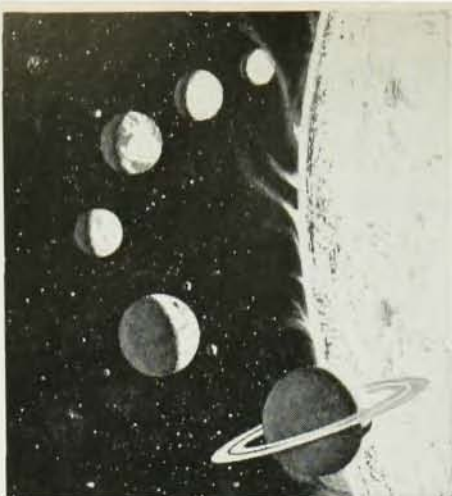




PHYSICISTS

North American Aviation's Space & Information Systems Division is working on America's first deep penetration into outer space with manned spacecraft. Radiation hazards such as solar cosmic ray events, Van Allen belts, artificial belts (H-Bomb) and galactic cosmic rays must be solved in consideration of the radiation source, shielding configuration and instrumentation. (All interact to constitute a radiation protection system.)

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**SPACE AND INFORMATION
SYSTEMS DIVISION**

North American Aviation



26 and 27. The program will include sessions on components, logic design, computer design, and artificial intelligence. The topic for the fourth session of the symposium is changed each year to touch on an area of growing interest in computer technology. Such subjects as adaptive or self-organizing systems, learning systems, pattern recognition, game-playing machines, and other approaches implying simulation of human thought or problem-solving processes are listed as being appropriate for this year's session on artificial intelligence.

Inquiries should be directed to W. H. Eichelberger, Denver Research Institute, University of Denver, Denver 10, Colo.

Space Telecommunications

The Institute of Electrical and Electronic Engineers (the recently amalgamated Institute of Radio Engineers and American Institute of Electrical Engineers) is sponsoring a symposium on space telecommunications, to be held July 9-11 at the Boulder Laboratories of the National Bureau of Standards. The meeting will be the 1963 symposium of the Institute's Professional Group on Antennas and Propagation, and the program is expected to cover antennas, propagation, radio astronomy, electromagnetic theory, propagation in plasmas, and other related topics.

All inquiries should be sent to the Institute of Electrical and Electronic Engineers, Box A, Lenox Hill Station, New York 21, N. Y.

High Magnetic Fields

Contributions are being solicited for a British conference on high magnetic fields, their production, and their applications, which the Institute of Physics and Physical Society is arranging for July 10-12 at the University of Oxford. The program will consist of papers on the generation of high magnetic fields, using normal conductors and superconductors, and on the properties of solids in high magnetic fields, including optical, transport, and magnetic properties.

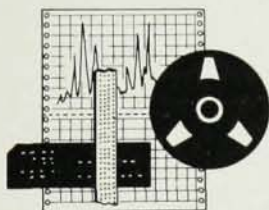
Two-hundred-word abstracts, in triplicate, of proposed contributions should be sent before April 15 to Dr. N. Kurti, Clarendon Laboratory, Parks Road, Oxford. Further particulars and application forms are available from the Administration Assistant, Institute of Physics and Physical Society, 47 Belgrave Square, London, S.W.1, England.

Applications of X-Ray Analysis

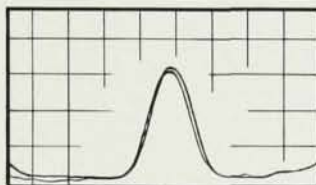
Sessions on diffraction, emission spectrography, absorption and microscopy, and instrumentation have been scheduled for the 12th annual Conference on Applications of X-Ray Analysis, which will be held August 7-9 at the Albany Hotel in Denver. April 15 has been set as the deadline for accepting abstracts of contributed papers. Abstracts must be submitted in dupli-

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cate, accompanied by titles, and must be sufficiently detailed (200 words or more) to describe the material to be reported.

The desirability of a session on nonmetallic materials, particularly on their structure and transformation properties, has been suggested by B. L. Newkirk of Cornell University. Anyone interested in contributing to such a session should write to Dr. Newkirk and should forward a copy of the letter to Dr. William Mueller, Denver Research Institute, University of Denver, Denver 10, Colo. All abstracts and correspondence regarding the conference should be sent to Dr. Mueller.

Plasma Diagnostics

The fifth biennial gas-dynamics symposium, which convenes August 14-16 at Northwestern University, will center on physico-chemical diagnostics of plasmas. The scope of the program has been defined in the following list of subjects to be included: (1) plasma and magnetohydrodynamic flows, (2) plasma physics, (3) electromagnetic-wave interactions, (4) probe studies, (5) radiation measurements, (6) spectroscopy, (7) waves, (8) oscillations and instabilities, (9) beam devices, (10) optical interferometry, (11) thermodynamic and transport properties, (12) laboratory apparatus, and (13) energy-conversion devices.

Inquiries should be directed to the Gas Dynamics Symposium, Gas Dynamics Laboratory, Northwestern University, Technological Institute, Evanston, Ill.

Atmospheric Entry

Phenomena associated with high-velocity entry into planetary atmospheres will be considered at a conference sponsored by the American Rocket Society and the Massachusetts Institute of Technology which is to be held August 26-28 at MIT. Emphasis will be placed on the physics of entry into planetary atmospheres, rather than facilities or design problems, and both theoretical and experimental contributions are solicited. The sessions of the meeting are tentatively entitled (1) Physics of High-Temperature Gases, (2) Gas-Surface Interaction, (3) Hypersonic Flow, (4) High-Temperature Gas Flow, and (5) Early Entry Phenomena.

Abstracts of contributions (two or three pages) should be sent in duplicate by May 15 to Professor Ronald F. Probstein, Department of Mechanical Engineering, Massachusetts Institute of Technology, Cambridge, Mass. Requests for additional information about the conference should be directed to the American Rocket Society, 500 Fifth Avenue, New York 36, N. Y.

High Temperatures

Stanford Research Institute is organizing an international symposium on high-temperature technology, which is to be held September 8-11 under the patronage of the International Union of Pure and Applied Chemistry. The meeting will take place in Asilomar, Calif.,

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