

Chapman earned his PhD in astronomy from Harvard University in 1964. He was an assistant professor of astronomy at the University of California, Los Angeles from 1964 until 1967, when he assumed his present post at the Goddard. Since 1970 he has also been a lecturer in astronomy at the University of Maryland, College Park.

APS doctoral employment service enters second year

Plans are completed for Fall enrollment in the APS Doctoral Employment Information Service. The American Institute of Physics conducts the DEIS

for the APS to promote the employment of PhD physicists seeking academic, industrial and governmental positions. All physicists who now have or expect to have doctorates by September 1975 may use the service.

Publication of a separate book of candidates seeking industrial employment is part of DEIS's expansion as it enters its second year. The new volume grew out of a suggestion of an APS review committee. The service will also offer the teaching volume to a large number of educational institutions and will distribute supplemental resumes for all volumes biweekly.

During the 1973-74 academic year 700 physicists submitted resumes and

supporting letters that were compiled into nine volumes organized into research areas or teaching. The service has supplied approximately 200 nine-volume sets and over 60 individual volumes to academic and industrial employers.

Prospective participants should enroll promptly to be considered for positions filled early in the 1974-75 academic year. Brochures and enrollment forms will be available by 20 September at physics department offices, placement centers throughout the country and from the Doctoral Employment Information Service, American Institute of Physics, 335 East 45th Street, New York, N.Y. 10017.

Satellites

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MHz, the interference was about 20 times the acceptable level as set by the International Radio Consultative Committee (CCIR) with radio interference decreasing with increasing frequency in the band. There was also interest to see if interference would result from the third harmonic of the ATS-6 signal—the University of Michigan carried out tests at this frequency and found that the third-harmonic intensity was very low and should not interfere with radioastronomy bands in that region.

Data on the magnitude of SMS-1 interference are now being analyzed. Barry Turner, staff scientist at the National Radio Astronomy Observatory, finds that the interference level, defined for a single polarization and in terms of an isotropic antenna, is 17 times above the CCIR specifications. When a powerful antenna such as the 140-foot one at Green Bank is used, even crude astronomical observations could not be carried out when the telescope was pointed within five degrees of SMS-1. For sensitive work, involving signals of 0.005 flux units, Turner said, it was possible that SMS-1 would interfere with observations over the whole sky.

The future. The presence of ATS-6 and SMS-1 is undesirable for radioastronomy, Kerr noted, but there is nothing that can be done now to modify the satellite transmitters short of turning them off. Observers, he said, can put better filters on their receivers to remove interfering signals more effectively just adjacent to their observing band, and of course, avoid working when the observer, satellite and the object under study are nearly along the same line of sight. From the point of view of radioastronomers, Kerr said, "the important thing is to try to influence what happens in the future. We can perhaps

live with one or two satellites, but if twenty or a hundred satellites that interfere in this way are put up, it would be catastrophic." —RAS

in brief

The Bartol Research Foundation of the Franklin Institute is celebrating its 50th anniversary.

The Astronomical Society of the Pacific is soliciting nominations for its 1975 Trumpler Award. The award is given to a recent PhD recipient who has done unusually important astronomy research. Heads of North American physics and astronomy departments may send nominations to Trumpler Award Nominations, Astronomical Society of the Pacific, 75 Southgate Ave, Daly City, Cal. 94015.

The Faculty Exchange Center helps to arrange exchanges of university and college faculty members within the US and overseas. For information write to FEC, PO Box 1866, Lancaster, Pa. 17604.

An NSF report, *An Analysis of Federal Research and Development Funding by Function, FY 1974-75* (NSF 73-316), may be obtained from the Superintendent of Documents, Washington, D.C., 20402, for \$1.90 per copy.

Salaries and unemployment rates are discussed in *Doctoral Scientists and Engineers in the U.S., 1973 Profile*. Single copies may be obtained without charge from the Commission on Human Resources, National Research Council, 2101 Constitution Ave., N.W., Washington, D.C., 20418.

Copies of *Graduate Science Education: Student Support and Postdoctorals, Fall 1972* (NSF 73-315) may be purchased from the Superintendent of

Documents, Washington, D.C., 20402, for \$2.85 each.

The new Free University of Iran, located in Tehran, will be a combined media university system for correspondence study; the university will be similar to the Open University in the UK. Sources of instruction will include correspondence texts, television and radio broadcasts and other audio-visual media, and traditional classroom interactions.

Journal of Physics A: Mathematical, Nuclear and General is expanding into the nuclear-physics field. The journal was monthly during 1973 and is scheduled to appear 18 times in 1974. Issues will alternate between nuclear topics and mathematical and general topics.

The US Small Business Administration has named Maxwell Laboratories Inc of San Diego, California as 1974 National Small Business Subcontractor of the Year.

New York State is supporting solar research with a \$200 000 appropriation for work to be done at the Atmospheric Sciences Research Center at the State University of New York at Albany.

Energy Sources, a quarterly, has appeared under the editorship of T. F. Yen. Volume one (four issues) is available for \$28.00 from Crane, Rusak, 347 Madison Ave, New York, N.Y. 10017.

US senior scientists and engineers are eligible for grants from the Alexander von Humboldt Foundation. Annual funding of DM 5 million will be available from the Foundation for research and teaching to be carried out on projects at German institutes. Monthly stipends range from DM 2 600 to 6 000 with travel expenses paid. For information, write to Alexander von Humboldt Foundation, D-53 Bonn-Bad Godesberg, Schillerstrasse 12, West Germany. □