

Research and development

By Ross Milne, MP
On June 1 the Government announced important measures to strengthen and encourage research and development in Canada. This is an initiative for which I have been working and lobbying as a Member of Parliament.

I have been part of a caucus study group analysing the various and diverse problems facing the manufacturing sector and making recommendations to the Government for measures to help that sector.

When one looks closely at the economy, it is hard to overlook the fact that our manufacturing sector has been declining lately. One of the major factors in its failure to keep up in research and development. This decline is of real concern to the riding as so many secondary manufacturing plants are located here.

There is no question that the future of this sector depends on its ability to compete in the world arena. In fact, the future of Canada depends on how well we compete in high-technology industries — industries in which we have the brainpower, the know-how, the supply of knowledge and workers, and the capital to develop and compete. If we do not choose the other players in this arena are formidable opponents: the United States, Japan, West Germany, Switzerland and Sweden. We must watch our wits and our technological expertise against these players.

To do so we must have a sound research and development base. Statistics show that the health of a nation's economy parallels the soundness of its technological research and development. One study done by the U.S. Department of Commerce shows that, compared to lower-technology industries, the high-technology manufacturing sector in the U.S. contributes 38 per cent higher productivity, 45 per cent more real output, 49 per cent more exports and 88 per cent greater employment. Although there are no comparable studies here on a nationwide basis, I am sure similar findings would result.

To survive, Canada needs to be a leader in the R&D field. The Government, the universities and research bodies, the private sector and individual industries all need to do much more.

The most recent international R&D report of the Organization for Economic Coopera-

tion and Development disturbingly illustrates this point. Using 1975 statistics, this study of 12 Western countries showed that for total R&D expenditures as a percentage of gross domestic product, Canada tied with Norway and Denmark at 1.1 per cent. Only Finland, Ireland and Switzerland at 2.2 and West Germany at 2.1 all spent proportionately twice as much as Canada. On the basis of R&D financed by industry, Canada had the lowest showing of the 12, with only 33 per cent of its total R&D financed by business — just one percentage point lower than Ireland, 32 points lower than Japan and 43 points lower than Switzerland. Canada's R&D expenditures in the business sector as a percentage of gross domestic product were again the lowest at 0.6 per cent. It is no wonder that an earlier OECD analysis of 10 industrial countries showing the range and scale of technological innovation ranked Canada 10th and last.

The new incentives, announced by the Hon. Judd Buchanan, Minister of State for Science and Technology, are designed to put Canada on the road towards a healthier state of R&D. The measures, to cost \$28.7 million in fiscal 1978-79, include:

A national target for R&D expenditure of 1.5 per cent of gross domestic product by 1983.

A \$3 million program under Canada Works to create jobs for scientific and technical personnel to undertake research projects in universities at the request of Canadian firms.

The addition of \$5 million to the National Research Council's Program of Industry-Laboratory Projects, and expansion by \$350,000 of the NRC's Technical Information Service for small businesses through the employment of senior students in science and engineering.

Establishment over the next two years of up to five regional university-based Industrial Research and Innovation Centres to aid industry, particularly small businesses and private inventors in the development of new products or technologies.

Creation of Regional Centres of Excellence to achieve better integration of Government, university and industrial research capacity — such as an NRC ice test tank in Newfoundland for cold water engineering.

An increase of \$10 million this year for university research in areas of national concern.

These measures are a good start. As Mr. Buchanan noted, they "lay a good foundation for growth in industrial R&D and for a new spirit of cooperation among Government, universities, and industry."

We shouldn't stop there, however. We should go further. One of the key problems is our present brain-plant economy, in which the R&D function is almost entirely a head office responsibility (a good example is our auto industry). I believe the Government should impose a minimum level and require the branch plants of foreign-owned companies to conduct a certain percentage of their R&D in Canada. I feel very strongly about this and will press for its realization.

Continue watering lawn

Water is the key word for vibrant greenery around the home and garden. Bob Fleming, Ontario Ministry of Agriculture and Food horticulturist, Vineland Station, has tips for quenching thirsty lawns, shrubs and trees.

To maintain a spring-green lawn throughout the hot summer, turf grasses must have regular supplies of water. At least one inch of moisture, about one hour's sprinkling from the garden hose, is required each week if there has been no rain. If the lawn is not watered, grass growth can be stunted until cooler September days arrive.

Acton tennis

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exceptional exciting tennis. Although in the over 30 categories, officials and lineups are supplied for tournament matches, there were no lineups present at the Morris and Bruce-Matthew and McGillicuddy match, despite it being a championship game. The boys were forced to call their own lines, which was a bit of a problem and would tend to distract from one's concentration. Many people were dissatisfied with the lack of lineups.

The stands were filled at the Acton tennis courts, with about 30 people witnessing the match, which lasted more than two hours.

FORTHCOMING MARRIAGES

Russell-Miceli
Mr. and Mrs. Hank Russell of Georgetown wish to announce the forthcoming marriage of their daughter Laura Mae to Frank Miceli son of Mr. and Mrs. Betty Colson of Kirkland Lake Ontario. Wedding to take place at St. Albert's Anglican Church, Glen Williams on Sat. August 12, 1978. 299m

DEATHS

LANGDON, Robert—On Wednesday July 12, 1978 at the Riverdale Hospital, beloved husband of Wilena Cummins. Beloved son of Arthur and Mary Langdon, dear brother of William and Mrs. J. Yimlin (Myrna). Funeral services were held on Saturday, July 15, at Waverley Road Baptist Church, Toronto, Ontario. Interment St. James Cemetery. 30d

MARRIAGES

Gillett-Clarke
Mr. and Mrs. Robert Gillett are pleased to announce the wedding of their daughter Spring Melanie to Daniel Wayne, son of Mr. and Mrs. Cyril Clarke of Erin (formerly Georgetown) on July 7, 1978 in the City Hall, Langley B.C.

MARRIAGES

STAMP, David—At Toronto General Hospital on Friday, July 21, 1978. David Stamp beloved husband of Millicent Blackall of Eden Mills, dear father of Amanda, at home, dear son of Lila (Mrs. Gordon Wright) of Brampton and the late David Stamp. Dear brother of James of Brampton, Evelyn (Mrs. Reg Zanatta) of Milton, and Patricia (Mrs. John Blanchette) of Calgary. Rested at the Gilbert, MacIntyre & Son Funeral Home, 252 Dublin Street North, Guelph, where service and committal was held Monday, July 24 at 1:30 o'clock, followed by cremation. 30d

BIRTHS

FENDLEY—Charlie and Judy (Rayner) are proud to announce the birth of their daughter Kimberley Anne, 6 lbs. 13 ozs. on July 10, 1978 at M.U.M.C. Hamilton. Proud grandparents are Mr. and Mrs. Len Rayner and Mrs. Wes Fendley (V.I.). 30b

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Food Shopper's List

Save money on the "big value" food buys in this week's grocery ads. Check the items you need and take this list with you on your shopping trips.

Produce	Cereal	Meats
Apples	Diapers	Bacon
Asparagus	Oil	Chicken
Bananas	Powder	Cold Cuts
Beans		Fish
Cabbage		Ham
Carrots		Hamburger
Cauliflower		Liver
Celery	Condiments	Pork Chops
Cucumbers	Ketchup	Roasts
Lemons	Mustard	Sausage
Lettuce	Pepper	Spareribs
Limes	Pickles, Olives	Steak
Onions	Relish	Turkey
Oranges	Salad Dressings	Wieners
Peppers	Salt	
Pineapple	Spices	Household Supplies
Potatoes	Vinegar	Bleach
Tomatoes		Detergents
Turnip		Cleaners
Grapefruit		Furniture Polish
	Dairy Bar	Garbage Bags
	Butter	Hand Soap
	Cheese	Light Bulbs
	Eggs	Liquid Detergent
	Ice Cream	Paper Towels
	Milk	Serviettes
	Shortening	Wax
	Lard	
	Yogurt	Drugs
Canned Goods		Headache Tablets
Applesauce		Deodorant
Beans		Razor Blades
Carrots		Sanitary Napkins
Fruit Cocktail		Shampoo
Fruit Juices		Tissues
Mushrooms		Toothpaste
Macaroni		
Peaches	Frozen Foods	Bakery Items
Pears	Desserts	Bread
Peas	Fish	Cakes
Pork & Beans	Fruit	Cookies
Salmon	Juices	Pies
Sardines	Soups	Rolls
Soups	TV Dinners	
Spaghetti	Vegetables	Other Items
Tomato Sauces		
Tomatoes		
Tuna Fish		
	Miscellaneous	
	Cake Mixes	
	Candy	
	Cereals	
	Cigarettes	
	Crackers	
	Jams	
	Marmalade	
	Lunch Bags	
	Macaroni	
	Margarine	
	Noodles	
	Peanut Butter	
	Pet Foods	
	Pop	
	Potato Chips	
	Pizza	
	Spaghetti	
	Rice	
	Wrap, Wax, Foil	
Baby Needs		
Fruit (Jars)		
Meat (Jars)		
Vegetables (Jars)		

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