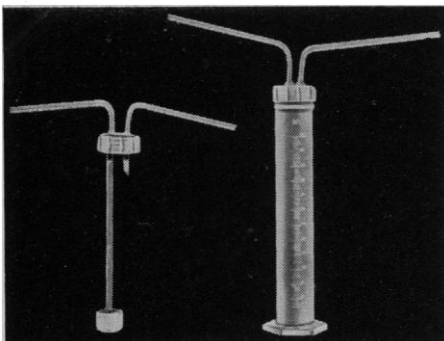


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tion quenching stability problem as applied to interstellar masers that must operate without a cavity.

Alex Smith (University of Florida) reported on VLB observations of the radio bursts from Jupiter which are still unresolved at less than 0.1 second of arc; the longest baseline observations so far used were between Bowling Green, Florida, and Maipú, Chile. He noted that so far the model of the short-burst emission from Jupiter (the Lynden-Bell and Bardeen model suggests that radiation arises from the plasma wake effects of Jupiter's moon Io) is consistent with observations. The source size implied from the burst duration is 3 kilometers or 0.001 second of arc. This is probably not resolvable with VLBI owing to interplanetary scintillations.

Following is a list of the members of the three groups cited by the Rumford Committee for work in the field of long-baseline interferometry. The Canadian group consisted of Norman W. Broten, R. M. Chisholm,* John A. Galt, Herbert P. Gush, Thomas H. Legg, Jack L. Locke, Charles W. McLeish, Roger S. Richards, and Jui Lin Yen. The M.I.T. group consisted of John A. Ball, Alan H. Barrett, Bernard F. Burke, Joseph C. Carter, Patricia P. Crowther, James M. Moran, Jr., and Alan E. E. Rogers. The National Radio Astronomy Observatory-Cornell group consisted of Claude C. Bare,* Barry G. Clark, Marshall H. Cohen, David L. Jauncey, and Kenneth I. Kellermann.

ALAN E. E. ROGERS

*Haystack Observatory,
Massachusetts Institute of Technology,
Cambridge*

PHILIP MORRISON

*Department of Physics,
Massachusetts Institute of Technology*

* Deceased.

Subacute Sclerosing

Panencephalitis Treatment

There is great need for a treatment for subacute sclerosing panencephalitis. Chronic measles infection has been demonstrated in the brain tissues of patients with this disease. Still, we are struggling for a clear understanding of the mechanism of pathogenesis.

A conference on approaches to treatment of subacute sclerosing panencephalitis was held in Bethesda, Maryland, on 21 May 1971, under the

sponsorship of the National Institute of Neurological Diseases and Stroke (NINDS). Warren Huber of NINDS opened the session. Participants reported on various studies of therapy. Chemotherapy—including treatment with amantadine hydrochloride, cytoxan, methotrexate, 5-iodo-2-deoxyuridine, and azoguanine—measles vaccines, and interferon stimulation have been for the most part unsuccessful. Similarly, chemical treatment with ether and the use of radiation have not been shown to be of value. Immunological treatments with HL-A-matched lymphocytes and transfer factor are under study, but sufficient time has not elapsed to determine the efficacy of these methods of therapy. Several investigators described research on drugs in tissue cultures. Others discussed the limited cellular immune responses to measles in monkeys and antibody studies; also discussed were attempts to document (i) cell-mediated immunity to measles by the use of skin tests and studies of lymphocyte proliferation in vitro in the presence of measles antigen and (ii) lymphocyte toxicity for radioactive chromium-labeled cultures infected with measles virus. The chairman of the morning session was Edwin Lennette (State of California Virus and Rickettsial Disease Laboratory), and the chairman of the afternoon session was Richard Johnson (Johns Hopkins Hospital).

In summarizing the meeting, Samuel Katz (Duke University Medical School) stated: "At present, it is clearly difficult to consider a logical approach to this disease. We need a greater understanding of the mechanisms which are involved in the disease process and must have techniques to study these mechanisms." The measles virus, which is chronically active and yet partially suppressed in this disease, must be studied to determine how this state of activity is retained as well as the defects that are responsible for its continued persistence. The virus must be examined in this state to determine if it is unusual in any way. The members of the conference recommended that fresh isolates of brain tissues from patients be obtained and maintained in a central registry so that better sharing and collaborative examination of these specimens that are difficult to obtain can be accomplished. Support is needed to provide highly specialized reagents for attempts at eliciting delayed hypersensitivity reactions in vivo and in vitro and for sensitizing adult donors

This conference should stimulate interest and focus attention on the need for increased research, not only on subacute sclerosing panencephalitis but also on chronic progressive diseases of the central nervous system.

JOHN L. SEVER

*National Institute of Neurological
Diseases and Stroke,
National Institutes of Health
Bethesda, Maryland 20014*

Forthcoming Events

16-18. **Solid-State Circuits Conf.**, Philadelphia, Pa. (Inst. of Electrical and Electronics Engineers, Inc., 345 E. 47 St., New York 10017)

18-19. **Symposium on Regulation of Catecholamine Metabolism in the Sympathetic Nervous System**, New York, N.Y. (I. Saulpaugh, New York Heart Assoc., 2 E. 64 St., New York 10021)

20-23. **American Inst. of Chemical Engineers**, Dallas, Tex. (F. J. Antwerpen, AICE, 345 E. 47 St., New York 10017)

20-24. **American Inst. of Mining, Metallurgical and Petroleum Engineers**, San Francisco, Calif. (J. B. Alford, AIMMPE, 345 E. 47 St., New York 10017)

21-22. **Coastal Zone Pollution Management Symp.**, Charleston, S.C. (B. L. Edge, Rhodes Engineering Research Center, Clemson Univ., Clemson, S.C. 29631)

23. **Applications of Auger Spectroscopy**, London, England. (Meetings Officer, Inst. of Physics, 47 Belgrave Sq., London SW1X 8QX)

23-25. **Society of Professors of Education**, Chicago, Ill. (Miss R. Bayles, Atlanta Univ., Atlanta, Ga.)

23-25. **Research and Training Reactor Utilization**, American Nuclear Soc., College Station, Tex. (J. D. Randall, Nuclear Science Center, Texas A&M Univ., College Station 77843)

26. **Oregon Acad. of Science**, Portland. (C. L. Smith, Dept. of Anthropology, Oregon State Univ., Corvallis 97331)

27-2. **American Soc. of Sugar Beet Technologists**, Phoenix, Ariz. (J. H. Fischer, ASSBY, P.O. Box 538, Fort Collins, Colo. 80521)

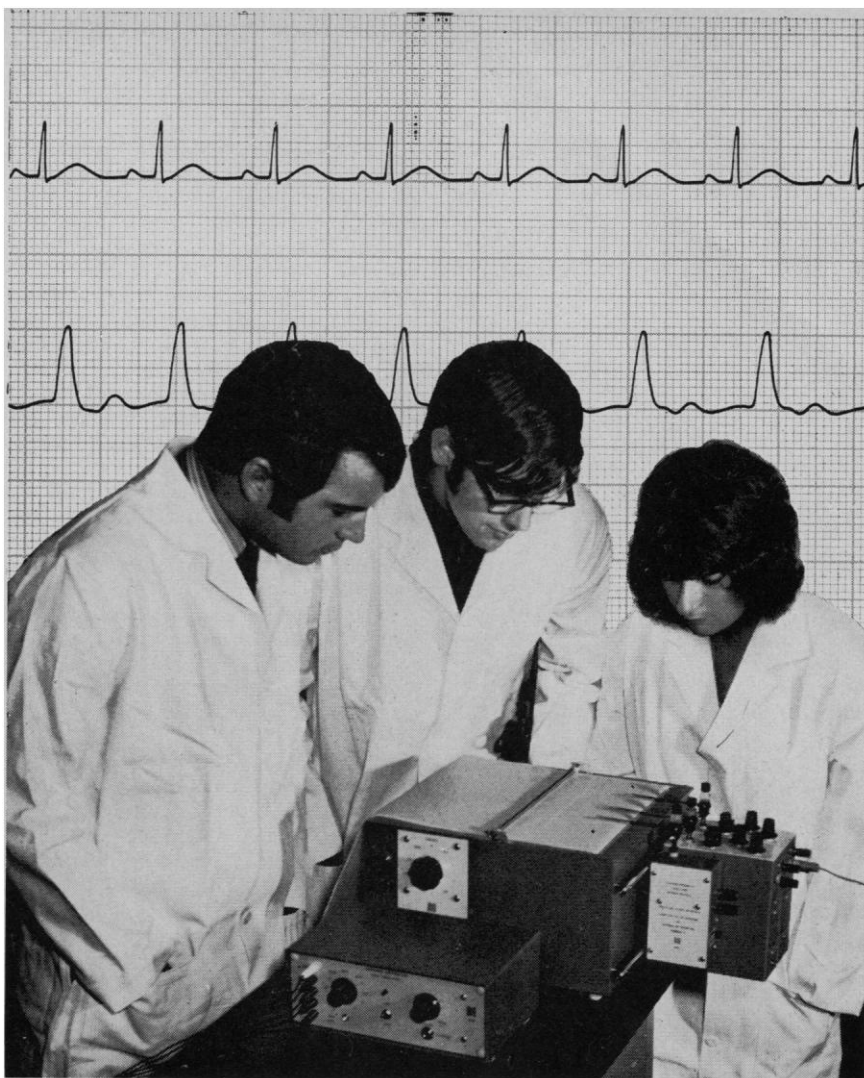
28-3. **Medical Data Processing Symp.**, Toulouse-Pyrenees, France. (E. E. Van Brunt, Permanente Medical Group, Medical Methods Research, 3779 Piedmont Ave., Oakland, Calif. 94611)

March

1-4. **American Acad. of Forensic Sciences**, Atlanta, Ga. (J. T. Weston, 44 Medical Dr., Salt Lake City, Utah 84113)

1-5. **American College of Cardiology**, Chicago, Ill. (W. D. Nelligan, ACC, 9650 Rockville Pike, Bethesda, Md. 20014)

2-3. **American Astronomical Soc., Div. on Dynamical Astronomy**, College Park, Md. (J. D. Mulholland, Dept. of Astronomy, Univ. of Texas, Austin 78712)



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