

valued at \$2,000 per year are also awarded at the predoctoral level for tenure outside the country, if the desired training is not available in Canada. A limited number of Postdoctorate Overseas Fellowships, valued at \$2,700 per year for single, and \$3,500 per year for married Fellows, are also available for study abroad. To graduates in medicine and dentistry, Graduate Research Fellowships ranging in value from \$2,200 to \$4,500 per year, depending on qualifications and experience, are offered for research training in the basic sciences. All awards are offered in competition, on the basis of academic merit. In the year 1957-58, a total of 287 scholarships and fellowships were awarded, of which 231 were held; summer supplements were awarded to 190 students.

"In addition, Postdoctorate Fellowships are awarded annually in open competition to Canadians and nationals of other countries, for tenure in the Council's own laboratories, in the laboratories of Canadian universities and in those of other federal government departments such as Agriculture, Mines and Technical Surveys, and National Health and Welfare. These Fellowships are valued at \$3,700 per year for single, and \$4,500 for married Fellows. At the end of March 1958, 142 such awards were being held in the Council's main and regional laboratories, 31 in the laboratories of other government departments and 41 in Canadian universities. This phase of the Council's programme has now been in operation for 10 years and has had a most stimulating effect on the work done in Canadian laboratories.

"Medical Research Associateships are awarded to individuals of outstanding ability and training who have proven capable of conducting fulltime independent research programmes; they are tenable in Canadian medical schools and appointments are made on application by the universities, who must undertake to provide adequate research facilities and to give the Associates appropriate honorary or academic rank on their staffs. Appointments are made initially for two years, and may be extended subsequently for further periods on the recommendation of the universities as approved by Council. Eight such Associateships are currently held in Canadian universities.

"As in former years, Awards and Committee Services handled the annual competition for the Nuffield Foundation Dominion Travelling Fellowships in Medicine and for the Shell Oil Company Scholarships. It continued to administer the National Industrial Design Scholarships, for which funds are provided by the National Gallery, and the scholarships awarded by the Fisheries Research Board of Canada. For the first time, Canadian applications for the fellowships and grants in radiology offered by the James Picker Foundation were processed by the Branch, which will also be responsible for

administering the funds provided by the Foundation.

"By far the largest part of the extra-mural programme, in terms of dollars, is that of grants in aid of research in the pure and applied sciences and in medicine. Approximately 500 such grants were made during the year, to support scientific research projects being carried out by highly qualified investigators in Canadian universities and hospitals. Expenditures for support in this form totalled almost 2.3 million dollars, including \$400,000 administered on behalf of the Atomic Energy Control Board.

"The Council continued its financial contributions to the activities of such organizations as the Royal Society of Canada and the Canadian Standards Association, and to the cost of the research programme associated with the International Geophysical Year. Membership was maintained, on behalf of Canada, in a number of international scientific unions, and travel assistance was provided to enable official delegates to attend the meetings of such groups. Funds for all these purposes were administered by the Branch.

"The administration of the funds of 30 Associate Committees sponsored by the Council was handled by the Branch, and members of its staff continued to act as secretary to the Associate Committees on Applied Psychology, Corrosion Research and Prevention, Dental Research, Forest Fire Protection, Geodesy and Geophysics, and High Polymer Research. The Committee system was established early in the history of the council, and has proved to be a most effective way of developing and co-ordinating scientific research in Canada. The members of Associate Committees are drawn from industry, universities and government, and serve without remuneration. The operating cost to the Council of these Committees amounted to approximately \$65,000 during 1957-58, a small amount in proportion to the invaluable advisory assistance rendered on problems of national concern.

#### EDITORIAL OFFICE

"The Editorial Office is responsible for publishing six scientific Journals, each dealing with a different subject field. Three of the Journals are issued monthly and three bimonthly; all are distributed widely, on a subscription basis, throughout the world. In the calendar year 1957, 773 papers (7,136 pages) were published in these Journals.

"Of the contributions published in the six Journals as research papers, notes, or letters to the editor, approximately 41 per cent were from federal or provincial government departments or agencies (about half of which were contributed by the staff of the National Research Council itself), 43 per cent were from Canadian universities, 2 per cent from workers in government agencies in collaboration with workers in universities, and 14 per cent from other sources, both in and outside of Canada."