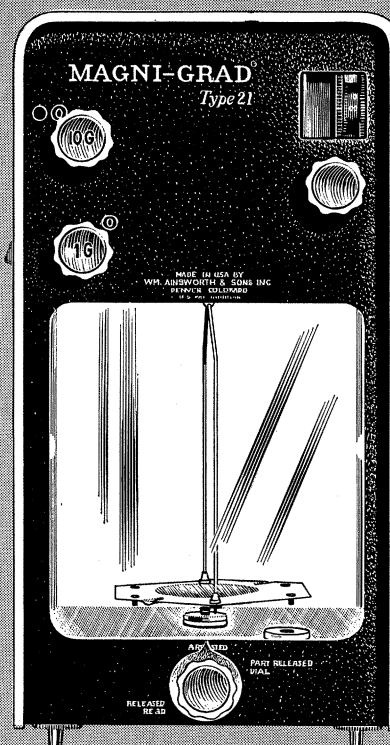
The Atomic Energy Commission has named five persons to receive the 1964 Ernest Orlando Lawrence award in atomic energy. Each scientist will be presented a medal, citation, and \$5000 honorarium, 30 April in Washington. The recipients are:

**Jacob Bigeleisen**, Brookhaven National Laboratory, Upton, N.Y.; for "theoretical contributions and experimental advances in the separation of isotopes."

**Albert L. Latter**, Rand Corporation, Santa Monica, Calif.; for his work on the "determination of the destructive effects [and] . . . detection of nuclear

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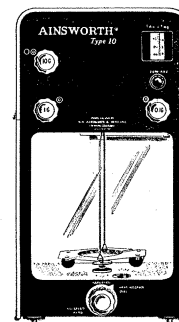
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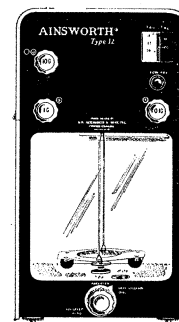
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explosions and . . . design of nuclear weapons."

**Harvey M. Patt**, division of biological and medical research, Argonne National Laboratory, Ill.; for "research in . . . radiation protection and . . . contributions to the present understanding of the dynamics of white blood cell formation."

**Marshall N. Rosenbluth**, General Atomic Division, General Dynamics Corp., San Diego, California; for "developing the theory of scattering of electrons by nucleons . . . contributions in planning the first thermonuclear explosion, and . . . the theoretical understanding of plasmas."

**Theos J. Thompson**, Massachusetts Institute of Technology, Cambridge, Mass.; for "leadership in developing safe, useful and economic reactors."

**Willem J. Luyten**, chairman of the University of Minnesota's astronomy department, has been named to receive the James Craig Watson Medal, the oldest prize presented by the National Academy of Sciences. He will be cited for his contributions to the understanding of "white-dwarf" stars.

#### Recent Deaths

**Rudolf Altschul**, 63; head of the anatomy department, University of Saskatchewan, Canada; 4 November.

**Albert Compton Broders**, 78; retired director of the surgical pathology division, Mayo Clinic, Rochester, Minn.; 27 March.

**William G. Downs, Jr.**, 66; biology professor and director of the biology research center, Tennessee Polytechnic Institute; 6 January.

**Raymond George Gottschalk**, 49; chief of pathology and head of cancer research, Veterans Administration Hospital, Martinsburg, West Virginia; 8 March.

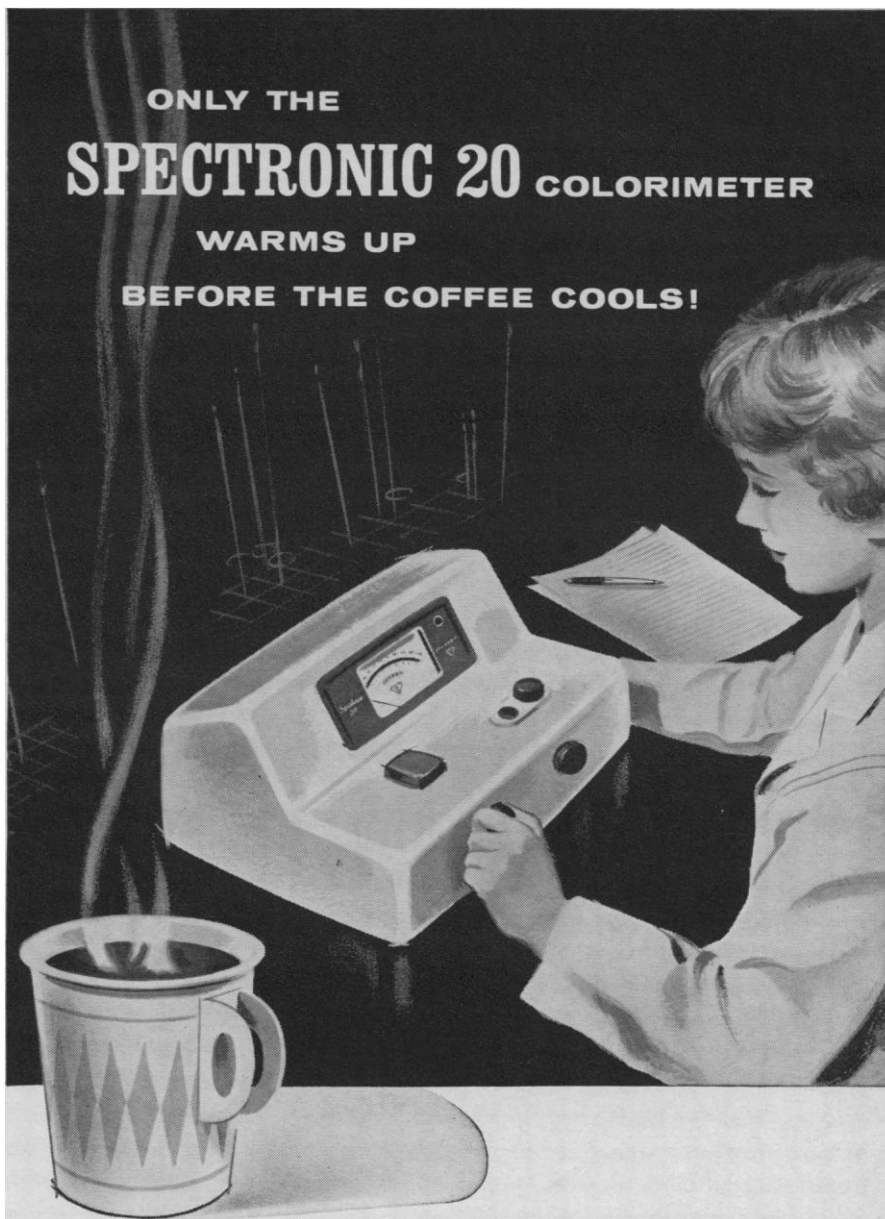
**Henry John Hrostowski**, 39; associate physics professor at the University of Oregon; 15 March.

**Leslie A. Kenoyer**, 81; professor emeritus and former head of the biology department, Western Michigan University; 2 January.

**Anthony J. Lanza**, 80; professor emeritus of industrial medicine, New York University Medical Center; 23 March.

**Ivey Foreman Lewis**, 81; professor emeritus of biology and agriculture, retired dean, University of Virginia; 16 March.

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