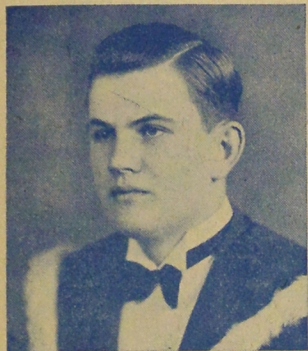


## NEW FACULTY MEMBERS



JAMES O. DINEEN

The smiling enlightener of Junior electricals and pigeons, Jim dominates the lecture room by his genial and vigorous personality. Though almost a newcomer to the teaching game, his derivations of complicated formulae are fluent and graceful.

Jim was born at Hampton, N. B. and says he knew the gearshift on a milking machine long before he saw a street car. He attended the local public and high school with such enthusiasm that on graduation, he just naturally claimed a Beaverbrook Scholarship.

Arriving at Lady Beaverbrook Residence in 1936 he surveyed the impressive academic calendar and decided to try electrical engineering. In his Jr. year he won the Engineering Institute of Canada prize. During his Sr. year he managed the football team and rink and on graduation he won the coveted Rhodes Scholarship, and one of three others of which he accepted a fellowship for post graduate work at U. of T. This he claimed immediately as the Rhodes Scholarship was deferred until after the war.

At U. of T. he achieved the usual Dineen success in his academic work. Strangely enough his childhood sweetheart at this time was studying Household Science at U. of T. The following spring, he cooperated with the Dominion Provincial War Training Plan by teaching radio work in Hamilton and persuaded the now Mrs. Dineen to apply her knowledge to the practical field.

Later that year Prof. Dineen was called by Dr. Baird to assist with the increasing duties occasioned by the influx of R.C.A.F. radio students. He has extended the R.C.A.F. course with Dr. Baird and taken over the supervision of all Jr. electricals.

Prof. Dineen's duties allow little time for hobbies except his young son, his work and his books. However, at any opportunity he spends the weekend working around his own farm.

Much is blamed on the stork that should properly be blamed on a lark.

The burglar, finding a lady in her bath, covered her with a revolver.



EDWARD W. HAGERMAN

Known to hundreds of graduates and under-graduates for his bluff, hearty manner, his ruddy complexion and crew cut, "Ed" typifies the spirit of our engineering school. Assistant Professor in Mechanical Engineering to Dr. Stephens, he builds the stuff "Blinkey" tears apart in the testing machine, and presides over Freshman draughting, explaining the deep mysteries of "fudge it." He instructs Sophs in the use of the transit, and is master of the machine shop—giving Juniors jobs to do, eventually having to do them himself. A versatile instructor, he handles the draughting pen and blowtorch with equal skill.

Ed was born in Fredericton and attended schools and university here, graduating with a B.Sc. in Forestry in '23. After gaining some experience with Forestry in Northern Quebec, he recognized a better profession, and returned to U.N.B. to join the Engineering Department in 1926. His Nash in front of the Engineering Building is now becoming as renowned as another vehicle of more venerable vintage.

Besides his work with the college, Ed is City Water Analyst and runs the Dominion Meteorological Station here. But conscientious a weatherman as he is—he lets the climate in Fredericton reach some remarkable extremes. In addition to these activities Ed is an enthusiastic badminton player and a golfer, and to add to his accomplishments, has tried his hand at fox-ranching with some success.

Last December he married Miss Pauline Peabody, and we wish them every happiness in the matrimonial merry-go-round. Ed's willing services have been invaluable to our favorite Faculty, and his helping hand much appreciated by the students who have worked with him.

Definition of a rhumba—an asset to music.

Professor, rapping on desk, "Order!"

Entire class, "Beer".

Dorothy Dix says if all the co-eds were laid end to end she wouldn't be a bit surprised.

The Engineer's Role  
In Time of War

By Professor J. H. Moore, Associate  
Professor of Civil Engineering

The war, in which we have been engaged since September 1939, is one in which the Axis Powers have concentrated the development of the powers of science and engineering for almost a decade on one purpose only—our defeat.

Canada has played her part in meeting this threat by taking the patterns of war equipment, that were available at the outbreak of war in this country and in the other United Nations, and Canadian industry, converted from peacetime pursuits, has produced and improved these weapons and articles of war.

Under the direction of Canadian engineers this transformation has been quickly and efficiently carried out. The automobile industry was rapidly changed over to the manufacture of mechanized equipment for the army. The Canadian aircraft industry, which before the war produced less than 200 aeroplanes annually, now produces twice that number monthly. Existing Shipyards have been enlarged and new ones constructed and a large tonnage has been added to both the Royal Canadian Navy and the Merchant Marine. On the basis of national income, which is a fair measure of productive capacity, Canada has produced relatively as many aircraft as the United States and approximately twice the shipping tonnage.

Engineering graduates of the University of New Brunswick have played important parts in many of the achievements of the engineering profession since the beginning of the war. Engineering graduates of the University since 1939 have been engaged in the Shipshaw Power development on the Saguenay, the building of the Alcan Highway, anti-submarine work with the R.C.N. in the Mediterranean, the construction of airports in Labrador and Newfoundland, in the shipbuilding and aircraft industries, in electrical design and research, the development of bauxite deposits in South America, and one graduate of 1939, Squadron Leader McAuley, D.F.C. had made over 50 operational flights over enemy territory before being forced down in Germany, where he is now a prisoner of war. The faculty and student body may be assured that engineering graduates from this University are making important contributions towards victory in this Global War.

It is said that the American forces don't walk any more. The air corps ride the Tigers, the army ride the Jeeps and the navy rides the waves.

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## Radio Technician's Course

The massed air attacks on Britain in the fall of 1940 indicated clearly the need for an effective means of reducing the effectiveness of enemy air raids. The production of most types of British aircraft had become standardized, so it was not possible to make any radical changes in their design. However, much work had already been done on various types of radio equipment as a means of detecting aircraft and directing the fire of anti-aircraft batteries. Development of the use of Radio Direction Finding (R.D.F.) equipment, therefore, appeared as an important factor in air warfare.

With this added impetus, new equipment was devised and techniques were improved very rapidly. This presented the problem of providing trained personnel to operate and service the new R.D.F. equipment. Training was begun at once in Britain, and the Canadian Government responded with an extended program for the R.C.A.F., with the actual training to be carried out at Canadian Universities.

U.N.B. was asked to undertake this work and the first course began early in June 1941 under the direction of Dr. A. F. Baird. Dr. Baird was assisted by Professors Boone and Jones who gave instruction in Physics and Mathematics respectively. The laboratory staff included Stan Cassidy and Don Hoyt (both from CFNB and of the class of '33) and Malcolm Redding '41.

The old gym, being the only avail-



DR. A. F. BAIRD

check on the progress of each airman and to determine the advisability of further training. The final examination was followed by a well-earned two-week leave before entering the R.A.F. school at Clinton, Ontario. A. Clinton, the airman took more advanced training on the actual R.D.F. equipment, as the training at the Universities was primarily one in basic principles and knowledge of the new devices is restricted entirely to service personnel. The airmen trained at U.N.B., over 400 in all, set a very fine record for themselves at Clinton and many received commissions at the completion of their course there.

Although the requirements of the R.C.A.F. have been filled, at least for the present, R.D.F. equipment



has been greatly improved in the short space of 18 months and has become a very important weapon in anti-submarine warfare. The Royal Canadian Navy has therefore arranged for a similar course to prepare men for R.D.F. work, both ashore and at sea, so the airforce blue will be replaced by the navy blue on the campus in the future.

J. O. D.

## DISCARDED (Queen's Journal)

He grabbed around my slender neck,  
I could not call or scream;  
He dragged me to his dingy room  
Where he could not be seen;  
He tore away my flimsy wrap  
And looked upon my form;  
I was so cold and damp and scared,  
While he was hot and warm,  
His feverish lips he pressed to mine,  
I gave him every drop;  
He drained me of my very self,  
I could not make him stop,  
He made me what I am to-day,  
That's why you find me here—  
A broken bottle thrown away  
That once was full of beer.

While the proof of this is scanty,  
It's told they'll ban the panty  
For the use of vital rubber must be  
stopped.  
But this is another rumour,  
And they always have the bloomer,  
So I'd really like to see the subject  
dropped.

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