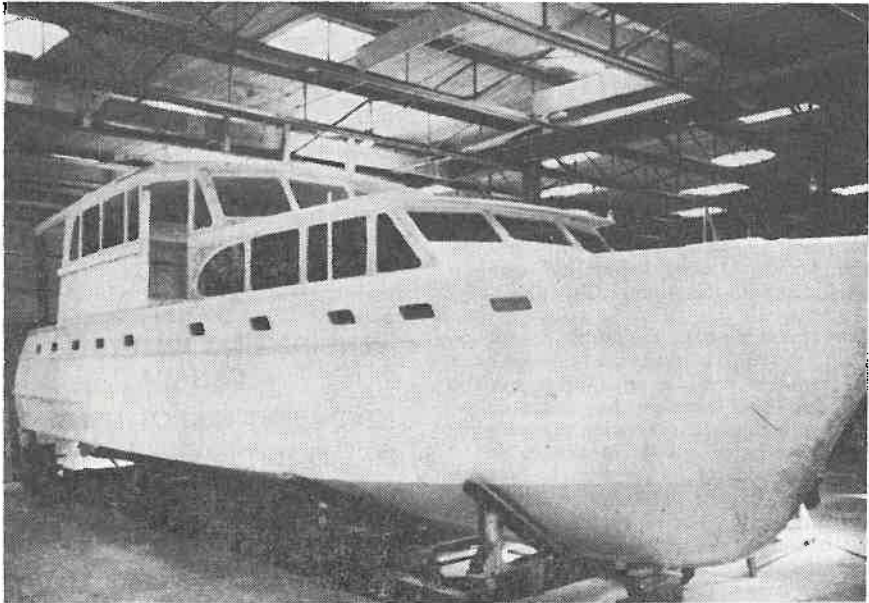




THE MANITOBA PROFESSIONAL ENGINEER

April, 1962

Bulletin of the Association of Professional Engineers of the
Province of Manitoba



50' FIBREGLASS BOAT CONSTRUCTED FOR R. NOONAN, P. ENG.

Published by the Association of Professional Engineers of the Province of Manitoba
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Vice-President — T. E. WEBER, P. Eng.

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Vol. 5

WINNIPEG, MANITOBA, APRIL, 1962

No. 2

Our Role is Changing

The Association has as its first responsibility the regulation of the practice of Engineering in this province under the Engineering Profession Act. Many of our members through the years have felt that this should be the Association's only concern; they have never been in the majority. Our members have clearly demonstrated by their support and their enthusiasm that they expect the Association to organize sports and social activities, and to represent the Profession to the public. That hardy perennial, the Engineer's Club, had hardly withered away at the Annual Meeting before it burst into bloom again with the Alumni Club idea.

If we accept the premise that the Association is much more than a regulatory body, we must as its members consider what other work it should do. This exploration has almost unlimited scope; here is one suggestion to start with: that the Association seek to enhance the Engineering knowledge of its members by sponsoring technical papers. At first glance this may seem difficult in view of the wide range of specialization of our members, but it should be quite possible to arrive at, say, a dozen fields of major interest. Two or three papers a winter in each field might well be an objective.

This is not a new idea for a provincial Association; some of the others — notably Ontario — have a comprehensive branch membership organization through their province with frequent technical papers. It may be argued that this function is being carried on in Manitoba by other bodies such as The Engineering Institute of Canada. 2/3 of APEM members do not belong to the E.I.C., however. They are always made welcome at E.I.C. papers, but they may feel that the Association should be providing this service. There are also several smaller fields of specialization such as Mining Engin-

earing and Geology where the Association could provide service where none presently exists.

With a full-time office the Association may be better able to organize technical papers than any other engineering group in the province. This is one area into which the Association could expand its activities; other possibilities will be brought up in later issues. The Association's job must be shaped by the wishes of its members, and those wishes should be frequently re-assessed. J.C.G.

★ ★ ★

ENGINEERING INSTITUTE OF CANADA

WINNIPEG BRANCH MEETING

Date: 10 May, 1962 (Thursday).

Place: Pembina Hotel — Luigi's Room.

Time: 6:30 for 7:00 p.m. Dinner
(12 oz. Club Steaks).

Speaker: MR. C. M. HOVEY, Bristol Aero Industries.

Subject: High Strength Materials.

Price: \$2.25 per person.

Tickets: Available at the Door.

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Employment

There are engineers in various fields registered for employment at the Association office. Employers are invited to contact the office with their requirements.

Council Meetings

The 4th meeting of the 1962 Council was held in the Association office at noon on February 26th. Attending were President R. E. Chant, Registrar O. Marantz and Councillors C. S. Landon, W. L. Wardrop, G. Flavell and B. Chappell.

One Engineering Pupil and four Engineers in Training were enrolled. Registrations of three and reinstatement of two Professional Engineers were approved.

Council decided that Association funds in excess of monthly requirements be transferred from the current account to a savings account, thereby earning an estimated annual interest of about \$300.00.

A letter to Council from a member regarding Manitoba Hospital Board difficulties in obtaining satisfactory engineering services for hospital construction was referred to the Engineers-Architects Committee. The main point at issue appears to be the use of manufacturers' engineering services in lieu of consulting engineering services.

Report was received from the reactivated Engineering Technicians Committee. A meeting was held to discuss our representation on the Advisory Committee of the Manitoba Institute of Technology. Courses are to be set up in the field of Electrical, Electronics, Mechanical and Structural Technology.

Approval was given for provision of funds for the Public Relations Committee Career Guidance activities. A High School speaker's kit will be assembled, consisting of film clips, recording tapes, etc. Approval was also given for reimbursement of reasonable travel expenses for speakers giving talks at out of town locations.

It was decided that President Chant would attend the forthcoming annual meeting of Canadian Council in Quebec City as the Association's official representative, and that Professor Marantz, the Registrar, would attend as an observer.

A copy of a letter from the President of the E.I.C. to the President of the C.C.P.E., on the subject of Confederation, was held over for further study due to its somewhat surprising content.

In accordance with by-law number 10, a motion was passed giving consent of Council to absence for more than three consecutive meet-

ings of Council on behalf of Councillor Noonan, for business reasons.

Council adjourned at 1:50 p.m. — I.W.T.

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April 2, 1962.

Council approved the enrolling of 16 Engineering Pupils and 3 Engineers in Training. Two transfers and registrations of 14 new members were also approved.

President Chant then presented a Certificate of Membership to H. P. Schippers, P. Eng., who qualified for membership by successfully writing the examinations of the Association. Mr. Schippers was heartily congratulated by the members of Council.

As a result of suggestions that funds be transferred from the savings account into more profitable investments, Council authorized the purchase of 4% Province of Manitoba Savings Bonds, in the amount of \$12,000.00.

Council then discussed arrangements for a farewell dinner in honour of Councillor George Flavell, who is being transferred by his firm to the Province of Alberta.

The subject of Confederation was then considered. It was decided to release to the membership certain reports, in order that members could be brought up to date on the increasingly cloudy situation which is developing due to apparent agreements to disagree between the organizations concerned.

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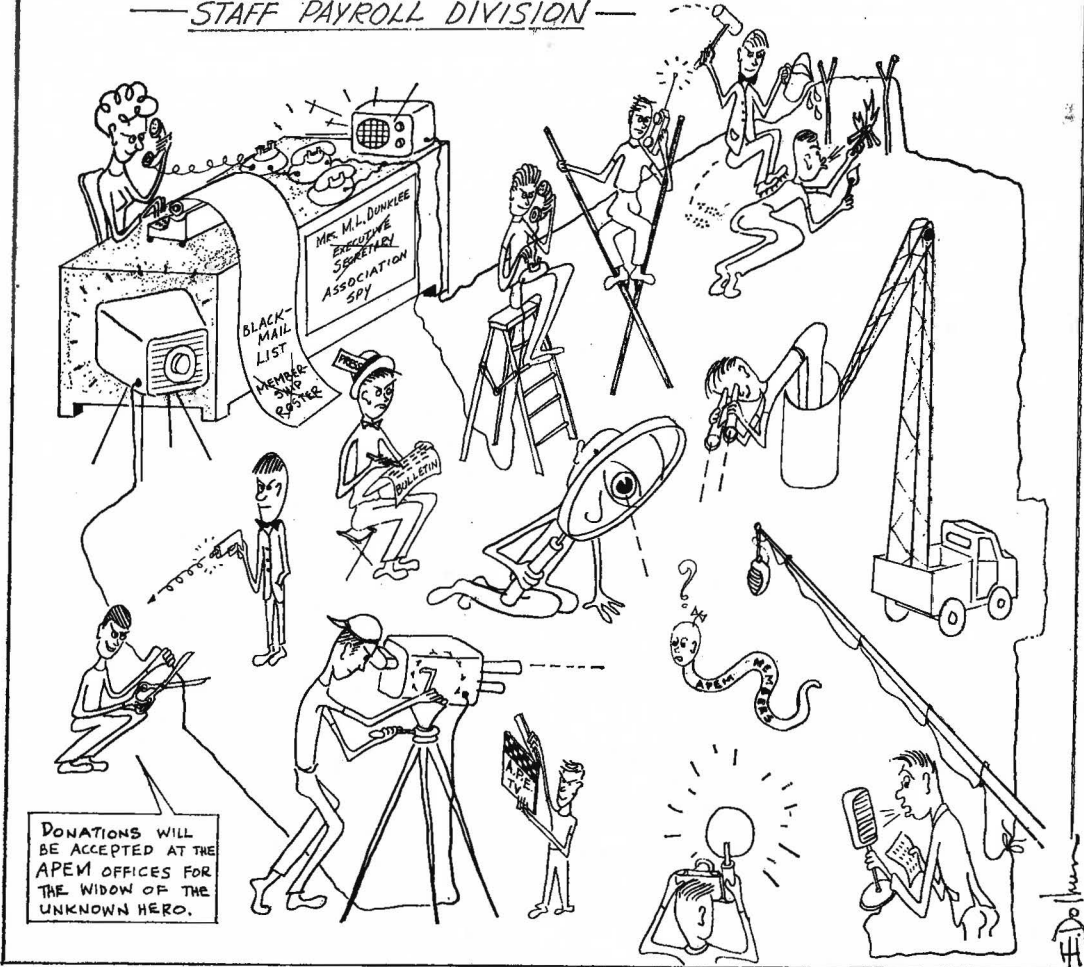
ENGINEERS' BALL

About 450 engineers and their ladies gathered in the Skyview Ballroom of the Marlborough Hotel on February 16th for the glittering highlight of the spring social season, the Engineers Ball. A continuation of the trend to more formal dress was evident as more than 50% of those attending wore black ties. Perhaps the aspiration of the Social Committee, a formal ball, will be realized in another two or three years at this rate.

Food and refreshments were adequate. Irving Plumm and his orchestra were superb, and the music ranged from Viennese waltzes to the twist. Special mention must be made of Miss Sheila Dwyer and Mr. Gordon Crabtree for their joyful Charleston and of Mrs. W. D. Hurst, Mrs. R. S. Williams and Messrs. Bill Lynn and T. E. Storey for their exhilarating twist.

—R.C.S.

ANNUAL FINANCIAL STATEMENT OF "HIDDEN-EXPENSES"
— STAFF PAYROLL DIVISION —



G. A. (ROCKY) RUSSELL WINS CONTEST

The Bulletin Committee offered a prize of a bottle of imported perfume for the best explanation of the above cartoon, which appeared in the last issue. Prof. G. A. (Rocky) Russell's prize winning entry may be found on page 5.

REPLY
TO
"ROCKY"



Cartoon Contest Winner

Dear Cartoon Contest:

EXPLANATION DE QUOI

The basic organization of the cartoon stems from two things, one an historical anecdote, the other a new trend in modern art in the United States. The anecdote recounts how a bird in the tropics has a habit of flying around, in ever-decreasing circles until he enters his own fundamental orifice from which position he heaps scorn and derision on his baffled pursuers. The new art trend, which has produced many works resembling fundamental orifices, has been developed by artists who wish to narrow down their compensation and produce the ultimate in concentration. The works have spirals and sometimes squares or rectangles that get smaller and smaller towards the centre of the painting.

Now the basic result of both of these influences is a deep sense or feeling of introspection or introversion and may be, in many cases, diagnostic of an impending involution to perversion.

The key figure in the cartoon is, of course, the worm which is beginning to writhe as if it was going to turn but is undecided as indicated by the Freudian symbol over its head. In the event that the worm did turn, the event would be so significant that all eyes, as well as all the modern accoutrements of science and technology (which are used today mainly to show that the modern world bears no resemblance to the world of the past and to convince people that the problems which plagued mankind 5000 years ago don't really exist today at all and that if they do — science and technology will make short work of them) — are turned on the worm. It remains only to analyze what will happen when the worm turns and this is indicated in several places in the composition.

The most obvious change, when the worm turns, is that people will have fires lighted under them and will no longer be content to read about all the other organizations in the country who avail themselves of every opportunity to present briefs in recognition of their organization — the doctors, the lawyers, various chambers of commerce and so forth. Secondly, as indicated by the crossed stilts, they will realize that it is really rather futile to contemplate the formation of an engineers' club when that is really all the organization amounts to anyway — dances, curling tournaments,

golf tournaments, etc., being the only functions at which anything like a representative group can be assembled. Thirdly, when the worm turns — as indicated by the number of card-carrying technicians in the cartoon — there will be something amounting to a revolution in that the very great majority of members, who belong because it is a necessary evil incurred from the passage of a legislative act, will come to regard themselves — rather than their rubber stamps — as being of the essence.

The imminence of the atrophication is indicated by the sardonic smile on the lips of the association spy who evilly contemplates the Damoclean microphone (symbolizing public opinion and public relations) and wonders whether it will fall, squashing worm guts all over her clean office.

Yours very truly,

George A. Russell, P. Eng.,
Syndicated art critic.

Ed. Comment: Although George Russell's cartoon solution has absolutely no connection with the cartoon, this did not weigh against him with the contest judges.

★ ★ ★



GEORGE FLAVELL, P. Eng.

To coin a well-worn phrase, "Alberta's gain is our loss." It is with mixed feelings that we record the transfer of George Flavell from the Winnipeg Branch to the Calgary Branch of

Canadian Westinghouse. We congratulate George on the promotion and the Alberta Association on the acquisition of a valuable member, but we are indeed sorry to lose George from our midst. He has been an active member of this Association, serving on several committees and latterly on Council. He takes with him our good wishes and the knowledge that he will always be welcome back in Manitoba, either on a temporary or permanent basis.

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An Exercise In Futility

Events have taken a startling turn in the last few months; the Engineers Confederation Commission final Report seems to have lost a good deal of momentum, and Confederation now seems further away than it did a year ago. Canadian Engineers have been actively concerned with Confederation since 1926, although the present phase probably began with the plan for "Unity" put forward by Mr. J. Herbert Smith in 1953. The Engineers Confederation Commission, appointed in 1959, whose final Report was published just a year ago, held four plenary meetings, hundreds of committee meetings, and travelled half a million miles in the preparation of their report. Engineers in Canada have invested at least \$50,000 in this report; it should not be cast aside lightly.

Members of the A.P.E.M. will receive from Council a resumé of the opinions expressed on this report by E.I.C. Council, by the Winnipeg Branch of the E.I.C., and by the A.P.E.M. Council, who have studied the Report in detail as a Committee of the Whole. These opinions are sharply at variance one with another, and members are urged to read Council's resumé closely since no further summary is possible here. The Confederation Commission Report is in danger of being by-passed by alternative plans before individual members have made up their minds on whether they find the Report acceptable.—J.C.G.

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Summer Work

STUDENTS

There are several engineering pupils registered at the office for summer employment.

Engineers' Wives Tales



The clock was turned back 40 years on March 27th, when the Professional Engineers' Wives Association held a Roaring Twenties Party at the Assiniboine Hotel. Fortunately, the husbands were invited, for this was a thoroughly enjoyable evening.

It was a costume party in the form of a smorgasbord, followed by entertainment and facilities for dancing. The setting in the basement hall was reminiscent of speak-easy days, with flappers flitting around.

Following an excellent meal, the 220 guests were entertained by a series of top-notch acts. First there was a vocal trio with an all-girl band, plus a soft shoe routine. Then a one act play, concerning "another woman" which was handled with a high level of humor. A fashion show, with authentic clothes from the '20's was next. Everything for sports, bridal parties, garden parties, campus and baby sitters. A fine selection of audience participation games followed, with Engineers showing their skills at balancing blocks on plates, ladies on their laps and removing their socks in five seconds flat. The entertainment was brought to a rousing finish by a bevy of beauties doing a strenuous Charleston.

Best costume prizes were awarded to Pat VanClief and Mike Schioler.

Dancing was to have followed, but most of the audience was so exhausted with laughter and enjoyment of the acts that only a few spry ones had energy enough to step to the lively music.

Thank you, ladies, for a grand evening and we look forward to next year's party, wondering what you will do to match this one.

—R.C.S.

WANTED

One thousand two hundred and twenty-nine Association members (current enrollment) to serve on the Membership Committee. The seven members of the present committee wish to contact those people who are eligible for membership in the Association but who are not members. To accomplish this goal, the Membership Committee is appealing to all members of the Association.

If you know of anyone who may be qualified for membership but who is not a member, please TELEPHONE the Association office at WH 3-6745, or write to:

The Association of Professional Engineers
of the Province of Manitoba,
418 Avenue Building,
Winnipeg 2, Manitoba.

We are noted for our tact and charm and are eager to exercise our sales ability on prospective members.

♦ ♦ ♦

REWARD

—The satisfaction of knowing that you have performed a valuable service for:

- the Membership Committee.
- yourself, as a member of the Association.
- the prospective member.
- the Association.

Only by building a strong Association can we improve the services offered to the public by the profession.

—Membership Committee

Letters to the Editor Evening Courses For Engineers

The Editor,
Manitoba Professional Engineer.

Dear Sir:

Re: Shielding Analysis & Fallout Shelters

J. E. Whenham, P. Eng., is to be congratulated on his fine article on protection from nuclear radiation. When we are 15 minutes missile flying time from Moscow and less from Peking, it is time to take the minimum necessary precautions to survive. Unless some further concrete action is taken the general public will be forced to take shelter in their basements (which in mining areas are sometimes above ground), so that a cheap and fast means of window and basement protection is badly needed.

I understand if there is an attack that money will no longer have any value, that the Income Tax Department will have to close down, and that tobacco and liquor will be legal tender. (Put in a few bottles and cartons, they may save your life!).

I had a nightmare that an atomic bomb dropped on an American city, and that when the news got through the 350,000 people of Winnipeg jumped in their cars and all headed for Flin Flon to get away from the fallout. Be sure to bring your fishing line with you, it is fun fishing through the ice in 50 below zero, so they say.

Bring along your T.V. set and we will let you enjoy our fallout shelter.

Yours sincerely,

H. L. EASTON, P. Eng.,
Flin Flon, Man.

✦ ✦ ✦

The following letter has been received from L. M. Nadeau, P. Eng., Executive Secretary of The Canadian Council of Professional Engineers:

I am pleased to advise that the Department of National Revenue has granted our request for an improvement in the rules and regulations governing the temporary entry of reference plans, and that instructions are being forwarded immediately to all ports of entry to the effect that plans imported for reference purposes, under a temporary permit, may be retained in Canada up to a period of one year, without being subject to import duties.

In 1957 there was much agitation for evening courses which could lead to an undergraduate degree in Engineering. As the technical manpower situation has gradually become more stable the interest in such courses has waned. There are still some, however, who believe that a formal evening program would be highly desirable for at least the first year of Engineering. One very significant fact emerges from a study of this problem. For many years the University has offered evening courses in English, Physics and Mathematics which can be applied for credit in Engineering. How many prospective Engineering students have taken advantage of these? The writer knows of none! This seems to be a good indication that a really serious demand for evening undergraduate courses does not exist.

In 1959 the Committee on Night Courses for engineers made arrangements for four non-credit courses for engineering graduates. These courses were held under the Administration of the University of Manitoba Department of Extension and Adult Education. The courses were selected as being the most popular of those indicated by a questionnaire submitted to our membership. One course was dropped from lack of interest. The remaining three squeaked through with just enough students to make it economically feasible. This was accomplished, in the final stages of registration, by personal telephone calls to all those who had requested these courses in the questionnaire.

This general indication of lack of interest in our membership was repeated in the following year. A Bulletin report on this series asked for comments and suggestions for future courses of this nature. None were received. This year three courses were offered, in Reactor Power, Behaviour of Steel and Concrete in Structures, and Mathematics. All but the Mathematics course were abandoned because of the very small registration.

It is obvious that our membership is not showing sufficient interest in courses of this type to warrant the time and energy which must be spent by the University teaching and Administration staff in making them available.

In spite of the poor response to those courses which have been offered I am still convinced that an evening program of studies is highly desirable, perhaps with some courses which might be credited towards a post-graduate degree. The big problem seems to be — "You can lead a horse to water . . ."

C. M. HOVEY, P. Eng.

Member At Large

The Bulletin Committee wish to express their sincere appreciation to Mr. C. M. Midis, Professional Engineer, for the following information regarding himself and his engineering activities. Mr. Midis graduated from the University of Athens in 1952 and received his Masters Degree in Civil Engineering from Purdue University, U.S.A. in 1956. After four years with the consulting engineering firm of Skidmore Owings and Merrill of Chicago he joined the firm of Doxiadis Associates whose head offices are located in Athens, Greece with branches in Lebanon, Iraq, Syria, Pakistan, Ethiopia, Sudan, Ghana, England, U.S.A. and other countries. Although far removed from Manitoba borders he has maintained his membership in this association.

Working for Doxiadis Associates who are consultants for national housing programs, regional programs, city planning, etc., he twice last year was sent to Africa visiting Ghana, Nigeria and the Ivory Coast. In Ghana he contributed to the engineering aspects of the comprehensive social, economic and physical planning of the country which has been undertaken by his firm.

Ghana, which became independent in 1957, has a population of approximately 6.5 million people. Since obtaining independence the government has been striving to improve the standard of living of the Ghanaians by developing the industry of the country. About 70% of the present labor force is engaged in agriculture and associated trades while employment in the processing industries is only 5%.

At present, the main economy of the country is the production of cocoa of which Ghana produces about one-third of the world's supply.

Last year the production was expected to reach 300,000 tons. The export duty on this represents the second most important source of State Revenue.

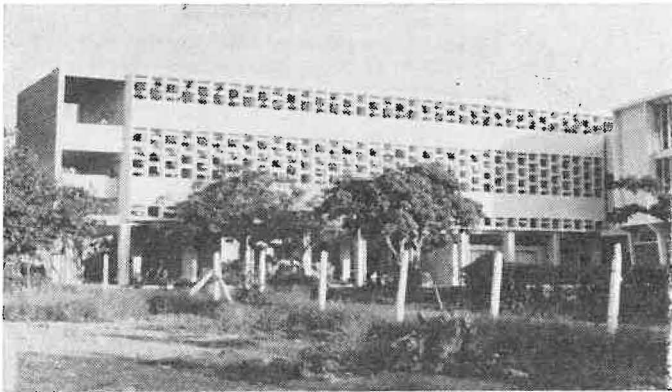
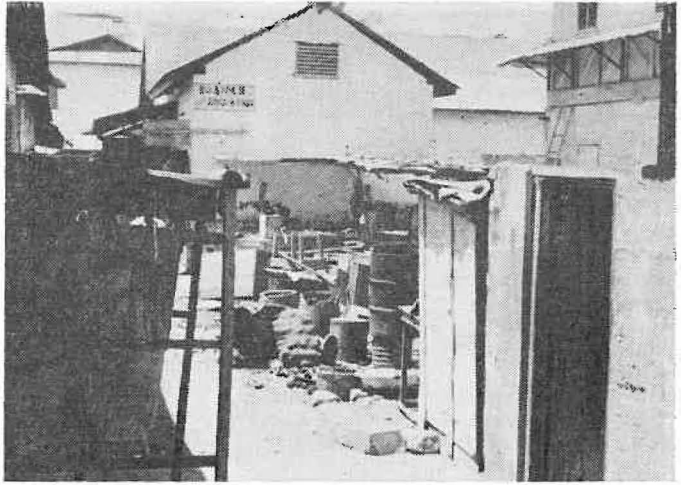
A new source of revenue which will soon be added to the economy is aluminum. A smelter is to be built in Tema, a new port of the country, with the co-operation of Kaiser Aluminum Company (U.S.A.). This smelter will use local Bauxite. Electric power for its operations will be obtained from the new hydroelectric development at Akosombo located about seventy miles north of Tema. At this development on the Volta River is the largest hydroelectric dam to be built in West Africa. It will provide considerable power to the Accra-Tema-Akosombo region for which Doxiadis Associates are preparing a regional development program. This is the most potential area of Ghana.

At Tema, Mr. Midis assisted in the planning of the new city which is expected to have a population of two million people in twenty years and become the largest free port in West Africa. In nearby Accra his firm has undertaken the design of the new commercial centre which will include many high-rise buildings, the town hall, auditorium and offices.

While visiting Ghana, he found considerable difference in the weather there as compared to that which he experienced in Winnipeg in 1955. He reports that the annual temperature range is between 79° and 90°F with the highest temperatures occurring in February. (Eg. +89° as compared to our -35°) Humidity varies between 70% to 80% in the afternoon hours during April and October and is about 95% at 6:00 G.M.T. all year round. The mean monthly rainfall in June is about twenty-four inches.



No. 2



No. 3

During his stay he travelled to the northern border of Ghana, a round trip of 1,200 miles. Along his route he found that Ghanaians, from the primitive villager of the north to the more civilized inhabitants of Accra, are very hospitable and good hearted. One Navrongo native housewife, who could not even understand what clothes were for, insisted that he accept two dozen eggs just because he visited her mud house. At another village while visiting with the Chief shown in picture #1, the natives filled the back of his car with bananas and other fruit.

Like most countries undergoing rapid industrial expansion, he found considerable contrast in old and new, as exemplified in the pictures of an old drug store (#2) with a new building (#3) and an old side street (#4) with an up-to-date main street (#5).

Mr. Ioakimidis has returned to the U.S.A. and

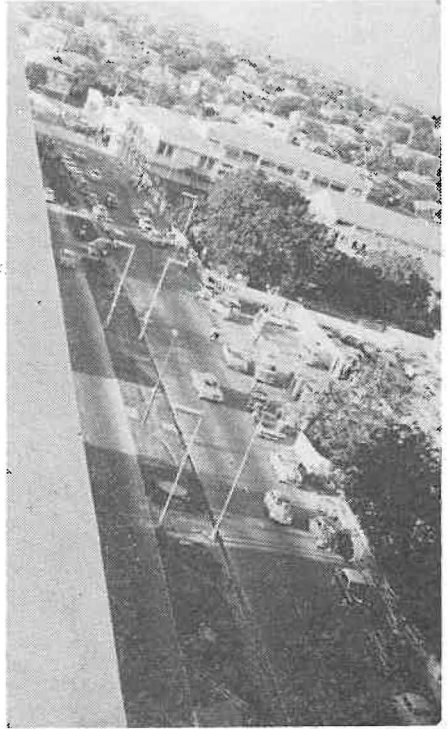
last year worked in the Philadelphia-Pennsylvania office where Doxiadis Associates have undertaken the design of the largest urban renewal project in the U.S.A. This project, known as the Eastwick-Philadelphia project, will include 10,000 houses and has a 300 million dollar budget. He is now Chief Engineer of the Louisville-Kentucky urban renewal project and has taken up residence in Washington, D.C. He has also officially changed his name from Mr. Ioakimidis to Mr. Midis, Pro. Engineer.

APOLOGY

The Social Committee wishes to apologize to the members attending the dance for the calibre of the entertainment, which came to us highly recommended. Unfortunately we were not able to arrange an audition prior to the dance which would have prevented this situation developing.



No. 4



No. 5

COMMENTS ON THE U.S. INDUSTRY DEFENSE AND MOBILIZATION COURSE

By T. C. ELLIOTT, P. Eng.

Last fall the writer was given the opportunity to attend a five day course on Industry Defense and Mobilization at the United States Staff College at Battle Creek, Michigan. There, along with one other Canadian and approximately 95 Americans I spent five days and several evenings learning the "Whys" and "Hows" of Industrial Defense. Defense primarily from nuclear attack but valuable in nearly any industrial emergency.

The students were from a large cross section of the country. We had owners, managers, and engineers from industrial concerns; businessmen from banks and stores; security officers from aircraft companies, electronics companies, and crown corporations. There were also a number of members of the various armed forces in the group.

The course began by justifying the need for Industrial Defense. It then went on to show what had been done nationally and privately

An Emergency Program of a hypothetical company was reviewed in detail by the students. The group was broken down into small discussion groups and each given a section of the plan to review. The course concluded by giving some indication of what the national rehabilitation plans were in the event of a nuclear attack.

The plan for any industry in its essential form is:

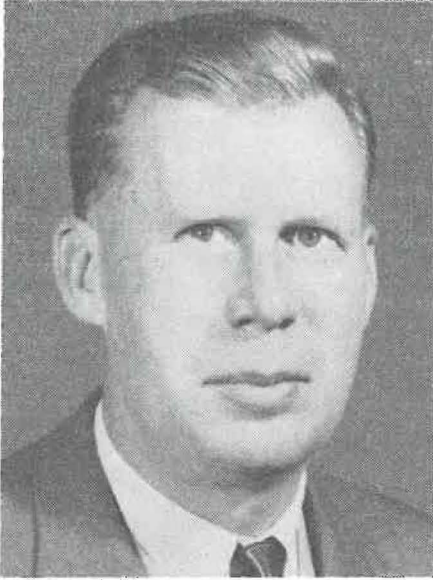
1. Provide fallout protection for your employees.
2. Provide for the continuity of business by adequate protection of essential records.

Your employees with the guidance of your essential records can rebuild and operate again. The loss of either would result in the permanent loss of your facilities.

◆ ◆ ◆

ROOFING FIELD DAY

West of Architecture Building, The University of Manitoba, Saturday, May 5th; Starts at 9 a.m. Three types of roofing will be placed on identical hyperbolic paraboloidal roofs. Everyone Welcome!



R. NOONAN, P. Eng.
Member of Council

Elected to Council of the A.P.E.M. for 1962-63 term was Richard Noonan, P. Eng., prominent in local business and professional circles. Dick is a native Manitoban and was brought up and received his early education in Brandon. On completing high school he entered the University of Manitoba at Winnipeg and graduate with a B.Sc. in Electrical Engineering in 1934. On graduation he joined the Ferranti Company in Manchester, England, as graduate apprentice. After four years in England he returned to Canada to work with the English Electric Company in St. Catharines as Transformer Plant Manager.

In 1946 he came to Winnipeg and was instrumental in the founding of Pioneer Electric Limited. From modest beginnings in a small St. Boniface plant the original company expanded to form the Pioneer Group of Companies with plants in the three prairie provinces and Ontario. Following a merger in 1961 with the Federal Pacific Electric Mr. Noonan continued as President and General Manager of the Pioneer Group and was recently elected to the board of directors of Federal-Pacific Electric of Newark, N.J.

He is a director of the Canadian Electrical Manufacturers Association and is chairman of the Manitoba Branch of the Canadian Manufacturers Association.

A long time member of the A.P.E.M. and

E.I.C., he has taken a particular interest in activities of the Electrical Section, E.I.C. and has served as Chairman of that group. He is a past member of the University of Manitoba Board of Governors.

Dick is married with two daughters, Sherry at home and Pat who is at present studying music in Toronto.

His principal hobby at present is boating in which he has taken much more than a passive interest. He is a member and past Commodore of the Manitoba Yacht Club and he has under construction a fibreglass boat about fifty feet in length. This boat ranks with the largest fibreglass craft in the world and is unique in that it features a corrugated cellular construction. This type construction permits fabrication of the boat in a manner somewhat similar to wood plank construction rather than the conventional moulded fibreglass design—K.H. (See Cover Picture)



FLIN FLON NEWS

By M. N. COLLISON, P. Eng.

The news from this corner of the province is very slim this month. It appears that no one is going anywhere or doing anything, so about the only items that can be gleaned concern curling and that, of course, is a thing of the past for this winter, even though winter is not dead; in fact, it is snowing right now.

M. A. Roche, P. Eng., skipped a rink of his fellow workers in the HBM&S Company's Winnipeg office in Flin Flon's bonspiel in February. "M. A." reported having enjoyed himself even though their record on the curling ice is better kept quiet.

G. H. Kent, P. Eng., was one of the many curlers from Flin Flon who took part in the Manitoba Curling Association's bonspiel in Winnipeg and, once again, an enjoyable time was reported but the lack of a prize-winning effort was most evident.

It is too bad that there is not a column in this bulletin issuing advice to engineers in dire circumstances. The case reported involves curling; the facts being that the engineer's wife won two prizes; one being the Ladies' Club Championship and the other, a bonspiel trophy. The son also won a trophy in the High School Bonspiel. In spite of a third prize in the Flin Flon Men's Bonspiel, how does an engineer go about establishing his supremacy under such conditions, especially considering that the third prize is the one and only in many years.