Electronics Up

A heavy program of aviation electronic work was foreshadowed by the Rt. Hon. C. D. Howe, Minister of Defence Production, in a recent speech before the House.

Speaking on his department's estimates, Mr. Howe said, "Among other major electronic projects, the current year will see development work started on an integrated electronic system for the CF-105, combining navigation, flight control and fire control equipment. As the house may realize, electronic systems of immense complexity are needed for navigation and flight control at supersonic speeds and for the extremely precise fire control required to engage targets which may themselves be traveling above the speed of sound. Work is continuing on the CF-100 flight simulator, which is one of the most complex undertaken by a Canadian company. New types of aircraft are creating requirements for new types of simulators but, as the field of flight simulation is such a highly technical one and our requirements are so limited, many factors have to be taken into account in determining where this work should be done. The contract for one of these new simulators, the CS2F Grumman, has been placed and the equipment is being produced in the United Kingdom. As a second project, there is a requirement for simulation of the CL-28 maritime reconnaissance aircraft, to be undertaken this year. Large new projects are also in prospect in the area of air defense communications."

More Engineers

Leading Canadian industrialists under the chairmanship of James S. Duncan will meet this month at the National Engineering Manpower Conference at St. Andrews-by-the-Sea to analyze and assess the supply and demand of professional engineers and technical personnel in Canada. This first conference to "do something" about the engineering shortage will look at the problem from the high school up, considering both curriculum and facility problems.

Canadian EM in U.K.

The Canadian developed Aeromagnetic Surveys Ltd., Toronto, electromagnetometer (EM), an airborne geophysical device, is being used by the Canadian company's associate in Britain and the U. K. on DC-3s and Cansos.

Capital

Capital Airlines has ordered 15 more Vickers Viscount 700's bringing its total fleet to 75 of which 30 have been delivered to date.

Operation Overthrust

Photographic Survey Corp., Toronto, has launched an imaginative co-operative geophysical exploration of some 357,000 sq. miles of aerial photography of the rich mining areas of the Precambrian Shield in Canada and the United States. The eventual $2,000,000 project is being underwritten by a number of firms in an effort to correlate existing and available geological and geophysical data with a structural and mineral evaluation by stereo-interpretation of aerial photographs. The project calls for the preparation of 400 one mile to the inch mosaic sheets on Canada and 82 more on the U. S. — each covering an area of approximately 800 square miles. The immediate results will be a library of extensive mineralogical information on a large area of North America. The far reaching results may be the eventual discovery of new valuable ore bodies.

Defense Contracts

Outstanding defense contracts awarded during June 1 to 30 were: For engine and component overhaul and repair, **Orenda Engines Ltd.,** $9,400,000; **Bristol Aero Engines Ltd.,** $1,482,000; **Standard Aero Engines Ltd.,** $659,000; **Canadian Pratt & Whitney Ltd.,** $655,000.

For repair and overhaul of airframes and airframe spares during current fiscal year, **Avro Aircraft Ltd.,** $660,000. For repair and overhaul of instruments and miscellaneous materiel during the fiscal year, **Aviation Electric Ltd.,** $2,300,000 and **Sperry Gyroscope Ottawa Ltd.,** $1,500,000. For repair and overhaul of aero engines and components, **Bristol Aero Engines Ltd.,** $1,918,000.

For aircraft ground handling equipment, **Canadair Ltd.,** $500,000; for the storage, removal and preparation for flight of aircraft, aero engines and other major equipment, **Field Aviation Ltd.,** $500,000. Airframe spares, **Fairey Aviation Co. of Canada Ltd.,** $220,000; **Marsland Engineering Ltd.,** synchro conversion kits, $137,076; **Renfrew Aircraft & Engineering Co.,** repair and modification of flame tubes, $180,000.

Piasecki

The new Piasecki Aircraft Corp. is currently working on 11 prime contracts for the U. S. armed services and has additional proposals under evaluation. Organized in June 1955, Piasecki Aircraft became a publicly owned company this year. It is entering its new fiscal year with a backlog of $580,000. The company was formed by president Frank Piasecki with the design team who came with him from the Piasecki Helicopter Corp., now Vertol.

LIGHT aircraft are a business success for Cessna. Here is the 1,000th Cessna 172 being delivered only eight months after the aircraft was introduced on the market.

CAE Nucleonics

A U.S. oil geologist, Earl W. Davis reports correct indications in 86.3% of all cases investigated for oil using a Canadian Aviation Electronics hand-held nucleonics instrument sensitive to radioactivity. His technique is based on the accepted theory that the amount of radioactivity at the surface of the earth over a deposit of oil and/or gas is substantially lower than the amount shown around such a deposit. This interpretation of readings by Davis has made it possible for him to set up numerical values for productive and nonproductive areas — a base from which he can begin actual research for oil-producing areas using the CAE nucleonic instrument.

Briefs

Berkley Division of Beckman Instruments Inc. has established a branch facility in Toronto to process all its sales in Canada.

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Firestone Tire and Rubber Co. of Canada Ltd., Hamilton, has received a $603,960 U. S. military contract for the manufacture of radomes.

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B. F. Goodrich Aeronautical manufacturing and selling functions have been combined into a single operation division to be known as B. F. Goodrich Aviation Products with P. W. Perdriau as general manager and E. H. Fitch as general manager sales.

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B. F. Goodrich Canada Ltd. has announced construction plans for a $1,255,000 head office and warehouse building in Kitchener—part of a $5,000,000 capital investment program in Kitchener.

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Frontier Bronze & Aluminum Castings Ltd. has opened a plant and office at Port Colborne, Ont., to produce copper-base, aluminum, titanium bronze alloy, monel and Frontier 40-E Aluminum alloy castings.