

NRC helps Newfoundland Take riches off the shelf

What is the role of a university? What part should it play in the life of its townspeople, of its province, of its country?

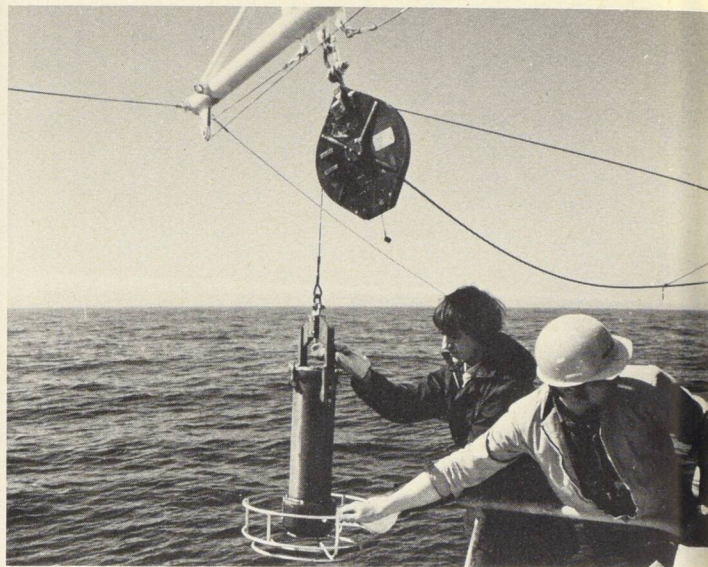
An unequivocal and impressive answer comes from Memorial University in St. John's, Newfoundland. Since 1968 its Faculty of Engineering and Applied Science has actively pursued a policy of grappling with problems of importance to the province. It has established research programs to examine and evaluate the environment, to combat obstacles to the exploitation of provincial natural resources and to open up new and undeveloped resources for the social and economic well-being of Newfoundland and of the country as a whole.

Taking advantage of the natural assets of Newfoundlanders, from fishermen to industrialists, and the unique environment of this province, the Faculty's programs are designed to meet the special needs of Newfoundland and to make significant contributions in solving problems in areas rich in economic and social returns. Transportation and resource-oriented activities loom large but the most prominent area is ocean-related research and development directed to the cold environment stretching off Newfoundland shores into the Arctic.

Memorial University is being aided in this area of research by a Negotiated Grant of approximately \$500,000 awarded by the National Research Council of Canada in October, 1971. The Negotiated Grant Program was created to provide a means whereby the Council and a Canadian university may share in the cost of initiating or developing research in areas of significance to the scientific, regional, economic or resource development of the country. Negotiated Grants may take the form of grants to assist in the cost and installation of special scientific equipment or development grants to assist groups of capable and highly-motivated researchers to undertake programs in new or interdisciplinary areas of research, or generally in circumstances warranting an intensification of research effort of high potential or realized scientific merit.

The funds awarded to Memorial University are being used specifically to further engineering research activities related to the ocean. They support studies of iceberg drift, on problems created by moving icebergs affecting offshore oil exploration, for example, and on the resource development of the Continental Shelf.

The ocean engineering program forms part of a comprehensive research effort which involves several branches of applied science. Although the Negotiated Grant is earmarked solely for cold ocean research, the National Research Council is also supporting other projects in this integrated research effort. Part of the comprehensive program is devoted to project planning and cost reduction in the construction industry. This is aided by a \$4,000 Operating Grant from NRC. Another series of studies focuses on the design, control and operation of hydro-electric power systems with NRC funding studies on the computer design and control of large-scale power plants. A third project involves the census, effective development and use of renewable resources. An NRC grant is aiding development of aerial photographic and automatic photo-



Putting salinity and temperature depth recorder overboard.

● *Dispositif pour enregistrer des données sur la température et la salinité des eaux.*

Preparing to take a sediment core. ● Dispositif pour échantillonner les sédiments.

