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Recently Formed Long Island Research Group Offers a Unique Opportunity for an MS or PhD Interested in Working On Projects involving the Interaction of Electromagnetic Waves with Plasmas. Must be able to Conduct and Design Experiments initiated by Theoretical Investigation. Background should include Knowledge of one or more of the following:

- (1) MICROWAVE PRACTICE
- (2) PLASMA PHYSICS
- (3) GAS DYNAMICS AND IONIZATION PHENOMENA
- (4) ATMOSPHERE PHYSICS

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Microwave Plasma Generation Electromagnetic Wave Propagation

ASTRO—Research Division of The Marquardt Corporation—is offering challenging and highly rewarding opportunities to creative engineers. An important immediate opening exists for an experienced plasma physicist or electromagnetic theory specialist.

His work will involve research effort in space energy conversion and space electronics; electron optics, magnetic focusing, dynamics of electron beams and plasmas—or modes of wave propagation in electronic waveguides, interaction of electromagnetic waves and electron beams with electrostatic focusing. Level of position requires advanced education in Electrical Engineering or Physics with 3 to 5 years specialized service.

Send resume in confidence to:
Floyd Hargiss, Manager, Professional Personnel
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Meetings

APS New York State Section

MODERN advances in radio astronomy will be reviewed in a series of invited papers to be presented at the 1960 spring meeting of the New York State Section of the American Physical Society, which will take place on April 22 and 23 with Colgate University (Hamilton, N. Y.) serving as the host institution.

The program will include papers on such topics as radio emission from the planets, the characteristics of solar radio emission and cosmic radio radiation, modern theory of the origin of galactic radio noise, and the use of masers in radio astronomy. In addition, there will be descriptions of the scientific program for the 600-foot radio telescope at Sugar Grove, W. Va., and of the programs at Rensselaer Polytechnic Institute and Cornell University. There will also be a demonstration of detectors in use prior to 1910.

The list of scheduled speakers includes E. G. Brock, G. R. Burbidge, B. F. Burke, M. Cohen, B. F. C. Cooper, F. D. Drake, R. Fleischer, F. T. Haddock, H. L. Helfer, H. C. Ko, A. E. Lilley, and E. F. McClain.

Persons wishing to obtain further information on the meeting should contact the secretary-treasurer of the Section, Dr. O. E. Miller, Building 65, 1669 Lake Avenue, Rochester 4, N. Y.

Microscopy

SHORT papers on instrumentation, methods and techniques, and applications in all fields of light, electron, and x-ray microscopy are being solicited for presentation at the 1960 National Microscopy Symposium, which is to be held June 13-15 at the Del Prado Hotel in Chicago under the sponsorship of Walter C. McCrone Associates. This year's program will emphasize the microscope as a tool in all sciences. As in the case of previous such meetings, informality and audience participation are expected to prevail and it is planned that the short formal presentations will be woven into the discussion by a panel of experts conducting the sessions. Persons desiring further information or wishing to participate in the symposium should write to Walter C. McCrone Associates, 501 East 32nd Street, Chicago 16, Ill.

Spectroscopy

SEMINARS, problem clinics, and original papers in the fields of infrared, ultraviolet, x-ray fluorescence, optical emission, and flame spectrophotometry will make

up the program of the 11th Annual Symposium on Spectroscopy of the Chicago Section of the Society for Applied Spectroscopy to be held June 20-23 at the Conrad Hilton Hotel in Chicago. The meeting will also feature an exhibit of spectroscopic instruments. Further information may be obtained from the Symposium Coordinator, Mr. Harry Wilson, Continental Can Company, Inc., 7622 South Racine Avenue, Chicago 20, Ill.

Polarization Phenomena of Nucleons

BOTH invited and contributed papers concerning the construction of sources producing polarized particles and polarization studies of nuclear reactions and scattering will be presented at a Symposium on Polarization Phenomena of Nucleons to be held July 4-8 in Basel, Switzerland. The meeting, believed to be the first to deal exclusively with this topic, will be held under the patronage of the International Union of Pure and Applied Physics. P. Huber of the Physics Institute at the University of Basel will serve as its president.

The program will include experimental and theoretical discussion of such topics as the polarization of products from reactions involving the very light nuclei and from stripping reactions, angular distributions of particles from reactions induced with polarized and aligned particles, and polarization produced by scattering from nuclei with interpretations by phase-shift analysis and the optical model. In experimental work the energy region below 40 Mev will be emphasized. Several reports of work on the design and construction of sources of polarized protons and deuterons are to be included, although as yet no experimentally confirmed beam of polarized particles generated in this manner has been reported.

Further information is available from the secretary of the meeting, Dr. K. P. Meyer, Physikalisches Institut der Universität, Klingelbergstrasse 82, Basel, Switzerland.

Rarefied Gas Dynamics

THE Second International Symposium on Rarefied Gas Dynamics will meet August 3-6 on the Berkeley campus of the University of California. The program will be similar in scope and purpose to the first Symposium which met in Nice, France, in July 1958. New developments in upper-atmosphere research and space flight will be discussed along with more basic scientific studies.

Topics for consideration by the Symposium will include the following: (1) continuum fluid mechanics and heat transfer at low Reynolds numbers in compressible fluids, (2) studies of the limits of the continuum theory or the quasi-equilibrium kinetic theory of gases, (3) problems in the kinetic theory of gases, particularly attempts to solve the Boltzmann equation, (4) free-molecule and near-free-molecule flow in neutral and ionized gases, (5) the physics of surface interactions between gases and solids, (6) boundary conditions for rarefied gas equations—slip flow, and (7) ex-

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