Experiment with plastic balls in NRC sound laboratory



The company's major plant and laboratories are located at Chalk River, Ontario, where research is conducted by 300 professional scientists and engineers and 350 technicians. Research at Chalk River is principally concerned with atomic-nuclei structure and the generation of electricity by nuclear power.

Universities have, of recent years, greatly increased their research programmes and facilities. Research conducted by universities and reported in professional journals is truly encyclopedic and reflects both a high degree of specialization and an extraordinary variety of interests. Financial support for university research comes from governments, industry and private foundations.

Canadian firms are today well aware of the value of research, and many companies, especially the larger ones, have substantial research establishments of their own.

Specialized research projects are varied. The Continental Shelf Project in the Arctic, which is at present the subject of intensive study, is expected to yield detailed and accurate information on the physical and chemical composition of the waters of the Arctic Ocean, the nature of the Shelf, and the behaviour of glaciers, sea-ice and climate in the recent geological past.

Canadian scientists also pay particular attention to the earth's magnetism, since Canada plays, as it were, the role of host to the Magnetic Pole. The Northern Lights (*aurora borealis*) are also related to the earth's magnetic field, and scientists are studying the electrical nature of the atmosphere, where the phenomenon is produced, by measuring the upper atmosphere with new rocket techniques.

Since the Canadian coast-line is one of the longest in the world, scientists are vigorously working on oceanographic research programmes. Oceanographic measurements are made on cruises by specially equipped ships and include the determination of ocean currents, water temperature and salinity and plankton content.