quenching, transfer, migration, and lifetimes); applications (nuclear, dating, neutron counting, pulse-shape discrimination, and large volumes); and other recent advances (chemistry and synthesis, radiation damage, new multiplier phototubes, and nanosecond circuits). Papers dealing mainly with biological and medical applications are excluded from this meeting.

Abstracts of contributed papers (500 words or less) are due by April 15, and advance registration to facilitate the arrangement of accommodations is desired. Correspondence should be directed to Dr. Donald L. Horrocks, Chemistry Division, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, Ill. 60440.

Low temperatures

Engineering below 150°K will be the subject of this year's cryogenic engineering conference. Sponsored by the University of Colorado and the National Bureau of Standards, the meeting will be held in Boulder June 13 to 15 and deal generally with applications of liquid hydrogen. Abstracts (200 words) and preliminary manuscripts must be sent by March 1 to K. D. Timmerhaus, Engineering Research Center, University of Colorado, Boulder, Colo.

The University and the NBS will also be hosts to the meeting of Commission 1 of the International Institute of Refrigeration in Boulder, June 16 to 18. This meeting will be on liquid-helium technology, including temperature measurement and control, liquefaction, storage and transport, cryomagnetics, and applications to space, missiles, and nuclear physics. Abstracts of 500 to 1000 words are due by March 1. These and other correspondence should be sent to IIR Commission 1 Symposium, Cryogenic Division, National Bureau of Standards, Boulder Colo.

Materials

The British Institute of Physics and the Physical Society Materials and Testing Group, in cooperation with the National Physical Laboratory, is arranging a conference on the early

Here are a few of the ways Xerox is working on graphic communications:

DEVELOPMENT of imaging systems, image storage devices, image translation methods, coherent light techniques and materials development.

DESIGN of systems, equipment and components for image sensing, image recording, image display, graphic communications and translation devices.

ENGINEERING studies (theoretical and experimental) for photographic systems, electrostatic systems, evaluation determinations and system simulation.

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For the study, assessment and development of advanced imaging systems, modulation techniques, optical scanners, image recording, information storage and retrieval and display equipment. Experience in the design and engineering of optical systems required. BS Optics, Physics, or related science.

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To determine the applicability of physical and optical phenomena to graphic phenomena and systems requirements of government contract and development projects. BS in Physics (MS preferred) with broad experience in the electrical and electro-optical areas.

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To develop, test, and evaluate exploratory xerographic and photographic equipment. Background should include a minimum of 5 years' development experience in the fields of light, precision machinery, and instruments. Should have a basic knowledge of electricity, light, and optics. BSME, EE, or engineering physics.

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stages of constitutional change in metals and other materials, and their effects on mechanical properties. The meeting will be held at the National Physical Laboratory in Teddington on April 21 and 22, and will cover the following topics in eight review papers: thermodynamics of precipitation; x-ray, calorimetric, and resistivity measurements of heterogeneities in materials; nucleation of precipitates and zone formation in metals; crystallization in pyroceramics; and growth of crystalline units in polymers and deformed rubbers and their effects on mechanical properties.

Advance registration is necessary; further details and registration forms are available from the Meetings Officer, Institute of Physics and the Physical Society, 47 Belgrave Square, London, SW 1, England.

Isotopes

Large-scale production and application of radioisotopes will be discussed at a meeting to be held March 20 to 23 in Augusta, Ga., by the American Nuclear Society. The agenda schedules sessions on production, chemical processing, international programs, and applications of radiation and isotopic power. On the afternoon of the 23rd there will be a tour of the Atomic Energy Commission's Savannah River Plant. The contact for additional information is Dr. E. J. Hennelly, Savannah River Laboratory, Aiken, S.C. 29802.

Ionosphere

Ground-based aeronomic studies of the lower ionosphere will be the topic of a conference to be held April 11 to 15 in Ottawa. Jointly sponsored by the US Air Force Cambridge Research Laboratories and the Canadian Defense Research Telecommunications Establishment, the meeting succeeds similar conferences held in 1963 and 1965. Emphasis this year will be on ground-based experiments involving such techniques as cross modulation, partial reflection, and long-wave propagation. Further information can be obtained from W. Pfister, Upper Atmosphere Physics Laboratory, L. G. Hanscom Field, Bedford, Mass.