

interpretation of observations in terms of cosmological theory. The principal radio telescope operates at a frequency of 146 megacycles per second; a second instrument is planned which will operate at 73 megacycles per second.

The University of Western Ontario

The Hume Cronyn Memorial Observatory of the University of Western Ontario, London, was established in 1940. The observing equipment includes three moderate-sized telescopes on a single mounting. The major observing program is in stellar photometry using both photoelectric and photographic techniques to study certain types of interesting stars. An electronic computer is used to facilitate the analysis of observational results and to pursue some projects in theoretical astrophysics. Instruction in astronomy is provided at both undergraduate and graduate levels.

Other Astronomical Activities

In addition to the above-described strictly astronomical research, there are certain Canadian research projects in physics under way which have direct applications to astronomy and astrophysics. These include studies in laboratory spectra at the National Research Council and the University of Western Ontario, studies in nuclear physics at the University of Montreal, and certain projects on the upper atmosphere of the earth conducted by the Defence Research Board and the Universities of Saskatchewan and Western Ontario.

In addition to the advanced courses in astronomy offered at certain universities, some astronomical instruction is also available at other institutions. The Royal Astronomical Society of Canada, with centres in 16 Canadian cities, provides a means of communication between professional astronomers and the large number of non-professionals who maintain an active interest in astronomy. The Society publishes a Journal devoted to the dissemination of astronomical knowledge and an annual Handbook which contains the necessary data to facilitate astronomical observing. Small observatories are maintained by some centres of the Society and also by the Regina Astronomical Society. The Queen Elizabeth Planetarium of the City of Edmonton conducts an active program of public education in astronomy and some other Canadian cities have plans for the construction of planetariums. With the increased public awareness of astronomical research resulting from the achievements in space science, further expansion of all aspects of astronomical education may be predicted with confidence.