

contamination problem associated with current test techniques, J. B. Stephens (Jet Propulsion Laboratory) discussed in detail the design of a space molecular-sink facility (MOLSINK) which was claimed to be capable of capturing all but four of every 10,000 condensable molecules emanating from a test item 25 cm in diameter. The facility has a specially configured liquid-helium cryopump in conjunction with titanium sublimation pumps and ion pumps to sustain ultrahigh vacuums in the test volume, and mechanical pumps in conjunction with turbo-molecular pumps to rough-pump the chamber and sustain the guard vacuum.

Stuart Giles (Atomics International) approached contamination from another viewpoint, regarding it as contamination of the test article by the chamber and its pumping systems. He cited examples of contamination of components at high temperatures due to poor space-simulation techniques and offered guidelines to be followed in cases where surface effects are important.

Other sessions of the conference treated the topics of instrumentation and data handling, solar simulation, propulsion-system testing, and testing techniques; many interesting and informative papers were presented. A tour of facilities of the Jet Propulsion Laboratory was provided. The quite successful meeting was well attended by many persons active in the field.

A. C. BOND

NASA Manned Spacecraft Center,
Houston, Texas

Forthcoming Events

February

1-2. **Protein** Conf., 19th annual, Rutgers Bureau of Biological Research, New Brunswick, N.J. (J. H. Leatham, Rutgers Univ., New Brunswick)

1-3. Solid Propellant **Rocket** Conf., American Inst. of Aeronautics and Astronautics, Washington, D.C. (D. L. Raymond, AIAA, 1290 Avenue of the Americas, New York 10019)

1-3. **Myasthenia Gravis**, conf., New York Acad. of Sciences, New York. (NYAS, 2 E. 63 St., New York, N.Y. 10021)

1-4. **Information Storage and Retrieval**, American Univ., Washington, D.C. (American Univ. Center for Technology and Administration, 2000 G St., NW, Washington 20006)

1-4. **Solar Atmosphere** Seminar, U.S.-Japan Cooperative Science Program, Honolulu, Hawaii. (Office of Intern. Science



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Activities, National Science Foundation, Washington, D.C.)

1-5. **Gas Chromatography**, conf., Los Angeles, Calif. (H. L. Tallman, Physical Sciences Extension, Room 6532, Engineering Bldg., Univ. of California, Los Angeles 90024)

2-3. American Soc. **Tool and Manufacturing Engineers**, Die Design and Press Tooling, seminar, Detroit, Mich. (L. S. Fletcher, ASTME, 10700 Puritan St., Detroit 38)

2-4. **On-Line Computing**, Symp., Los Angeles, Calif. (T. Kramer, Engineering Extension, Univ. of California, Los Angeles 90024)

2-4. Society of the **Plastics Industry**, Reinforced Plastics Div. conf., Chicago, Ill. (C. L. Condit, SPI, 250 Park Ave., New York 10017)

3-5. Southwest **Chemical Assoc./Chemical Market Research Assoc.**, joint meeting, Houston, Tex. (H. F. Pfann, Enjay Chemical Co., 60 W. 49 St., New York 10020)

3-5. **Military Electronics**, Inst. of Electrical and Electronics Engineers, Los Angeles, Calif. (IEEE, 3600 Wilshire Blvd., Los Angeles 90005)

3-5. Institute of **Management Science**, annual, San Francisco, Calif. (F. L. Weldon, Matson Navigation Co., 215 Market St., San Francisco 5)

3-6. **Fatty Acids Seminar**, Council of Scientific and Industrial Research, Hyderabad-9, India. (G. Satyanarayana Rao, Council of Scientific and Industrial Research, Regional Research Laboratory, Hyderabad-9)

4-5. American Soc. for **Engineering Education**, college-industry conf., Pittsburgh, Pa. (L. N. Canjar, Carnegie Inst. of Technology, Pittsburgh)

5. **Parenteral Drug Assoc.**, New York, N.Y. (Parenteral Drug Assoc., Inc., Western Saving Fund Bldg., Broad and Chestnut Sts., Philadelphia, Pa. 19107)

6-9. **Medical Education**, annual, Chicago, Ill. (W. S. Wiggins, Council on Medical Education, American Medical Assoc., 535 N. Dearborn St., Chicago 60610)

7-11. American Inst. of **Chemical Engineers**, 55th national, Houston, Tex. (AIChE, 345 E. 47 St., New York, N.Y.)

8-10. American **Astronautical Soc.**, annual, Denver, Colo. (Miss G. W. Heath, Flight Safety Foundation, 468 Park Ave. S., New York 10016)

8-11. Managerial Implications of the Emerging **Technology**, Washington, D.C. (P. W. Howerton Center for Technology and Administration, American University, 2000 G St., NW, Washington 20006)

8-12. American Soc. for **Testing and Materials**, spring meeting, Cleveland, Ohio. (ASTM, 1916 Race St., Philadelphia, Pa.)

9-10. International Soc. of **Terrain Vehicle Systems**, U.S.-Canadian regional meeting, Houghton, Mich. (E. W. Niemi, Dept. of Mechanical Engineering, Michigan Technological Univ., Houghton)

10-11. Corrosion of **Water Supply Systems**, 7th sanitary engineering conf., Urbana, Ill. (B. B. Ewing, Univ. of Illinois, Urbana)

10-12. American **Educational Research Assoc.**, annual, Chicago, Ill. (R. A. Dersheimer, 1201 16th St., NW, Washington, D.C.)

10-12. National Assoc. **Corrosion Engineers**, conf., Calgary, Canada. (T. J. Hull, NACE, 980 M&M Bldg., Houston, Tex. 77002)

10-13. National Soc. of College Teachers of **Education**, annual, Chicago, Ill. (E. J. Clark, Indiana State College, Terre Haute)

10-13. American College of **Radiology**, annual, Philadelphia, Pa. (F. H. Squire, Presbyterian-St. Luke's Hospital, 1753 West Congress St., Chicago, Ill. 60606)

11-13. **Biology of Human Variation**, conf., New York Acad. of Sciences, New York, N.Y. (NYAS, 2 E. 63 St., New York 10021)

12. **Science Programs** for General Education and the Preparation of Elementary Teachers, conf., Long Beach, Calif. (A. F. Eiss, National Science Teachers Assoc., 1201 16th St., NW, Washington, D.C. 20036)

12-17. All **Science Conf.**, annual, Karachi, Pakistan. (N. Ahmad, Secretary General, Pakistan Assoc. for the Advancement of Science, Karachi)

13-15. National Assoc. for Research in **Science Teaching**, annual, Chicago, Ill. (J. D. Novak, Bio-Science Dept., Purdue Univ., Lafayette, Indiana)

14. Scientific Conference on **Psychoanalysis**, 3rd annual, Council of Psychoanalytic Psychotherapists, Inc., New York, N.Y. (Miss M. Nelson, 1965 Conference Program, Box 255, East Setauket, Long Island, N.Y.)

14-17. German Foundation for the Developing Countries, **Public Health Training Problems in Asia**, intern. seminar, Berlin, Germany. (GFDC, Tagungsreferat, Agrippenstrasse 10, 53 Bonn, Germany)

14-18. American Inst. **Mining, Metallurgical and Petroleum Engineers**, annual, Chicago, Ill. (R. W. Taylor, AIME, 345 E. 47 St., New York, N.Y. 10017)

14-18. Society of **Economic Geologists**, annual, Chicago, Ill. (E. N. Cameron, Room 30, Science Hall, Univ. of Wisconsin, Madison)

15-17. **Flight Testing Conf.**, American Inst. of Aeronautics and Astronautics, Huntsville, Ala. (D. L. Raymond, AIAA, 1290 Avenue of the Americas, New York, N.Y. 10019)

15-17. American **Standards Assoc.**, Inc., Chicago, Ill. (ASA, Inc., 10 E. 40 St., New York, N.Y. 10016)

15-20. Impact of **Mendelism on Agriculture, Biology, and Medicine**, intern. symp., New Delhi, India. (A. T. Nataraajan, Secretary, Indian Soc. of Genetics and Plant Breeding, Division of Botany, Indian Agricultural Research Inst., New Delhi 12)

17. Use of **Enzymes** in the Food Industry, seminar, New York Inst. of Food Technologists, Inc., New York, N.Y. (A. Bolaffi, Jell-O Division Laboratories, General Foods Technical Center, Tarrytown, N.Y.)

17. Colors in **Food**, seminar, New York Inst. of Food Technologists, Inc., New York, N.Y. (A. Bolaffi, Jell-O Division Laboratories, General Foods Technical Center, Tarrytown, N.Y.)

17-19. American Acad. of **Occupational Medicine**, annual, Columbus, Ohio. (G. M. Hemmett, AAOM, Eastman Kodak Co., 343 State Street, Rochester 4, N.Y.)