Meetings

Society in the Ancient Near East

On 4–7 Dec. 1958, a symposium was held in the Oriental Institute of the University of Chicago, on "The Expansion of Society in the Ancient Near East and its Cultural Implications." There were some 70 invited participants, of whom 20 represented other institutions in this country and institutions abroad. About half of the group were scholars whose competence lay in the natural and social sciences and in the culture-historical sequences of areas other than those of the ancient Near East. The remainder of the

group consisted of specialists in the archeology, philology, and culture-history of the eastern end of the Mediterranean in pre-Greek, Greco-Roman, and Islamic times.

The symposium included a series of general background papers prepared by Robert M. Adams, Robert J. Braidwood, Mircea Eliade, I. J. Gelb, David Grene, G. E. von Grunebaum, Clyde Kluckhohn, Karl Polanyi, Max Rheinstein, Otto von Simson, and Milton Singer, respectively. There were introductory and concluding addresses by Lewis Mumford. The six sessions dealt with the background for the expansion of society in the alluvium and the upland of the Near East, with the development of cul-

ture in the national states, and with the development of cultures in the great empires. Discussion leaders included R. M. Adams, N. Glueck, I. P. H. Jacobsen, B. Landsberger, J. A. Wilson, H. Guterbock, and C. H. Kraeling.

It has been traditional for scholars concerned with the ancient Near East to restrict their studies to their own area of competence. The success of the symposium rested in fair part on the fact that these traditional scholarly concerns were communicated to and drew fruitful discussion from interested colleagues in the natural and social sciences and from culture-historians concerned with other areas of the Old and New Worlds. As the symposium progressed, the expansion of society and the appearance and development of urban civilization in the ancient Near East came to be seen against a broad background of general phenomena in both natural and cultural history.

Given the present order of incompleteness of knowledge, it was natural that there were more new problems raised than old problems solved. The importance of the symposium rests in its success as a means of bringing about cross-disciplinary communication. The proceedings of the symposium will be published by the Oriental Institute as soon as practicable.

CARL H. KRAELING

Oriental Institute, University of Chicago, Chicago, Illinois

Millipore brief #155

Identification of Micron and Submicron

Techniques are described for identification and size estimation of water or acid-soluble atmospheric particles. After collection, MF filter is placed on appropriate reagent solution (from 3 to 20 minutes). Filters are then washed, dried, mounted and microscopically examined (dark field) for characteristic reaction "spots." Reagents and spot characteristics are given.

Lodge, J. P., Jr., Tufts, B. J. Tellus VII, 1956, 2

Millipore BRIEF #201

Methods for the Evaluation of Pasteurization.

Two methods, one enzymatic and one microbiological, are described to test beer for adequacy of the pasteurization received. The second method uses an HA Millipore filter to retain all organisms from a beer sample. Yeast colonies will develop on the MF in 36 to 48 hours on hopped wort at 23°C . Lactobacilli and pediococci develop on the MF in 6 to 14 days on hopped wort agar in CO2 atmosphere at 23°C .

Haas, G. J., Fleischman, A. I. Wallerstein Laboratory Communications XX:68, March, 1957

Willipore BRIEF #166

Use of Membrane Filters in the Measurement of Biological Incorporation of Radioactive Isotopes.

A technique is presented for accurately estimating by direct radiation counting the total isotope incorporation into metabolizing cells. After exposure to the labeled substrate (C $^{14}O_2$) the cells are killed, transferred to 10-20 ml. $\rm H_2O$, and filtered through a 1" HA Millipore filter. After flushing and drying, the MF is introduced into a gas-flow chamber for direct counting of B radiation from the dry cells.

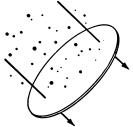
Atkinson, D. E., McFadden, B. A. Journal Bacteriology, 71:1:123-24, 1956

Millipore BRIEF #217

Critical Comparison of Collection Efficiencies of Commonly Used Aerosol Sampling Devices.

The extent to which the theory of collection techniques could be applied to commonly-used field instruments has been determined. Instruments included sedimentation chambers, MSA electric precipitator, Greenberg-Smith impinger, Millipore Filters, Cassella thermal precipitator and an impactor. Collection efficiencies for MF's were greater than 99% for all aerosols. Glycerol aerosols were collected at greater than 99.995% with the MF— the limit of measurement.

Schadt, C., Cadle, R. D. Analytical Chemistry, 29:6:864-68, June, 1957



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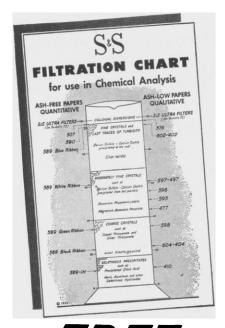
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Pan American Medical Congress to Include Space-Medicine Section

The next congress of the Pan American Medical Association, 745 Fifth Ave., New York 22, N.Y., is to be held in Mexico City, from 2 May to 11 May 1960. Some 5000 physicians from the 22 American nations are expected to attend. The scientific program of the congress, through its 48 different medical sections, will include all branches of medicine and surgery; also a section on dentistry. The congress will also have scientific and commercial exhibits, panels on special subjects, medical motion pictures, and closed-circuit television demonstrations of surgical and dental techniques. There will be some new sections, such as a section on hematology, a section on general medical practice, and-of special interest-a section on space medicine.

Major General Otis O. Benson, Jr., commandant of the School of Aviation Medicine, Randolph Air Force Base, Tex., has been named president of the space-medicine section, and S. Fred Singer, professor of physics at the University of Maryland, is secretary. The Latin American chairman of the section is Col. Raul Terres y Prieto, M.C.,



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surgeon general of the Mexican Air Force, while Brig. Gen. Donald D. Flickinger, staff surgeon and director of life sciences, Air Research and Development Command, is North American chairman.

Semiconductor Surfaces

A conference on semiconductor surfaces will be held at the U.S. Naval Ordnance Laboratory, White Oak, Silver Spring, Md., 3-4 December, under the sponsorship of NOL and the Office of Naval Research. Papers are invited on the following subjects: clean germanium and silicon surfaces, etched and chemically treated germanium and silicon surfaces, theory of surface properties, surface chemistry, and new experimental approaches. The proceedings will be published. Those interested in attending the conference or in submitting papers may write for information to the chairman of the steering committee, Dr. J. N. Zemel, U.S. Naval Ordnance Laboratory, White Oak, Silver Spring, Md.

Summer Biological Symposium

"Cell Structure and Function" will be the theme of the tenth annual Biological Symposium, to be held 6-8 July at the University of Michigan under the auspices of the division of biological sciences. Five prominent scientists from this country and abroad have been invited to discuss their recent work in this field. They are S. Granick and George E. Palade of the Rockefeller Institute for Medical Research; H. E. Huxley of the department of biophysics, University College, London; Hans Ris of the Department of zoology, University of Wisconsin; and C. F. Robinow of the Faculty of Medicine, University of Western Ontario. For information about housing and other details, communicate with Dr. John M. Allen of the Department of Zoology, University of Michigan, Ann Arbor, Mich.

Forthcoming Events

July

19-24. American Crystallographic Assoc., Ithaca, N.Y. (J. Waser, Rice Inst., Houston 5, Tex.)

19-25. Pediatrics, 9th intern. cong., Montreal, Canada. (R. L. Denton, P.O. Box 215, Westmount, Montreal 6.)

20-26. Radiation and Atmospheric Ozone, joint symp., by Intern. Union of Geodesy and Geophysics and World Meteorological Organization, Oxford, England. (WMO, Campagne Rigot, 1, avenue de la Paix, Geneva, Switzerland.)

22-23. Rocky Mountain Cancer Conf., Denver, Colo. (N. Paul Isbell, 835 Republic Bldg., Denver 2.) 23-30. Radiology, 9th intern. cong., Munich, Germany. (Sekretariat des 9 Internationalen Kongresses für Radiologie, Reitmorstrasse 29, Munich 22.)

26-30. International Psychoanalytical Assoc., Copenhagen, Denmark. (Miss P. King, 37 Albion St., London, W.2, 27-4. International Federation of

27-4. International Federation of Translators, Bad Godesberg, Germany. (Dritter Internationaler FIT-Kongress, Kongress Sekretariat, Bundesverband der Dolmetscher und Übersetzer e. V. (BDÜ) Hausdorfstrasse 2, Bonn, Germany.)

30-31. Computers and Data Processing, 6th annual symp., Estes Park, Colo. (W. H. Eichelberger, Denver Research Inst., Univ. of Denver, Denver 10, Colo.)

August

1-8. World Congress of Esperantists, 44th, Warsaw, Poland. (Office of Intern. Conferences, Dept. of State, Washington 25.)

4-5. American Astronautical Soc., 2nd annual western, Los Angeles, Calif. (A. P. Mayernik, AAS, 6708 53 Rd., Maspeth 78, N.Y.)

6-8. Human Pituitary Hormones, colloquium (by invitation only), Buenos Aires, Argentina. (G. E. W. Wolstenholme, Ciba Foundation, 41 Portland Place, London W.2, England.)

Place, London W.2, England.)
9-12. American Soc. of Mechanical
Engineers (Heat Transfer Div.), conf.,
Storrs, Conn. (D. B. MacDougall, ASME,
29 West 39 St., New York 18.)

9-15. Physiological Sciences, 21st intern. cong., Buenos Aires, Argentina. (C. F. Schmidt, Univ. of Pennsylvania School of Medicine, Philadelphia 4.)

10-13. National Medical Assoc., Detroit, Mich. (J. T. Givens, 1108 Church St., Norfolk, Va.)

10-13. Society of Automotive Engineers, natl. West Coast meeting, Vancouver, B.C., Canada. (R. W. Crory, Meetings Operation Dept., SAE, 485 Lexington Ave., New York 17.)

16-19. Botanical Nomenclature, discussions (Intern. Bureau for Plant Taxonomy and Nomenclature), Montreal, Canada. (J. Rousseau, Natl. Museum, Ottawa, Canada.)

16-21. American Pharmaceutical Assoc., Cincinnati, Ohio. (R. P. Fischelis, APA, 2215 Constitution Ave., NW, Washington 7.)

17. Ultrasonics, natl. symp., San Francisco, Calif. (L. G. Cumming, Inst. of Radio Engineers, 1 E. 79 St., New York 21.)

17-21. Pacific Southwest Assoc. of Chemistry Teachers, Pacific Grove, Calif. (W. A. Craig, 416 N. Citrus Ave., Los Angeles 36, Calif.)

17-22. Logopedics and Phoniatrics, 11th intern. cong., London, England. (Miss P. Carter, 46 Canonbury Square, London N.1, England.)

19-26. Refrigeration, 10th intern. cong., Copenhagen, Denmark. (M. Kondrup, Danish Natl. Committee, Intern. Congress of Refrigeration, P.O. Box 57, Roskilde, Denmark.)

19-29. Botanical Cong., 9th intern., Montreal, Canada. (C. Frankton, Secretary-General, 9th Intern. Botanical Cong., Science Service Bldg., Ottawa, Ontario, Canada.)

19-29. International Assoc. of Wood Anatomists, Montreal, Canada. (IAWA, Laboratorium für Holzforschung E.T.H. Universitatstrasse 2, Zurich, Switzerland.)

19-29. Mycological Soc. of America, Montreal, Canada. (E. S. Beneke, Dept. of Botany and Plant Pathology, Michigan

State Univ., E. Lansing.)

19-29. Phycological Soc. of America, Montreal, Canada. (W. A. Daily, Dept. of Botany, Butler Univ., Indianapolis 7,

20-22. Rocky Mountain Radiological Soc., Denver, Colo. (J. H. Freed, 4200

E. Ninth Ave., Denver 20.)

20-25. Chemical Thermodynamics, symp., Wattens, Austria. (F. Vorländer, Deutsche Bunsen-Gesellschaft, Carl-Bosh-Haus, Varrentrappstrasse, 40-42, Frankfort a.M., Germany.) 20-27. Therapeutics, symp., Gardone,

Italy. (R. Morf, c/o Sandoz S.A., Basel

13, Switzerland.)

20-2. Limnological Cong., 14th intern., Vienna and Salzburg, Austria. (Secretary, 14th Intern. Limnological Congress, Biologische Station, Lunz am See, Austria.)

23-26. American Farm Economic Assoc., Ithaca, N.Y. (C. D. Kearl, Dept. of Agricultural Economics, Warren Hall,

Cornell Univ., Ithaca.)

23-27. Veterinary Medicine, 3rd Pan-American Cong., Kansas City, Mo. (B. D. Blood, Pan-American Congresses of Veterinary Medicine, P.O. Box 99, Azuk, Buenos Aires Province, Argentina.)

24-26. American Accounting Assoc., Boulder, Colo. (C. Cox, 437 Hagerty Hall, Ohio State Univ., Columbus 10.)

24-26. Anti-Submarine Warfare (classified), symp., San Diego, Calif. (R. R. Dexter, Inst. of the Aeronautical Sciences, 2 E. 64 St., New York 21.)

24-26. Dynamics of Conducting Fluids, (American Rocket Soc., and Northwestern Univ.), Evanston, Ill. (J. J. Harford, ARS, 500 Fifth Ave., New York 36.)

24-27. American Hospital Assoc., New York, N.Y. (E. L. Crosby, 18 E. Division

St., Chicago, Ill.)

24-28. Australian and New Zealand Assoc. for the Advancement of Science, 34th cong., Perth, Western Australia. (J. R. A. McMillan, Science House, 157 Gloucester St., Sydney, Australia.)

24-29. Infrared Spectroscopy Inst., 10th annual, Nashville, Tenn. (N. Fuson, Director, Infrared Spectroscopy, Fisk Univ.,

Nashville 8.)

24-29. International Assoc. for Hydraulic Research, cong., Montreal, Canada. (IAHR, c/o Laboratoire Hydraulique, Raam 61, Delft, Netherlands.)

24-29. Ionization Phenomena in Gases, 4th intern. conf., Upsala, Sweden. (A. Nilsson, Secretary-General, Inst. of Physics, Upsala, Sweden.)

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24-29. Polarography, 2nd intern. cong., Cambridge, England. (Mrs. B. Lamb, Chemistry Lab., Evershed & Vignoles, Corner of Iveagh Ave., N. Circular Rd., London N.W.10, England.)

24-30. Modern Systems for Detecting and Evaluating Optical Radiation (Intern. Optical Commission), symp., Stockholm, Sweden. (S. S. Ballard, Dept. of Physics, Univ. of Florida, Gainesville.)

25-27. Petroleum Industry Conf., AIEE, Long Beach, Calif. (N. S. Hibshman, AIEE, 33 W. 39 St., New York 18.)

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25-28. Alaskan Science Conf., Alaskan Div., AAAS, 10th, Juneau. (N. J. Wilimovsky, Bur. of Commercial Fisheries, Box 2021, Juneau.)

25-28. American Dietetic Assoc., 42nd annual, Los Angeles, Calif. (Miss R. M. Yakel, ADA, 620 N. Michigan Ave., Chicago 11, Ill.)

25-30. American Ornithologists' Union, Regina, Saskatchewan, Canada. (H. G. Deignan, Div. of Birds, U.S. National Museum, Washington 25.)

26-29. International Assoc. of Milk and Food Sanitarians, Glenwood Springs, Colo. (V. T. Foley, Health Dept., Kansas City, Mo.)

26-29. International Union of Pure and Applied Chemistry, 20th conf., Munich, Germany. (Div. of Chemistry and Chemical Technology, Natl. Research Council, Washington 25.)

27-29. American Assoc. of Clinical Chemists, 11th annual, Cleveland, Ohio. (A. Hainline, Jr., AACC, Cleveland Clinic Foundation, 2020 E. 93 St., Cleveland 6.)

27-29. American Physical Soc., Hawaii. (K. K. Darrow, APS, Columbia Univ., New York 27.)

28-29. Weather Modification (with American Soc. of Civil Engineers), conf., Denver, Colo. (H. G. Houghton, AMS, Dept. of Meteorology, Massachusetts Inst. of Technology, Cambridge 39, Mass.)

28-30. American Folklore Soc., annual, Albany and Cooperstown, N.Y. (MacE. Leach, 110 Bennett Hall, Univ. of Pennsylvania, Philadelphia 4.)

28-31. Astronomical League, Denver, Colo. (R. Dakin, 720 Victor Rd., Pittsford, N.Y.)

28-4. International Union for Scientific Study of Population, cong., Vienna, Aus-

tria. (F. Lorimer, Dept. of Sociology, American Univ., Washington, D.C.)

30-3. American Inst. of Biological Sciences, annual, University Park, Pa. (H. T. Cox, AIBS, 2000 P St., NW, Washington 6.)

The following 17 meetings are being held in conjunction with the AIBS meeting at University Park, Pa.

American Microscopical Soc. (T. H. Cheng, Dept. of Zoology and Entomology, Pennsylvania State Univ., University Park.)

American Phytopathological Soc. (J. E. Livingston, Dept. of Botany and Plant Pathology, Pennsylvania State Univ., University Park.)

American Soc. for Horticultural Science. (R. E. Larson, Dept. of Horticulture, Pennsylvania State Univ., University Park.)

American Soc. of Human Genetics. (C. C. Li, Graduate School of Public Health, Univ. of Pittsburgh, Pa.)

American Soc. of Limnology and Oceanography. (E. L. Cooper, Dept. of Zoology, Pennsylvania State Univ., University Park.)

American Soc. of Parasitologists. (T. H. Cheng, Dept. of Zoology and Entomology, Pennsylvania State Univ., University Park.)

American Soc. of Plant Physiologists. (A. A. Benson, Agriculture and Biological Chemistry, Pennsylvania State Univ., University Park.)

American Soc. of Zoologists. (A. Anthony, Dept. of Zoology, Pennsylvania State Univ., University Park.)

Biometric Soc. (ENAR). (Miss C. S. Weil, Mellon Inst., 4400 Fifth Ave., Pittsburgh, Pa.)

Ecological Soc. of America. (M. W. Schein, Dept. of Poultry Husbandry, Pennsylvania State Univ., University Park.)

Genetics Soc. of America. (J. E. Wright, Dept. of Genetics, Pennsylvania State Univ., University Park.)

National Assoc. of Biology Teachers. (H. S. Fowler, Science Education, Pennsylvania State Univ., University Park.)

Nature Conservancy. (W. Sharp, Pennsylvania Cooperative Wildlife Reserve, 206 Forestry Bldg., Pennsylvania State Univ., University Park.)

Society for Industrial Microbiology. (Miss M. B. O'Hara, Applied Sciences Labs., Inc., State College, Pa.; or A. Rose, 525 S. Gill St., State College.)

Society of Protozoologists. (H. Frings, Dept. of Zoology, Pennsylvania State Univ., University Park.)

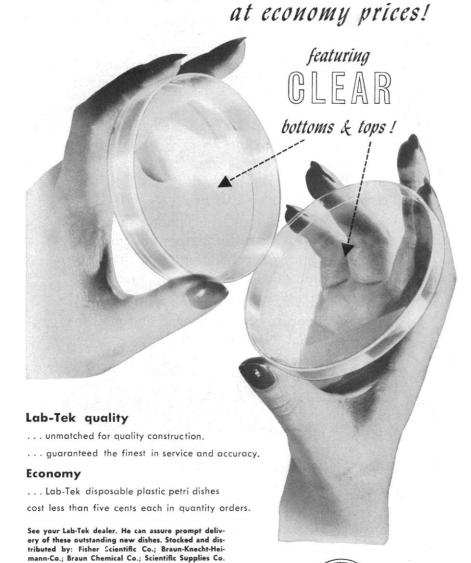
Society for the Study of Development and Growth. (J. E. Livingston, Dept. of Botany and Plant Pathology, Pennsylvania State University, University Park.) Tomato Genetics Cooperative. (B. L.

Tomato Genetics Cooperative. (B. L. Pollack, Dept. of Horticulture, Pennsylvania State Univ., University Park.)

30-4. American Cong. of Physical Medicine and Rehabilitation, Minneapolis. Minn. (Miss D. C. Augustin, 30 N. Michigan Ave., Chicago 2, Ill.)

30-4. Laurentian Hormone Conf., Mont Tremblant, Quebec, Canada. (G. Pincus, 222 Maple Ave., Shrewsbury, Mass.)

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Psychopharmacology

6" x 9", 175 pp., bibliographies, index, cloth, 1956. Price \$3.50. AAAS Members' cash order price

Alcoholism— **Basic Aspects and Treatment**

6" x 9", 220 pp., 33 illus., references, index, cloth, May 1957. Price \$5.75. AAAS Members' cash order price \$5.00.

AAAS Publications

1515 Mass. Ave., NW, Washington 5, D.C.

30-4. Medical Education, 2nd world conf., Chicago, Ill. (World Medical Assoc., 10 Columbus Circle, New York

30-5. World Federation for Mental Health, 12th annual, Barcelona, Spain. (Miss E. M. Thornton, Secretary-General, WFMH, 19, Manchester St., London W.1, England.)

30-6. History of Science, 9th intern. cong., Barcelona and Madrid, Spain. (J. Vernet, via Layetona 141, Barcelona.)

30-6. Residues on Crops and/or the Problem of Insect Resistance to Insecticides, symp., Munich, Germany. (R. Morf, Secretary-General, IUPAC, c/o Sandoz S. A., Basel, Switzerland.)

30-6. Thermodynamics and Experimental Thermochemistry, 17th intern. cong. (Intern. Union of Pure and Applied Chemistry), Munich, Germany. (Div. of Chemistry and Chemical Technology, Natl. Research Council, Washington 25.)

31-2. Stratospheric Meteorology, conf., Minneapolis, Minn. (H. G. Houghton, AMS, Dept. of Meteorology, Massachusetts Inst. of Technology, Cambridge 39, Mass.

30-12. International Oceanographic Cong. (AAAS, UNESCO, ICSU), New York, N.Y. (Miss M. Sears, chairman, Woods Hole Oceanographic Institution, Woods Hole, Mass.)

31-2. Free Radical Stabilization, 4th intern. symp., Washington, D.C. (A. M. Bass, Natl. Bureau of Standards, Washington 25.

31-3. Biological Photographic Assoc., Montreal, Canada. (Miss J. H. Waters, P.O. Box 1668, Grand Central Station, New York 17.)

31-3. Mathematical Assoc. of America, 40th summer meeting, Salt Lake City, Utah. (H. M. Gehman, MAA, Univ. of Buffalo, Buffalo 14, N.Y.)

31-4. Haematin Enzymes, symp. (by invitation), Canberra, Australia. (A. H. Ennar, John Curtin School of Medical Research, Australian National Univ., Canberra.)

September

1-3. Association for Computing Machinery, natl., Cambridge, Mass. (J. Moshman, Council for Economic and Industry Research, Inc., 1200 Jefferson Davis Highway, Arlington 2, Va.)

1-6. College of American Pathologists, Chicago, Ill. (A. H. Dearing, Suite 2115

Prudential Plaza, Chicago 1.)

1-7. History and Philosophy of Science (General Assembly, History Div., Intern. Union of the History and Philosophy of Science), Barcelona, Spain. (R. Taton, IUHPS, 64, rue Gay-Lussac, Paris 5e,

1-8. Acoustics, 3rd intern. cong., Stuttgart, Germany. (E. Zwicker, Breitscheidstrasse 3, Stuttgart N.)

1-7. Oct. International Civil Aviation (Meteorological Div.), Organization Montreal, Canada. (ICAO, Maison de l'Aviation Internationale, Montreal.)

2-4. Allergy, 4th European cong., London, England. (British Assoc. of Allergists, Wright-Fleming Inst., St. Mary's Hospital, London, W.2.)

2-4. Cryogenic Engineering Conf.,

Berkeley, Calif. (K. D. Timmerhaus, CEC, Chemical Engineering Dept., Univ. of Colorado, Boulder.)

- 2-4. Crystal Imperfections and the Chemical Reactivity of Solids (Faraday discussion), Kingston, Ontario, Canada. (Faraday Soc., 6 Gray's Inn Sq., London, W.C.1, England.)
- 2-5. American Mathematical Soc. and Mathematical Assoc. of America (joint summer), Salt Lake City, Utah. (E. Pitcher, AMS, Lehigh Univ., Bethlehem, Pa.)
- 2-8. Foundations of Mathematics: Infinitistic Methods, symp., Warsaw, Poland. (A. Mostowski, Dept. of Mathematics, Univ. of California, Berkeley 4.)
- 2-9. British Assoc. for the Advancement of Science, 121st annual, York, England. (Secretary, BAAS, 18 Adam St., Adelphi, London, W.C.2, England.)
- 3-6. American Sociological Soc., natl., Chicago, Ill. (D. Young, Russell Sage Foundation, New York 22.)
- 3-5. Nephrology, 1st intern. cong., Geneva, Switzerland, and Evian, France. (G. Richet, Hospital Necker, 149, rue de Sevres, Paris 7e, France.)
- 3-9. American Psychological Assoc., annual conv., Cincinnati, Ohio. (R. W. Russell, APA, 1333 16 St., NW, Washington 6.)
- 4-7. International Federation of Surveyors, annual (by invitation), Gracow, Australia. (IFS, 4, Kanaalweg, Delft, Netherlands.)
- 5-11. Application of Radiation Sources in Industry, intern. conf., Warsaw, Poland. (P. Fent, IAEA, Vienna, Austria.)
- 6-12. Standards on a Common Language for Machine Searching and Translation, intern. conf., Cleveland, Ohio. (Secretariat, Center for Documentation and Communication Research, Western Reserve Univ., Cleveland 6.)
- 6-12. World Confederation for Physiotherapy, 3rd intern. cong., Paris, France. (A. Nicolle and J. Dupuis-Deltor, Société d'Organisation des Congrès Français et Internationaux, 1, rue Chanez, Paris 16°.)
- 7-9. Psychometric Soc., Cincinnati, Ohio. (P. H. DuBois, Washington Univ., St. Louis 5, Mo.)
- 7-9. Society of General Physiologists, Urbana, Ill. (F. G. Sherman, Dept. of Biology, Brown Univ., Providence 12, R.I.)
- 7-10. Institute of Management Sciences, Paris, France. (A. S. Manne, Dept. of Economics, Yale Univ., New Haven, Conn.)
- 7-11. American Soc. of Clinical Pathologists, Chicago, Ill. (C. E. Wells, 2052 N. Orleans, Chicago 14.)
- 7-11. Illuminating Engineering Soc., annual natl. conf., San Francisco, Calif. (A. D. Hinckley, IES,, 1860 Broadway, New York 36.)
- 7-12. European Soc. of Haematology, cong., London, England. (E. Neumark, Dept. of Pathology, St. Mary's Hospital, London, W.2.)
- 7-12. World Medical Assoc., 13th general assembly, Montreal, Canada. (WMA, 10 Columbus Circle, New York 19.)
- 8-15. Sociology, 4th world cong., Milan and Stresa, Italy. (Intern. Sociological Assoc., Skepper House, 13 Endsleigh St., London, W.C.1, England.)



LINDE'S fully portable LNR-25B Liquid Nitrogen Refrigerator is the most reliable cold storage unit in existence. This rugged stainless steel container has no mechanical operating parts and thus is essentially maintenance-free – eliminates damaged samples caused by power failures.

It weighs only 60 lbs. empty, yet holds 28.5 liters of liquid nitrogen and 392 cu. inches of stored samples. A special LINDE insulation holds evaporation loss to only 3% a day. On a single charge of nitrogen, it will keep samples at -320°F. for 34 days, directly immersed in the liquid, or for 23 days in sealed tubular baskets suspended in the liquid. The large-diameter neck tube permits quick and easy access to the interior.

Linde Company manufactures a full line of containers (including the $16\frac{1}{2}$ cu. ft. storage capacity LNR-640 Refrigerator), accessories and other cryogenics equipment for the storage and handling of liquefied atmospheric gases. For information on the LNR-25B Refrigerator or other equipment, mail the coupon.



Typical uses:

- preservation of enzymes, hormones, proteins
- pharmaceutical and chemical research
- storage of bacteria cultures without laborious transplanting
- preservation of cancer cells for research
- shrink fitting small metal production parts
- cold storage of aluminum rivets and metallurgical samples
- immediate freezing of animal glands

CONSTRUCTION

Cutaway shows interior arrangement of storage baskets in the LINDE LNR-25B and its construction. Baskets are easily and quickly withdrawn through wide-entrance tube. All-stainless welded construction and superior insulation make it both portable and durable.

Hinged Cap
 Basket Support Rod
 Lifting Handle
 Special LINDE Insulation
 Product Storage Basket
 Removable Neck Tube

Linde Company, Division of Union Carbide Corporation	Dept.	SC-63
30 East 42nd Street, New York 17, N. Y. Please send me complete information on		
the LNR-25B refrigerator other equipment for liquefied atmospheric gases		
(please specify)		
Name		
Firm Name		
Address		

Zone

State

UNION CARBIDE
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19 JUNE 1959