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In 1966, for example, there were two, a \$30,045 contract for a study entitled "Flow noise in underwater acoustic data collection systems", and a \$15,228 contract for a study called "Underwater acoustic research."

In the same year, Offley reports, the Nova Scotia Technical College got at least three such contracts for a total of at least \$41,100. The studies related to covered rocket motors, thin metal foils and electronic ceramics.

In the four years from 1966 to 1970, Dal received more than \$267,000 in research grants from the Defence Research Board. The largest hunk, \$59,725, went to the psych department, while oceanography was a close second with \$57,100.

The engineering physics department got \$34,228; chemistry, \$27,600; mathematics, \$26,350; geology, \$24,500; physics, \$18,650; medicine, \$5,500; and computer \$4,590.

The DRB research done at Dal, Offley said, is used internationally to bolster the west's war capacity, and in doing so to prop up the international imperialist system.

"This is not value-free science, but science in the service of capitalism."

He noted the board's connections with NORAD (through a research sub-group located in Colorado Springs, Colo.), and with NATO (the board is part of the NATO defence research group, a consortium of the military research branches of NATO countries).

The science is also organically linked to the entire defence establishment in Nova Scotia, Offley said.

"The Bedford Institute of Oceanography does research for the DRB and has representatives on DRB subcommittees. Almost all the research carried on at Bedford has at least some bearing on the scientific prerequisites necessary for a modern anti-submarine warfare program.

"The Maritime Command bases here are rendered scientific services by Dalhousie professors and the National Research Council establishment here is intimately linked to the DRB".

The new Foreign Policy Research Centre, Offley said, has intimate connections various military agencies through its personnel.

"For example, commander Michael K. McGwire, professor of military and

strategic studies in the centre, is a former naval commander and specialist in Soviet naval strategy, and G. R. S. Hawkins, associate director of the centre, was a British naval intelligence operative during the Second World War."

Wherever you look in Nova Scotia, the military seems to have bases, Offley said. "HMC Dockyard, Shearwater, Cornwallis, Stadacona, Windsor Park and Grosebrook are only a few.

"There is a submarine wargaming school in Dartmouth and a joint United States Navy-Royal Canadian Navy base in Shelburne."

Hermes Electronics in Dartmouth used to be EMI Electronics which had a huge contract with the U.S. Navy for sonabuys used in anti-submarine warfare. It was also a major contractor for the DND and the DRB and one of the members of its board of directors was Victor DeB. Oland, lieutenant-governor of Nova Scotia, a member of Dal's board of governors.

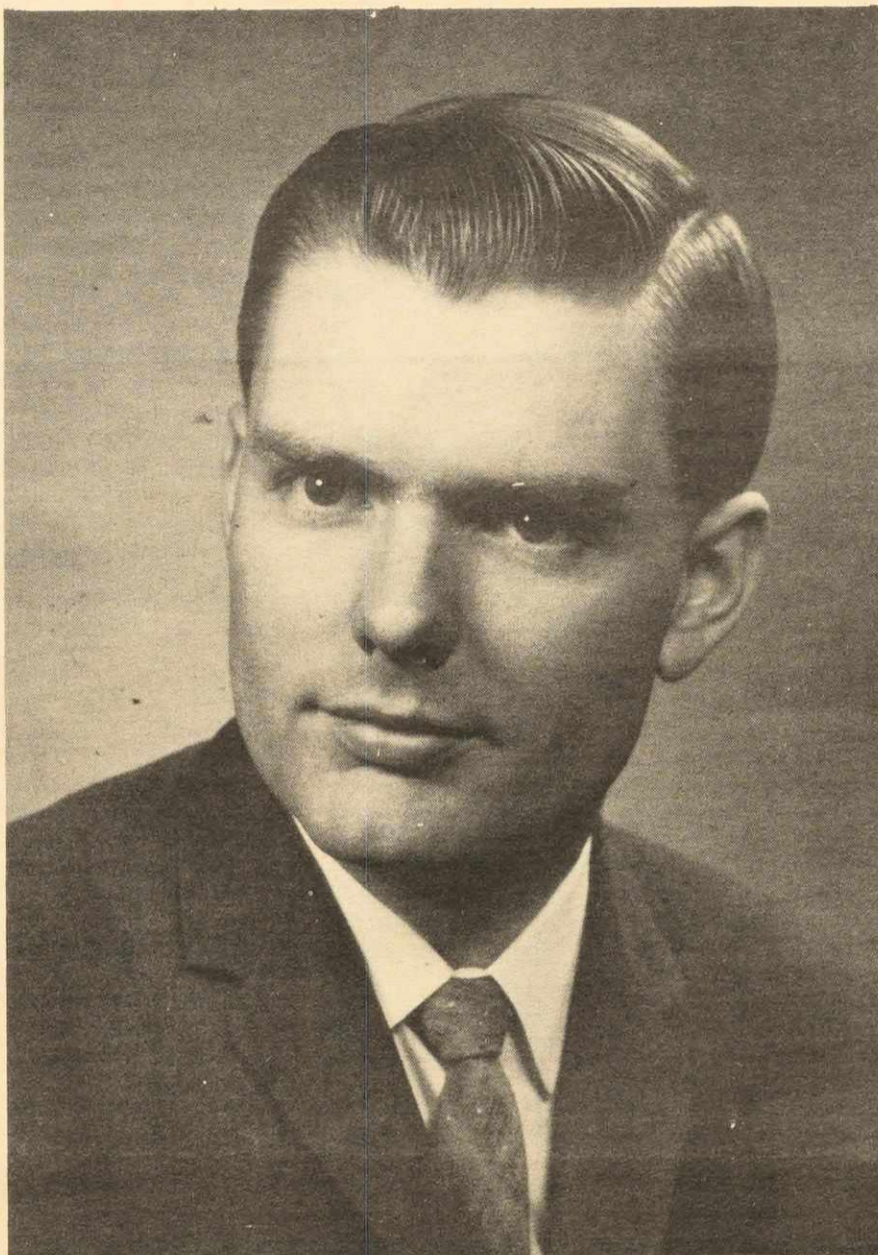
Members of the Defence Research Board have included or include a vice-president of Canadian Industries Ltd., a vice-president of Dow Breweries, the president of Canada Packers Ltd., the research director of Noranda Mines, the research director of DeHavilland Aircraft of Canada Ltd., the president of Union Carbide Ltd., the research director of Canadian Liquid Air Ltd., and the president of Sidbec.

"The pattern that emerges points clearly to the harmonious inter-relationship between the DRB, Dalhousie, the military establishment and big business," Offley continued.

These inter-relationships, Offley said, can be drawn together in the career of one Dalhousie professor, that of Dr. Michael J. L. Kirby. This career is one in which "the unity of the military, scientific, educational, political and war research establishments becomes something near perfect."

Kirby graduated from Dal with a B. Sc. in 1961. He received his M.A. in math from here in 1962 and his Ph.D. in applied math (operations research) from Northwestern University in 1965.

From there he went to work for the Research Analysis Corporation in McLean, Va., where he stayed for a year as operations analyst in RAC's advanced research division. (The RAC, according to Offley, is the United States Army think



Dr. M. Kirby, a principle Dal recipient of DRB grants.

tank on systems analysis and operational research, and has been consistently involved in counter-insurgency warfare, analyses of various aspects of the war in Vietnam, chemical and biological warfare and the like.)

In 1965, Kirby was hired as a staff member of the University of Chicago's Centre for Mathematics and Studies in Business and Economics, and a year later he became assistant professor in the U. of Chicago's graduate school of

business.

In 1966 he came back to Dalhousie as an assistant professor of math. He is now an associate professor (on sabbatical), an assistant dean of arts and science and a member of the Dal faculty council.

Since 1965 he has been scientific consultant to the commander of the Maritime Command. In this capacity he has published a number of technical papers dealing with an operational research analysis of anti-submarine warfare.

A year and a half ago he went to France to attend a NATO scientific conference.

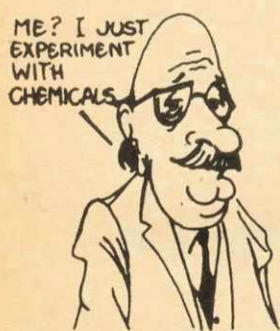
Kirby, Offley discovered, gets the largest share of research grants in the math department, including the DRB grants.

But Kirby is also active in other important and related fields.

According to Offley, he is probably the most powerful man behind the scenes in the Nova Scotia Liberal Party. "He and (Dal president) Henry Hicks were the only two delegates to the 1968 national Liberal convention who were committed to Trudeau before the first ballot."

Kirby was also a member of the permanent council of the Company of Young Canadians when the CYC was purged by the federal government. Offley accused him of being the main hatchetman in that messy operation.

But Kirby is perhaps best known as a public figure in the Liberal government . . . he is Gerald Regan's personal secretary and top aide.



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